APPENDIX B

LABORATORY ANALYTICAL REPORTS

GROUNDWATER ANALYTICAL REPORT
L10110608

158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L10110608

Client: Mary Lou Rochette, 156 Starlite Drive, Marietta, OH, 45750

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	*Team Chemist/Data Specialist*	Kathy.Albertson@microbac.com
Stephanie Mossburg	*Team Chemist/Data Specialist*	Stephanie.Mossburg@microbac.com
Tony Long	*Team Chemist/Data Specialist*	Tony.Long@microbac.com
Amanda Fickiesen	*Client Services Specialist*	Amanda.Fickiesen@microbac.com
Annie Brown	*Client Services Specialist*	Annie.Brown@microbac.com

This report was reviewed on December 06, 2010.

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in this report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on December 06, 2010.

David Vandenberg - Managing Director

State of origin: Virginia
Accrediting authority: N/A ID:N/A
QAPP: DOD Ver 4.1
This report contains a total of 2037 pages.

Look closer. Go further. Do more.

Microbac REPORT L10110608
PREPARED FOR Kemron Environmental Services
WORK ID:

1.0 Introduction 3
2.0 Full Sample Data Package 6
2.1 Volatiles Data 7
2.1.1 Volatiles GCMS Data (8260) 8
2.1.1.1 Summary Data 9
2.1.1.2 QC Summary Data 29
2.1.1.3 Sample Data 65
2.1.1.4 Standards Data 109
2.1.1.5 Raw QC Data 148
2.2 Metals Data 158
2.2.1 Metals ICP-MS Data 159
2.2.1.1 Summary Data 160
2.2.1.2 QC Summary Data 182
2.2.1.3 Raw Data 277
2.3 General Chemistry Data 1987
2.3.1 BOD Data 1988
2.3.1.1 Summary Data 1989
2.3.1.2 QC Summary Data 1993
2.3.1.3 Raw Data 2000
2.3.2 COD Data 2004
2.3.2.1 Summary Data 2005
2.3.2.2 QC Summary Data 2009
2.3.2.3 Raw Data 2016
3.0 Attachments 2024

1.0 Introduction

LABORATORY REPORT

L10110608

12/06/10 11:10

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Summary

Client ID	Lab ID	Date Collected	Date Received
SWMU57GWMW2	L10110608-01	11/16/2010 15:30	11/17/2010
SWMU57GWMW2	L10110608-02	11/16/2010 15:30	11/17/2010
SWMU57GW111610MS	L10110608-03	11/16/2010 15:30	11/17/2010
SWMU57GW111610MS	L10110608-04	11/16/2010 15:30	11/17/2010
SWMU57GW111610MSD	L10110608-05	11/16/2010 15:30	11/17/2010
SWMU57GW111610MSD	L10110608-06	11/16/2010 15:30	11/17/2010
SWMU57GW111610D1	L10110608-07	11/16/2010 15:30	11/17/2010
SWMU57GW111610D1	L10110608-08	11/16/2010 15:30	11/17/2010
SWMU57111610EB	L10110608-09	11/16/2010 16:00	11/17/2010
SWMU57111610EB	L10110608-10	11/16/2010 16:00	11/17/2010
SWMU57GWMW3	L10110608-11	11/16/2010 18:22	11/17/2010
SWMU57GWMW3	L10110608-12	11/16/2010 18:22	11/17/2010
SWMU57111610FB	L10110608-13	11/16/2010 19:30	11/17/2010
SWMU57111610FB	L10110608-14	11/16/2010 19:30	11/17/2010
SWMU57111610TB	L10110608-15	11/16/2010	11/17/2010
SWMU57111710WC	L10110608-16	11/17/2010 10:30	11/17/2010

L1_A_PROD_COVER - Modified 02/06/2008
PDF File ID: 1853894
Report generated: 12/06/2010 11:10

Login Number: L10110608

Department: Login

Analyst: N/A
Analyst #2: N/A

Chain of Custody:

Shipment Conditions

COC #	Cooler #	Temperature
COC2397	0015127	3.0

Sample Management: All samples were received intact.

Sample Identification

Lab ID	Client ID
L10110608-01	SWMU57GWMW2
L10110608-02	SWMU57GWMW2
L10110608-03	SWMU57GW111610MS
L10110608-04	SWMU57GW111610MS
L10110608-05	SWMU57GW111610MSD
L10110608-06	SWMU57GW111610MSD
L10110608-07	SWMU57GW111610D1
L10110608-08	SWMU57GW111610D1
L10110608-09	SWMU57111610EB
L10110608-10	SWMU57111610EB
L10110608-11	SWMU57GWMW3
L10110608-12	SWMU57GWMW3
L10110608-13	SWMU57111610FB
L10110608-14	SWMU57111610FB
L10110608-15	SWMU57111610TB
L10110608-16	SWMU57111710WC

Narrative ID: 15619
Approved By: Stephanie Mossburg
Stephanie Mossburg

2.0 Full Sample Data Package

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

Login Number: L10110608

Department: Volatiles

Analyst: Mary Schilling
Analyst #2: N/A

METHOD

Preparation SW-846 5030C/5035A

Analysis SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: Recoveries out of range were observed for the following analytes: Naphthalene. Please see the applicable QC report for a detailed presentation of the failures.

BATCH QA/QC All acceptance criteria were met.

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: Recoveries out of range were observed for the following analytes: 2-Chloroethyl vinyl ether. Please see the applicable QC report for a detailed presentation of the failures.

SAMPLES All acceptance criteria were met.

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Other: None.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak. In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak. This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline. There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous. Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 16484
Approved By: Michael Albertson

LABORATORY REPORT

L10110608

12/06/10 11:10

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SWMU57GWMW2	L10110608-01	8260B	1	17-NOV-10
SWMU57GW111610MS	L10110608-03	8260B	1	17-NOV-10
SWMU57GW111610MSD	L10110608-05	8260B	1	17-NOV-10
SWMU57GW111610D1	L10110608-07	8260B	1	17-NOV-10
SWMU57111610EB	L10110608-09	8260B	1	17-NOV-10
SWMU57GWMW3	L10110608-11	8260B	1	17-NOV-10
SWMU57111610FB	L10110608-13	8260B	1	17-NOV-10
SWMU57111610TB	L10110608-15	8260B	1	17-NOV-10

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-01**
Client ID: **SWMU57GWMW2**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 15:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 14:45**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 14:45**
File ID: **8M366012**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,3-Dichloropropane	142-28-9		U	1.00	0.200
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
2,2-Dichloropropane	594-20-7		U	1.00	0.250
2-Butanone	78-93-3		U	10.0	2.50
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
2-Chlorotoluene	95-49-8		U	1.00	0.125
2-Hexanone	591-78-6		U	10.0	2.50
4-Chlorotoluene	106-43-4		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500
Methylene chloride	75-09-2	0.419	J	5.00	0.250
n-Butylbenzene	104-51-8		U	1.00	0.250
n-Propylbenzene	103-65-1		U	1.00	0.125
Naphthalene	91-20-3		U	1.00	0.200
o-Xylene	95-47-6	0.562	J	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
Styrene	100-42-5		U	1.00	0.125
tert-Butylbenzene	98-06-6		U	1.00	0.250
Tetrachloroethene	127-18-4		U	1.00	0.250

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-01**
Client ID: **SWMU57GWMW2**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 15:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 14:45**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 14:45**
File ID: **8M366012**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	116	70	120	
4-Bromofluorobenzene	106	75	120	
Dibromofluoromethane	110	85	115	
Toluene-d8	103	85	120	

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-03**
Client ID: **SWMU57GW111610MS**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 15:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 15:17**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 15:17**
File ID: **8M366013**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,1,1,2-Tetrachloroethane	630-20-6	20.7		1.00	0.250
1,1,1-Trichloroethane	71-55-6	23.3		1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5	17.6		1.00	0.200
1,1,2-Trichloroethane	79-00-5	19.1		1.00	0.250
1,1-Dichloroethane	75-34-3	21.0		1.00	0.125
1,1-Dichloroethene	75-35-4	20.8		1.00	0.500
1,1-Dichloropropene	563-58-6	20.6		1.00	0.250
1,2,3-Trichlorobenzene	87-61-6	17.8		1.00	0.150
1,2,3-Trichloropropane	96-18-4	19.4		1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	17.6		1.00	0.200
1,2,4-Trimethylbenzene	95-63-6	20.3		1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8	20.0		5.00	1.00
1,2-Dibromoethane	106-93-4	19.5		1.00	0.250
1,2-Dichlorobenzene	95-50-1	19.2		1.00	0.125
1,2-Dichloroethane	107-06-2	23.2		1.00	0.250
1,2-Dichloropropane	78-87-5	20.0		1.00	0.200
1,3,5-Trimethylbenzene	108-67-8	20.5		1.00	0.250
1,3-Dichlorobenzene	541-73-1	19.0		1.00	0.250
1,3-Dichloropropane	142-28-9	19.0		1.00	0.200
1,4-Dichlorobenzene	106-46-7	18.3		1.00	0.125
2,2-Dichloropropane	594-20-7	20.6		1.00	0.250
2-Butanone	78-93-3	18.2		10.0	2.50
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
2-Chlorotoluene	95-49-8	20.1		1.00	0.125
2-Hexanone	591-78-6	16.8		10.0	2.50
4-Chlorotoluene	106-43-4	19.5		1.00	0.250
4-Methyl-2-pentanone	108-10-1	16.7		10.0	2.50
Acetone	67-64-1	20.8		10.0	2.50
Benzene	71-43-2	19.0		1.00	0.125
Bromobenzene	108-86-1	19.2		1.00	0.125
Bromochloromethane	74-97-5	20.3		1.00	0.200
Bromodichloromethane	75-27-4	23.1		1.00	0.250
Bromoform	75-25-2	19.9		1.00	0.500
Bromomethane	74-83-9	21.2		1.00	0.500
Carbon disulfide	75-15-0	14.5		1.00	0.500
Carbon tetrachloride	56-23-5	23.6		1.00	0.250
Chlorobenzene	108-90-7	19.1		1.00	0.125
Chlorodibromomethane	124-48-1	21.1		1.00	0.250
Chloroethane	75-00-3	20.2		1.00	0.500
Chloroform	67-66-3	21.7		1.00	0.125
Chloromethane	74-87-3	21.6		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	20.0		1.00	0.250
cis-1,3-Dichloropropene	10061-01-5	20.0		1.00	0.250
Dibromomethane	74-95-3	21.4		1.00	0.250
Dichlorodifluoromethane	75-71-8	20.5		1.00	0.250
Ethylbenzene	100-41-4	19.8		1.00	0.250
Hexachlorobutadiene	87-68-3	18.5		1.00	0.250
Isopropylbenzene	98-82-8	18.2		1.00	0.250
m-,p-Xylene	179601-23-1	39.1		1.00	0.500
Methylene chloride	75-09-2	18.2		5.00	0.250
n-Butylbenzene	104-51-8	19.7		1.00	0.250
n-Propylbenzene	103-65-1	19.7		1.00	0.125
Naphthalene	91-20-3	17.6		1.00	0.200
o-Xylene	95-47-6	19.4		1.00	0.250
p-Isopropyltoluene	99-87-6	19.8		1.00	0.250
sec-Butylbenzene	135-98-8	20.0		1.00	0.250
Styrene	100-42-5	19.6		1.00	0.125
tert-Butylbenzene	98-06-6	19.8		1.00	0.250
Tetrachloroethene	127-18-4	19.0		1.00	0.250

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-03**
Client ID: **SWMU57GW111610MS**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 15:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 15:17**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 15:17**
File ID: **8M366013**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Toluene	108-88-3	19.5		1.00	0.250
trans-1,2-Dichloroethene	156-60-5	20.4		1.00	0.250
trans-1,3-Dichloropropene	10061-02-6	18.6		1.00	0.500
Trichloroethene	79-01-6	20.3		1.00	0.250
Trichlorofluoromethane	75-69-4	22.7		1.00	0.250
Vinyl acetate	108-05-4	12.5		10.0	2.50
Vinyl chloride	75-01-4	22.4		1.00	0.250

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	112	70	120	
4-Bromofluorobenzene	105	75	120	
Dibromofluoromethane	110	85	115	
Toluene-d8	100	85	120	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-05**
Client ID: **SWMU57GW111610MSD**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 15:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 15:48**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 15:48**
File ID: **8M366014**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,1,1,2-Tetrachloroethane	630-20-6	21.1		1.00	0.250
1,1,1-Trichloroethane	71-55-6	23.0		1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5	18.3		1.00	0.200
1,1,2-Trichloroethane	79-00-5	19.3		1.00	0.250
1,1-Dichloroethane	75-34-3	21.2		1.00	0.125
1,1-Dichloroethene	75-35-4	21.4		1.00	0.500
1,1-Dichloropropene	563-58-6	20.6		1.00	0.250
1,2,3-Trichlorobenzene	87-61-6	18.4		1.00	0.150
1,2,3-Trichloropropane	96-18-4	19.5		1.00	0.500
1,2,4-Trichlorobenzene	120-82-1	18.1		1.00	0.200
1,2,4-Trimethylbenzene	95-63-6	20.8		1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8	20.2		5.00	1.00
1,2-Dibromoethane	106-93-4	19.6		1.00	0.250
1,2-Dichlorobenzene	95-50-1	19.6		1.00	0.125
1,2-Dichloroethane	107-06-2	23.5		1.00	0.250
1,2-Dichloropropane	78-87-5	20.3		1.00	0.200
1,3,5-Trimethylbenzene	108-67-8	20.9		1.00	0.250
1,3-Dichlorobenzene	541-73-1	19.8		1.00	0.250
1,3-Dichloropropane	142-28-9	19.8		1.00	0.200
1,4-Dichlorobenzene	106-46-7	18.5		1.00	0.125
2,2-Dichloropropane	594-20-7	20.5		1.00	0.250
2-Butanone	78-93-3	18.6		10.0	2.50
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
2-Chlorotoluene	95-49-8	21.8		1.00	0.125
2-Hexanone	591-78-6	18.1		10.0	2.50
4-Chlorotoluene	106-43-4	19.1		1.00	0.250
4-Methyl-2-pentanone	108-10-1	17.4		10.0	2.50
Acetone	67-64-1	21.0		10.0	2.50
Benzene	71-43-2	19.3		1.00	0.125
Bromobenzene	108-86-1	19.5		1.00	0.125
Bromochloromethane	74-97-5	20.7		1.00	0.200
Bromodichloromethane	75-27-4	23.4		1.00	0.250
Bromoform	75-25-2	20.1		1.00	0.500
Bromomethane	74-83-9	23.0		1.00	0.500
Carbon disulfide	75-15-0	14.5		1.00	0.500
Carbon tetrachloride	56-23-5	23.4		1.00	0.250
Chlorobenzene	108-90-7	19.4		1.00	0.125
Chlorodibromomethane	124-48-1	21.2		1.00	0.250
Chloroethane	75-00-3	20.0		1.00	0.500
Chloroform	67-66-3	21.8		1.00	0.125
Chloromethane	74-87-3	22.3		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	20.3		1.00	0.250
cis-1,3-Dichloropropene	10061-01-5	20.4		1.00	0.250
Dibromomethane	74-95-3	21.8		1.00	0.250
Dichlorodifluoromethane	75-71-8	20.5		1.00	0.250
Ethylbenzene	100-41-4	20.0		1.00	0.250
Hexachlorobutadiene	87-68-3	18.5		1.00	0.250
Isopropylbenzene	98-82-8	18.3		1.00	0.250
m-,p-Xylene	179601-23-1	39.9		1.00	0.500
Methylene chloride	75-09-2	18.9		5.00	0.250
n-Butylbenzene	104-51-8	20.3		1.00	0.250
n-Propylbenzene	103-65-1	20.0		1.00	0.125
Naphthalene	91-20-3	18.1		1.00	0.200
o-Xylene	95-47-6	19.9		1.00	0.250
p-Isopropyltoluene	99-87-6	20.3		1.00	0.250
sec-Butylbenzene	135-98-8	20.3		1.00	0.250
Styrene	100-42-5	20.0		1.00	0.125
tert-Butylbenzene	98-06-6	19.8		1.00	0.250
Tetrachloroethene	127-18-4	19.0		1.00	0.250

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-05**
Client ID: **SWMU57GW111610MSD**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 15:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 15:48**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 15:48**
File ID: **8M366014**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Toluene	108-88-3	19.6		1.00	0.250
trans-1,2-Dichloroethene	156-60-5	20.9		1.00	0.250
trans-1,3-Dichloropropene	10061-02-6	18.8		1.00	0.500
Trichloroethene	79-01-6	20.0		1.00	0.250
Trichlorofluoromethane	75-69-4	22.8		1.00	0.250
Vinyl acetate	108-05-4	12.3		10.0	2.50
Vinyl chloride	75-01-4	22.9		1.00	0.250

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	115	70	120	
4-Bromofluorobenzene	105	75	120	
Dibromofluoromethane	111	85	115	
Toluene-d8	99.7	85	120	

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-07**
Client ID: **SWMU57GW111610D1**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 15:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 12:40**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 12:40**
File ID: **8M366008**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,3-Dichloropropane	142-28-9		U	1.00	0.200
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
2,2-Dichloropropane	594-20-7		U	1.00	0.250
2-Butanone	78-93-3		U	10.0	2.50
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
2-Chlorotoluene	95-49-8		U	1.00	0.125
2-Hexanone	591-78-6		U	10.0	2.50
4-Chlorotoluene	106-43-4		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500
Methylene chloride	75-09-2	0.322	J	5.00	0.250
n-Butylbenzene	104-51-8		U	1.00	0.250
n-Propylbenzene	103-65-1		U	1.00	0.125
Naphthalene	91-20-3		U	1.00	0.200
o-Xylene	95-47-6	0.549	J	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
Styrene	100-42-5		U	1.00	0.125
tert-Butylbenzene	98-06-6		U	1.00	0.250
Tetrachloroethene	127-18-4		U	1.00	0.250

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-07**
Client ID: **SWMU57GW111610D1**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 15:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 12:40**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 12:40**
File ID: **8M366008**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	113	70	120	
4-Bromofluorobenzene	108	75	120	
Dibromofluoromethane	107	85	115	
Toluene-d8	102	85	120	

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-09**
Client ID: **SWMU57111610EB**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 16:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 13:11**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 13:11**
File ID: **8M366009**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,3-Dichloropropane	142-28-9		U	1.00	0.200
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
2,2-Dichloropropane	594-20-7		U	1.00	0.250
2-Butanone	78-93-3		U	10.0	2.50
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
2-Chlorotoluene	95-49-8		U	1.00	0.125
2-Hexanone	591-78-6		U	10.0	2.50
4-Chlorotoluene	106-43-4		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Acetone	67-64-1	2.59	J	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500
Methylene chloride	75-09-2	0.315	J	5.00	0.250
n-Butylbenzene	104-51-8		U	1.00	0.250
n-Propylbenzene	103-65-1		U	1.00	0.125
Naphthalene	91-20-3		U	1.00	0.200
o-Xylene	95-47-6		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
Styrene	100-42-5		U	1.00	0.125
tert-Butylbenzene	98-06-6		U	1.00	0.250
Tetrachloroethene	127-18-4		U	1.00	0.250

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-09**
Client ID: **SWMU57111610EB**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 16:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 13:11**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 13:11**
File ID: **8M366009**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	114	70	120	
4-Bromofluorobenzene	104	75	120	
Dibromofluoromethane	106	85	115	
Toluene-d8	102	85	120	

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-11**
Client ID: **SWMU57GWMW3**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 18:22**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 13:42**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 13:42**
File ID: **8M366010**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,3-Dichloropropane	142-28-9		U	1.00	0.200
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
2,2-Dichloropropane	594-20-7		U	1.00	0.250
2-Butanone	78-93-3		U	10.0	2.50
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
2-Chlorotoluene	95-49-8		U	1.00	0.125
2-Hexanone	591-78-6		U	10.0	2.50
4-Chlorotoluene	106-43-4		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3	38.5		1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500
Methylene chloride	75-09-2	0.325	J	5.00	0.250
n-Butylbenzene	104-51-8		U	1.00	0.250
n-Propylbenzene	103-65-1		U	1.00	0.125
Naphthalene	91-20-3		U	1.00	0.200
o-Xylene	95-47-6		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
Styrene	100-42-5		U	1.00	0.125
tert-Butylbenzene	98-06-6		U	1.00	0.250
Tetrachloroethene	127-18-4		U	1.00	0.250

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-11**
Client ID: **SWMU57GWMW3**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 18:22**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 13:42**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 13:42**
File ID: **8M366010**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	117	70	120	
4-Bromofluorobenzene	106	75	120	
Dibromofluoromethane	109	85	115	
Toluene-d8	101	85	120	

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-13**
Client ID: **SWMU57111610FB**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 19:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 14:14**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 14:14**
File ID: **8M366011**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,3-Dichloropropane	142-28-9		U	1.00	0.200
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
2,2-Dichloropropane	594-20-7		U	1.00	0.250
2-Butanone	78-93-3		U	10.0	2.50
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
2-Chlorotoluene	95-49-8		U	1.00	0.125
2-Hexanone	591-78-6		U	10.0	2.50
4-Chlorotoluene	106-43-4		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500
Methylene chloride	75-09-2	0.352	J	5.00	0.250
n-Butylbenzene	104-51-8		U	1.00	0.250
n-Propylbenzene	103-65-1		U	1.00	0.125
Naphthalene	91-20-3		U	1.00	0.200
o-Xylene	95-47-6		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
Styrene	100-42-5		U	1.00	0.125
tert-Butylbenzene	98-06-6		U	1.00	0.250
Tetrachloroethene	127-18-4		U	1.00	0.250

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-13**
Client ID: **SWMU57111610FB**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 19:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 14:14**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 14:14**
File ID: **8M366011**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	114	70	120	
4-Bromofluorobenzene	106	75	120	
Dibromofluoromethane	109	85	115	
Toluene-d8	101	85	120	

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-15**
Client ID: **SWMU57111610TB**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 12:08**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 12:08**
File ID: **8M366007**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,3-Dichloropropane	142-28-9		U	1.00	0.200
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
2,2-Dichloropropane	594-20-7		U	1.00	0.250
2-Butanone	78-93-3		U	10.0	2.50
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
2-Chlorotoluene	95-49-8		U	1.00	0.125
2-Hexanone	591-78-6		U	10.0	2.50
4-Chlorotoluene	106-43-4		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
m-,p-Xylene	179601-23-1		U	1.00	0.500
Methylene chloride	75-09-2	0.684	J	5.00	0.250
n-Butylbenzene	104-51-8		U	1.00	0.250
n-Propylbenzene	103-65-1		U	1.00	0.125
Naphthalene	91-20-3		U	1.00	0.200
o-Xylene	95-47-6		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
Styrene	100-42-5		U	1.00	0.125
tert-Butylbenzene	98-06-6		U	1.00	0.250
Tetrachloroethene	127-18-4		U	1.00	0.250

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-15**
Client ID: **SWMU57111610TB**
Matrix: **Water**
Workgroup Number: **WG349416**
Collect Date: **11/16/2010 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/22/2010 12:08**
Cal Date: **11/08/2010 15:03**
Run Date: **11/22/2010 12:08**
File ID: **8M366007**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	112	70	120	
4-Bromofluorobenzene	105	75	120	
Dibromofluoromethane	108	85	115	
Toluene-d8	101	85	120	

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100
RF = Calculated Response Factor	**1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Vs = Purge volume of sample (mL)	**10**
Vn = Nominal purge volume of sample (mL) (10.0 mL)	**10**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Ws = Weight of sample purged (g)	**5**
Wn = Nominal purge weight (g) (5.0 g)	**5**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

Dry weight correction:

Percent solids (PCT_S)	**50**
Cd = (Cx) (100)/PCT_S	**254.4856**

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

y = 86550/593147 = 0.1459

Step 3: Solve for x

x = (y - b)/m = [(0.1459 -(- 0.00642)]/ 0.213 = 0.7152

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.7152) = 17.88

Example Spreadsheet Calculation:

Slope from curve, m:	**0.213**
Intercept from curve, b:	**-0.00642**
Area of analyte, Ax:	**86550**
Area of Internal Standard , Ais:	**593147**
Concentration of IS, Cis	**25.00**
Response Ratio:	**0.145917**
Amount Ratio:	**0.715195**
Concentration:	**17.87988**
Units of Internal Standard:	**ug/L**

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**-0.00629**	
Value of B from plot:	**0.511**	
Value of C from plot:	**-0.0276**	
Area of unknown from quantitation report:	**293821**	
Area of IS from quantiation report:	**784848**	
Response ratio, y:	**0.374367**	
C - y:	**-0.40197**	
Root 1 - Computed amount ratio , X1:	**80.44567**	
Root 2 - Computed amount ratio , X2:	**0.794396**	use this solution
Concentration of IS, Cis:	**25.00**	
Concentration of analyte, Cx:	**19.86**	ug/L

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 110810
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 14
Method: 624 SOP: MSV10 Rev: 8
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12
Maintenance Log ID: 35304

Internal Standard: STD41932 Surrogate Standard: STD41932
CCV: STD42317 LCS: STD42321 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG347960,WG348016

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M365586	RINSE	NA	1	1		11/08/10 08:58
2	8M365587	RINSE	NA	1	1		11/08/10 09:29
3	8M365588	WG347960-01 50NG BFB STD 8260	NA	1	1	STD42302	11/08/10 09:55
4	8M365589	WG347960-02 0.3ug/L WATER STD 8260	NA	1	1	STD42317	11/08/10 10:20
5	8M365590	WG347960-03 0.4ug/L WATER STD 8260	NA	1	1	STD42317	11/08/10 10:52
6	8M365591	WG347960-04 1ug/L WATER STD 8260	NA	1	1	STD42317	11/08/10 11:23
7	8M365592	WG347960-05 2 ug/L WATER STD 8260	NA	1	1	STD42317	11/08/10 11:55
8	8M365593	WG347960-06 5 ug/L WATER STD 8260	NA	1	1	STD42317	11/08/10 12:26
9	8M365594	WG347960-07 20 ug/L WATER STD 8260	NA	1	1	STD42317	11/08/10 12:57
10	8M365595	WG347960-08 50 ug/L WATER STD 8260	NA	1	1	STD42317	11/08/10 13:29
11	8M365596	WG347960-09 100 ug/L WATER STD 8260	NA	1	1	STD42317	11/08/10 14:00
12	8M365597	WG347960-10 200 ug/L WATER STD 8260	NA	1	1	STD42317	11/08/10 14:31
13	8M365598	WG347960-11 300 ug/L WATER STD 8260	NA	1	1	STD42317	11/08/10 15:03
14	8M365599	RINSE	NA	1	1		11/08/10 15:34
15	8M365600	RINSE	NA	1	1		11/08/10 16:06
16	8M365601	WG347960-12 50ug/L ALT SOURCE	NA	1	1	STD42321	11/08/10 16:37
17	8M365602	RINSE	NA	1	1		11/08/10 17:11
18	8M365603	WG348016-01 624 QC CHECK	NA	2	1	STD42321	11/08/10 17:42
19	8M365604	WG348016-02 624 QC CHECK DUP	NA	2	1	STD42321	11/08/10 18:13
20	8M365605	WG348016-03 624 BLANK	NA	2	1		11/08/10 18:45
21	8M365606	L10110226-02 A 624-SPE2	7	2	1		11/08/10 19:16
22	8M365607	L10110226-04 A 624-SPE	7	2	1		11/08/10 19:47
23	8M365608	L10110226-06 A 624-SPE	7	2	1		11/08/10 20:19
24	8M365609	L10110206-02 A 624-SPE7	<2	2	1		11/08/10 20:50
25	8M365610	L10110224-04 A 624	<2	2	1		11/08/10 21:21
26	8M365611	L10110239-02 A 624	<2	2	1		11/08/10 21:52
27	8M365612	L10110261-01 A 624	<2	2	1		11/08/10 22:24
28	8M365613	L10110232-01 A 624	<2	2	1		11/08/10 22:55
29	8M365614	L10110232-02 A 624	<2	2	1		11/08/10 23:26
30	8M365615	L10110232-03 A 624	<2	2	1		11/08/10 23:58
31	8M365616	L10110232-04 A 624	<2	2	1		11/09/10 00:29
32	8M365617	L10110232-05 A 624	<2	2	1		11/09/10 01:00
33	8M365618	L10110232-06 A 624	<2	2	1		11/09/10 01:32
34	8M365619	L10110232-10 A 624	<2	2	1		11/09/10 02:03

Approved: November 10, 2010

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 110810
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 14
Method: 624 SOP: MSV10 Rev: 8
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12
Maintenance Log ID: 35304

Internal Standard: STD41932 Surrogate Standard: STD41932
CCV: STD42317 LCS: STD42321 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG347960,WG348016

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
35	8M365620	L10110232-11 A 624	<2	2	1		11/09/10 02:34
36	8M365621	L10110232-12 A 624	<2	2	1		11/09/10 03:05
37	8M365622	L10110232-13 A 624	<2	2	1		11/09/10 03:37
38	8M365623	L10110232-07 A 624	<2	2	1		11/09/10 04:08
39	8M365624	L10110232-08 A 624	<2	2	1		11/09/10 04:39
40	8M365625	L10110232-09 A 624	<2	2	1		11/09/10 05:11
41	8M365626	RINSE	NA	1	1		11/09/10 05:42
42	8M365627	RINSE	NA	1	1		11/09/10 06:13
43	8M365628	RINSE	NA	1	1		11/09/10 06:45

Comments

Seq.	Rerun	Dil.	Reason	Analytes
34	X	50	Over Calibration Range	cis-1,2-DCE,TCE,PCE
File ID: 8M365619				
35	X	1	Carry-over contamination	
File ID: 8M365620				
	DNR			
36	X	1	Carry-over contamination	
File ID: 8M365621				
	DNR			
39	X	10	Over Calibration Range	p-isopropyltoluene
File ID: 8M365624				

Approved: November 10, 2010

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 112210
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 14
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12

Maintenance Log ID: 35572

Internal Standard: STD42470 Surrogate Standard: STD42470
CCV: STD42435 LCS: STD42467 MS/MSD: STD42467

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG349416

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M366000	WG349415-01 50ng BFB	NA	1	1	STD42302	11/22/10 09:05
2	8M366001	WG349415-02 50ug/L CCV 8260	NA	1	1	STD42435	11/22/10 09:30
3	8M366003	WG349435-01 100ug/L APPIX/FOO CCV	NA	1	1	STD42617	11/22/10 10:03
4	8M366004	WG349416-01 VBLK1122 BLANK 8260	NA	1	1		11/22/10 10:34
5	8M366005	WG349416-02 20ug/L LCS 8260	NA	1	1	STD42467	11/22/10 11:05
6	8M366006	L10110676-03 A D1 10X 826-SPE	7	1	10		11/22/10 11:37
7	8M366007	L10110608-15 A 826-SPE	<2	1	1		11/22/10 12:08
8	8M366008	L10110608-07 A 826-SPE	<2	1	1		11/22/10 12:40
9	8M366009	L10110608-09 A 826-SPE	<2	1	1		11/22/10 13:11
10	8M366010	L10110608-11 A 826-SPE	7	1	1		11/22/10 13:42
11	8M366011	L10110608-13 A 826-SPE	<2	1	1		11/22/10 14:14
12	8M366012	L10110608-01 A 826-SPE	<2	1	1		11/22/10 14:45
13	8M366013	L10110608-03 MS A 826-SPE	<2	1	1	STD42467	11/22/10 15:17
14	8M366014	L10110608-05 MSD A 826-SPE	<2	1	1	STD42467	11/22/10 15:48
15	8M366015	L10110676-13 B D1 10X 826-SPE	7	1	10		11/22/10 16:19
16	8M366016	L10110676-15 A 826-SPE	7	1	1		11/22/10 16:51
17	8M366017	L10110676-16 A 826-SPE	7	1	1		11/22/10 17:22
18	8M366018	L10110676-17 A 826-SPE	7	1	1		11/22/10 17:53
19	8M366019	L10110676-18 A 826-SPE	7	1	1		11/22/10 18:25
20	8M366020	L10110676-19 A 826-SPE	7	1	1		11/22/10 18:56
21	8M366021	L10110676-20 A 826-SPE	7	1	1		11/22/10 19:27
22	8M366022	L10110676-21 A 826-SPE	7	1	1		11/22/10 19:59
23	8M366023	L10110676-22 A 826-SPE	7	1	1		11/22/10 20:30
24	8M366024	L10110676-23 A 826-SPE	7	1	1		11/22/10 21:01
25	8M366025	RINSE	NA	1	1		11/22/10 21:33
26	8M366026	WG349524-01 50ng BFB	NA	1	1	STD42302	11/22/10 22:42
27	8M366027	WG349524-01 50ng BFB	NA	1	1	STD42302	11/22/10 22:57
28	8M366028	WG349524-01 50ng BFB	NA	1	1	STD42302	11/22/10 23:13

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3				
File ID: 8M366003				

Approved: December 01, 2010

Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 112210
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 14
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12

Maintenance Log ID: 35572

Internal Standard: STD42470 Surrogate Standard: STD42470
CCV: STD42435 LCS: STD42467 MS/MSD: STD42467

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG349416

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
	DNR			
16	X	5	Over Calibration Range	PCE
File ID: 8M366016				
17	X	1	Carry-over contamination	
File ID: 8M366017				
	DNR			
23	X	1	Surrogate standard failure	
File ID: 8M366023				
	DNR			
24	X	1	Surrogate standard failure	
File ID: 8M366024				
	DNR			

Approved: December 01, 2010

Microbac Laboratories Inc.

Data Checklist

Date: 08-NOV-2010
Analyst: MES
Analyst: NA
Method: 8260/624
Instrument: HPMS8
Curve Workgroup: NA
Runlog ID: 37431
Analytical Workgroups: WG347960,WG348016

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
10-NOV-2010

Secondary Reviewer:
10-NOV-2010

CHECKLIST1 - Modified 03/05/2008
Generated: NOV-10-2010 15:14:48

Microbac Laboratories Inc.

Data Checklist

Date: 22-NOV-2010
Analyst: MES
Analyst: NA
Method: 8260
Instrument: HPMS8
Curve Workgroup: NA
Runlog ID: 37785
Analytical Workgroups: WG349416

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
30-NOV-2010

Secondary Reviewer:
01-DEC-2010

CHECKLIST1 - Modified 03/05/2008
Generated: DEC-01-2010 09:35:20

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B AAB#: WG349416

Login Number: L10110608

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SWMU57GWMW2	01	11/16/10							14		11/22/10	6	14	
SWMU57GW111610MS	03	11/16/10							14		11/22/10	6	14	
SWMU57GW111610MSD	05	11/16/10							14		11/22/10	6	14	
SWMU57GW111610D1	07	11/16/10							14		11/22/10	5.9	14	
SWMU57111610EB	09	11/16/10							14		11/22/10	5.9	14	
SWMU57GWMW3	11	11/16/10							14		11/22/10	5.8	14	
SWMU57111610FB	13	11/16/10							14		11/22/10	5.8	14	
SWMU57111610TB	15	11/16/10							14		11/22/10	6.5	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1853885
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L10110608
Instrument Id: HPMS8
Workgroup (AAB#): WG349416

Method: 8260
CAL ID: HPMS8-08-NOV-10
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L10110608-01	1.00	01	116	110	106	103
L10110608-03	1.00	01	112	110	105	100
L10110608-05	1.00	01	115	111	105	99.7
L10110608-07	1.00	01	113	107	108	102
L10110608-09	1.00	01	114	106	104	102
L10110608-11	1.00	01	117	109	106	101
L10110608-13	1.00	01	114	109	106	101
L10110608-15	1.00	01	112	108	105	101
WG349416-01	1.00	01	114	107	104	102
WG349416-02	1.00	01	112	108	105	101

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	120
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	75	-	120
4 - Toluene-d8	85	-	120

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1852463
Report generated: 12/01/2010 14:04

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L10110608
Work Group: WG349416
Blank File ID: 8M366004
Blank Sample ID: WG349416-01
Prep Date: 11/22/10 10:34
Instrument ID: HPMS8
Analyzed Date: 11/22/10 10:34
Method: 8260B
Analyst: MES

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG349416-02	8M366005	11/22/10 11:05	01
SWMU57111610TB	L10110608-15	8M366007	11/22/10 12:08	01
SWMU57GW111610D1	L10110608-07	8M366008	11/22/10 12:40	01
SWMU57111610EB	L10110608-09	8M366009	11/22/10 13:11	01
SWMU57GWMW3	L10110608-11	8M366010	11/22/10 13:42	01
SWMU57111610FB	L10110608-13	8M366011	11/22/10 14:14	01
SWMU57GWMW2	L10110608-01	8M366012	11/22/10 14:45	01
SWMU57GW111610MS	L10110608-03	8M366013	11/22/10 15:17	01
SWMU57GW111610MSD	L10110608-05	8M366014	11/22/10 15:48	01

Report Name: BLANK_SUMMARY
PDF File ID: 1853886
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L10110608 Prep Date:11/22/10 10:34 Sample ID:WG349416-01
Instrument ID:HPMS8 Run Date:11/22/10 10:34 Prep Method:5030B/5030C/503
File ID:8M366004 Analyst:MES Method:8260B
Workgroup (AAB#):WG349416 Matrix:Water Units:ug/L
Contract #: Cal ID: HPMS8-08-NOV-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
2-Butanone	2.50	10.0	2.50	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
2-Hexanone	2.50	10.0	2.50	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U

Report Name:BLANK
PDF ID: 1853887
01-DEC-2010 14:04

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L10110608 Prep Date: 11/22/10 10:34 Sample ID: WG349416-01
Instrument ID: HPMS8 Run Date: 11/22/10 10:34 Prep Method: 5030B/5030C/503
File ID: 8M366004 Analyst: MES Method: 8260B
Workgroup (AAB#): WG349416 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS8-08-NOV-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U
Isopropylbenzene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U
Methylene chloride	0.250	5.00	0.250	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Naphthalene	0.200	1.00	0.200	1	U
o-Xylene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
Styrene	0.125	1.00	0.125	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	114	70 - 120	PASS
4-Bromofluorobenzene	104	75 - 120	PASS
Dibromofluoromethane	107	85 - 115	PASS
Toluene-d8	102	85 - 120	PASS

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1853887
01-DEC-2010 14:04

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349416-02
Instrument ID: HPMS8 Run Time: 11:05 Prep Method: 5030B/5030C/503
File ID: 8M366005 Analyst: MES Method: 8260B
Workgroup (AAB#): WG349416 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD42467 Cal ID: HPMS8-08-NOV-10

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1,2-Tetrachloroethane	20.0	21.1	106	80 - 130	
1,1,1-Trichloroethane	20.0	23.2	116	65 - 130	
1,1,2,2-Tetrachloroethane	20.0	17.7	88.3	65 - 130	
1,1,2-Trichloroethane	20.0	19.6	98.1	75 - 125	
1,1-Dichloroethane	20.0	21.2	106	70 - 135	
1,1-Dichloroethene	20.0	22.0	110	70 - 130	
1,1-Dichloropropene	20.0	21.1	105	75 - 130	
1,2,3-Trichlorobenzene	20.0	17.6	88.1	55 - 140	
1,2,3-Trichloropropane	20.0	19.0	94.8	75 - 125	
1,2,4-Trichlorobenzene	20.0	17.5	87.5	65 - 135	
1,2,4-Trimethylbenzene	20.0	20.6	103	75 - 130	
1,2-Dibromo-3-chloropropane	20.0	19.8	99.1	50 - 130	
1,2-Dibromoethane	20.0	19.7	98.4	80 - 120	
1,2-Dichlorobenzene	20.0	18.9	94.7	70 - 120	
1,2-Dichloroethane	20.0	22.5	113	70 - 130	
1,2-Dichloropropane	20.0	19.8	99.2	75 - 125	
1,3,5-Trimethylbenzene	20.0	20.6	103	75 - 130	
1,3-Dichlorobenzene	20.0	19.5	97.4	75 - 125	
1,3-Dichloropropane	20.0	19.6	98.2	75 - 125	
1,4-Dichlorobenzene	20.0	18.7	93.7	75 - 125	
2,2-Dichloropropane	20.0	21.5	107	70 - 135	
2-Butanone	20.0	19.0	94.9	30 - 150	
2-Chloroethyl vinyl ether	20.0	18.9	94.4	45 - 160	
2-Chlorotoluene	20.0	20.6	103	75 - 125	
2-Hexanone	20.0	17.9	89.6	55 - 130	
4-Chlorotoluene	20.0	20.0	100	75 - 130	
4-Methyl-2-pentanone	20.0	17.9	89.6	60 - 135	
Acetone	20.0	20.8	104	40 - 140	
Benzene	20.0	19.2	96.0	80 - 120	
Bromobenzene	20.0	19.4	96.8	75 - 125	
Bromochloromethane	20.0	19.9	99.6	65 - 130	
Bromodichloromethane	20.0	22.6	113	75 - 120	
Bromoform	20.0	19.6	97.9	70 - 130	
Bromomethane	20.0	21.2	106	30 - 145	
Carbon disulfide	20.0	20.1	100	35 - 160	
Carbon tetrachloride	20.0	23.7	119	65 - 140	
Chlorobenzene	20.0	19.5	97.5	80 - 120	
Chlorodibromomethane	20.0	21.5	108	60 - 135	
Chloroethane	20.0	21.0	105	60 - 135	
Chloroform	20.0	21.1	105	65 - 135	
Chloromethane	20.0	22.4	112	40 - 125	

LCS - Modified 03/06/2008
PDF File ID: 1852459
Report generated: 12/01/2010 14:04

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349416-02
Instrument ID: HPMS8 Run Time: 11:05 Prep Method: 5030B/5030C/503
File ID: 8M366005 Analyst: MES Method: 8260B
Workgroup (AAB#): WG349416 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD42467 Cal ID: HPMS8-08-NOV-10

Analytes	Expected	Found	% Rec	LCS Limits	Q
cis-1,2-Dichloroethene	20.0	19.7	98.4	70 - 125	
cis-1,3-Dichloropropene	20.0	20.1	100	70 - 130	
Dibromomethane	20.0	21.3	107	75 - 125	
Dichlorodifluoromethane	20.0	22.4	112	30 - 155	
Ethylbenzene	20.0	20.3	102	75 - 125	
Hexachlorobutadiene	20.0	19.2	95.9	50 - 140	
Isopropylbenzene	20.0	18.6	93.1	75 - 125	
m-,p-Xylene	40.0	40.2	101	75 - 130	
Methylene chloride	20.0	18.2	91.2	55 - 140	
n-Butylbenzene	20.0	20.7	103	70 - 135	
n-Propylbenzene	20.0	20.5	102	70 - 130	
Naphthalene	20.0	17.7	88.4	55 - 140	
o-Xylene	20.0	19.7	98.4	80 - 120	
p-Isopropyltoluene	20.0	20.4	102	75 - 130	
sec-Butylbenzene	20.0	20.7	104	70 - 125	
Styrene	20.0	20.1	101	65 - 135	
tert-Butylbenzene	20.0	20.1	100	70 - 130	
Tetrachloroethene	20.0	20.6	103	45 - 150	
Toluene	20.0	20.2	101	75 - 120	
trans-1,2-Dichloroethene	20.0	20.9	105	60 - 140	
trans-1,3-Dichloropropene	20.0	19.2	95.9	55 - 140	
Trichloroethene	20.0	20.6	103	70 - 125	
Trichlorofluoromethane	20.0	23.6	118	60 - 145	
Vinyl acetate	20.0	13.1	65.6	10 - 190	
Vinyl chloride	20.0	23.5	117	50 - 145	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	112	70 - 120	PASS
4-Bromofluorobenzene	105	75 - 120	PASS
Dibromofluoromethane	108	85 - 115	PASS
Toluene-d8	101	85 - 120	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1852459
Report generated: 12/01/2010 14:04

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L10110608 Cal ID: HPMS8- 08-NOV-10 Worknum: WG349416

Instrument ID: HPMS8 Contract #: Prep Method: 5030B/5030C/

Parent ID: L10110608-01 File ID: 8M366012 Dil: 1 Method: 5035A

Sample ID: L10110608-03 MS File ID: 8M366013 Dil: 1 Matrix: 8260B

Sample ID: L10110608-05 MSD File ID: 8M366014 Dil: 1 Units: Water

ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
1,1,1,2-Tetrachloroethane	U	20.0	20.7	104	20.0	21.1	105	1.82	80 - 130	30	
1,1,1-Trichloroethane	U	20.0	23.3	117	20.0	23.0	115	1.33	65 - 130	30	
1,1,2,2-Tetrachloroethane	U	20.0	17.6	88	20.0	18.3	91.7	4.13	65 - 130	30	
1,1,2-Trichloroethane	U	20.0	19.1	95.5	20.0	19.3	96.4	0.868	75 - 125	30	
1,1-Dichloroethane	U	20.0	21.0	105	20.0	21.2	106	0.961	70 - 135	30	
1,1-Dichloroethene	U	20.0	20.8	104	20.0	21.4	107	2.92	70 - 130	30	
1,1-Dichloropropene	U	20.0	20.6	103	20.0	20.6	103	0.129	75 - 130	30	
1,2,3-Trichlorobenzene	U	20.0	17.8	89.1	20.0	18.4	91.9	3.09	55 - 140	30	
1,2,3-Trichloropropane	U	20.0	19.4	97	20.0	19.5	97.4	0.372	75 - 125	30	
1,2,4-Trichlorobenzene	U	20.0	17.6	87.8	20.0	18.1	90.7	3.30	65 - 135	30	
1,2,4-Trimethylbenzene	U	20.0	20.3	101	20.0	20.8	104	2.53	75 - 130	30	
1,2-Dibromo-3-chloropropane	U	20.0	20.0	99.9	20.0	20.2	101	1.18	50 - 130	30	
1,2-Dibromoethane	U	20.0	19.5	97.4	20.0	19.6	98.2	0.874	80 - 120	30	
1,2-Dichlorobenzene	U	20.0	19.2	96.1	20.0	19.6	98.1	2.07	70 - 120	30	
1,2-Dichloroethane	U	20.0	23.2	116	20.0	23.5	118	1.17	70 - 130	30	
1,2-Dichloropropane	U	20.0	20.0	100	20.0	20.3	101	1.29	75 - 125	30	
1,3,5-Trimethylbenzene	U	20.0	20.5	103	20.0	20.9	104	1.75	75 - 130	30	
1,3-Dichlorobenzene	U	20.0	19.0	95	20.0	19.8	98.9	3.99	75 - 125	30	
1,3-Dichloropropane	U	20.0	19.0	95.2	20.0	19.8	99.1	3.98	75 - 125	30	
1,4-Dichlorobenzene	U	20.0	18.3	91.6	20.0	18.5	92.3	0.799	75 - 125	30	
2,2-Dichloropropane	U	20.0	20.6	103	20.0	20.5	103	0.146	70 - 135	30	
2-Butanone	U	20.0	18.2	91	20.0	18.6	93	2.14	30 - 150	30	
2-Chloroethyl vinyl ether	U	20.0	0	0	20.0	0	0	NA	58 - 160	20	*#
2-Chlorotoluene	U	20.0	20.1	101	20.0	21.8	109	8.04	75 - 125	30	
2-Hexanone	U	20.0	16.8	83.8	20.0	18.1	90.7	7.93	55 - 130	30	
4-Chlorotoluene	U	20.0	19.5	97.7	20.0	19.1	95.7	2.07	75 - 130	30	
4-Methyl-2-pentanone	U	20.0	16.7	83.4	20.0	17.4	86.9	4.15	60 - 135	30	
Acetone	U	20.0	20.8	104	20.0	21.0	105	0.670	40 - 140	30	
Benzene	U	20.0	19.0	95.2	20.0	19.3	96.3	1.15	80 - 120	30	
Bromobenzene	U	20.0	19.2	96.2	20.0	19.5	97.3	1.09	75 - 125	30	
Bromochloromethane	U	20.0	20.3	102	20.0	20.7	103	1.79	65 - 130	30	
Bromodichloromethane	U	20.0	23.1	116	20.0	23.4	117	1.19	75 - 120	30	
Bromoform	U	20.0	19.9	99.6	20.0	20.1	100	0.721	70 - 130	30	
Bromomethane	U	20.0	21.2	106	20.0	23.0	115	7.85	30 - 145	30	
Carbon disulfide	U	20.0	14.5	72.7	20.0	14.5	72.6	0.141	35 - 160	30	
Carbon tetrachloride	U	20.0	23.6	118	20.0	23.4	117	0.853	65 - 140	30	
Chlorobenzene	U	20.0	19.1	95.7	20.0	19.4	97	1.30	80 - 120	30	
Chlorodibromomethane	U	20.0	21.1	105	20.0	21.2	106	0.667	60 - 135	30	
Chloroethane	U	20.0	20.2	101	20.0	20.0	100	0.784	60 - 135	30	
Chloroform	U	20.0	21.7	108	20.0	21.8	109	0.598	65 - 135	30	
Chloromethane	U	20.0	21.6	108	20.0	22.3	112	3.45	40 - 125	30	

MS_MSD - Modified 03/06/2008

PDF File ID: 1852460

Report generated 12/01/2010 14:04

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L10110608 Cal ID: HPMS8 08-NOV-10 Worknum: WG349416

Instrument ID: HPMS8 Contract #: Prep Method: 5030B/5030C/

Parent ID: L10110608-01 File ID: 8M366012 Dil: 1 Method: 5035A

Sample ID: L10110608-03 MS File ID: 8M366013 Dil: 1 Matrix: 8260B

Sample ID: L10110608-05 MSD File ID: 8M366014 Dil: 1 Units: Water

ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
cis-1,2-Dichloroethene	U	20.0	20.0	100	20.0	20.3	102	1.58	70 - 125	30	
cis-1,3-Dichloropropene	U	20.0	20.0	100	20.0	20.4	102	2.01	70 - 130	30	
Dibromomethane	U	20.0	21.4	107	20.0	21.8	109	1.90	75 - 125	30	
Dichlorodifluoromethane	U	20.0	20.5	102	20.0	20.5	102	0.105	30 - 155	30	
Ethylbenzene	0.311	20.0	19.8	97.5	20.0	20.0	98.6	1.08	75 - 125	30	
Hexachlorobutadiene	U	20.0	18.5	92.5	20.0	18.5	92.7	0.175	50 - 140	30	
Isopropylbenzene	U	20.0	18.2	91	20.0	18.3	91.3	0.342	75 - 125	30	
m-,p-Xylene	U	40.0	39.1	97.8	40.0	39.9	99.8	1.97	75 - 130	30	
Methylene chloride	0.419	20.0	18.2	88.9	20.0	18.9	92.6	3.97	55 - 140	30	
n-Butylbenzene	U	20.0	19.7	98.7	20.0	20.3	101	2.74	70 - 135	30	
n-Propylbenzene	U	20.0	19.7	98.5	20.0	20.0	99.9	1.37	70 - 130	30	
Naphthalene	U	20.0	17.6	87.9	20.0	18.1	90.4	2.80	55 - 140	30	
o-Xylene	0.562	20.0	19.4	94.3	20.0	19.9	96.6	2.33	80 - 120	30	
p-Isopropyltoluene	U	20.0	19.8	99	20.0	20.3	102	2.57	75 - 130	30	
sec-Butylbenzene	U	20.0	20.0	100	20.0	20.3	101	1.50	70 - 125	30	
Styrene	U	20.0	19.6	98.2	20.0	20.0	99.9	1.72	65 - 135	30	
tert-Butylbenzene	U	20.0	19.8	99	20.0	19.8	99	0.0320	70 - 130	30	
Tetrachloroethene	U	20.0	19.0	95	20.0	19.0	95.1	0.114	45 - 150	30	
Toluene	U	20.0	19.5	97.5	20.0	19.6	98.1	0.569	75 - 120	30	
trans-1,2-Dichloroethene	U	20.0	20.4	102	20.0	20.9	105	2.48	60 - 140	30	
trans-1,3-Dichloropropene	U	20.0	18.6	93	20.0	18.8	94.1	1.15	55 - 140	30	
Trichloroethene	U	20.0	20.3	101	20.0	20.0	100	1.13	70 - 125	30	
Trichlorofluoromethane	U	20.0	22.7	114	20.0	22.8	114	0.529	60 - 145	30	
Vinyl acetate	U	20.0	12.5	62.7	20.0	12.3	61.3	2.16	10 - 190	20	
Vinyl chloride	U	20.0	22.4	112	20.0	22.9	114	2.07	50 - 145	30	

* FAILS %REC LIMIT

\# FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

PDF File ID: 1852460

Report generated 12/01/2010 14:04

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L10110608
Instrument: HPMS8
Analyst: MES
Workgroup: WG347960

Tune ID: WG347960-01
Run Date: 11/08/2010
Run Time: 09:55
File ID: 8M365588
Cal ID: HPMS8 -

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	31.2	13201	PASS
75.0	95.0	30.0	60.0	56.5	23870	PASS
95.0	95.0	100	100	100	42282	PASS
96.0	95.0	5.00	9.00	7.01	2964	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	84.8	35864	PASS
175	174	5.00	9.00	6.80	2438	PASS
176	174	95.0	101	95.3	34181	PASS
177	176	5.00	9.00	6.48	2214	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG347960-02	STD	01	11/08/2010 10:20	
WG347960-03	STD	01	11/08/2010 10:52	
WG347960-04	STD	01	11/08/2010 11:23	
WG347960-05	STD	01	11/08/2010 11:55	
WG347960-06	STD	01	11/08/2010 12:26	
WG347960-07	STD	01	11/08/2010 12:57	
WG347960-08	STD-CCV	01	11/08/2010 13:29	
WG347960-09	STD	01	11/08/2010 14:00	
WG347960-10	STD	01	11/08/2010 14:31	
WG347960-11	STD	01	11/08/2010 15:03	
WG347960-12	SSCV	01	11/08/2010 16:37	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1853889
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L10110608
Instrument: HPMS8
Analyst: MES
Workgroup: WG349415

Tune ID: WG349415-01
Run Date: 11/22/2010
Run Time: 09:05
File ID: 8M366000
Cal ID: HPMS8-08-NOV-10

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	34.4	9651	PASS
75.0	95.0	30.0	60.0	59.0	16546	PASS
95.0	95.0	100	100	100	28045	PASS
96.0	95.0	5.00	9.00	6.84	1917	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	82.8	23226	PASS
175	174	5.00	9.00	7.79	1809	PASS
176	174	95.0	101	98.5	22866	PASS
177	176	5.00	9.00	7.21	1648	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG349415-02	CCV	01	11/22/2010 09:30	
WG349416-01	BLANK	01	11/22/2010 10:34	
WG349416-02	LCS	01	11/22/2010 11:05	
L10110608-15	SWMU57111610TB	01	11/22/2010 12:08	
L10110608-07	SWMU57GW111610D1	01	11/22/2010 12:40	
L10110608-09	SWMU57111610EB	01	11/22/2010 13:11	
L10110608-11	SWMU57GWMW3	01	11/22/2010 13:42	
L10110608-13	SWMU57111610FB	01	11/22/2010 14:14	
L10110608-01	SWMU57GWMW2	01	11/22/2010 14:45	
WG349416-03	REF	01	11/22/2010 14:45	
L10110608-03	SWMU57GW111610MS	01	11/22/2010 15:17	
WG349416-04	MS	01	11/22/2010 15:17	
L10110608-05	SWMU57GW111610MSD	01	11/22/2010 15:48	
WG349416-05	MSD	01	11/22/2010 15:48	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1853889
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L10110608 **Instrument ID:** HPMS8
Analytical Method: 8260B **Initial Calibration Date:** 08-NOV-10 15:03
ICAL Workgroup: WG347960 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
1,1-Dichloroethene	CCC	0.5781	11.1		
1,2-Dichloropropane	CCC	0.3100	3.03		
Chloroform	CCC	0.5798	3.77		
Ethylbenzene	CCC	0.5324	4.04		
Toluene	CCC	1.382	4.81		
Vinyl Chloride	CCC	0.3784	17.9	1.00000	
1,1,2,2-Tetrachloroethane	SPCC	0.5098	8.64		
1,1-Dichloroethane	SPCC	0.6083	3.59		
Bromoform	SPCC	0.2633	3.90		
Chlorobenzene	SPCC	1.031	6.43		
Chloromethane	SPCC	0.6197	8.17		
1,1,1,2-Tetrachloroethane		0.4144	7.39		
1,1,1-Trichloroethane		0.5446	6.50		
1,1,2-Trichloroethane		0.2565	5.64		
1,1-Dichloropropene		0.4111	8.65		
1,2,3-Trichlorobenzene		0.9442	12.2		
1,2,3-Trichloropropane		0.1741	8.45		
1,2,4-Trichlorobenzene		1.082	8.67		
1,2,4-Trimethylbenzene		2.615	7.20		
1,2-Dibromo-3-Chloropropane		0.1238	4.00		
1,2-Dibromoethane		0.2911	3.12		
1,2-Dichlorobenzene		1.439	6.87		
1,2-Dichloroethane		0.5484	3.13		
1,3,5-Trimethylbenzene		2.476	4.54		
1,3-Dichlorobenzene		1.526	5.42		
1,3-Dichloropropane		0.4773	4.53		
1,4-Dichlorobenzene		1.601	8.28		
2,2-Dichloropropane		0.5641	5.04		
2-Butanone		0.1483	4.58		
2-Chloroethyl Vinyl Ether		0.1601	4.79		
2-Chlorotoluene		2.097	5.45		
2-Hexanone		0.1052	3.28		
4-Chlorotoluene		2.156	5.66		
4-Methyl-2-Pentanone		0.09013	3.16		
Acetone		0.1000	7.03		
Benzene		1.081	4.84		
Bromobenzene		0.7982	8.04		
Bromochloromethane		0.1919	5.15		
Bromodichloromethane		0.4321	3.59		
Bromomethane		0.1519	18.1	0.99900	
Carbon Disulfide		0.7913	4.19		
Carbon Tetrachloride		0.5135	13.0		
Chloroethane		0.2207	5.15		
Dibromochloromethane		0.3992	2.96		
Dibromomethane		0.1611	8.29		

INT_CAL - Modified 03/06/2008
PDF File ID: 1853888
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L10110608 **Instrument ID:** HPMS8
Analytical Method: 8260B **Initial Calibration Date:** 08-NOV-10 15:03
ICAL Workgroup: WG347960 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Dichlorodifluoromethane		0.4263	7.86		
Hexachlorobutadiene		0.3693	10.8		
Isopropylbenzene		1.689	5.97		
Methylene Chloride		0.3006	12.9		
Naphthalene		2.047	11.6		
Styrene		1.100	3.24		
Tetrachloroethene		0.3147	10.4		
Trichloroethene		0.3107	4.70		
Trichlorofluoromethane		0.5601	27.5	0.99900	
Vinyl Acetate		0.6259	5.23		
cis-1,2-Dichloroethene		0.2941	4.82		
cis-1,3-Dichloropropene		0.4717	5.79		
m-,p-Xylene		0.6605	4.76		
n-Butylbenzene		2.145	5.23		
n-Propylbenzene		3.244	6.32		
o-Xylene		0.6765	3.33		
p-Isopropyltoluene		2.479	6.98		
sec-Butylbenzene		2.764	6.22		
tert-Butylbenzene		0.4842	5.75		
trans-1,2-Dichloroethene		0.5330	3.62		
trans-1,3-Dichloropropene		0.5699	5.60		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

INT_CAL - Modified 03/06/2008
PDF File ID: 1853888
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110608
Analytical Method: 8260B
Instrument ID: HPMS8
Initial Calibration Date: 08-NOV-10 15:03
Column ID: F

Analyte	WG347960-02			WG347960-03			WG347960-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	0.400	4878.00000	0.4267	1.00	16769.0000	0.5856
1,2-Dichloropropane	NA	NA	NA	0.400	3399.00000	0.2973	1.00	8639.00000	0.3017
Chloroform	0.300	5559.00000	0.6231	0.400	6404.00000	0.5602	1.00	16416.0000	0.5733
Ethylbenzene	NA	NA	NA	0.400	4781.00000	0.5265	1.00	11519.0000	0.5041
Toluene	NA	NA	NA	0.400	11735.0000	1.292	1.00	32231.0000	1.410
Vinyl Chloride	NA	NA	NA	0.400	2486.00000	0.2175	1.00	10366.0000	0.3620
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	3114.00000	0.5682	1.00	6724.00000	0.4933
1,1-Dichloroethane	NA	NA	NA	0.400	6699.00000	0.5860	1.00	16589.0000	0.5794
Bromoform	NA	NA	NA	NA	NA	NA	1.00	5541.00000	0.2425
Chlorobenzene	NA	NA	NA	0.400	10402.0000	1.146	1.00	23058.0000	1.009
Chloromethane	NA	NA	NA	NA	NA	NA	1.00	20378.0000	0.7117
1,1,1,2-Tetrachloroethane	NA	NA	NA	0.400	3122.00000	0.3438	1.00	9307.00000	0.4073
1,1,1-Trichloroethane	NA	NA	NA	0.400	5413.00000	0.4735	1.00	14892.0000	0.5201
1,1,2-Trichloroethane	NA	NA	NA	0.400	2463.00000	0.2713	1.00	5216.00000	0.2283
1,1-Dichloropropene	NA	NA	NA	0.400	3907.00000	0.3418	1.00	11451.0000	0.3999
1,2,3-Trichlorobenzene	0.300	3297.00000	0.7943	0.400	6527.00000	1.191	1.00	13089.0000	0.9603
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	1.00	2180.00000	0.1599
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	6792.00000	1.239	1.00	13168.0000	0.9661
1,2,4-Trimethylbenzene	NA	NA	NA	0.400	15893.0000	2.900	1.00	33698.0000	2.472
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	0.400	2634.00000	0.2901	1.00	6290.00000	0.2753
1,2-Dichlorobenzene	0.300	5907.00000	1.423	0.400	8694.00000	1.586	1.00	19408.0000	1.424
1,2-Dichloroethane	NA	NA	NA	0.400	6045.00000	0.5288	1.00	15981.0000	0.5581
1,3,5-Trimethylbenzene	NA	NA	NA	0.400	13225.0000	2.413	1.00	33039.0000	2.424
1,3-Dichlorobenzene	NA	NA	NA	0.400	8872.00000	1.619	1.00	20848.0000	1.530
1,3-Dichloropropane	NA	NA	NA	0.400	4089.00000	0.4503	1.00	10615.0000	0.4645
1,4-Dichlorobenzene	0.300	7278.00000	1.754	0.400	9984.00000	1.822	1.00	21542.0000	1.581
2,2-Dichloropropane	NA	NA	NA	0.400	5907.00000	0.5167	1.00	15571.0000	0.5438
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroethyl Vinyl Ether	NA	NA	NA	NA	NA	NA	1.00	4373.00000	0.1527
2-Chlorotoluene	NA	NA	NA	0.400	11677.0000	2.131	1.00	28680.0000	2.104
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	0.400	12729.0000	2.323	1.00	27963.0000	2.052
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	12709.0000	1.112	1.00	33228.0000	1.160
Bromobenzene	0.300	2836.00000	0.6833	0.400	4853.00000	0.8855	1.00	11042.0000	0.8101
Bromochloromethane	NA	NA	NA	0.400	1990.00000	0.1741	1.00	5915.00000	0.2066
Bromodichloromethane	NA	NA	NA	0.400	5046.00000	0.4414	1.00	11674.0000	0.4077
Bromomethane	NA	NA	NA	NA	NA	NA	1.00	3031.00000	0.1059
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	21895.0000	0.7647
Carbon Tetrachloride	NA	NA	NA	0.400	4167.00000	0.3645	1.00	14559.0000	0.5085

INT_CAL - Modified 03/06/2008
PDF File ID: 1853888
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110608 **Instrument ID:** HPMS8

Analytical Method: 8260B **Initial Calibration Date:** 08-NOV-10 15:03

Column ID: F

Analyte	WG347960-05			WG347960-06			WG347960-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	2.00	31474.0000	0.5606	5.00	87561.0000	0.6153	20.0	356995.000	0.6268
1,2-Dichloropropane	2.00	16837.0000	0.2999	5.00	44848.0000	0.3151	20.0	182665.000	0.3207
Chloroform	2.00	32385.0000	0.5769	5.00	84945.0000	0.5969	20.0	337760.000	0.5930
Ethylbenzene	2.00	23120.0000	0.5162	5.00	65058.0000	0.5683	20.0	255709.000	0.5528
Toluene	2.00	63240.0000	1.412	5.00	167120.000	1.460	20.0	665128.000	1.438
Vinyl Chloride	2.00	23807.0000	0.4241	5.00	58901.0000	0.4139	20.0	233594.000	0.4101
1,1,2,2-Tetrachloroethane	2.00	15755.0000	0.5728	5.00	36858.0000	0.5383	20.0	138592.000	0.4945
1,1-Dichloroethane	2.00	33070.0000	0.5891	5.00	90018.0000	0.6325	20.0	361079.000	0.6340
Bromoform	2.00	12100.0000	0.2702	5.00	29758.0000	0.2599	20.0	122449.000	0.2647
Chlorobenzene	2.00	47962.0000	1.071	5.00	122427.000	1.069	20.0	481095.000	1.040
Chloromethane	2.00	36042.0000	0.6420	5.00	90516.0000	0.6360	20.0	353341.000	0.6204
1,1,1,2-Tetrachloroethane	2.00	19469.0000	0.4347	5.00	49792.0000	0.4349	20.0	200224.000	0.4328
1,1,1-Trichloroethane	2.00	30269.0000	0.5392	5.00	82295.0000	0.5783	20.0	329261.000	0.5781
1,1,2-Trichloroethane	2.00	12304.0000	0.2747	5.00	29807.0000	0.2604	20.0	120082.000	0.2596
1,1-Dichloropropene	2.00	21287.0000	0.3792	5.00	62969.0000	0.4425	20.0	252167.000	0.4427
1,2,3-Trichlorobenzene	2.00	27915.0000	1.015	5.00	67714.0000	0.9889	20.0	257354.000	0.9183
1,2,3-Trichloropropane	2.00	5649.00000	0.2054	5.00	11944.0000	0.1744	20.0	48957.0000	0.1747
1,2,4-Trichlorobenzene	2.00	32263.0000	1.173	5.00	77470.0000	1.131	20.0	301012.000	1.074
1,2,4-Trimethylbenzene	2.00	75372.0000	2.741	5.00	186635.000	2.726	20.0	757246.000	2.702
1,2-Dibromo-3-Chloropropane	2.00	3608.00000	0.1312	5.00	8808.00000	0.1286	20.0	33614.0000	0.1199
1,2-Dibromoethane	2.00	13547.0000	0.3025	5.00	34321.0000	0.2998	20.0	137291.000	0.2968
1,2-Dichlorobenzene	2.00	42833.0000	1.557	5.00	103382.000	1.510	20.0	400327.000	1.429
1,2-Dichloroethane	2.00	30822.0000	0.5490	5.00	81721.0000	0.5742	20.0	320563.000	0.5628
1,3,5-Trimethylbenzene	2.00	70170.0000	2.551	5.00	178705.000	2.610	20.0	728270.000	2.599
1,3-Dichlorobenzene	2.00	44143.0000	1.605	5.00	108754.000	1.588	20.0	432383.000	1.543
1,3-Dichloropropane	2.00	22945.0000	0.5123	5.00	57299.0000	0.5005	20.0	226254.000	0.4891
1,4-Dichlorobenzene	2.00	45814.0000	1.666	5.00	110759.000	1.618	20.0	441867.000	1.577
2,2-Dichloropropane	2.00	30477.0000	0.5429	5.00	85045.0000	0.5976	20.0	340319.000	0.5975
2-Butanone	NA	NA	NA	5.00	22562.0000	0.1585	20.0	85363.0000	0.1499
2-Chloroethyl Vinyl Ether	2.00	8457.00000	0.1506	5.00	22532.0000	0.1583	20.0	88117.0000	0.1547
2-Chlorotoluene	2.00	58745.0000	2.136	5.00	152586.000	2.228	20.0	614780.000	2.194
2-Hexanone	NA	NA	NA	5.00	12258.0000	0.1071	20.0	49387.0000	0.1068
4-Chlorotoluene	2.00	62957.0000	2.289	5.00	154766.000	2.260	20.0	604129.000	2.156
4-Methyl-2-Pentanone	NA	NA	NA	5.00	12378.0000	0.08700	20.0	52692.0000	0.09250
Acetone	NA	NA	NA	5.00	15920.0000	0.1119	20.0	58043.0000	0.1019
Benzene	2.00	59967.0000	1.068	5.00	158505.000	1.114	20.0	627096.000	1.101
Bromobenzene	2.00	24311.0000	0.8839	5.00	55549.0000	0.8112	20.0	227924.000	0.8133
Bromochloromethane	2.00	10691.0000	0.1904	5.00	28778.0000	0.2022	20.0	110931.000	0.1948
Bromodichloromethane	2.00	23203.0000	0.4133	5.00	64248.0000	0.4515	20.0	253506.000	0.4451
Bromomethane	2.00	7410.00000	0.1320	5.00	20021.0000	0.1407	20.0	88349.0000	0.1551
Carbon Disulfide	2.00	47575.0000	0.8474	5.00	115736.000	0.8133	20.0	458984.000	0.8058
Carbon Tetrachloride	2.00	27439.0000	0.4888	5.00	81669.0000	0.5739	20.0	322280.000	0.5658

INT_CAL - Modified 03/06/2008
PDF File ID: 1853888
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110608 **Instrument ID:** HPMS8

Analytical Method: 8260B **Initial Calibration Date:** 08-NOV-10 15:03

Column ID: F

Analyte	WG347960-08			WG347960-09			WG347960-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	887635.000	0.6114	100	1786971.00	0.5994	200	3447188.00	0.5988
1,2-Dichloropropane	50.0	467039.000	0.3217	100	927034.000	0.3110	200	1800247.00	0.3127
Chloroform	50.0	842251.000	0.5802	100	1668709.00	0.5597	200	3192666.00	0.5546
Ethylbenzene	50.0	643425.000	0.5457	100	1269464.00	0.5294	200	2442542.00	0.5165
Toluene	50.0	1666862.00	1.414	100	3235309.00	1.349	200	6062872.00	1.282
Vinyl Chloride	50.0	595224.000	0.4100	100	1179386.00	0.3956	200	2269955.00	0.3943
1,1,2,2-Tetrachloroethane	50.0	340498.000	0.4721	100	718414.000	0.4787	200	1325289.00	0.4601
1,1-Dichloroethane	50.0	908473.000	0.6258	100	1800374.00	0.6039	200	3545301.00	0.6158
Bromoform	50.0	315291.000	0.2674	100	657816.000	0.2743	200	1249300.00	0.2642
Chlorobenzene	50.0	1193604.00	1.012	100	2341167.00	0.9763	200	4386379.00	0.9276
Chloromethane	50.0	844885.000	0.5820	100	1669964.00	0.5602	200	3370634.00	0.5855
1,1,1,2-Tetrachloroethane	50.0	508053.000	0.4309	100	1011742.00	0.4219	200	1932280.00	0.4086
1,1,1-Trichloroethane	50.0	831577.000	0.5728	100	1636667.00	0.5490	200	3141897.00	0.5457
1,1,2-Trichloroethane	50.0	301520.000	0.2557	100	610459.000	0.2546	200	1168937.00	0.2472
1,1-Dichloropropene	50.0	631514.000	0.4350	100	1270261.00	0.4261	200	2428411.00	0.4218
1,2,3-Trichlorobenzene	50.0	649609.000	0.9006	100	1322336.00	0.8811	200	2444666.00	0.8486
1,2,3-Trichloropropane	50.0	121878.000	0.1690	100	253451.000	0.1689	200	478673.000	0.1662
1,2,4-Trichlorobenzene	50.0	765200.000	1.061	100	1532370.00	1.021	200	2851046.00	0.9897
1,2,4-Trimethylbenzene	50.0	1877717.00	2.603	100	3666955.00	2.443	200	6710165.00	2.329
1,2-Dibromo-3-Chloropropane	50.0	88555.0000	0.1228	100	182662.000	0.1217	200	342300.000	0.1188
1,2-Dibromoethane	50.0	341709.000	0.2898	100	701943.000	0.2927	200	1333536.00	0.2820
1,2-Dichlorobenzene	50.0	1010843.00	1.402	100	1998220.00	1.331	200	3701249.00	1.285
1,2-Dichloroethane	50.0	801667.000	0.5522	100	1601454.00	0.5372	200	3020111.00	0.5246
1,3,5-Trimethylbenzene	50.0	1823639.00	2.528	100	3579554.00	2.385	200	6617274.00	2.297
1,3-Dichlorobenzene	50.0	1086303.00	1.506	100	2145781.00	1.430	200	3996573.00	1.387
1,3-Dichloropropane	50.0	556287.000	0.4718	100	1136008.00	0.4737	200	2157834.00	0.4563
1,4-Dichlorobenzene	50.0	1107649.00	1.536	100	2180134.00	1.453	200	4059342.00	1.409
2,2-Dichloropropane	50.0	842569.000	0.5804	100	1702755.00	0.5712	200	3238768.00	0.5626
2-Butanone	50.0	211967.000	0.1460	100	454384.000	0.1524	200	804801.000	0.1398
2-Chloroethyl Vinyl Ether	50.0	242194.000	0.1668	100	502131.000	0.1684	200	984280.000	0.1710
2-Chlorotoluene	50.0	1538858.00	2.134	100	2949849.00	1.966	200	5439003.00	1.888
2-Hexanone	50.0	120624.000	0.1023	100	261050.000	0.1089	200	471307.000	0.09970
4-Chlorotoluene	50.0	1530084.00	2.121	100	3082673.00	2.054	200	5752189.00	1.997
4-Methyl-2-Pentanone	50.0	131218.000	0.09040	100	279466.000	0.09370	200	499217.000	0.08670
Acetone	50.0	144816.000	0.09980	100	298941.000	0.1003	200	547066.000	0.09500
Benzene	50.0	1553357.00	1.070	100	3048128.00	1.022	200	5752289.00	0.9991
Bromobenzene	50.0	570347.000	0.7907	100	1135154.00	0.7564	200	2157964.00	0.7491
Bromochloromethane	50.0	278133.000	0.1916	100	559206.000	0.1876	200	1082073.00	0.1880
Bromodichloromethane	50.0	640025.000	0.4409	100	1275910.00	0.4280	200	2468667.00	0.4288
Bromomethane	50.0	249094.000	0.1716	100	523034.000	0.1754	200	1050536.00	0.1825
Carbon Disulfide	50.0	1145024.00	0.7887	100	2266829.00	0.7604	200	4367551.00	0.7586
Carbon Tetrachloride	50.0	806897.000	0.5558	100	1566151.00	0.5253	200	3025935.00	0.5256

INT_CAL - Modified 03/06/2008
PDF File ID: 1853888
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110608 **Instrument ID:** HPMS8

Analytical Method: 8260B **Initial Calibration Date:** 08-NOV-10 15:03

Column ID: F

Analyte	WG347960-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1,2-Tetrachloroethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA
2-Butanone	300	1294600.00	0.1429
2-Chloroethyl Vinyl Ether	300	1435072.00	0.1584
2-Chlorotoluene	NA	NA	NA
2-Hexanone	300	772794.000	0.1062
4-Chlorotoluene	NA	NA	NA
4-Methyl-2-Pentanone	300	820018.000	0.09050
Acetone	300	826026.000	0.09120
Benzene	NA	NA	NA
Bromobenzene	NA	NA	NA
Bromochloromethane	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA

INT_CAL - Modified 03/06/2008
PDF File ID: 1853888
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110608 **Instrument ID:** HPMS8

Analytical Method: 8260B **Initial Calibration Date:** 08-NOV-10 15:03

Column ID: F

Analyte	WG347960-02			WG347960-03			WG347960-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	5672.00000	0.1981
Dibromochloromethane	NA	NA	NA	0.400	3529.00000	0.3887	1.00	8574.00000	0.3752
Dibromomethane	NA	NA	NA	0.400	1492.00000	0.1305	1.00	4517.00000	0.1578
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	1.00	10199.0000	0.3562
Hexachlorobutadiene	NA	NA	NA	0.400	2392.00000	0.4364	1.00	3962.00000	0.2907
Isopropylbenzene	NA	NA	NA	0.400	14110.0000	1.554	1.00	37434.0000	1.638
Methylene Chloride	NA	NA	NA	NA	NA	NA	1.00	10847.0000	0.3788
Naphthalene	NA	NA	NA	0.400	12845.0000	2.344	1.00	26603.0000	1.952
Styrene	NA	NA	NA	0.400	9844.00000	1.084	1.00	24129.0000	1.056
Tetrachloroethene	NA	NA	NA	0.400	2225.00000	0.2450	1.00	7580.00000	0.3317
Trichloroethene	NA	NA	NA	0.400	3337.00000	0.2919	1.00	8336.00000	0.2911
Trichlorofluoromethane	NA	NA	NA	0.400	2246.00000	0.1965	1.00	14473.0000	0.5055
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	3008.00000	0.2631	1.00	8663.00000	0.3025
cis-1,3-Dichloropropene	NA	NA	NA	0.400	5081.00000	0.4445	1.00	12009.0000	0.4194
m-,p-Xylene	NA	NA	NA	0.800	11456.0000	0.6308	2.00	30953.0000	0.6773
n-Butylbenzene	NA	NA	NA	0.400	11090.0000	2.024	1.00	28516.0000	2.092
n-Propylbenzene	NA	NA	NA	0.400	17300.0000	3.157	1.00	45034.0000	3.304
o-Xylene	NA	NA	NA	0.400	6431.00000	0.7083	1.00	15712.0000	0.6876
p-Isopropyltoluene	NA	NA	NA	0.400	12382.0000	2.259	1.00	31892.0000	2.340
sec-Butylbenzene	NA	NA	NA	0.400	13652.0000	2.491	1.00	37513.0000	2.752
tert-Butylbenzene	NA	NA	NA	0.400	2485.00000	0.4534	1.00	6268.00000	0.4599
trans-1,2-Dichloroethene	NA	NA	NA	0.400	5656.00000	0.4948	1.00	15021.0000	0.5246
trans-1,3-Dichloropropene	NA	NA	NA	0.400	4583.00000	0.5047	1.00	12463.0000	0.5454

INT_CAL - Modified 03/06/2008
PDF File ID: 1853888
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110608 **Instrument ID:** HPMS8

Analytical Method: 8260B **Initial Calibration Date:** 08-NOV-10 15:03

Column ID: F

Analyte	WG347960-05			WG347960-06			WG347960-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	2.00	12401.0000	0.2209	5.00	33228.0000	0.2335	20.0	129193.000	0.2268
Dibromochloromethane	2.00	18188.0000	0.4061	5.00	46099.0000	0.4027	20.0	187710.000	0.4058
Dibromomethane	2.00	9383.00000	0.1671	5.00	24387.0000	0.1714	20.0	98044.0000	0.1721
Dichlorodifluoromethane	2.00	24797.0000	0.4417	5.00	64743.0000	0.4549	20.0	254427.000	0.4467
Hexachlorobutadiene	2.00	9771.00000	0.3553	5.00	25848.0000	0.3775	20.0	104759.000	0.3738
Isopropylbenzene	2.00	75337.0000	1.682	5.00	208139.000	1.818	20.0	837262.000	1.810
Methylene Chloride	2.00	17855.0000	0.3180	5.00	42928.0000	0.3016	20.0	164784.000	0.2893
Naphthalene	2.00	65865.0000	2.395	5.00	147824.000	2.159	20.0	568239.000	2.028
Styrene	2.00	49835.0000	1.113	5.00	130600.000	1.141	20.0	526409.000	1.138
Tetrachloroethene	2.00	13140.0000	0.2934	5.00	40333.0000	0.3523	20.0	153834.000	0.3325
Trichloroethene	2.00	17524.0000	0.3121	5.00	47350.0000	0.3327	20.0	183598.000	0.3223
Trichlorofluoromethane	2.00	34902.0000	0.6217	5.00	92397.0000	0.6493	20.0	370544.000	0.6506
Vinyl Acetate	NA	NA	NA	5.00	91430.0000	0.6425	20.0	370591.000	0.6507
cis-1,2-Dichloroethene	2.00	16109.0000	0.2869	5.00	43274.0000	0.3041	20.0	174619.000	0.3066
cis-1,3-Dichloropropene	2.00	26633.0000	0.4744	5.00	69659.0000	0.4895	20.0	287431.000	0.5046
m-,p-Xylene	4.00	60284.0000	0.6730	10.0	160381.000	0.7005	40.0	634825.000	0.6862
n-Butylbenzene	2.00	58157.0000	2.115	5.00	156158.000	2.280	20.0	645218.000	2.302
n-Propylbenzene	2.00	90388.0000	3.286	5.00	242294.000	3.538	20.0	957900.000	3.418
o-Xylene	2.00	30320.0000	0.6770	5.00	78495.0000	0.6857	20.0	317480.000	0.6863
p-Isopropyltoluene	2.00	67460.0000	2.453	5.00	187349.000	2.736	20.0	749022.000	2.673
sec-Butylbenzene	2.00	76554.0000	2.783	5.00	203187.000	2.967	20.0	829312.000	2.959
tert-Butylbenzene	2.00	12350.0000	0.4490	5.00	35508.0000	0.5185	20.0	144814.000	0.5167
trans-1,2-Dichloroethene	2.00	29896.0000	0.5325	5.00	78011.0000	0.5482	20.0	317357.000	0.5572
trans-1,3-Dichloropropene	2.00	26510.0000	0.5919	5.00	68525.0000	0.5986	20.0	274644.000	0.5937

INT_CAL - Modified 03/06/2008
PDF File ID: 1853888
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L10110608 **Instrument ID:** HPMS8

Analytical Method: 8260B **Initial Calibration Date:** 08-NOV-10 15:03

Column ID: F

Analyte	WG347960-08			WG347960-09			WG347960-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	50.0	331073.000	0.2281	100	654913.000	0.2197	200	1253720.00	0.2178
Dibromochloromethane	50.0	479670.000	0.4068	100	984339.000	0.4105	200	1878929.00	0.3974
Dibromomethane	50.0	242780.000	0.1672	100	482398.000	0.1618	200	925676.000	0.1608
Dichlorodifluoromethane	50.0	642802.000	0.4428	100	1260698.00	0.4229	200	2411586.00	0.4189
Hexachlorobutadiene	50.0	266030.000	0.3688	100	560210.000	0.3733	200	1090872.00	0.3787
Isopropylbenzene	50.0	2067014.00	1.753	100	4052907.00	1.690	200	7408880.00	1.567
Methylene Chloride	50.0	401360.000	0.2765	100	806047.000	0.2704	200	1553225.00	0.2698
Naphthalene	50.0	1388383.00	1.925	100	2797834.00	1.864	200	4922410.00	1.709
Styrene	50.0	1326750.00	1.125	100	2630493.00	1.097	200	4951757.00	1.047
Tetrachloroethene	50.0	384060.000	0.3257	100	770117.000	0.3212	200	1491893.00	0.3155
Trichloroethene	50.0	465877.000	0.3209	100	918693.000	0.3082	200	1762818.00	0.3062
Trichlorofluoromethane	50.0	926226.000	0.6380	100	1816713.00	0.6094	200	3509387.00	0.6096
Vinyl Acetate	50.0	918668.000	0.6328	100	1911733.00	0.6413	200	3609589.00	0.6270
cis-1,2-Dichloroethene	50.0	438634.000	0.3021	100	873059.000	0.2929	200	1696749.00	0.2947
cis-1,3-Dichloropropene	50.0	709536.000	0.4888	100	1424286.00	0.4778	200	2734339.00	0.4749
m-,p-Xylene	100	1575132.00	0.6679	200	3077484.00	0.6417	400	5733927.00	0.6063
n-Butylbenzene	50.0	1610578.00	2.233	100	3155394.00	2.103	200	5805397.00	2.015
n-Propylbenzene	50.0	2375925.00	3.294	100	4611367.00	3.073	200	8297774.00	2.880
o-Xylene	50.0	795084.000	0.6743	100	1583695.00	0.6604	200	2988921.00	0.6321
p-Isopropyltoluene	50.0	1871122.00	2.594	100	3674392.00	2.448	200	6698750.00	2.325
sec-Butylbenzene	50.0	2075850.00	2.878	100	4057818.00	2.704	200	7416836.00	2.575
tert-Butylbenzene	50.0	363651.000	0.5042	100	726456.000	0.4840	200	1405761.00	0.4880
trans-1,2-Dichloroethene	50.0	795168.000	0.5477	100	1572971.00	0.5276	200	3057605.00	0.5311
trans-1,3-Dichloropropene	50.0	688698.000	0.5841	100	1392347.00	0.5806	200	2648829.00	0.5602

INT_CAL - Modified 03/06/2008
PDF File ID: 1853888
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.
INITIAL CALIBRATION DATA

Login Number: L10110608
Analytical Method: 8260B
Instrument ID: HPMS8
Initial Calibration Date: 08-NOV-10 15:03
Column ID: F

Analyte	WG347960-11		
	CONC	RESP	RF
Chloroethane	NA	NA	NA
Dibromochloromethane	NA	NA	NA
Dibromomethane	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA
Isopropylbenzene	NA	NA	NA
Methylene Chloride	NA	NA	NA
Naphthalene	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA
Vinyl Acetate	300	5083500.00	0.5612
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-,p-Xylene	NA	NA	NA
n-Butylbenzene	NA	NA	NA
n-Propylbenzene	NA	NA	NA
o-Xylene	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA
sec-Butylbenzene	NA	NA	NA
tert-Butylbenzene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA

INT_CAL - Modified 03/06/2008
PDF File ID: 1853888
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10110608 Run Date: 11/08/2010 Sample ID: WG347960-12
Instrument ID: HPMS8 Run Time: 16:37 Method: 8260B
File ID: 8M365601 Analyst: MES QC Key: DOD4
ICal Workgroup: WG347960 Cal ID: HPMS8 - 08-NOV-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	51.8	ug/L	0.599	3.60	25	
1,2-Dichloropropane	CCC	50.0	51.8	ug/L	0.321	3.60	25	
Chloroform	CCC	50.0	48.9	ug/L	0.568	2.10	25	
Ethylbenzene	CCC	50.0	50.9	ug/L	0.542	1.80	25	
Toluene	CCC	50.0	50.1	ug/L	1.38	0.200	25	
Vinyl Chloride	CCC	50.0	53.6	ug/L	0.426	7.20	25	
1,1,2,2-Tetrachloroethane	SPCC	50.0	46.8	ug/L	0.477	6.40	25	
1,1-Dichloroethane	SPCC	50.0	51.6	ug/L	0.628	3.20	25	
Bromoform	SPCC	50.0	49.9	ug/L	0.263	0.200	25	
Chlorobenzene	SPCC	50.0	48.3	ug/L	0.996	3.40	25	
Chloromethane	SPCC	50.0	50.5	ug/L	0.626	1.10	25	
1,1,1,2-Tetrachloroethane		50.0	50.7	ug/L	0.421	1.50	25	
1,1,1-Trichloroethane		50.0	51.5	ug/L	0.561	3.00	25	
1,1,2-Trichloroethane		50.0	50.2	ug/L	0.258	0.400	25	
1,1-Dichloropropene		50.0	51.3	ug/L	0.422	2.70	25	
1,2,3-Trichlorobenzene		50.0	47.8	ug/L	0.903	4.30	25	
1,2,3-Trichloropropane		50.0	47.7	ug/L	0.166	4.60	25	
1,2,4-Trichlorobenzene		50.0	47.1	ug/L	1.02	5.80	25	
1,2,4-Trimethylbenzene		50.0	50.0	ug/L	2.62	0.100	25	
1,2-Dibromo-3-Chloropropane		50.0	46.6	ug/L	0.116	6.70	25	
1,2-Dibromoethane		50.0	49.1	ug/L	0.286	1.70	25	
1,2-Dichlorobenzene		50.0	48.8	ug/L	1.40	2.40	25	
1,2-Dichloroethane		50.0	49.1	ug/L	0.539	1.80	25	
1,3,5-Trimethylbenzene		50.0	50.8	ug/L	2.51	1.50	25	
1,3-Dichlorobenzene		50.0	48.8	ug/L	1.49	2.40	25	
1,3-Dichloropropane		50.0	49.5	ug/L	0.472	1.00	25	
1,4-Dichlorobenzene		50.0	46.6	ug/L	1.49	6.70	25	
2,2-Dichloropropane		50.0	49.8	ug/L	0.561	0.500	25	
2-Butanone		50.0	51.0	ug/L	0.151	1.90	25	
2-Chloroethyl Vinyl Ether		50.0	52.9	ug/L	0.169	5.70	30	
2-Chlorotoluene		50.0	51.7	ug/L	2.17	3.50	25	
2-Hexanone		50.0	50.8	ug/L	0.107	1.50	25	
4-Chlorotoluene		50.0	47.7	ug/L	2.06	4.60	25	
4-Methyl-2-Pentanone		50.0	51.6	ug/L	0.0929	3.10	25	
Acetone		50.0	51.5	ug/L	0.103	2.90	25	
Benzene		50.0	49.0	ug/L	1.06	1.90	25	
Bromobenzene		50.0	49.2	ug/L	0.785	1.60	25	
Bromochloromethane		50.0	50.3	ug/L	0.193	0.600	25	
Bromodichloromethane		50.0	52.8	ug/L	0.457	5.70	25	
Bromomethane		50.0	48.2	ug/L	0.170	3.60	25	
Carbon Disulfide		50.0	54.6	ug/L	0.863	9.10	25	
Carbon Tetrachloride		50.0	51.6	ug/L	0.530	3.30	25	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1852461
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L10110608 Run Date: 11/08/2010 Sample ID: WG347960-12
Instrument ID: HPMS8 Run Time: 16:37 Method: 8260B
File ID: 8M365601 Analyst: MES QC Key: DOD4
ICal Workgroup: WG347960 Cal ID: HPMS8 - 08-NOV-10

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Dibromochloromethane		50.0	51.3	ug/L	0.409	2.50	25	
Chloroethane		50.0	55.6	ug/L	0.246	11.2	25	
cis-1,2-Dichloroethene		50.0	50.8	ug/L	0.299	1.60	25	
cis-1,3-Dichloropropene		50.0	51.1	ug/L	0.482	2.30	25	
Dibromomethane		50.0	50.3	ug/L	0.162	0.600	25	
Dichlorodifluoromethane		50.0	52.9	ug/L	0.451	5.80	25	
Hexachlorobutadiene		50.0	48.0	ug/L	0.355	4.00	25	
Isopropylbenzene		50.0	45.9	ug/L	1.55	8.10	25	
m-,p-Xylene		100	99.2	ug/L	0.655	0.800	25	
Methylene Chloride		50.0	45.9	ug/L	0.276	8.20	25	
n-Butylbenzene		50.0	51.1	ug/L	2.19	2.20	25	
n-Propylbenzene		50.0	49.7	ug/L	3.23	0.500	25	
Naphthalene		50.0	46.6	ug/L	1.91	6.80	25	
o-Xylene		50.0	49.1	ug/L	0.665	1.70	25	
p-Isopropyltoluene		50.0	50.0	ug/L	2.48	0.100	25	
sec-Butylbenzene		50.0	51.3	ug/L	2.83	2.50	25	
Styrene		50.0	51.1	ug/L	1.12	2.20	25	
tert-Butylbenzene		50.0	51.6	ug/L	0.500	3.20	25	
Tetrachloroethene		50.0	51.1	ug/L	0.321	2.20	25	
trans-1,2-Dichloroethene		50.0	50.5	ug/L	0.538	1.00	25	
trans-1,3-Dichloropropene		50.0	45.8	ug/L	0.522	8.40	25	
Trichloroethene		50.0	50.8	ug/L	0.315	1.50	25	
Trichlorofluoromethane		50.0	52.1	ug/L	0.642	4.30	25	
Vinyl Acetate		50.0	38.0	ug/L	0.476	24.0	40	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349415-02
Instrument ID: HPMS8 Run Time: 09:30 Method: 8260B
File ID: 8M366001 Analyst: MES QC Key: DOD4
Workgroup (AAB#): WG349416 Cal ID: HPMS8 - 08-NOV-10
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	57.2	ug/L	0.661	14.3	20	
1,2-Dichloropropane	CCC	50.0	50.3	ug/L	0.312	0.516	20	
Chloroform	CCC	50.0	52.6	ug/L	0.610	5.17	20	
Ethylbenzene	CCC	50.0	49.0	ug/L	0.521	2.10	20	
Toluene	CCC	50.0	48.9	ug/L	1.35	2.29	20	
Vinyl Chloride	CCC	50.0	56.2	ug/L	0.447	12.4	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	40.5	ug/L	0.413	19.1	20	
1,1-Dichloroethane	SPCC	50.0	52.4	ug/L	0.637	4.79	20	
Bromoform	SPCC	50.0	47.1	ug/L	0.248	5.88	20	
Chlorobenzene	SPCC	50.0	47.2	ug/L	0.973	5.70	20	
Chloromethane	SPCC	50.0	50.5	ug/L	0.626	1.02	20	
1,1,1,2-Tetrachloroethane		50.0	51.2	ug/L	0.424	2.42	20	
1,1,1-Trichloroethane		50.0	58.7	ug/L	0.639	17.4	20	
1,1,2-Trichloroethane		50.0	45.5	ug/L	0.234	8.92	20	
1,1-Dichloropropene		50.0	54.3	ug/L	0.447	8.63	20	
1,2,3-Trichlorobenzene		50.0	42.3	ug/L	0.799	15.4	20	
1,2,3-Trichloropropane		50.0	44.8	ug/L	0.156	10.4	20	
1,2,4-Trichlorobenzene		50.0	45.3	ug/L	0.980	9.46	20	
1,2,4-Trimethylbenzene		50.0	50.7	ug/L	2.65	1.50	20	
1,2-Dibromo-3-Chloropropane		50.0	46.5	ug/L	0.115	6.94	20	
1,2-Dibromoethane		50.0	45.6	ug/L	0.266	8.76	20	
1,2-Dichlorobenzene		50.0	47.0	ug/L	1.35	5.93	20	
1,2-Dichloroethane		50.0	54.2	ug/L	0.595	8.44	20	
1,3,5-Trimethylbenzene		50.0	52.3	ug/L	2.59	4.52	20	
1,3-Dichlorobenzene		50.0	49.1	ug/L	1.50	1.72	20	
1,3-Dichloropropane		50.0	45.5	ug/L	0.435	8.92	20	
1,4-Dichlorobenzene		50.0	46.9	ug/L	1.50	6.26	20	
2,2-Dichloropropane		50.0	56.8	ug/L	0.641	13.6	20	
2-Butanone		50.0	42.8	ug/L	0.127	14.4	20	
2-Chloroethyl Vinyl Ether		50.0	46.7	ug/L	0.150	6.62	40	
2-Chlorotoluene		50.0	53.0	ug/L	2.23	6.08	20	
2-Hexanone		50.0	41.4	ug/L	0.0871	17.2	20	
4-Chlorotoluene		50.0	49.2	ug/L	2.12	1.65	20	
4-Methyl-2-Pentanone		50.0	42.8	ug/L	0.0772	14.3	20	
Acetone		50.0	47.3	ug/L	0.0946	5.42	20	
Benzene		50.0	47.9	ug/L	1.04	4.22	20	
Bromobenzene		50.0	47.3	ug/L	0.755	5.43	20	
Bromochloromethane		50.0	47.3	ug/L	0.182	5.40	20	
Bromodichloromethane		50.0	55.5	ug/L	0.480	11.0	20	
Bromomethane		50.0	53.6	ug/L	0.190	7.28	20	
Carbon Disulfide		50.0	47.4	ug/L	0.750	5.19	20	
Carbon Tetrachloride		50.0	59.9	ug/L	0.615	19.8	20	

CCV - Modified 03/05/2008
PDF File ID: 1852462
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349415-02
Instrument ID: HPMS8 Run Time: 09:30 Method: 8260B
File ID: 8M366001 Analyst: MES QC Key: DOD4
Workgroup (AAB#): WG349416 Cal ID: HPMS8 - 08-NOV-10
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Dibromochloromethane		50.0	51.7	ug/L	0.413	3.49	20	
Chloroethane		50.0	49.8	ug/L	0.220	0.417	20	
cis-1,2-Dichloroethene		50.0	50.5	ug/L	0.297	1.10	20	
cis-1,3-Dichloropropene		50.0	51.0	ug/L	0.481	2.04	20	
Dibromomethane		50.0	49.1	ug/L	0.158	1.74	20	
Dichlorodifluoromethane		50.0	50.5	ug/L	0.431	1.08	20	
Hexachlorobutadiene		50.0	53.1	ug/L	0.392	6.13	20	
Isopropylbenzene		50.0	51.3	ug/L	1.73	2.59	20	
m-,p-Xylene		100	98.4	ug/L	0.650	1.55	20	
Methylene Chloride		50.0	43.7	ug/L	0.263	12.6	20	
n-Butylbenzene		50.0	52.8	ug/L	2.27	5.61	20	
n-Propylbenzene		50.0	51.3	ug/L	3.33	2.60	20	
Naphthalene		50.0	40.0	ug/L	1.64	20.1	20	*
o-Xylene		50.0	48.0	ug/L	0.649	4.02	20	
p-Isopropyltoluene		50.0	53.5	ug/L	2.65	7.00	20	
sec-Butylbenzene		50.0	52.4	ug/L	2.90	4.82	20	
Styrene		50.0	49.1	ug/L	1.08	1.83	20	
tert-Butylbenzene		50.0	51.8	ug/L	0.502	3.60	20	
Tetrachloroethene		50.0	51.4	ug/L	0.324	2.82	20	
trans-1,2-Dichloroethene		50.0	53.3	ug/L	0.568	6.64	20	
trans-1,3-Dichloropropene		50.0	50.5	ug/L	0.576	1.07	20	
Trichloroethene		50.0	52.3	ug/L	0.325	4.69	20	
Trichlorofluoromethane		50.0	58.3	ug/L	0.718	16.5	20	
Vinyl Acetate		50.0	48.9	ug/L	0.613	2.14	40	
1,2-Dichloroethene		100	104	ug/L	0.433	3.87	40	
Xylenes		150	146	ug/L	0.650	2.38	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1852462
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L10110608
Instrument ID: HPMS8
Workgroup (AAB#): WG349416

ICAL CCV Number: WG347960-08
CAL ID: HPMS8-08-NOV-10
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG347960-08	NA	NA	360638	589586	725868
Upper Limit	NA	NA	721276	1179172	1451736
Lower Limit	NA	NA	180319	294793	362934
L10110608-01	1.00	01	239993	394139	487560
L10110608-03	1.00	01	252025	413606	497155
L10110608-05	1.00	01	251156	416118	498913
L10110608-07	1.00	01	250671	423463	523332
L10110608-09	1.00	01	247934	407424	503599
L10110608-11	1.00	01	241021	403502	486374
L10110608-13	1.00	01	237963	395258	483039
L10110608-15	1.00	01	257212	424215	526328
WG349416-01	1.00	01	263727	428667	527562
WG349416-02	1.00	01	264242	432317	531645

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1853890
Report generated 12/01/2010 14:04

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L10110608
Instrument ID: HPMS8
Workgroup (AAB#): WG349416

ICAL CCV Number: WG347960-08
CAL ID: HPMS8-08-NOV-10
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG347960-08	NA	NA	17.25	14.25	10.39
Upper Limit	NA	NA	17.75	14.75	10.89
Lower Limit	NA	NA	16.75	13.75	9.89
L10110608-01	1.00	01	17.25	14.24	10.39
L10110608-03	1.00	01	17.25	14.25	10.39
L10110608-05	1.00	01	17.25	14.24	10.39
L10110608-07	1.00	01	17.25	14.24	10.39
L10110608-09	1.00	01	17.25	14.24	10.39
L10110608-11	1.00	01	17.24	14.25	10.39
L10110608-13	1.00	01	17.25	14.24	10.39
L10110608-15	1.00	01	17.24	14.24	10.39
WG349416-01	1.00	01	17.25	14.25	10.39
WG349416-02	1.00	01	17.24	14.25	10.39

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 1853891
Report generated: 12/01/2010 14:04

2.1.1.3 Sample Data

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\112210\8M366012.D Vial: 12
Acq On : 22 Nov 2010 14:45 Operator: MES
Sample : L10110608-01 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:36:08 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

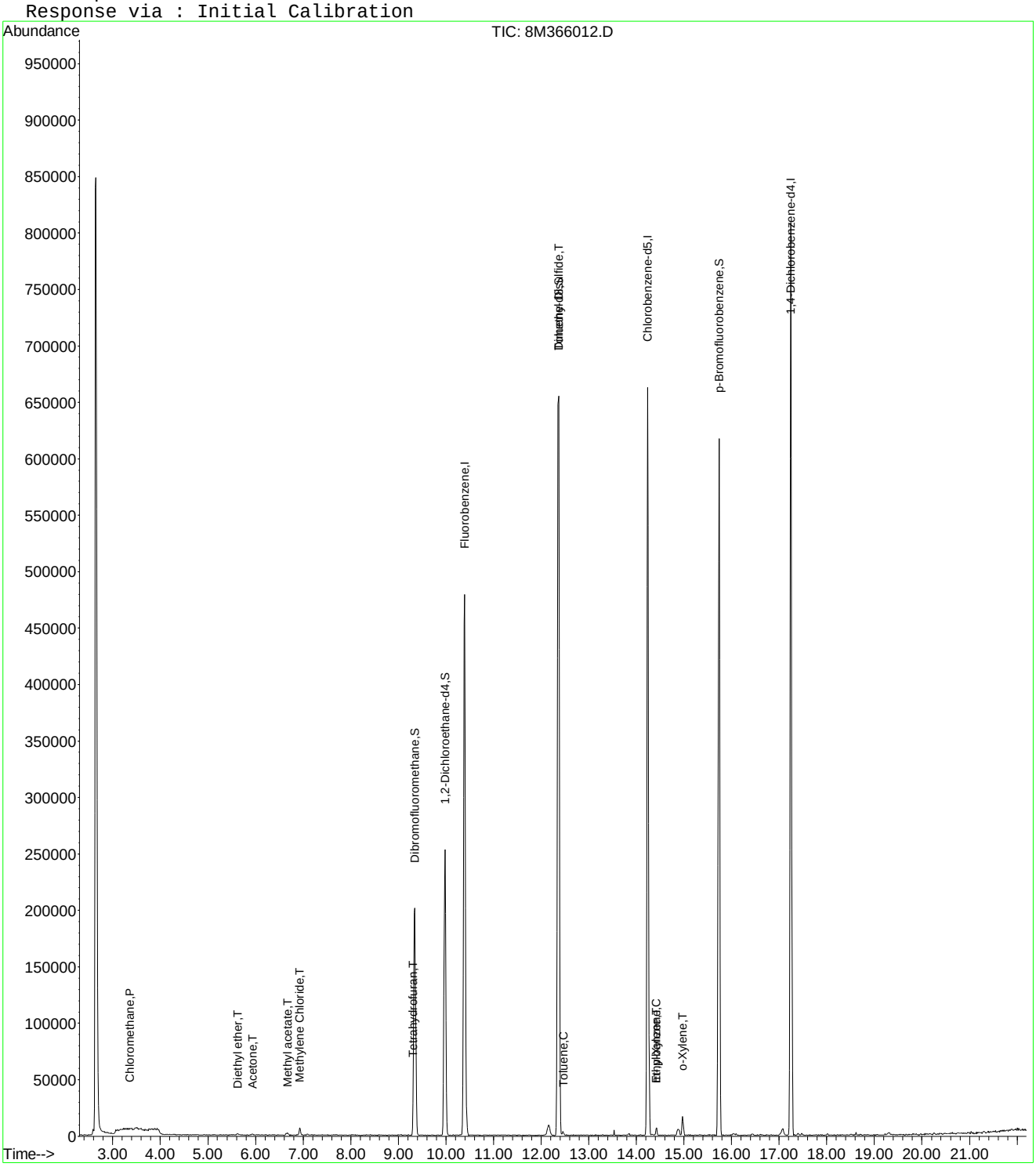
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.39	96	487560	25.00	ug/L	0.00
56) Chlorobenzene-d5	14.24	117	394139	25.00	ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.25	152	239993	25.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	9.35	111	176618	27.5987	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 110.40%			
42) 1,2-Dichloroethane-d4	9.98	65	246991	28.9363	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 115.76%			
57) Toluene-d8	12.37	98	522159	25.8494	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.40%			
78) p-Bromofluorobenzene	15.74	95	230928	26.4350	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.72%			
Target Compounds						Qvalue
3) Chloromethane	3.36	50	3798	0.3143	ug/L #	67
9) Diethyl ether	5.63	59	727	0.1433	ug/L #	1
13) Acetone	5.94	43	1420	0.7281	ug/L #	58
18) Methyl acetate	6.67	43	3051	0.4671	ug/L #	74
19) Methylene Chloride	6.93	84	2459	0.4194	ug/L	94
35) Tetrahydrofuran	9.31	42	653	0.3308	ug/L #	55
55) Dimethyl Disulfide	12.37	94	16113	1.8011	ug/L #	23
58) Toluene	12.47	91	3367	0.1545	ug/L	98
70) Ethylbenzene	14.41	106	2609	0.3108	ug/L	60
71) m-,p-Xylene	14.41	106	2609	0.2506	ug/L	79
72) o-Xylene	14.97	106	5992	0.5619	ug/L	98

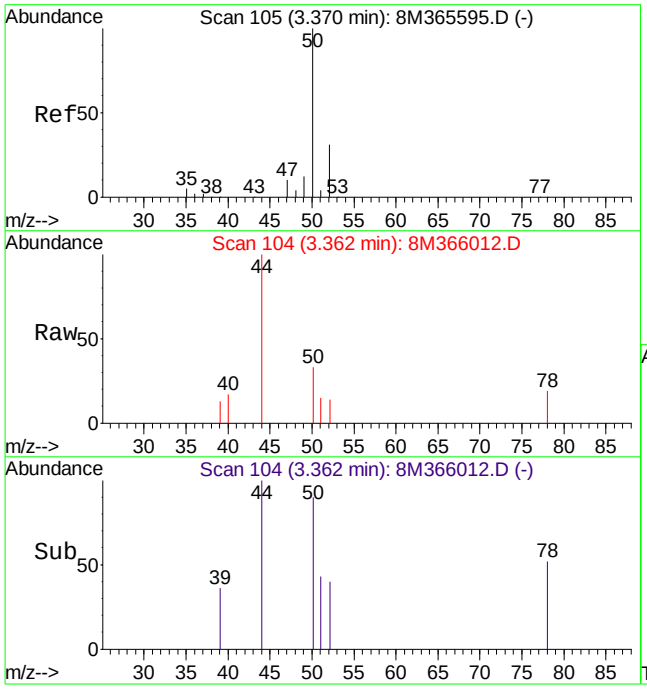
(#) = qualifier out of range (m) = manual integration
8M366012.D 8260WTR.M Mon Nov 29 16:36:10 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\112210\8M366012.D Vial: 12
Acq On : 22 Nov 2010 14:45 Operator: MES
Sample : L10110608-01 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:36 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration

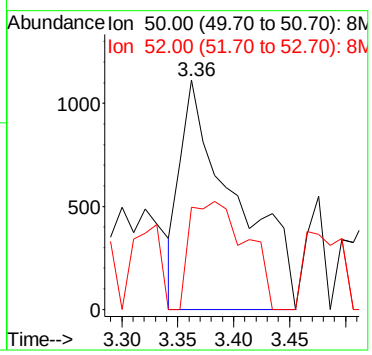


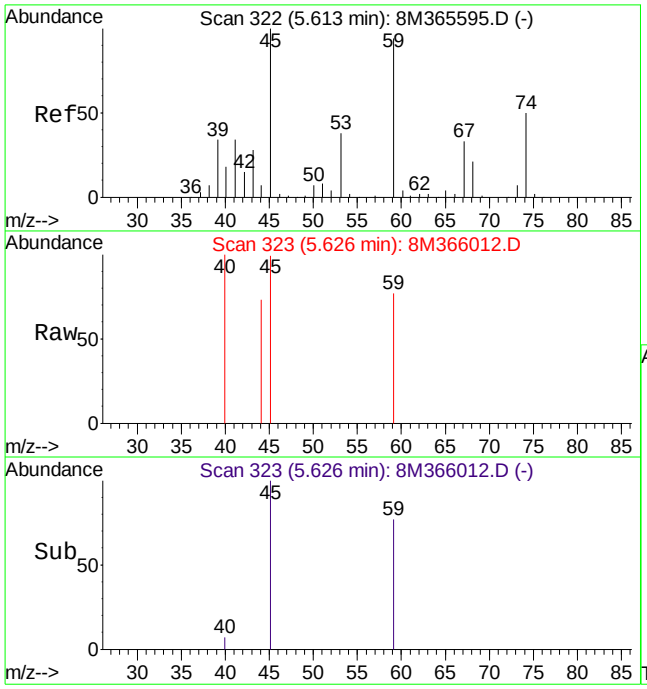


#3
Chloromethane
Concen: 0.31 ug/L
RT: 3.36 min Scan# 104
Delta R.T. -0.01 min
Lab File: 8M366012.D
Acq: 22 Nov 2010 14:45

Tgt Ion: 50 Resp: 3798

Ion	Ratio	Lower	Upper
50	100		
52	48.6	18.3	42.7#

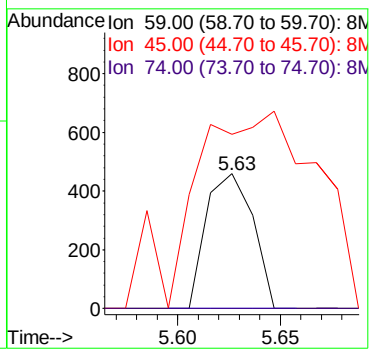


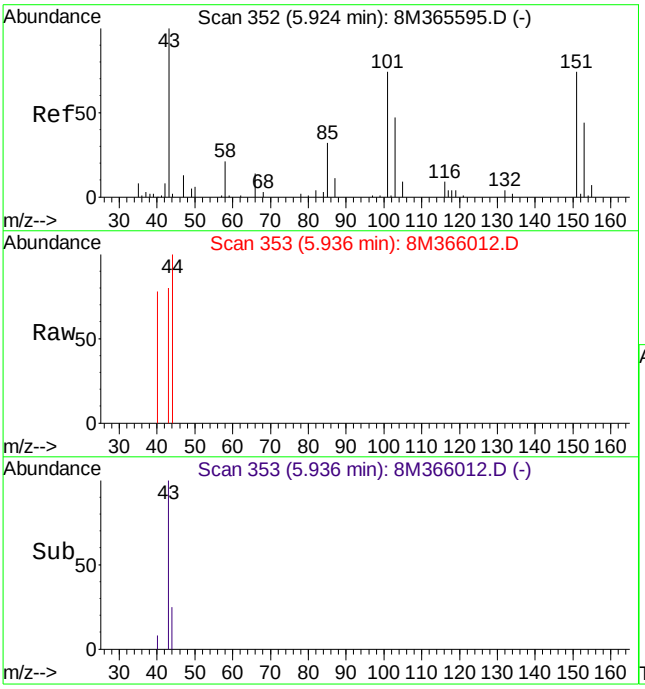


#9
Diethyl ether
Concen: 0.14 ug/L
RT: 5.63 min Scan# 323
Delta R.T. 0.01 min
Lab File: 8M366012.D
Acq: 22 Nov 2010 14:45

Tgt Ion: 59 Resp: 727

Ion	Ratio	Lower	Upper
59	100		
45	394.8	62.6	146.2#
74	0.0	31.6	73.6#

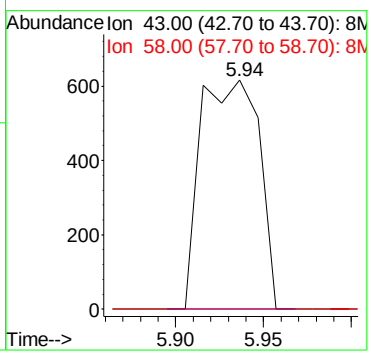


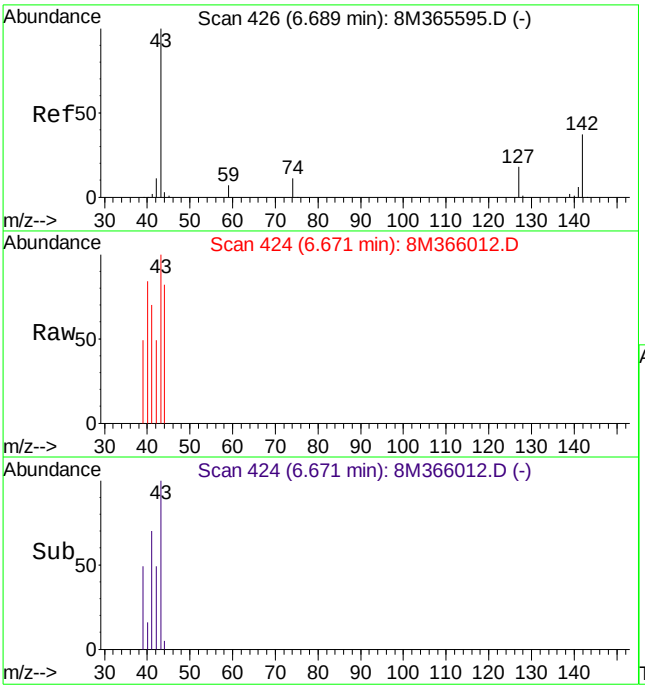


#13
Acetone
Concen: 0.73 ug/L
RT: 5.94 min Scan# 353
Delta R.T. 0.01 min
Lab File: 8M366012.D
Acq: 22 Nov 2010 14:45

Tgt Ion: 43 Resp: 1420

Ion	Ratio	Lower	Upper
43	100		
58	0.0	11.4	26.6#

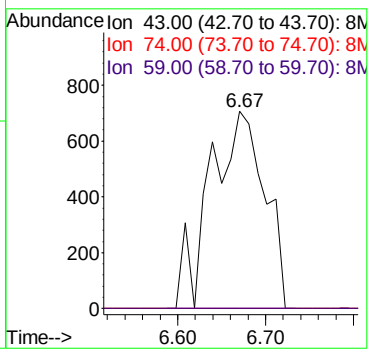


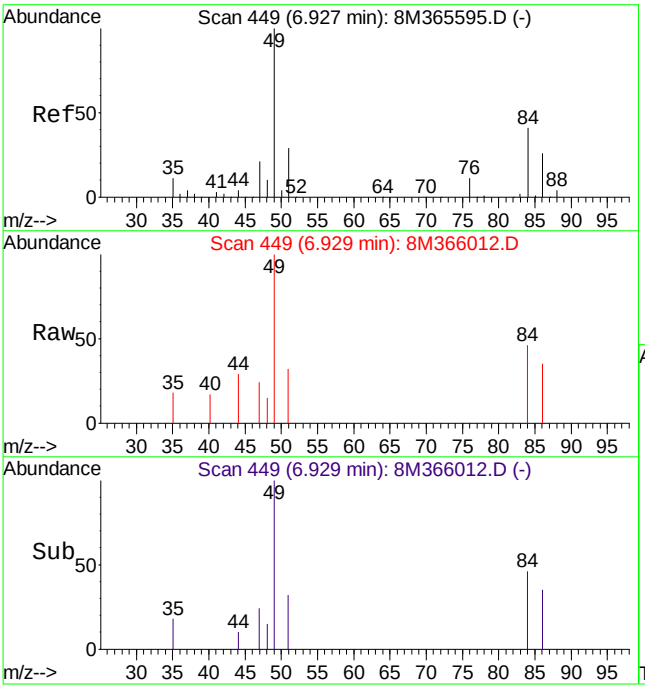


#18
Methyl acetate
Concen: 0.47 ug/L
RT: 6.67 min Scan# 424
Delta R.T. -0.02 min
Lab File: 8M366012.D
Acq: 22 Nov 2010 14:45

Tgt Ion: 43 Resp: 3051

Ion	Ratio	Lower	Upper
43	100		
74	0.0	6.6	15.4#
59	0.0	4.1	9.7#

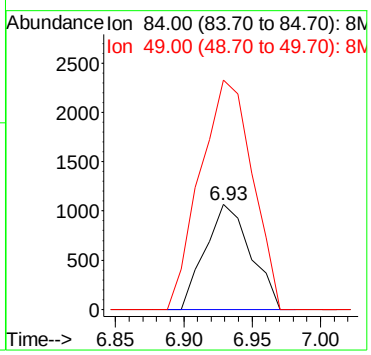


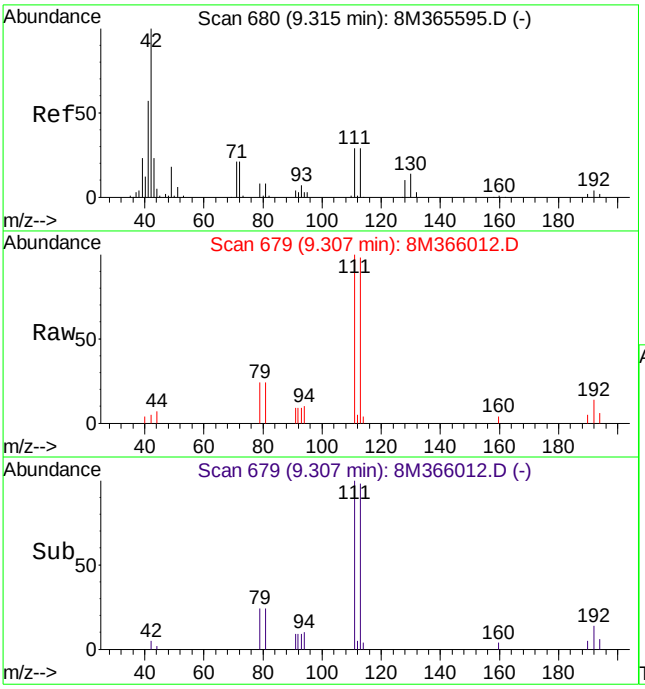


#19
Methylene Chloride
Concen: 0.42 ug/L
RT: 6.93 min Scan# 449
Delta R.T. 0.00 min
Lab File: 8M366012.D
Acq: 22 Nov 2010 14:45

Tgt Ion: 84 Resp: 2459

Ion	Ratio	Lower	Upper
84	100		
49	252.5	145.3	338.9

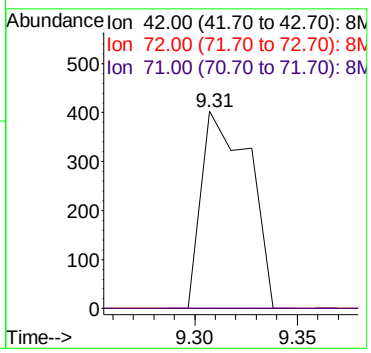


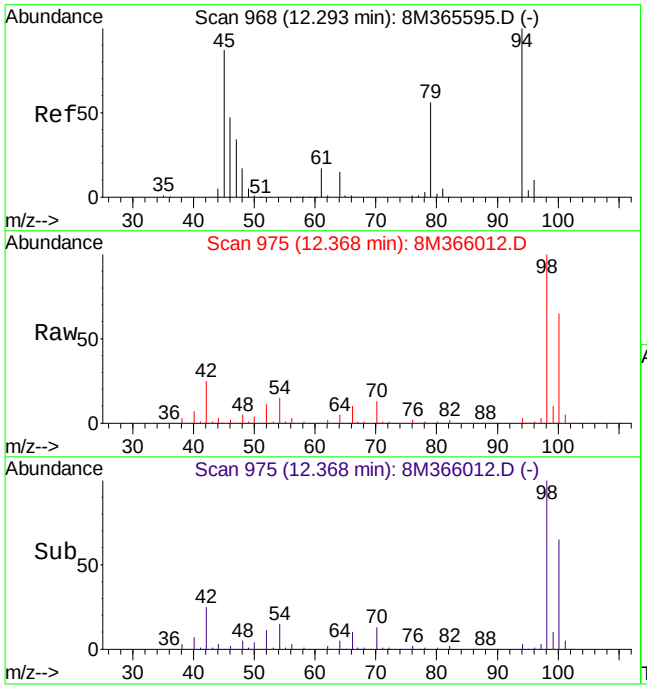


#35
Tetrahydrofuran
Concen: 0.33 ug/L
RT: 9.31 min Scan# 679
Delta R.T. -0.01 min
Lab File: 8M366012.D
Acq: 22 Nov 2010 14:45

Tgt Ion: 42 Resp: 653

Ion	Ratio	Lower	Upper
42	100		
72	0.0	12.7	29.5#
71	0.0	12.4	29.0#

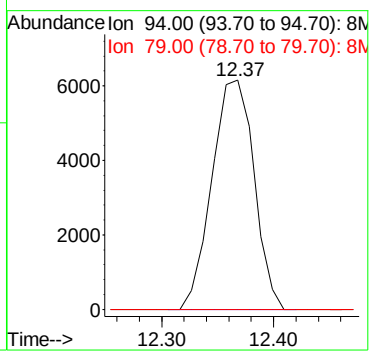


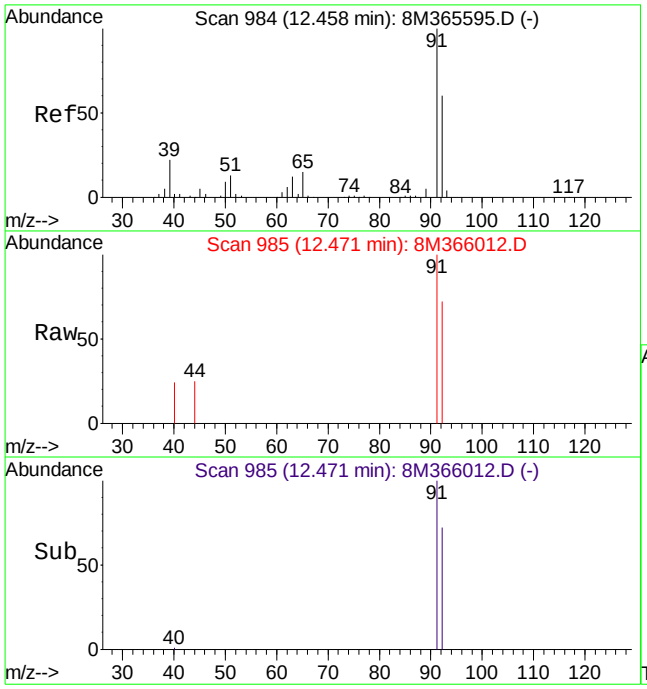


#55
Dimethyl Disulfide
Concen: 1.80 ug/L
RT: 12.37 min Scan# 975
Delta R.T. 0.07 min
Lab File: 8M366012.D
Acq: 22 Nov 2010 14:45

Tgt Ion: 94 Resp: 16113

Ion	Ratio	Lower	Upper
94	100		
79	0.0	33.4	78.0#

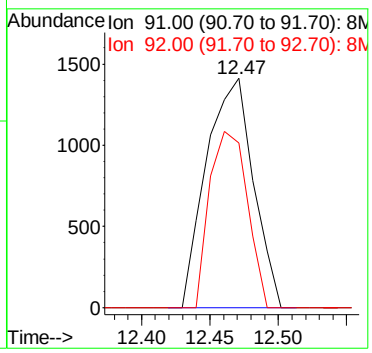


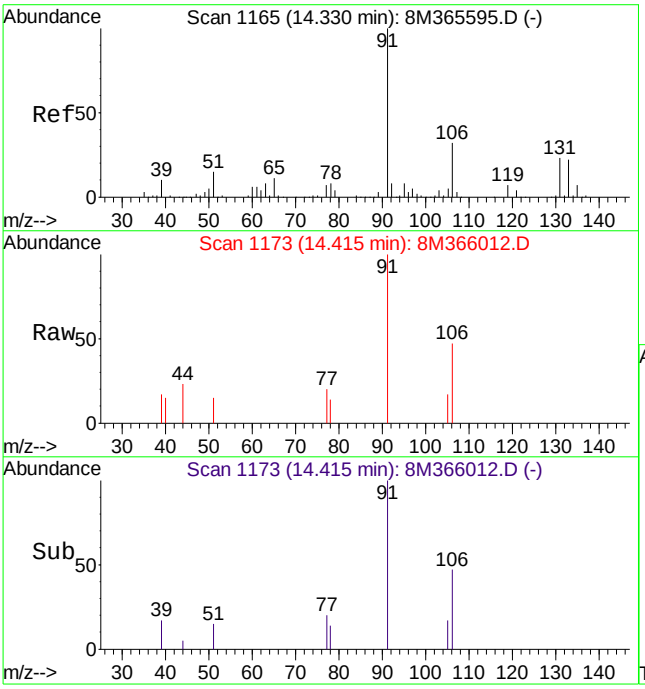


#58
Toluene
Concen: 0.15 ug/L
RT: 12.47 min Scan# 985
Delta R.T. 0.01 min
Lab File: 8M366012.D
Acq: 22 Nov 2010 14:45

Tgt Ion: 91 Resp: 3367

Ion	Ratio	Lower	Upper
91	100		
92	61.7	36.1	84.1

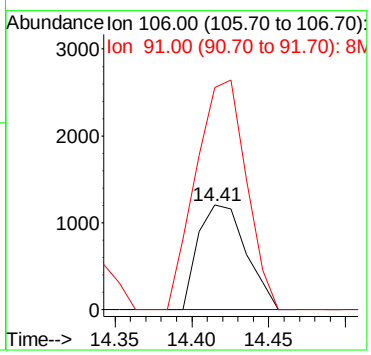


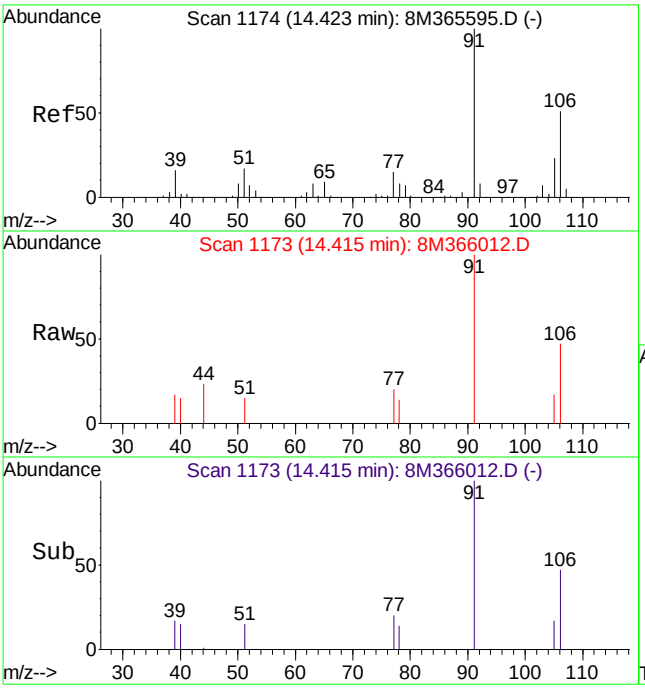


#70
Ethylbenzene
Concen: 0.31 ug/L
RT: 14.41 min Scan# 1173
Delta R.T. 0.09 min
Lab File: 8M366012.D
Acq: 22 Nov 2010 14:45

Tgt Ion:106 Resp: 2609

Ion	Ratio	Lower	Upper
106	100		
91	231.5	186.7	435.7

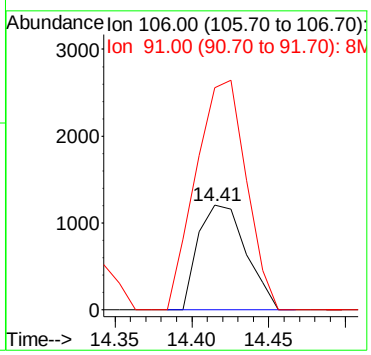


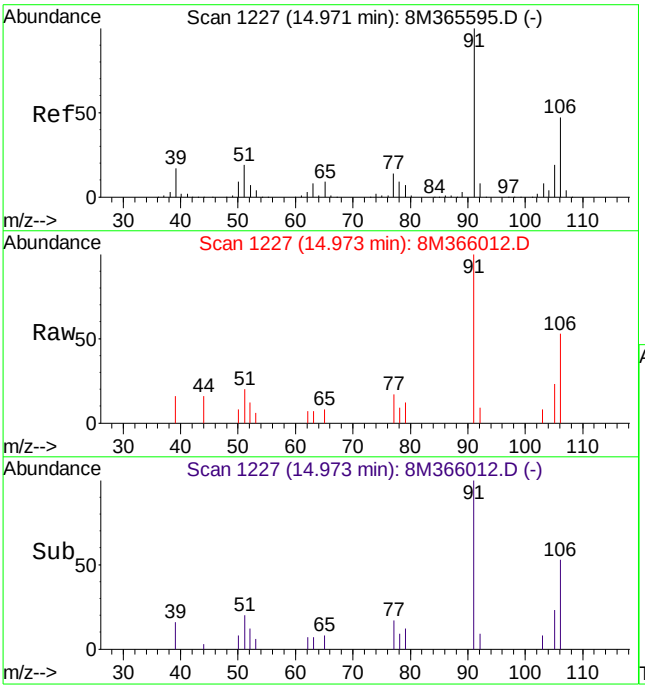


#71
m-,p-Xylene
Concen: 0.25 ug/L
RT: 14.41 min Scan# 1173
Delta R.T. -0.01 min
Lab File: 8M366012.D
Acq: 22 Nov 2010 14:45

Tgt Ion:106 Resp: 2609

Ion	Ratio	Lower	Upper
106	100		
91	231.5	120.1	280.1

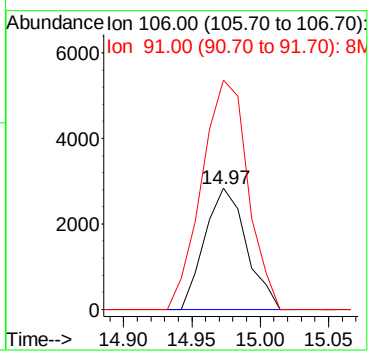




#72
o-Xylene
Concen: 0.56 ug/L
RT: 14.97 min Scan# 1227
Delta R.T. 0.00 min
Lab File: 8M366012.D
Acq: 22 Nov 2010 14:45

Tgt Ion:106 Resp: 5992

Ion	Ratio	Lower	Upper
106	100		
91	210.2	127.6	297.6



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\112210\8M366013.D Vial: 13
Acq On : 22 Nov 2010 15:17 Operator: MES
Sample : L10110608-03 MS A 826-SPE Inst : HPMS8
Misc : 1,1 STD42467 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 15:38:31 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	497155	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.25	117	413606	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.25	152	252025	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.35	111	179201	27.4619 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 109.84%		
42) 1,2-Dichloroethane-d4	9.98	65	243611	27.9895 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 111.96%		
57) Toluene-d8	12.36	98	531980	25.0961 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 100.40%		
78) p-Bromofluorobenzene	15.74	95	240922	26.2624 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.04%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.95	85	173519	20.4684 ug/L	100
3) Chloromethane	3.37	50	265818	21.5710 ug/L	99
4) Vinyl Chloride	3.59	62	176794	22.4043 ug/L	99
5) 1,3-Butadiene	3.63	54	180671	20.2235 ug/L	94
6) Bromomethane	4.43	94	73364	21.2383 ug/L	98
7) Chloroethane	4.59	64	88626	20.1947 ug/L	97
8) Trichlorofluoromethane	5.09	101	276775	22.7097 ug/L	99
9) Diethyl ether	5.61	59	705	0.1363 ug/L #	1
10) Isoprene	5.65	67	115386	14.2843 ug/L	90
12) 1,1,2-Trichloro-1,2,2-Trif	5.87	101	112138	19.2998 ug/L	99
13) Acetone	5.92	43	41437	20.8365 ug/L	92
14) 1,1-Dichloroethene	6.16	61	239084	20.7975 ug/L	96
16) Dimethyl Sulfide	6.42	62	122367	17.9017 ug/L	91
17) Iodomethane	6.66	142	89657	13.9722 ug/L	95
18) Methyl acetate	6.69	43	137981	20.7166 ug/L	98
19) Methylene Chloride	6.94	84	108765	18.1926 ug/L	88
20) Carbon Disulfide	6.97	76	228662	14.5317 ug/L	99
21) Acrylonitrile	7.10	53	41394	18.2868 ug/L	97
22) Methyl Tert Butyl Ether	7.17	73	284639	19.8706 ug/L	98
23) trans-1,2-Dichloroethene	7.40	61	216155	20.3947 ug/L	98
24) n-Hexane	7.51	57	128966	16.4171 ug/L	96
26) Vinyl Acetate	7.98	43	156026	12.5356 ug/L	99
27) 1,1-Dichloroethane	8.01	63	254500	21.0387 ug/L	99
29) 2-Butanone	8.56	43	53678	18.2065 ug/L	94
31) 2,2-Dichloropropane	8.80	77	230708	20.5672 ug/L	98
32) cis-1,2-Dichloroethene	8.85	96	116972	19.9986 ug/L	93
33) Chloroform	9.06	83	249787	21.6654 ug/L	99
34) Bromochloromethane	9.28	130	77576	20.3285 ug/L	97
35) Tetrahydrofuran	9.31	42	1034	0.5136 ug/L #	55
37) 1,1,1-Trichloroethane	9.59	97	252734	23.3372 ug/L	98
38) Cyclohexane	9.65	56	201029	19.1679 ug/L	99
39) 1,1-Dichloropropene	9.80	75	168454	20.6044 ug/L	99
41) Carbon Tetrachloride	9.94	117	241390	23.6379 ug/L	100
44) 1,2-Dichloroethane	10.10	62	253447	23.2414 ug/L	97
45) Benzene	10.14	78	409286	19.0420 ug/L	96
46) Trichloroethene	10.90	130	125220	20.2673 ug/L	99
47) Methylcyclohexane	11.00	83	124253	17.9878 ug/L	98
48) 1,2-Dichloropropane	11.10	63	123301	19.9998 ug/L	89
49) Bromodichloromethane	11.39	83	198705	23.1259 ug/L	99
51) Dibromomethane	11.48	93	68485	21.3782 ug/L	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDchem\1\data\112210\8M366013.D Vial: 13
Acq On : 22 Nov 2010 15:17 Operator: MES
Sample : L10110608-03 MS A 826-SPE Inst : HPMS8
Misc : 1,1 STD42467 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 15:38:31 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

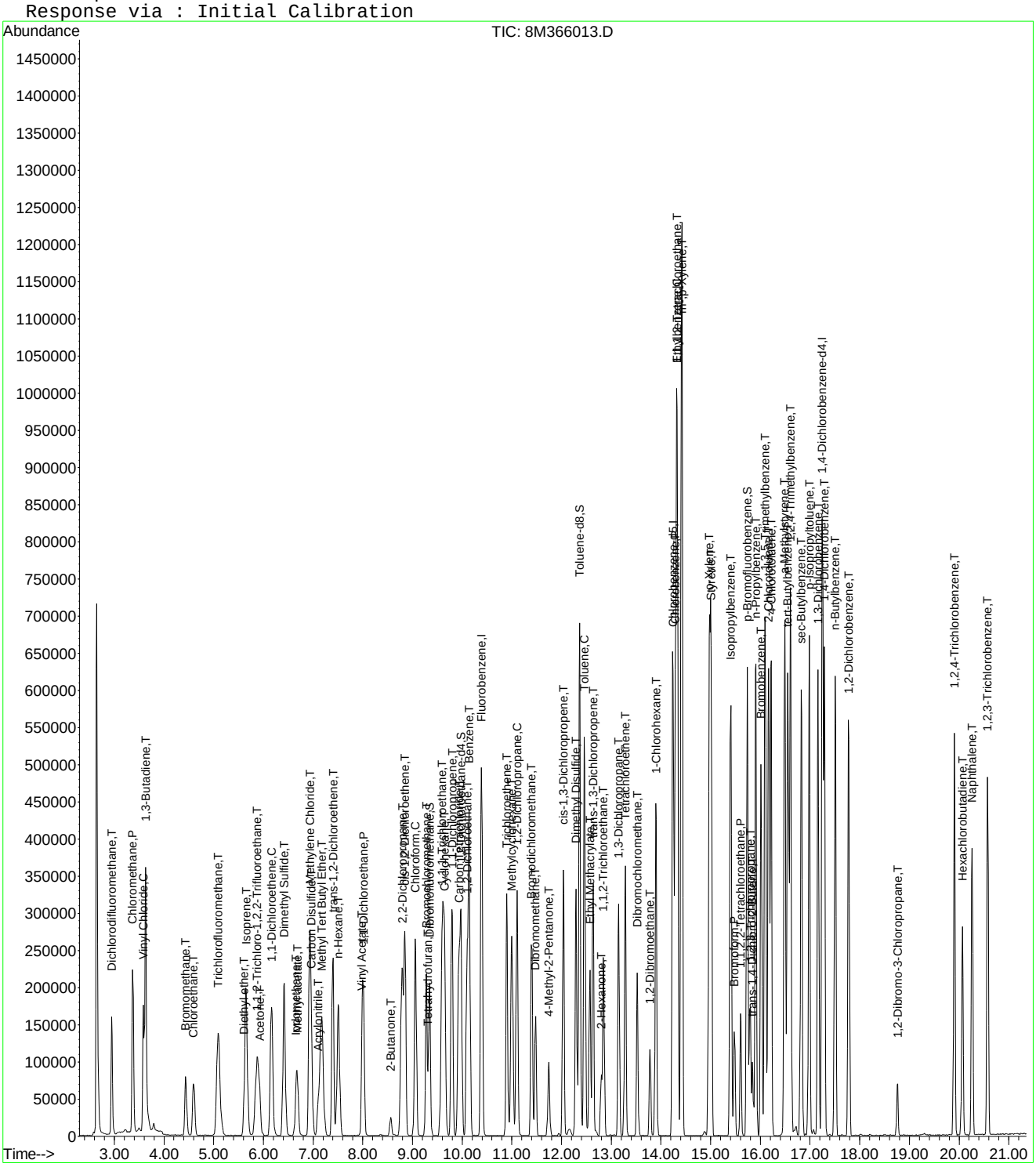
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
53)	4-Methyl-2-Pentanone	11.74	58	29899	16.6791 ug/L	100
54)	cis-1,3-Dichloropropene	12.03	75	187853	20.0250 ug/L	99
55)	Dimethyl Disulfide	12.29	94	183470	20.1127 ug/L	100
58)	Toluene	12.46	91	445882	19.4988 ug/L	99
59)	Ethyl Methacrylate	12.57	69	105680	19.2493 ug/L	92
60)	trans-1,3-Dichloropropene	12.63	75	175419	18.6051 ug/L	99
61)	1,1,2-Trichloroethane	12.84	97	81063	19.1055 ug/L	99
62)	2-Hexanone	12.80	58	29158	16.7622 ug/L	90
63)	1,3-Dichloropropane	13.15	76	150344	19.0381 ug/L	89
64)	Tetrachloroethene	13.29	164	98883	18.9941 ug/L	93
65)	Dibromochloromethane	13.52	129	139130	21.0697 ug/L	99
66)	1,2-Dibromoethane	13.78	107	93788	19.4730 ug/L	97
67)	1-Chlorohexane	13.91	91	130900	18.6398 ug/L	93
68)	Chlorobenzene	14.29	112	326686	19.1452 ug/L	98
69)	1,1,1,2-Tetrachloroethane	14.33	131	141933	20.7035 ug/L	99
70)	Ethylbenzene	14.33	106	174472	19.8066 ug/L	97
71)	m-,p-Xylene	14.42	106	427521	39.1262 ug/L	94
72)	o-Xylene	14.97	106	217406	19.4263 ug/L	93
73)	Styrene	15.01	104	357595	19.6476 ug/L	95
74)	Bromoform	15.48	173	86797	19.9244 ug/L	98
75)	Isopropylbenzene	15.40	105	508578	18.2002 ug/L	96
77)	1,1,2,2-Tetrachloroethane	15.60	83	90430	17.5978 ug/L	99
79)	1,2,3-Trichloropropane	15.80	110	34055	19.4072 ug/L	65
80)	trans-1,4-Dichloro-2-Buten	15.84	53	34735	12.9790 ug/L #	14
81)	n-Propylbenzene	15.91	91	644376	19.7052 ug/L	98
82)	Bromobenzene	16.01	156	154812	19.2401 ug/L	93
83)	1,3,5-Trimethylbenzene	16.10	105	512365	20.5278 ug/L	96
84)	2-Chlorotoluene	16.17	91	425658	20.1309 ug/L	99
85)	4-Chlorotoluene	16.22	91	424671	19.5354 ug/L	98
86)	a-Methylstyrene	16.49	118	246239	18.8374 ug/L	96
87)	tert-Butylbenzene	16.55	134	96635	19.7963 ug/L	91
88)	1,2,4-Trimethylbenzene	16.60	105	534389	20.2751 ug/L	97
89)	sec-Butylbenzene	16.82	105	557059	19.9945 ug/L	99
90)	p-Isopropyltoluene	16.99	119	494665	19.7976 ug/L	98
91)	1,3-Dichlorobenzene	17.16	146	292357	19.0052 ug/L	96
92)	1,4-Dichlorobenzene	17.29	146	295788	18.3217 ug/L	95
93)	n-Butylbenzene	17.50	91	427098	19.7473 ug/L	99
94)	1,2-Dichlorobenzene	17.78	146	278741	19.2213 ug/L	98
95)	1,2-Dibromo-3-Chloropropan	18.77	75	24949	19.9836 ug/L	90
96)	1,2,4-Trichlorobenzene	19.90	180	191504	17.5580 ug/L	98
97)	Hexachlorobutadiene	20.07	225	68890	18.5041 ug/L	99
98)	Naphthalene	20.26	128	362803	17.5829 ug/L	99
99)	1,2,3-Trichlorobenzene	20.57	180	169589	17.8164 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\112210\8M366013.D Vial: 13
Acq On : 22 Nov 2010 15:17 Operator: MES
Sample : L10110608-03 MS A 826-SPE Inst : HPMS8
Misc : 1,1 STD42467 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 15:38 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\112210\8M366014.D Vial: 14
Acq On : 22 Nov 2010 15:48 Operator: MES
Sample : L10110608-05 MSD A 826-SPE Inst : HPMS8
Misc : 1,1 STD42467 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 16:11:06 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	498913	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.24	117	416118	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.25	152	251156	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.34	111	180986	27.6377 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 110.56%		
42) 1,2-Dichloroethane-d4	9.98	65	250550	28.6854 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 114.76%		
57) Toluene-d8	12.36	98	531344	24.9148 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.64%		
78) p-Bromofluorobenzene	15.74	95	240219	26.2763 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.12%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.95	85	174316	20.4900 ug/L	99
3) Chloromethane	3.37	50	276134	22.3292 ug/L	99
4) Vinyl Chloride	3.58	62	181137	22.8718 ug/L	99
5) 1,3-Butadiene	3.63	54	187651	20.9308 ug/L	95
6) Bromomethane	4.44	94	79813	22.9744 ug/L	99
7) Chloroethane	4.59	64	88245	20.0370 ug/L	95
8) Trichlorofluoromethane	5.09	101	279239	22.8303 ug/L	99
10) Isoprene	5.65	67	118594	14.6297 ug/L	93
12) 1,1,2-Trichloro-1,2,2-Trif	5.87	101	112691	19.3266 ug/L	99
13) Acetone	5.93	43	41863	20.9765 ug/L	95
14) 1,1-Dichloroethene	6.16	61	247037	21.4136 ug/L	94
16) Dimethyl Sulfide	6.42	62	127403	18.5728 ug/L	93
17) Iodomethane	6.66	142	94590	14.6564 ug/L	93
18) Methyl acetate	6.68	43	137697	20.6011 ug/L	99
19) Methylene Chloride	6.93	84	113575	18.9302 ug/L	94
20) Carbon Disulfide	6.97	76	229148	14.5112 ug/L	99
21) Acrylonitrile	7.11	53	42861	18.8682 ug/L	99
22) Methyl Tert Butyl Ether	7.17	73	290164	20.1849 ug/L	98
23) trans-1,2-Dichloroethene	7.39	61	222376	20.9078 ug/L	97
24) n-Hexane	7.51	57	131285	16.6535 ug/L	97
26) Vinyl Acetate	7.98	43	153236	12.2681 ug/L	99
27) 1,1-Dichloroethane	8.01	63	257865	21.2417 ug/L	99
29) 2-Butanone	8.56	43	55034	18.6007 ug/L	95
31) 2,2-Dichloropropane	8.79	77	231187	20.5372 ug/L	100
32) cis-1,2-Dichloroethene	8.85	96	119250	20.3162 ug/L	92
33) Chloroform	9.06	83	252173	21.7953 ug/L	98
34) Bromochloromethane	9.29	130	79254	20.6951 ug/L	97
35) Tetrahydrofuran	9.32	42	599	0.2965 ug/L #	55
37) 1,1,1-Trichloroethane	9.60	97	250269	23.0281 ug/L	99
38) Cyclohexane	9.64	56	208152	19.7771 ug/L	99
39) 1,1-Dichloropropene	9.79	75	168831	20.5778 ug/L	98
41) Carbon Tetrachloride	9.94	117	240187	23.4372 ug/L	100
44) 1,2-Dichloroethane	10.09	62	257344	23.5156 ug/L	96
45) Benzene	10.14	78	415466	19.2615 ug/L	96
46) Trichloroethene	10.90	130	124251	20.0396 ug/L	97
47) Methylcyclohexane	10.99	83	129822	18.7278 ug/L	99
48) 1,2-Dichloropropane	11.11	63	125340	20.2589 ug/L	87
49) Bromodichloromethane	11.40	83	201789	23.4020 ug/L	99
51) Dibromomethane	11.48	93	70049	21.7893 ug/L	98
53) 4-Methyl-2-Pentanone	11.74	58	31275	17.3852 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\112210\8M366014.D Vial: 14
Acq On : 22 Nov 2010 15:48 Operator: MES
Sample : L10110608-05 MSD A 826-SPE Inst : HPMS8
Misc : 1,1 STD42467 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 16:11:06 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

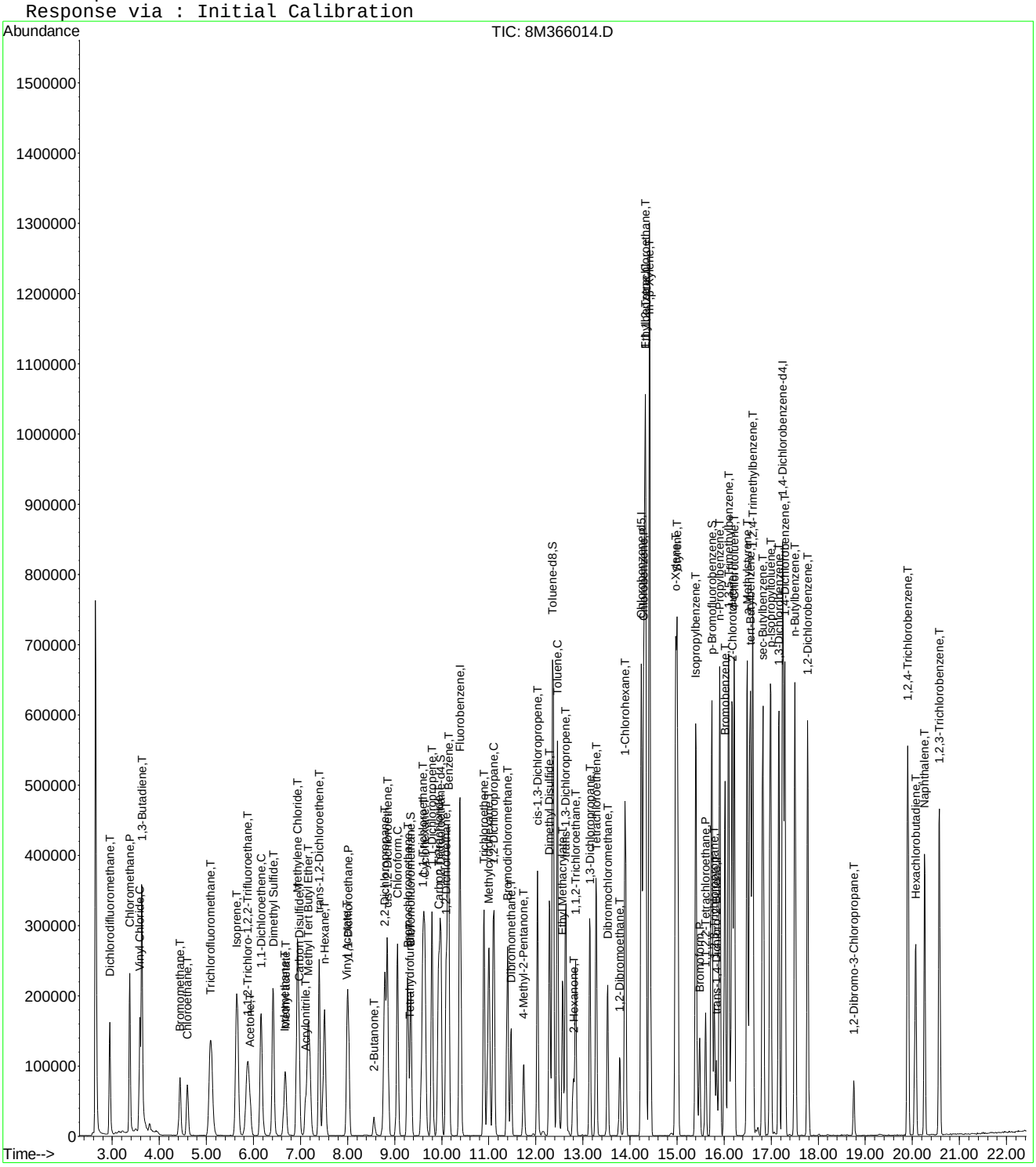
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	cis-1,3-Dichloropropene	12.04	75	192347	20.4318	ug/L		100
55)	Dimethyl Disulfide	12.29	94	185285	20.2401	ug/L		99
58)	Toluene	12.46	91	451151	19.6101	ug/L		100
59)	Ethyl Methacrylate	12.56	69	107919	19.5385	ug/L		93
60)	trans-1,3-Dichloropropene	12.64	75	178522	18.8199	ug/L		99
61)	1,1,2-Trichloroethane	12.84	97	82266	19.2720	ug/L		98
62)	2-Hexanone	12.80	58	31758	18.1467	ug/L		98
63)	1,3-Dichloropropane	13.15	76	157396	19.8108	ug/L		92
64)	Tetrachloroethene	13.29	164	99597	19.0158	ug/L		92
65)	Dibromochloromethane	13.53	129	140912	21.2107	ug/L		99
66)	1,2-Dibromoethane	13.77	107	95186	19.6440	ug/L		98
67)	1-Chlorohexane	13.90	91	132671	18.7780	ug/L		93
68)	Chlorobenzene	14.29	112	332959	19.3951	ug/L		98
69)	1,1,1,2-Tetrachloroethane	14.32	131	145425	21.0848	ug/L		99
70)	Ethylbenzene	14.32	106	177435	20.0214	ug/L		95
71)	m-,p-Xylene	14.42	106	438671	39.9043	ug/L		95
72)	o-Xylene	14.97	106	223877	19.8838	ug/L		96
73)	Styrene	15.00	104	365995	19.9878	ug/L		95
74)	Bromoform	15.48	173	87956	20.0685	ug/L		99
75)	Isopropylbenzene	15.40	105	513421	18.2625	ug/L		98
77)	1,1,2,2-Tetrachloroethane	15.60	83	93918	18.3398	ug/L		98
79)	1,2,3-Trichloropropane	15.79	110	34064	19.4795	ug/L		64
80)	trans-1,4-Dichloro-2-Buten	15.84	53	36171	13.5624	ug/L	#	22
81)	n-Propylbenzene	15.90	91	651029	19.9776	ug/L		99
82)	Bromobenzene	16.02	156	155972	19.4514	ug/L		95
83)	1,3,5-Trimethylbenzene	16.10	105	519621	20.8906	ug/L		97
84)	2-Chlorotoluene	16.17	91	459707	21.8164	ug/L		98
85)	4-Chlorotoluene	16.21	91	414534	19.1351	ug/L		98
86)	a-Methylstyrene	16.49	118	248338	19.0638	ug/L		98
87)	tert-Butylbenzene	16.56	134	96271	19.7900	ug/L		88
88)	1,2,4-Trimethylbenzene	16.61	105	546197	20.7948	ug/L		96
89)	sec-Butylbenzene	16.82	105	563550	20.2975	ug/L		99
90)	p-Isopropyltoluene	16.99	119	505776	20.3123	ug/L		98
91)	1,3-Dichlorobenzene	17.17	146	303214	19.7792	ug/L		98
92)	1,4-Dichlorobenzene	17.29	146	297132	18.4687	ug/L		95
93)	n-Butylbenzene	17.51	91	437463	20.2965	ug/L		98
94)	1,2-Dichlorobenzene	17.78	146	283593	19.6235	ug/L		97
95)	1,2-Dibromo-3-Chloropropan	18.76	75	25157	20.2200	ug/L		95
96)	1,2,4-Trichlorobenzene	19.91	180	197242	18.1467	ug/L		99
97)	Hexachlorobutadiene	20.07	225	68773	18.5365	ug/L		98
98)	Naphthalene	20.26	128	371819	18.0822	ug/L		99
99)	1,2,3-Trichlorobenzene	20.58	180	174303	18.3750	ug/L		100

(#) = qualifier out of range (m) = manual integration
8M366014.D 8260WTR.M Mon Nov 22 16:11:08 2010 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\112210\8M366014.D Vial: 14
Acq On : 22 Nov 2010 15:48 Operator: MES
Sample : L10110608-05 MSD A 826-SPE Inst : HPMS8
Misc : 1,1 STD42467 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 16:11 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\112210\8M366008.D Vial: 8
Acq On : 22 Nov 2010 12:40 Operator: MES
Sample : L10110608-07 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:35:46 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

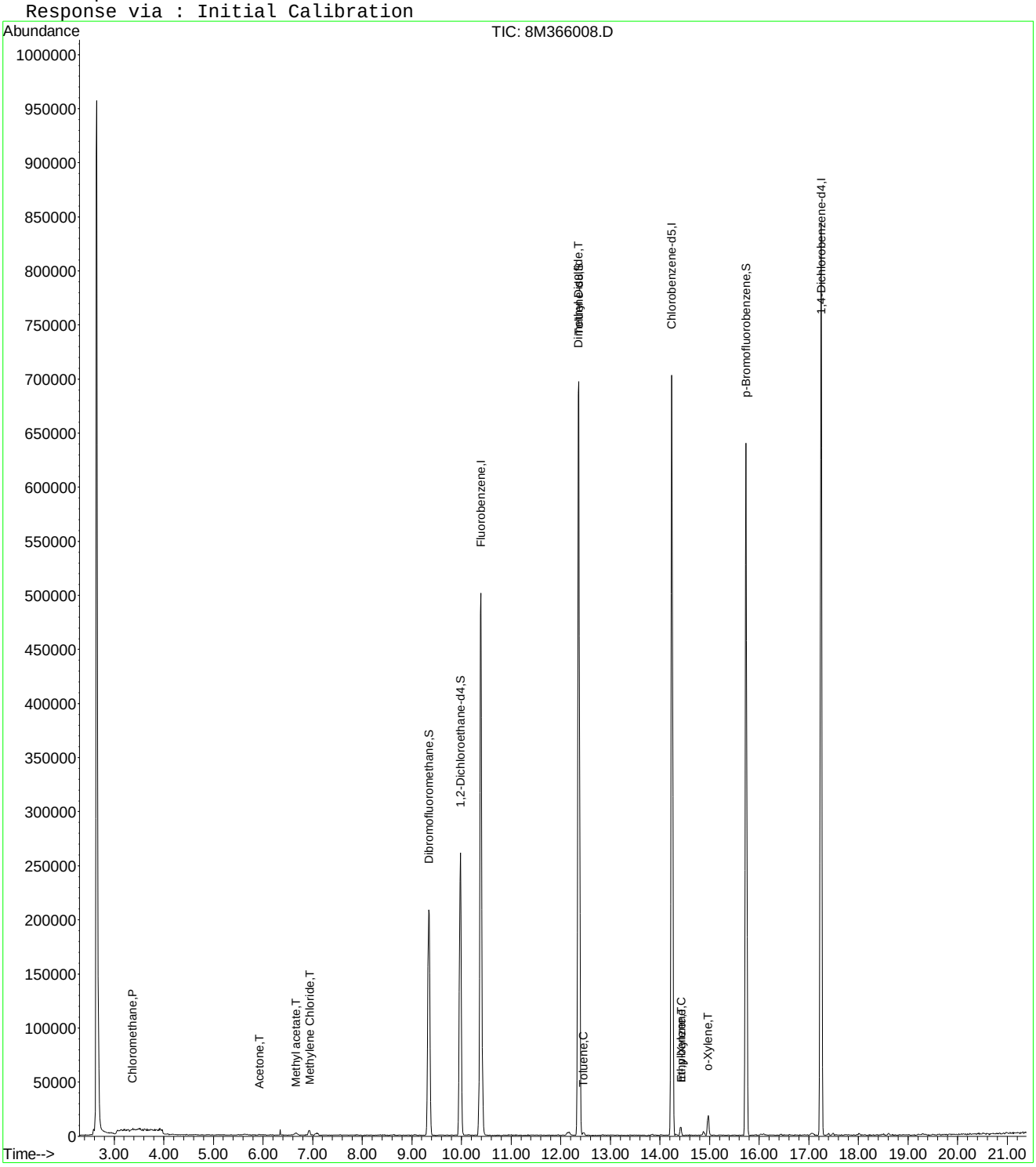
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	523332	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.24	117	423463	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.25	152	250671	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.34	111	183960	26.7810 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 107.12%		
42) 1,2-Dichloroethane-d4	9.98	65	257897	28.1488 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 112.60%		
57) Toluene-d8	12.37	98	554218	25.5366 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.16%		
78) p-Bromofluorobenzene	15.74	95	245664	26.9239 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 107.68%		
Target Compounds					Qvalue
3) Chloromethane	3.37	50	3006	0.2317 ug/L	92
13) Acetone	5.93	43	884	0.4223 ug/L #	58
18) Methyl acetate	6.67	43	4623	0.6594 ug/L #	74
19) Methylene Chloride	6.94	84	2027	0.3221 ug/L	96
55) Dimethyl Disulfide	12.36	94	16620	1.7308 ug/L #	25
58) Toluene	12.46	91	3301	0.1410 ug/L	96
70) Ethylbenzene	14.42	106	3075	0.3410 ug/L	52
71) m-,p-Xylene	14.42	106	3075	0.2749 ug/L	90
72) o-Xylene	14.97	106	6293	0.5492 ug/L	83

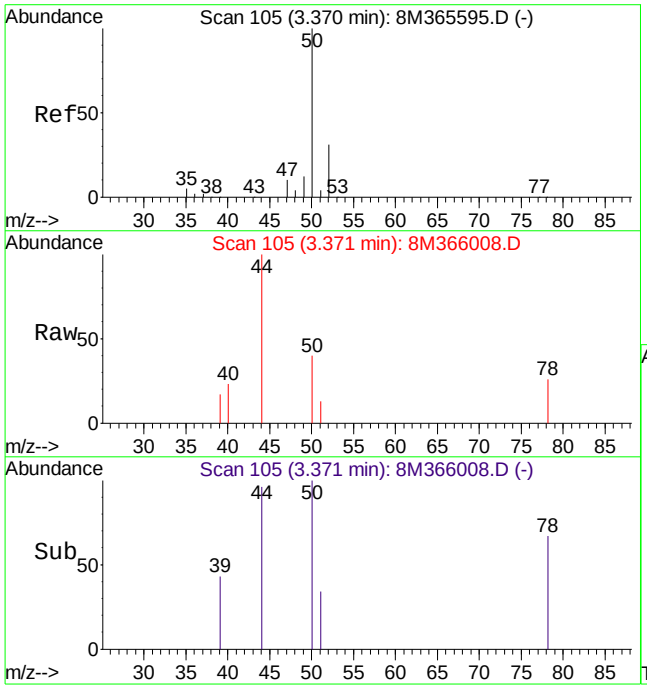
(#) = qualifier out of range (m) = manual integration
8M366008.D 8260WTR.M Mon Nov 29 16:35:48 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\112210\8M366008.D Vial: 8
Acq On : 22 Nov 2010 12:40 Operator: MES
Sample : L10110608-07 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:35 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration

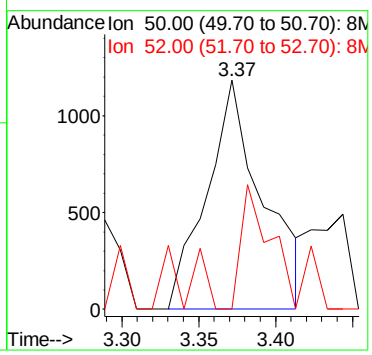


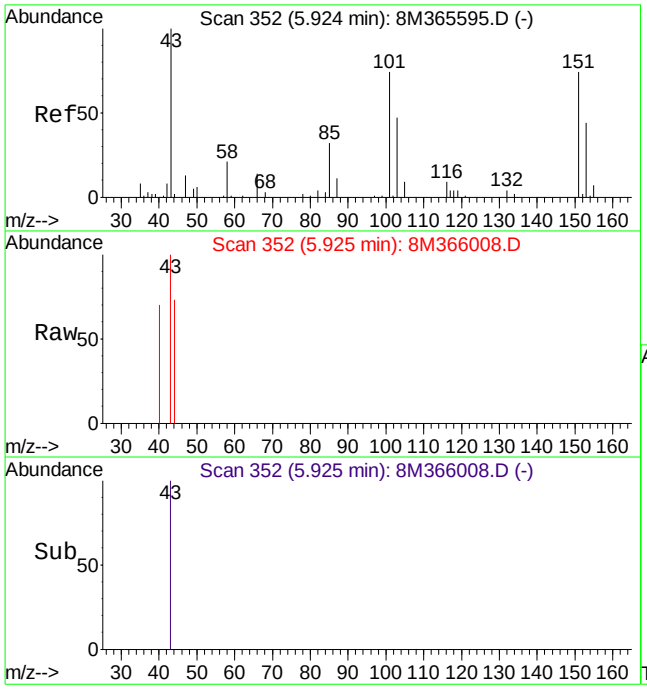


#3
Chloromethane
Concen: 0.23 ug/L
RT: 3.37 min Scan# 105
Delta R.T. 0.00 min
Lab File: 8M366008.D
Acq: 22 Nov 2010 12:40

Tgt Ion: 50 Resp: 3006

Ion	Ratio	Lower	Upper
50	100		
52	35.0	18.3	42.7

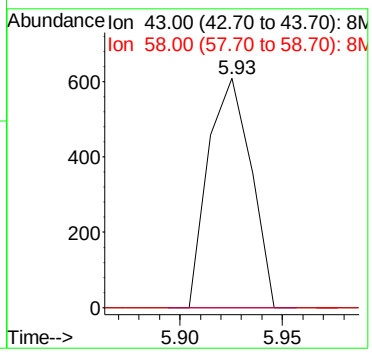


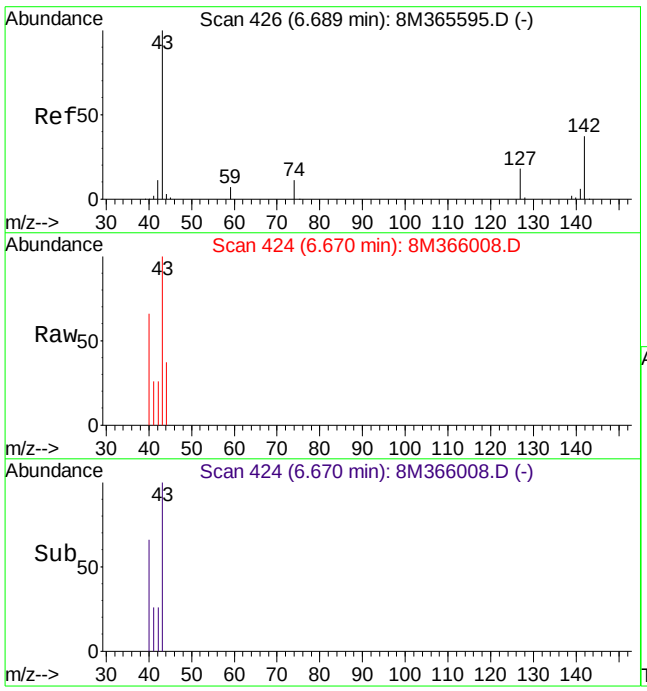


#13
Acetone
Concen: 0.42 ug/L
RT: 5.93 min Scan# 352
Delta R.T. 0.00 min
Lab File: 8M366008.D
Acq: 22 Nov 2010 12:40

Tgt Ion: 43 Resp: 884

Ion	Ratio	Lower	Upper
43	100		
58	0.0	11.4	26.6#

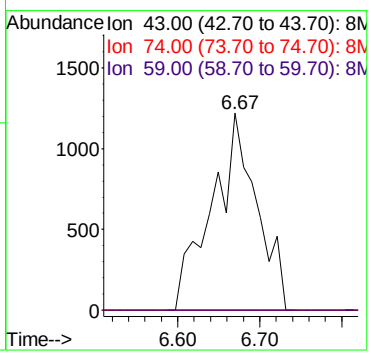


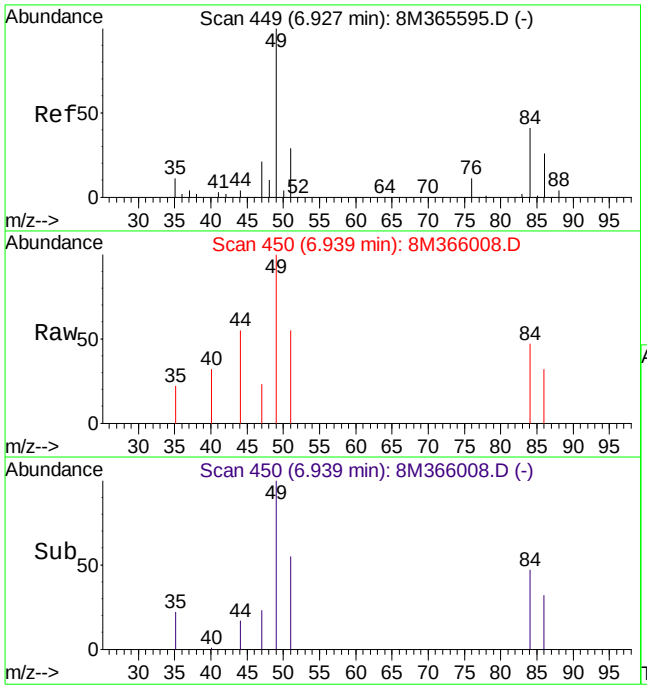


#18
Methyl acetate
Concen: 0.66 ug/L
RT: 6.67 min Scan# 424
Delta R.T. -0.02 min
Lab File: 8M366008.D
Acq: 22 Nov 2010 12:40

Tgt Ion: 43 Resp: 4623

Ion	Ratio	Lower	Upper
43	100		
74	0.0	6.6	15.4#
59	0.0	4.1	9.7#

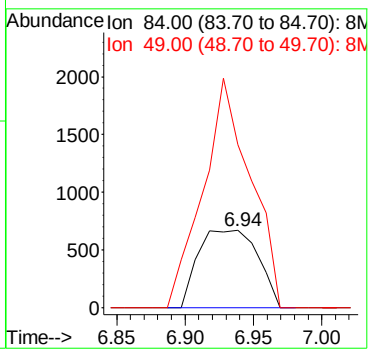


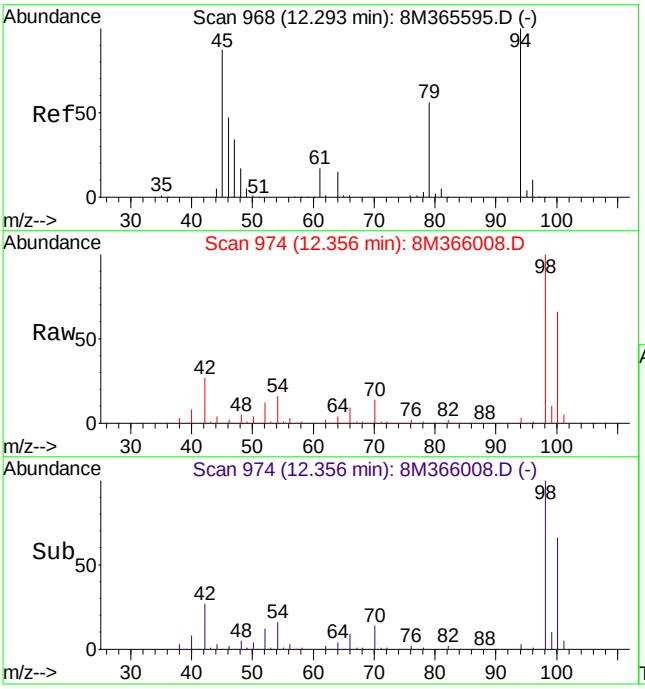


#19
Methylene Chloride
Concen: 0.32 ug/L
RT: 6.94 min Scan# 450
Delta R.T. 0.01 min
Lab File: 8M366008.D
Acq: 22 Nov 2010 12:40

Tgt Ion: 84 Resp: 2027

Ion	Ratio	Lower	Upper
84	100		
49	235.6	145.3	338.9

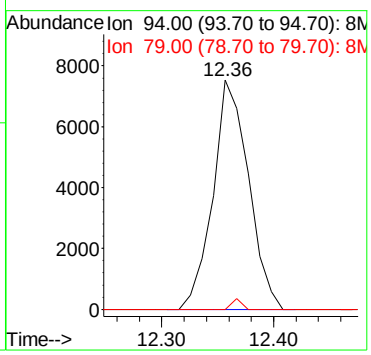


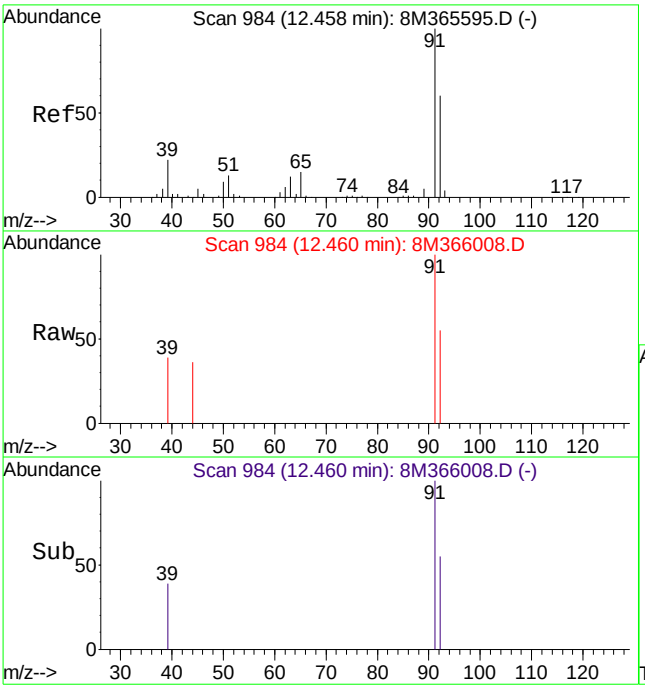


#55
Dimethyl Disulfide
Concen: 1.73 ug/L
RT: 12.36 min Scan# 974
Delta R.T. 0.06 min
Lab File: 8M366008.D
Acq: 22 Nov 2010 12:40

Tgt Ion: 94 Resp: 16620

Ion	Ratio	Lower	Upper
94	100		
79	1.3	33.4	78.0#

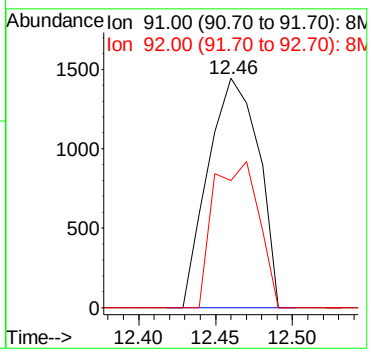


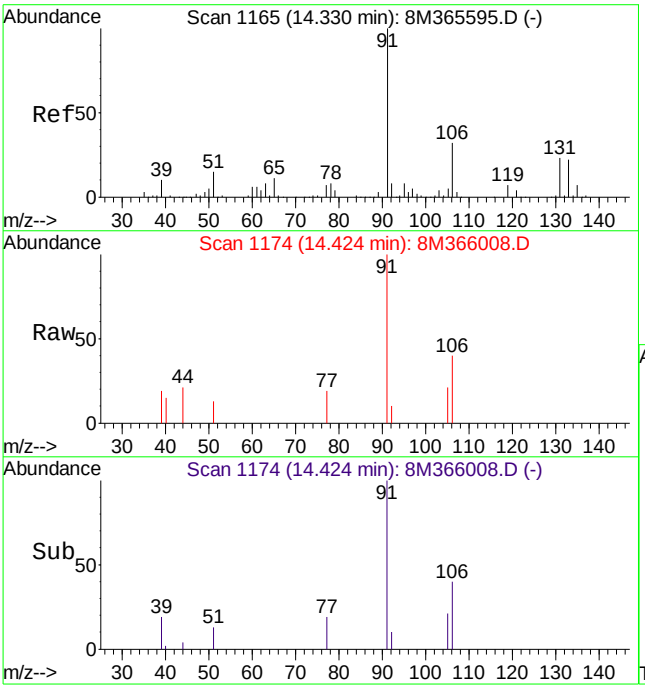


#58
Toluene
Concen: 0.14 ug/L
RT: 12.46 min Scan# 984
Delta R.T. 0.00 min
Lab File: 8M366008.D
Acq: 22 Nov 2010 12:40

Tgt Ion: 91 Resp: 3301

Ion	Ratio	Lower	Upper
91	100		
92	57.2	36.1	84.1

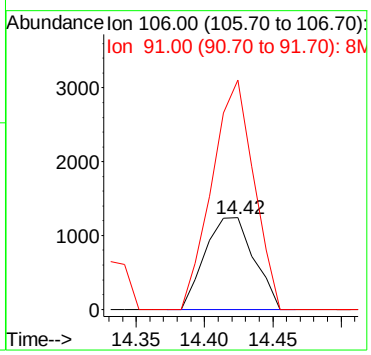


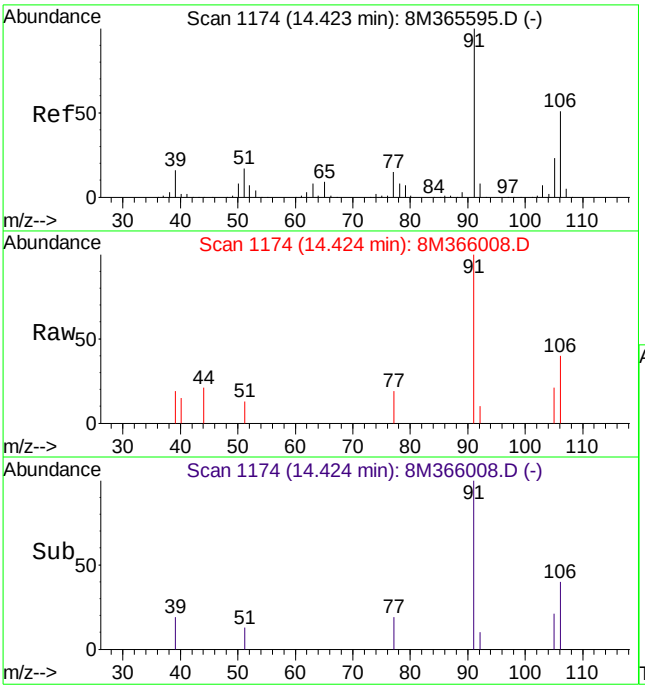


#70
Ethylbenzene
Concen: 0.34 ug/L
RT: 14.42 min Scan# 1174
Delta R.T. 0.09 min
Lab File: 8M366008.D
Acq: 22 Nov 2010 12:40

Tgt Ion:106 Resp: 3075

Ion	Ratio	Lower	Upper
106	100		
91	214.9	186.7	435.7

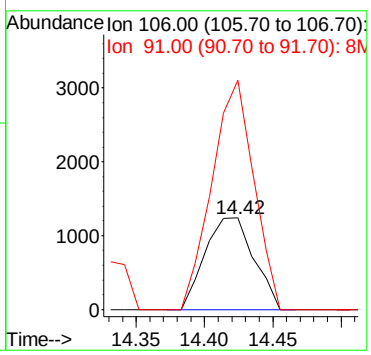


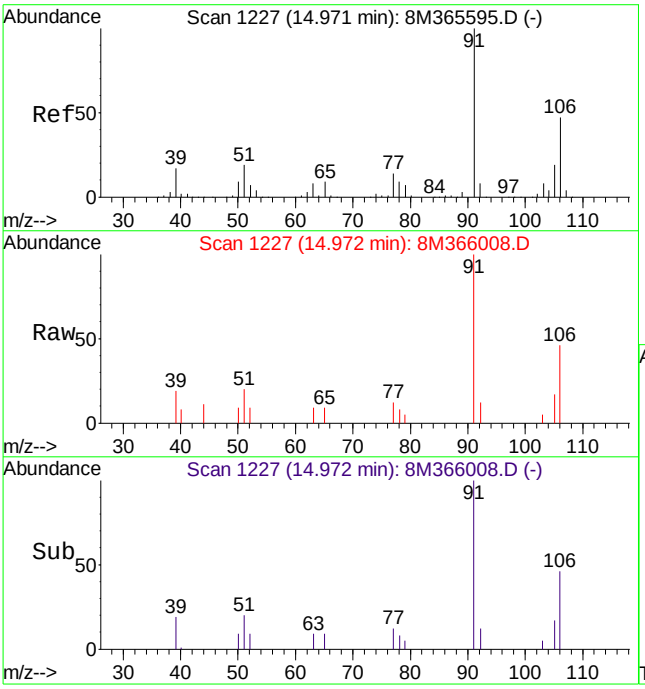


#71
m-,p-Xylene
Concen: 0.27 ug/L
RT: 14.42 min Scan# 1174
Delta R.T. 0.00 min
Lab File: 8M366008.D
Acq: 22 Nov 2010 12:40

Tgt Ion:106 Resp: 3075

Ion	Ratio	Lower	Upper
106	100		
91	214.9	120.1	280.1

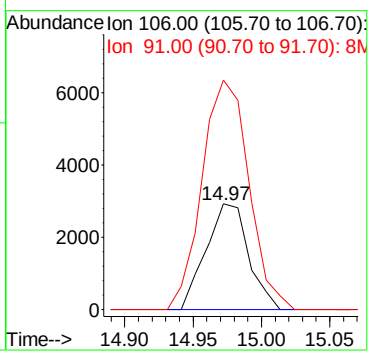




#72
o-Xylene
Concen: 0.55 ug/L
RT: 14.97 min Scan# 1227
Delta R.T. 0.00 min
Lab File: 8M366008.D
Acq: 22 Nov 2010 12:40

Tgt Ion:106 Resp: 6293

Ion	Ratio	Lower	Upper
106	100		
91	239.7	127.6	297.6



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\112210\8M366009.D Vial: 9
Acq On : 22 Nov 2010 13:11 Operator: MES
Sample : L10110608-09 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:35:52 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

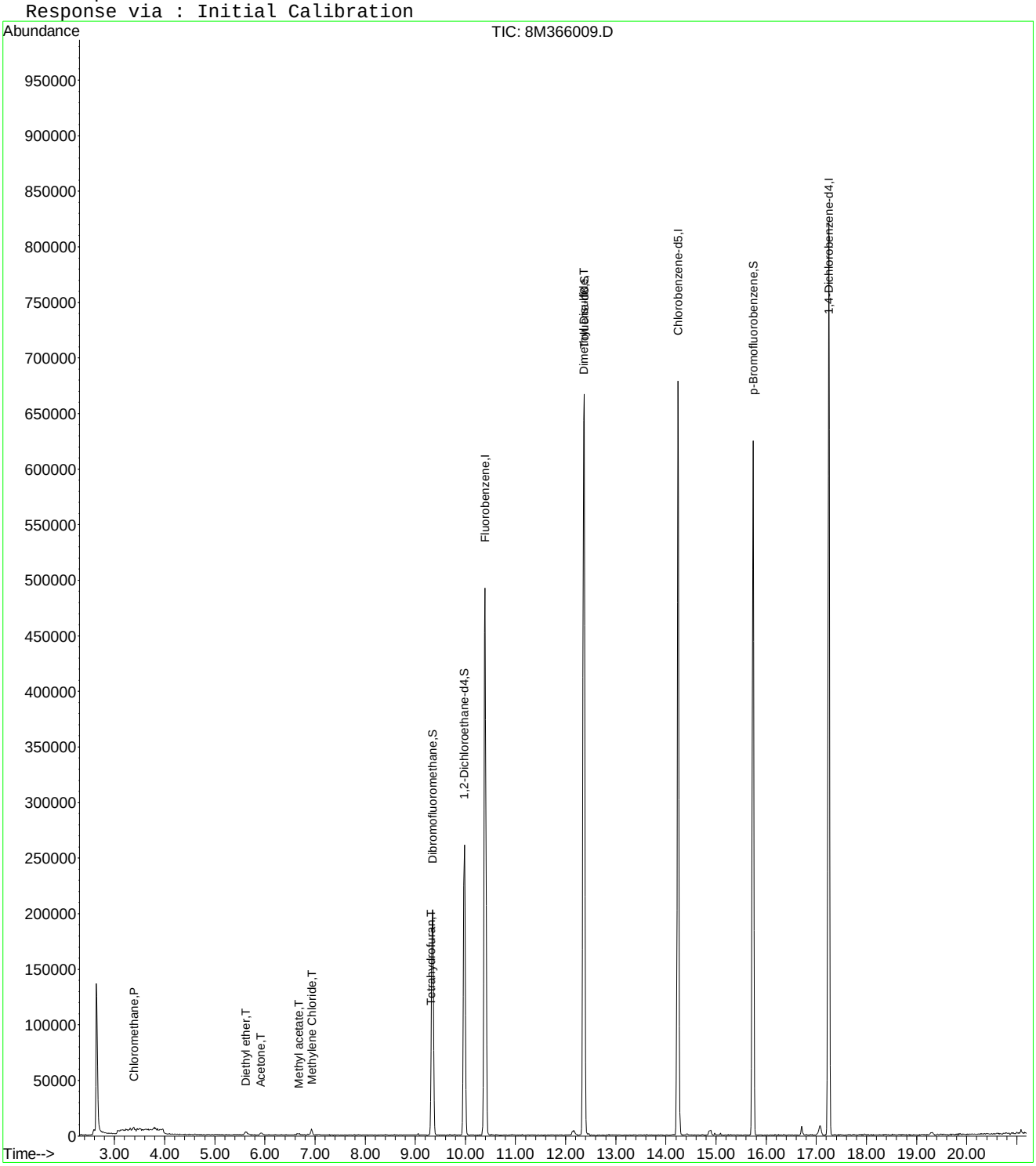
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	503599	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.24	117	407424	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.25	152	247934	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.34	111	175640	26.5717 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 106.28%		
42) 1,2-Dichloroethane-d4	9.98	65	252359	28.6236 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 114.48%		
57) Toluene-d8	12.37	98	530036	25.3838 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.52%		
78) p-Bromofluorobenzene	15.74	95	235554	26.1009 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.40%		
Target Compounds					Qvalue
3) Chloromethane	3.38	50	3870	0.3100 ug/L #	77
9) Diethyl ether	5.62	59	2395	0.4571 ug/L #	8
13) Acetone	5.91	43	5208	2.5853 ug/L #	67
18) Methyl acetate	6.68	43	2272	0.3368 ug/L #	74
19) Methylene Chloride	6.94	84	1910	0.3154 ug/L #	32
35) Tetrahydrofuran	9.32	42	458	0.2246 ug/L #	55
55) Dimethyl Disulfide	12.36	94	17176	1.8588 ug/L #	23

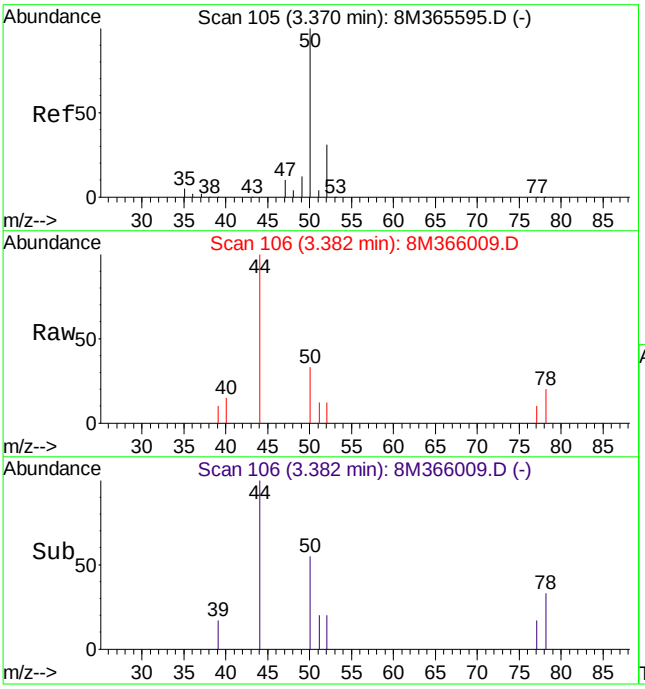
(#) = qualifier out of range (m) = manual integration
8M366009.D 8260WTR.M Mon Nov 29 16:35:54 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\112210\8M366009.D Vial: 9
Acq On : 22 Nov 2010 13:11 Operator: MES
Sample : L10110608-09 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:35 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration

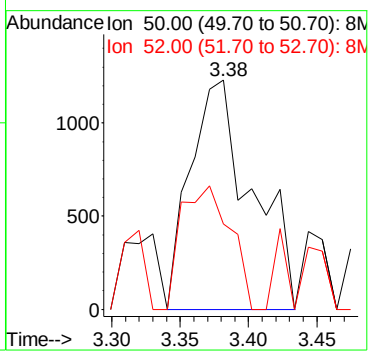


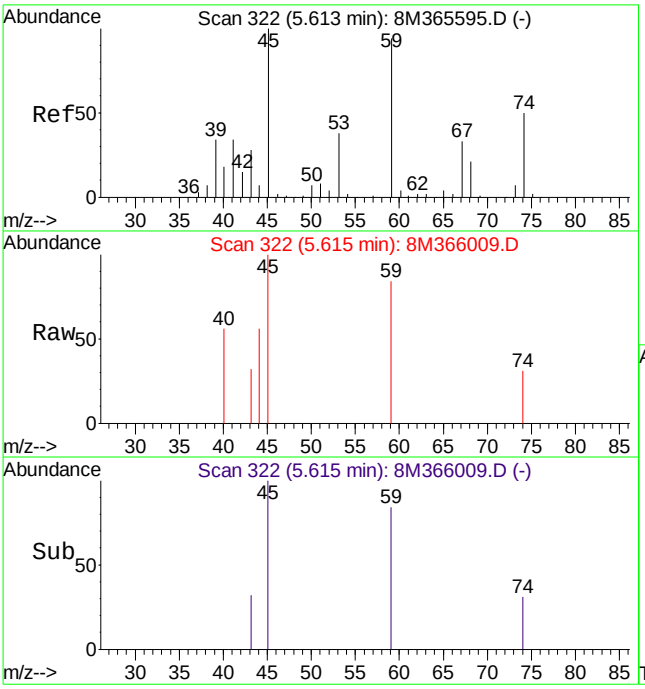


#3
Chloromethane
Concen: 0.31 ug/L
RT: 3.38 min Scan# 106
Delta R.T. 0.01 min
Lab File: 8M366009.D
Acq: 22 Nov 2010 13:11

Tgt Ion: 50 Resp: 3870

Ion	Ratio	Lower	Upper
50	100		
52	42.9	18.3	42.7#

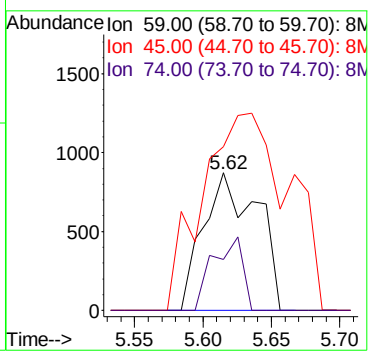


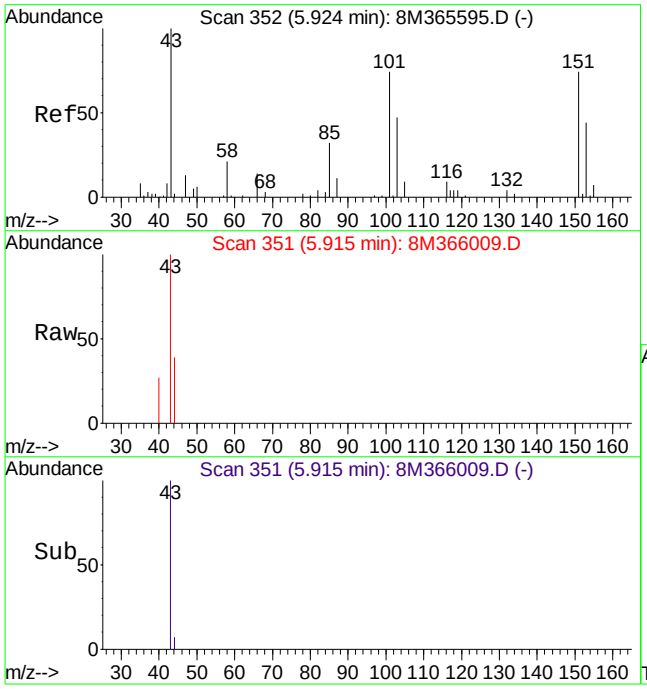


#9
Diethyl ether
Concen: 0.46 ug/L
RT: 5.62 min Scan# 322
Delta R.T. 0.00 min
Lab File: 8M366009.D
Acq: 22 Nov 2010 13:11

Tgt Ion: 59 Resp: 2395

Ion	Ratio	Lower	Upper
59	100		
45	229.0	62.6	146.2#
74	29.5	31.6	73.6#

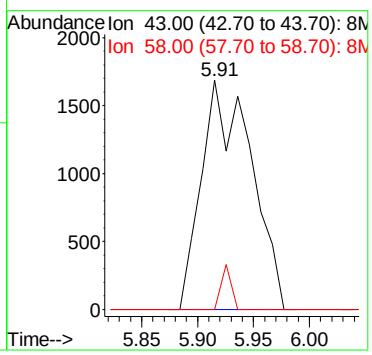


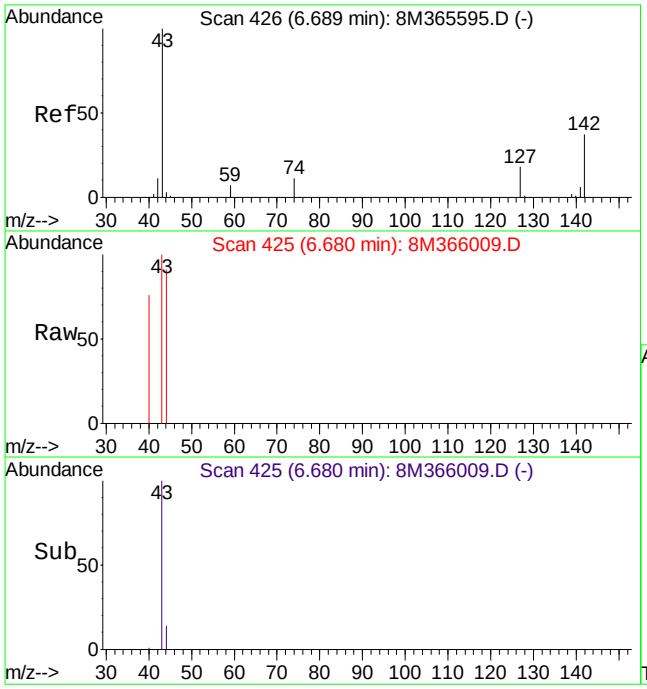


#13
Acetone
Concen: 2.59 ug/L
RT: 5.91 min Scan# 351
Delta R.T. -0.01 min
Lab File: 8M366009.D
Acq: 22 Nov 2010 13:11

Tgt Ion: 43 Resp: 5208

Ion	Ratio	Lower	Upper
43	100		
58	3.9	11.4	26.6#

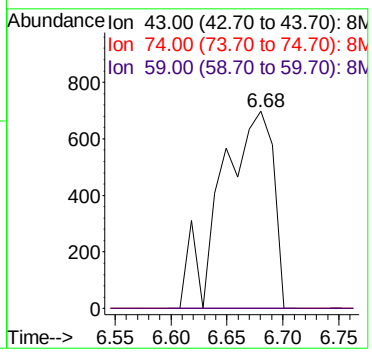


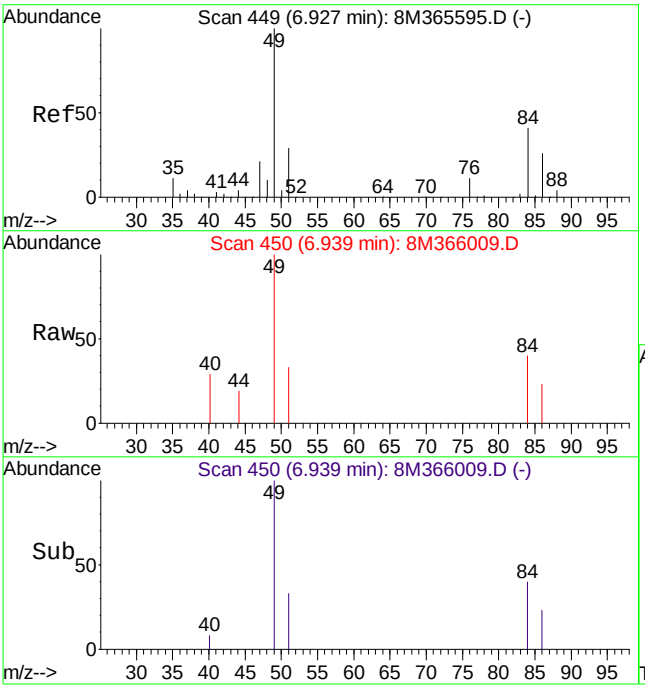


#18
Methyl acetate
Concen: 0.34 ug/L
RT: 6.68 min Scan# 425
Delta R.T. -0.01 min
Lab File: 8M366009.D
Acq: 22 Nov 2010 13:11

Tgt Ion: 43 Resp: 2272

Ion	Ratio	Lower	Upper
43	100		
74	0.0	6.6	15.4#
59	0.0	4.1	9.7#

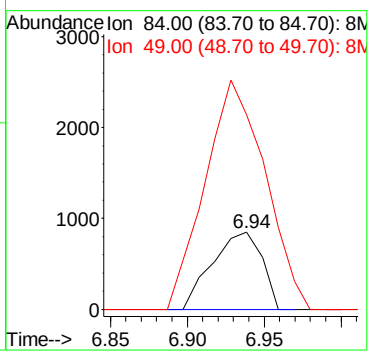


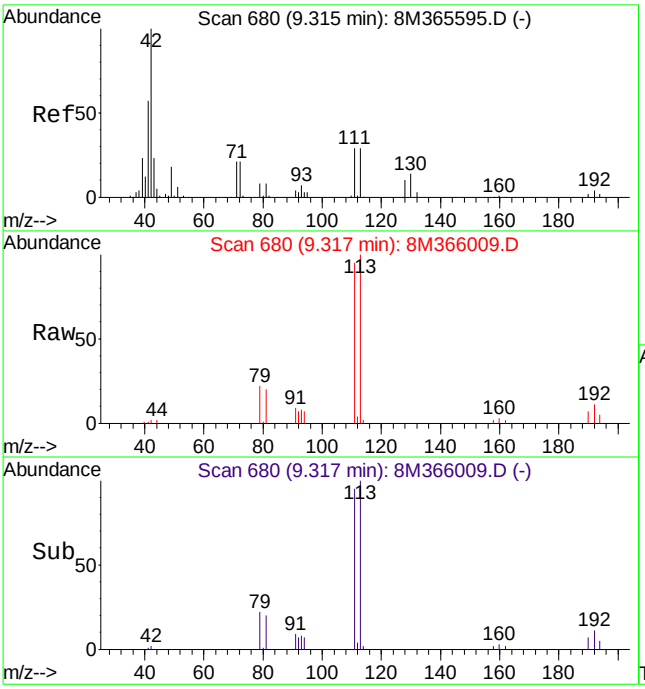


#19
Methylene Chloride
Concen: 0.32 ug/L
RT: 6.94 min Scan# 450
Delta R.T. 0.01 min
Lab File: 8M366009.D
Acq: 22 Nov 2010 13:11

Tgt Ion: 84 Resp: 1910

Ion	Ratio	Lower	Upper
84	100		
49	358.8	145.3	338.9#

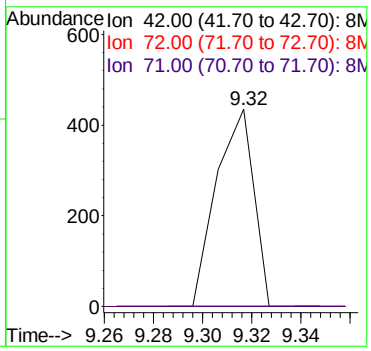


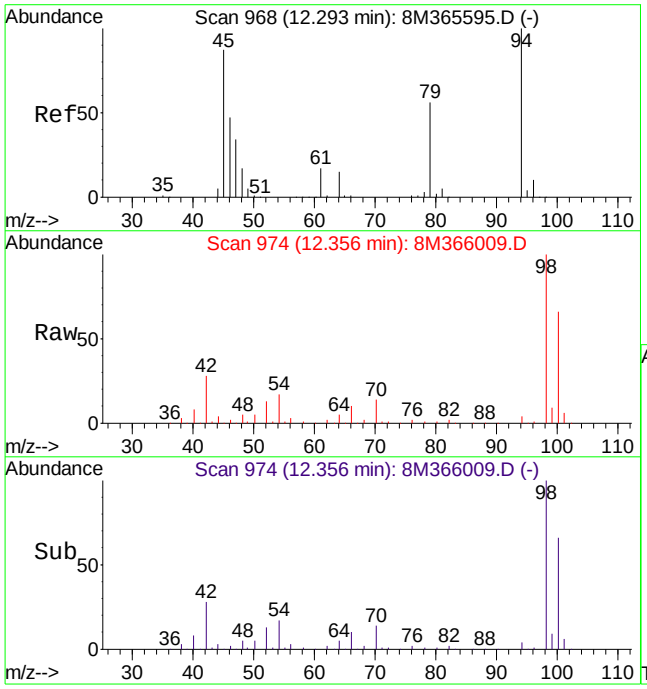


#35
Tetrahydrofuran
Concen: 0.22 ug/L
RT: 9.32 min Scan# 680
Delta R.T. 0.00 min
Lab File: 8M366009.D
Acq: 22 Nov 2010 13:11

Tgt Ion: 42 Resp: 458

Ion	Ratio	Lower	Upper
42	100		
72	0.0	12.7	29.5#
71	0.0	12.4	29.0#

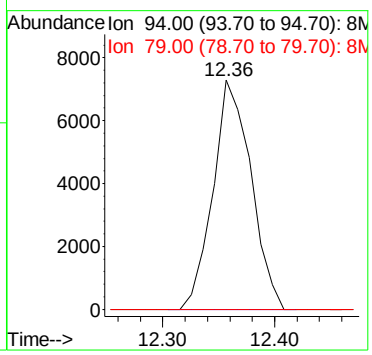




#55
Dimethyl Disulfide
Concen: 1.86 ug/L
RT: 12.36 min Scan# 974
Delta R.T. 0.06 min
Lab File: 8M366009.D
Acq: 22 Nov 2010 13:11

Tgt Ion: 94 Resp: 17176

Ion	Ratio	Lower	Upper
94	100		
79	0.0	33.4	78.0#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\112210\8M366010.D Vial: 10
Acq On : 22 Nov 2010 13:42 Operator: MES
Sample : L10110608-11 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:35:57 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

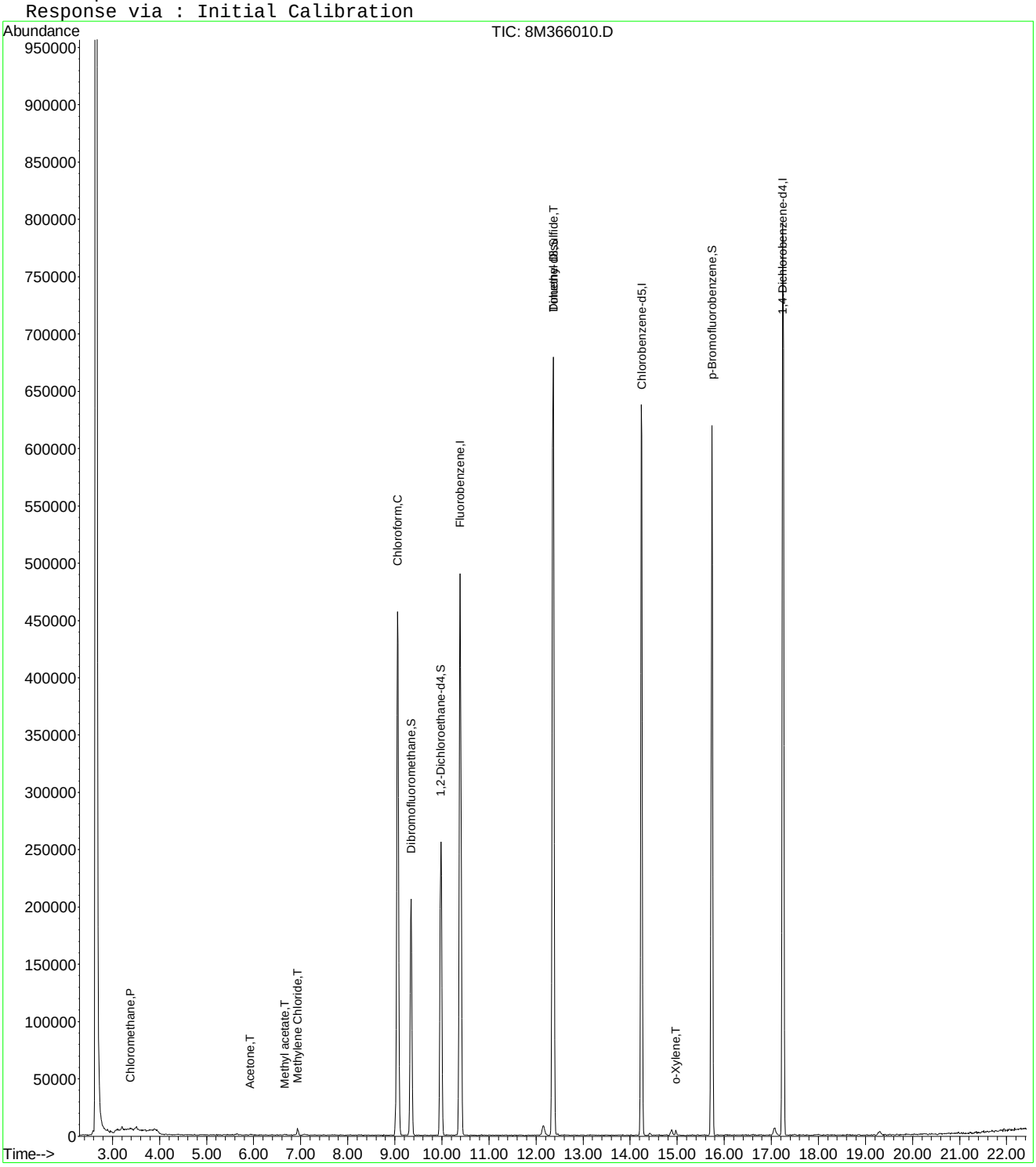
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	486374	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.25	117	403502	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.24	152	241021	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.35	111	174523	27.3378 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 109.36%		
42) 1,2-Dichloroethane-d4	9.98	65	250071	29.3686 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 117.48%		
57) Toluene-d8	12.36	98	523689	25.3236 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.28%		
78) p-Bromofluorobenzene	15.73	95	231597	26.3985 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.60%		
Target Compounds					Qvalue
3) Chloromethane	3.38	50	2721	0.2257 ug/L	85
13) Acetone	5.92	43	1513	0.7777 ug/L #	58
18) Methyl acetate	6.66	43	987	0.1515 ug/L #	74
19) Methylene Chloride	6.93	84	1899	0.3247 ug/L	57
33) Chloroform	9.06	83	434153	38.4912 ug/L	99
55) Dimethyl Disulfide	12.36	94	16437	1.8418 ug/L #	23
72) o-Xylene	14.97	106	2241	0.2053 ug/L	85

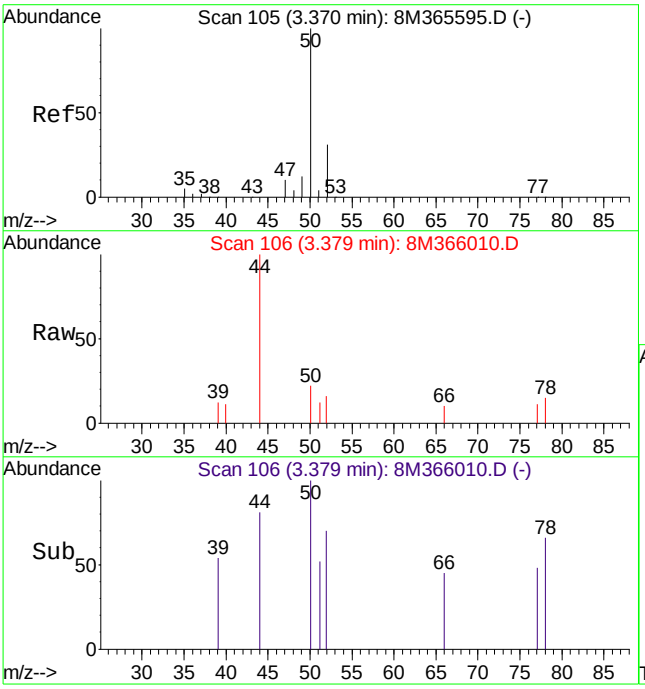
(#) = qualifier out of range (m) = manual integration
8M366010.D 8260WTR.M Mon Nov 29 16:36:00 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\112210\8M366010.D Vial: 10
Acq On : 22 Nov 2010 13:42 Operator: MES
Sample : L10110608-11 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:35 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration

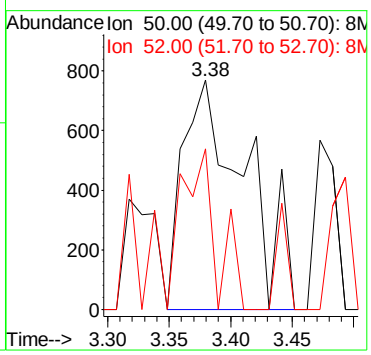


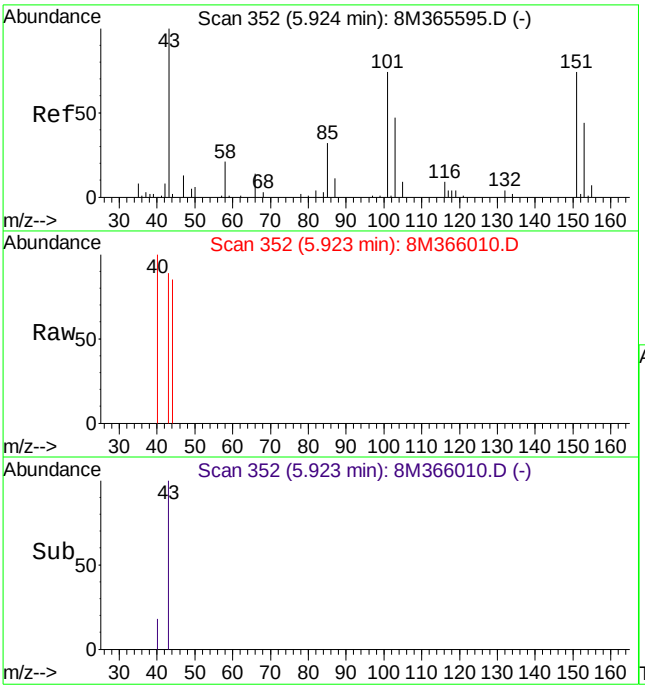


#3
Chloromethane
Concen: 0.23 ug/L
RT: 3.38 min Scan# 106
Delta R.T. 0.01 min
Lab File: 8M366010.D
Acq: 22 Nov 2010 13:42

Tgt Ion: 50 Resp: 2721

Ion	Ratio	Lower	Upper
50	100		
52	38.9	18.3	42.7

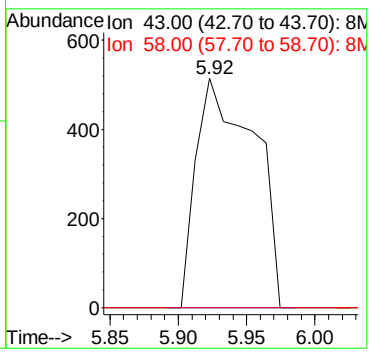


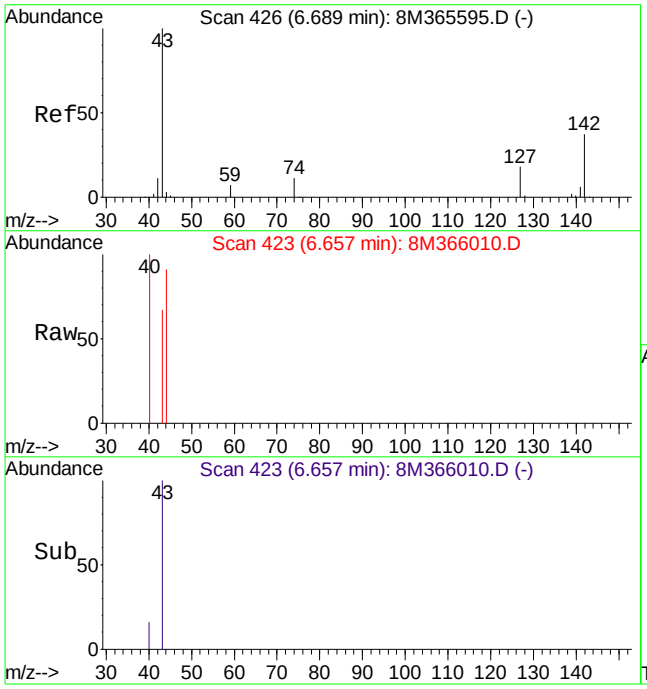


#13
Acetone
Concen: 0.78 ug/L
RT: 5.92 min Scan# 352
Delta R.T. -0.00 min
Lab File: 8M366010.D
Acq: 22 Nov 2010 13:42

Tgt Ion: 43 Resp: 1513

Ion	Ratio	Lower	Upper
43	100		
58	0.0	11.4	26.6#

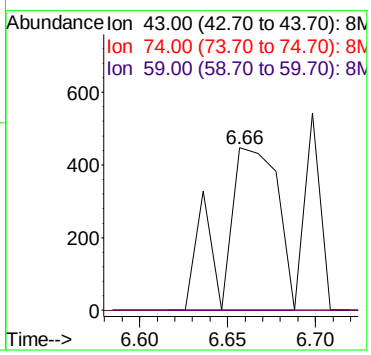


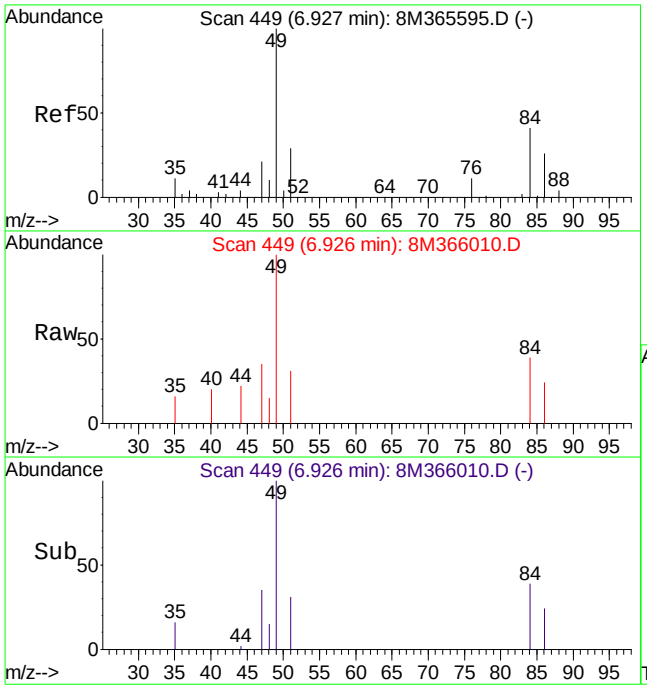


#18
Methyl acetate
Concen: 0.15 ug/L
RT: 6.66 min Scan# 423
Delta R.T. -0.03 min
Lab File: 8M366010.D
Acq: 22 Nov 2010 13:42

Tgt Ion: 43 Resp: 987

Ion	Ratio	Lower	Upper
43	100		
74	0.0	6.6	15.4#
59	0.0	4.1	9.7#

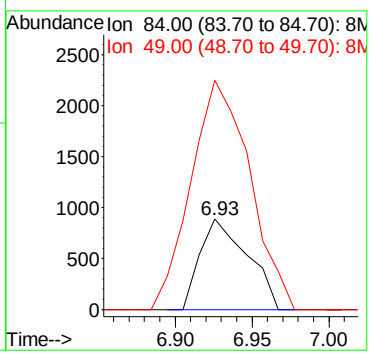


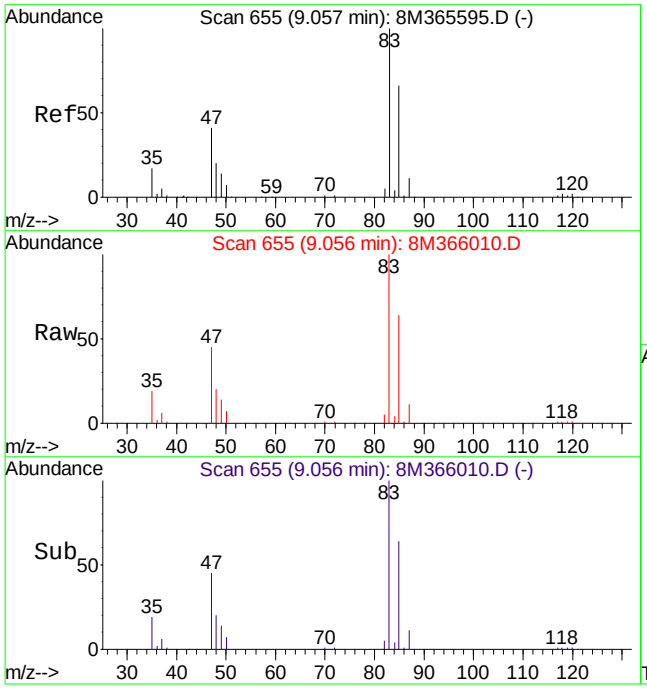


#19
Methylene Chloride
Concen: 0.32 ug/L
RT: 6.93 min Scan# 449
Delta R.T. -0.00 min
Lab File: 8M366010.D
Acq: 22 Nov 2010 13:42

Tgt Ion: 84 Resp: 1899

Ion	Ratio	Lower	Upper
84	100		
49	315.1	145.3	338.9

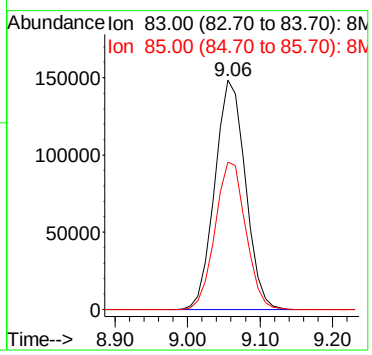


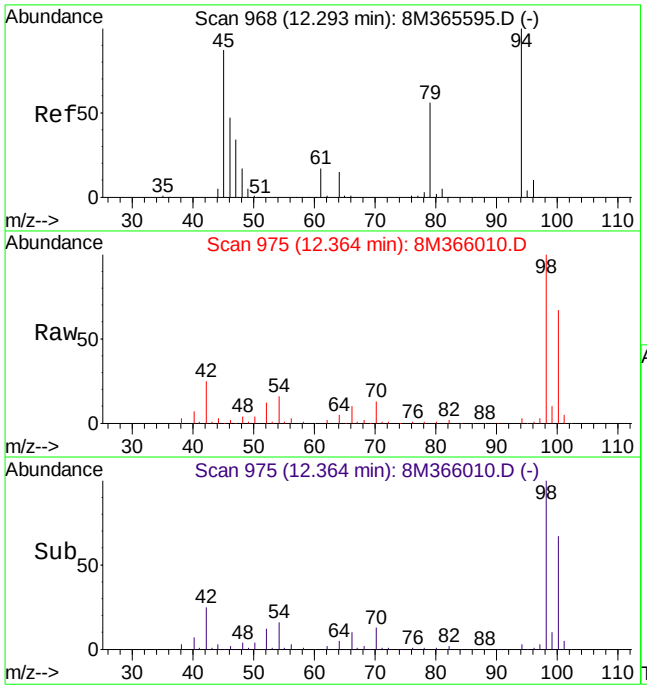


#33
Chloroform
Concen: 38.49 ug/L
RT: 9.06 min Scan# 655
Delta R.T. -0.00 min
Lab File: 8M366010.D
Acq: 22 Nov 2010 13:42

Tgt Ion: 83 Resp: 434153

Ion	Ratio	Lower	Upper
83	100		
85	64.3	39.1	91.1

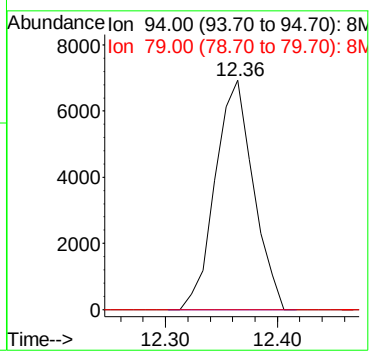


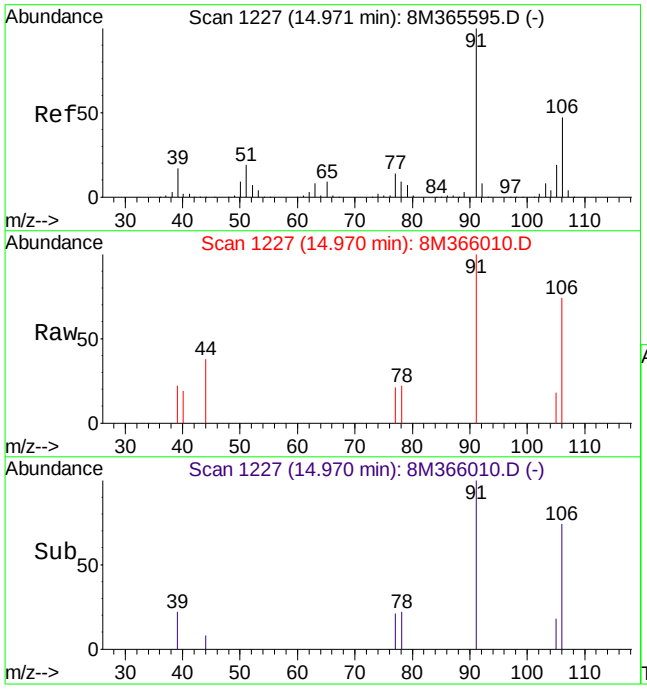


#55
Dimethyl Disulfide
Concen: 1.84 ug/L
RT: 12.36 min Scan# 975
Delta R.T. 0.07 min
Lab File: 8M366010.D
Acq: 22 Nov 2010 13:42

Tgt Ion: 94 Resp: 16437

Ion	Ratio	Lower	Upper
94	100		
79	0.0	33.4	78.0#

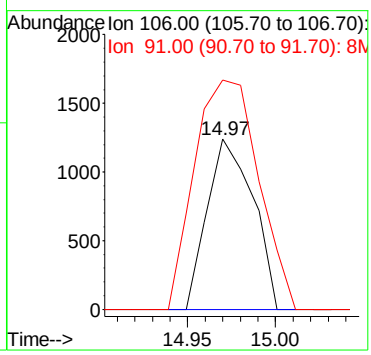




#72
o-Xylene
Concen: 0.21 ug/L
RT: 14.97 min Scan# 1227
Delta R.T. -0.00 min
Lab File: 8M366010.D
Acq: 22 Nov 2010 13:42

Tgt Ion:106 Resp: 2241

Ion	Ratio	Lower	Upper
106	100		
91	189.0	127.6	297.6



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\112210\8M366011.D Vial: 11
Acq On : 22 Nov 2010 14:14 Operator: MES
Sample : L10110608-13 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:36:03 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

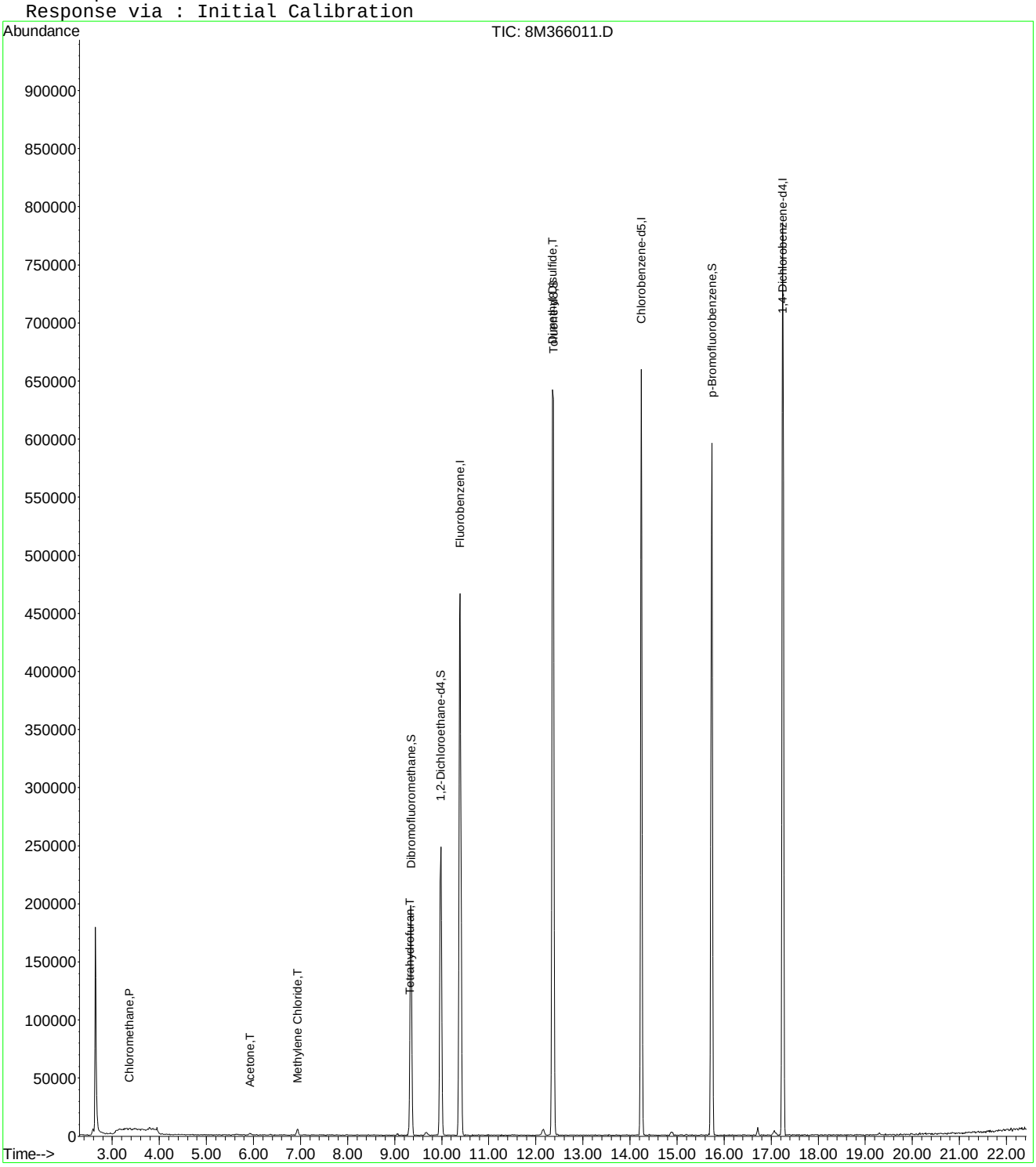
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	483039	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.24	117	395258	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.25	152	237963	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.35	111	173262	27.3277 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 109.32%		
42) 1,2-Dichloroethane-d4	9.98	65	241531	28.5615 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 114.24%		
57) Toluene-d8	12.37	98	513089	25.3285 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.32%		
78) p-Bromofluorobenzene	15.74	95	229800	26.5303 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 106.12%		
Target Compounds					Qvalue
3) Chloromethane	3.36	50	2749	0.2296 ug/L #	64
13) Acetone	5.93	43	3312	1.7141 ug/L #	58
19) Methylene Chloride	6.93	84	2046	0.3522 ug/L	50
35) Tetrahydrofuran	9.32	42	1054	0.5389 ug/L #	55
55) Dimethyl Disulfide	12.36	94	15498	1.7486 ug/L #	23

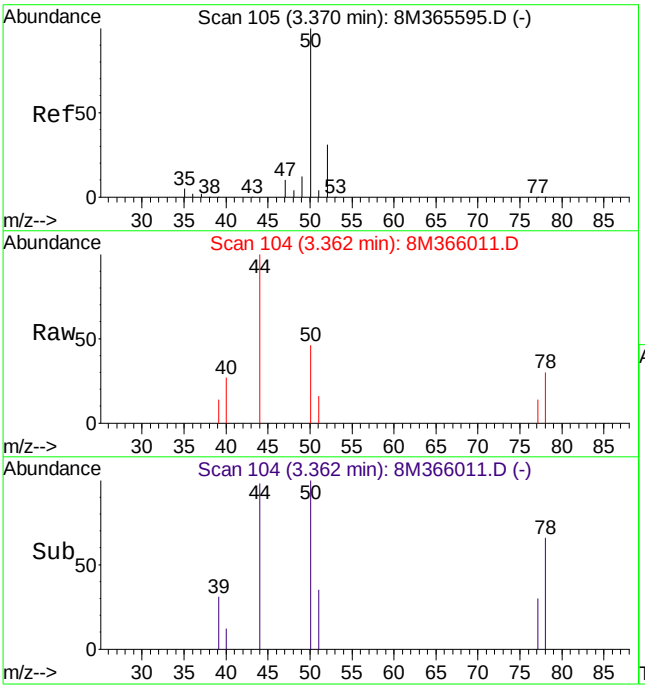
(#) = qualifier out of range (m) = manual integration
8M366011.D 8260WTR.M Mon Nov 29 16:36:05 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\112210\8M366011.D Vial: 11
Acq On : 22 Nov 2010 14:14 Operator: MES
Sample : L10110608-13 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:36 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration

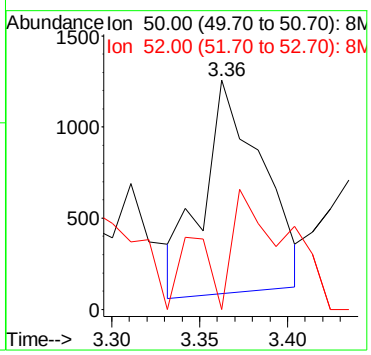


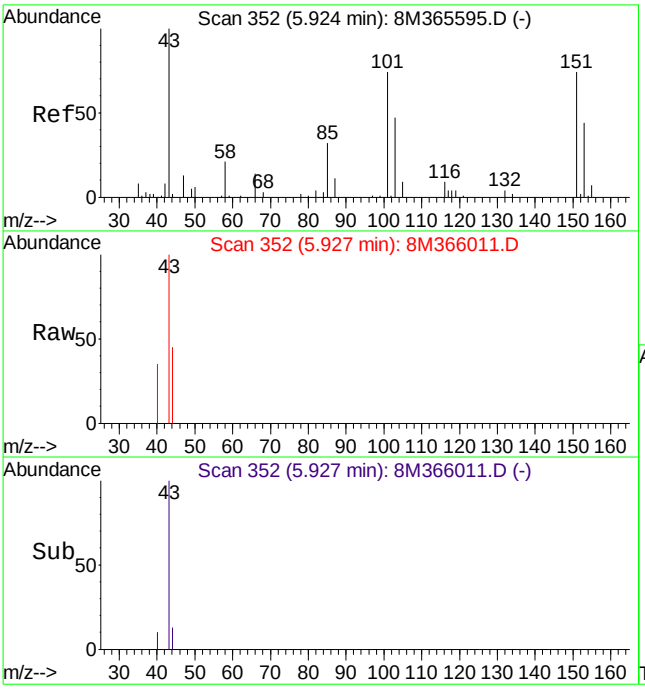


#3
Chloromethane
Concen: 0.23 ug/L
RT: 3.36 min Scan# 104
Delta R.T. -0.01 min
Lab File: 8M366011.D
Acq: 22 Nov 2010 14:14

Tgt Ion: 50 Resp: 2749

Ion	Ratio	Lower	Upper
50	100		
52	50.3	18.3	42.7#

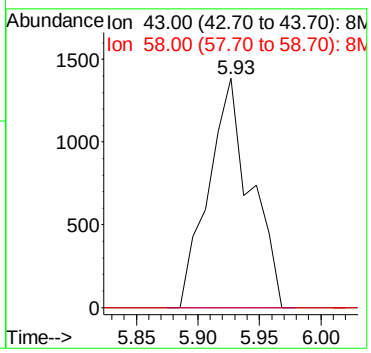


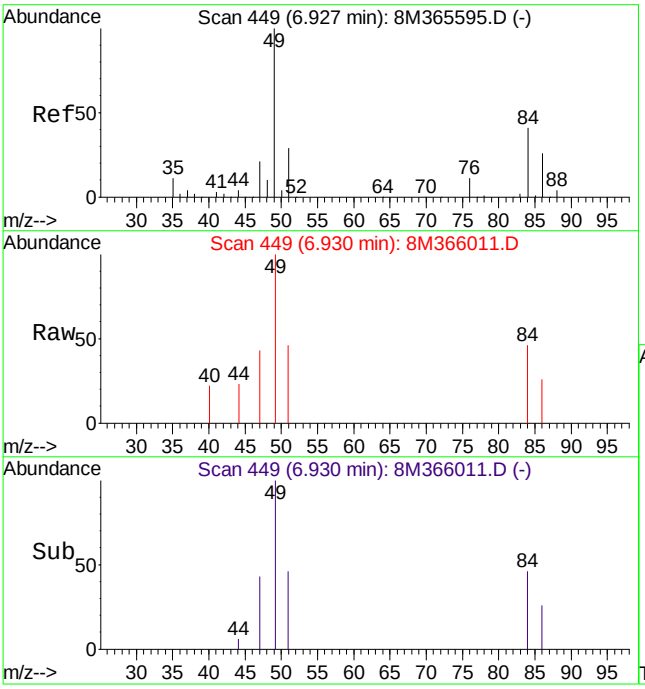


#13
Acetone
Concen: 1.71 ug/L
RT: 5.93 min Scan# 352
Delta R.T. 0.00 min
Lab File: 8M366011.D
Acq: 22 Nov 2010 14:14

Tgt Ion: 43 Resp: 3312

Ion	Ratio	Lower	Upper
43	100		
58	0.0	11.4	26.6#

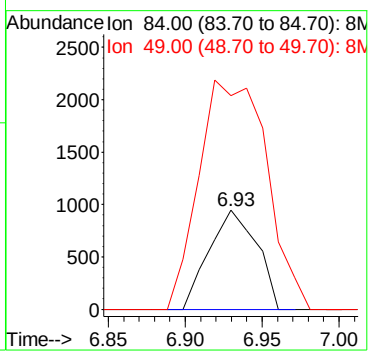


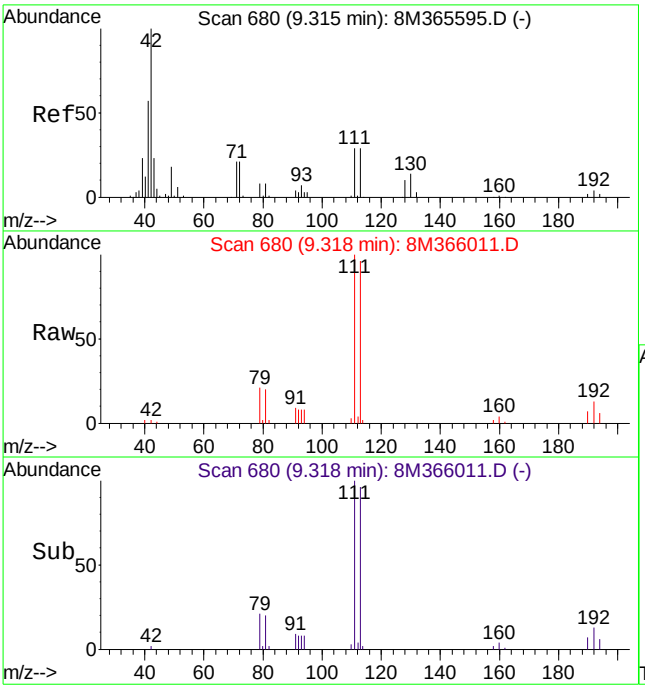


#19
Methylene Chloride
Concen: 0.35 ug/L
RT: 6.93 min Scan# 449
Delta R.T. 0.00 min
Lab File: 8M366011.D
Acq: 22 Nov 2010 14:14

Tgt Ion: 84 Resp: 2046

Ion	Ratio	Lower	Upper
84	100		
49	326.8	145.3	338.9

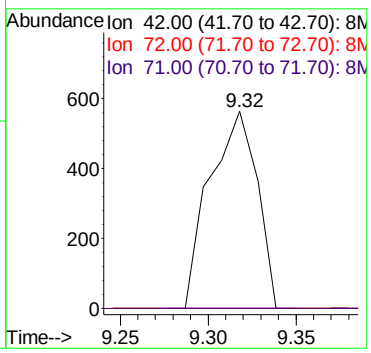


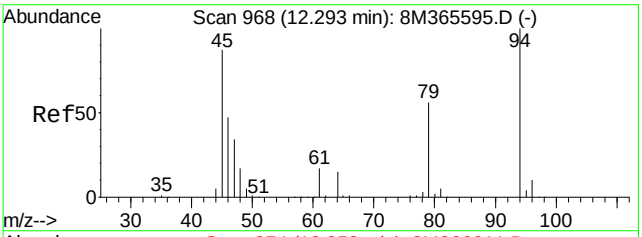


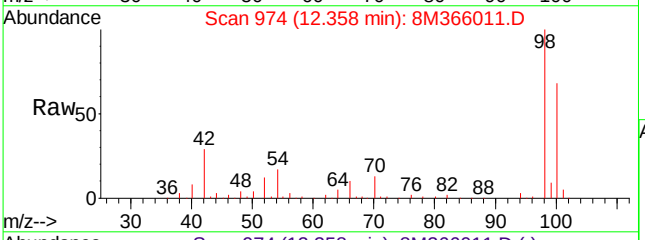
#35
Tetrahydrofuran
Concen: 0.54 ug/L
RT: 9.32 min Scan# 680
Delta R.T. 0.00 min
Lab File: 8M366011.D
Acq: 22 Nov 2010 14:14

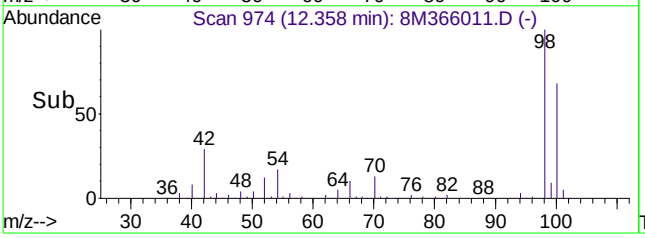
Tgt Ion: 42 Resp: 1054

Ion	Ratio	Lower	Upper
42	100		
72	0.0	12.7	29.5#
71	0.0	12.4	29.0#





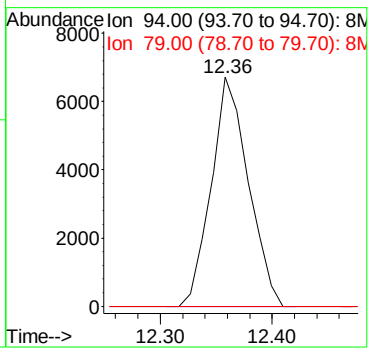




#55
Dimethyl Disulfide
Concen: 1.75 ug/L
RT: 12.36 min Scan# 974
Delta R.T. 0.06 min
Lab File: 8M366011.D
Acq: 22 Nov 2010 14:14

Tgt Ion: 94 Resp: 15498

Ion	Ratio	Lower	Upper
94	100		
79	0.0	33.4	78.0#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\112210\8M366007.D Vial: 7
Acq On : 22 Nov 2010 12:08 Operator: MES
Sample : L10110608-15 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:35:41 2010 Quant Results File: 8260WTR.RES

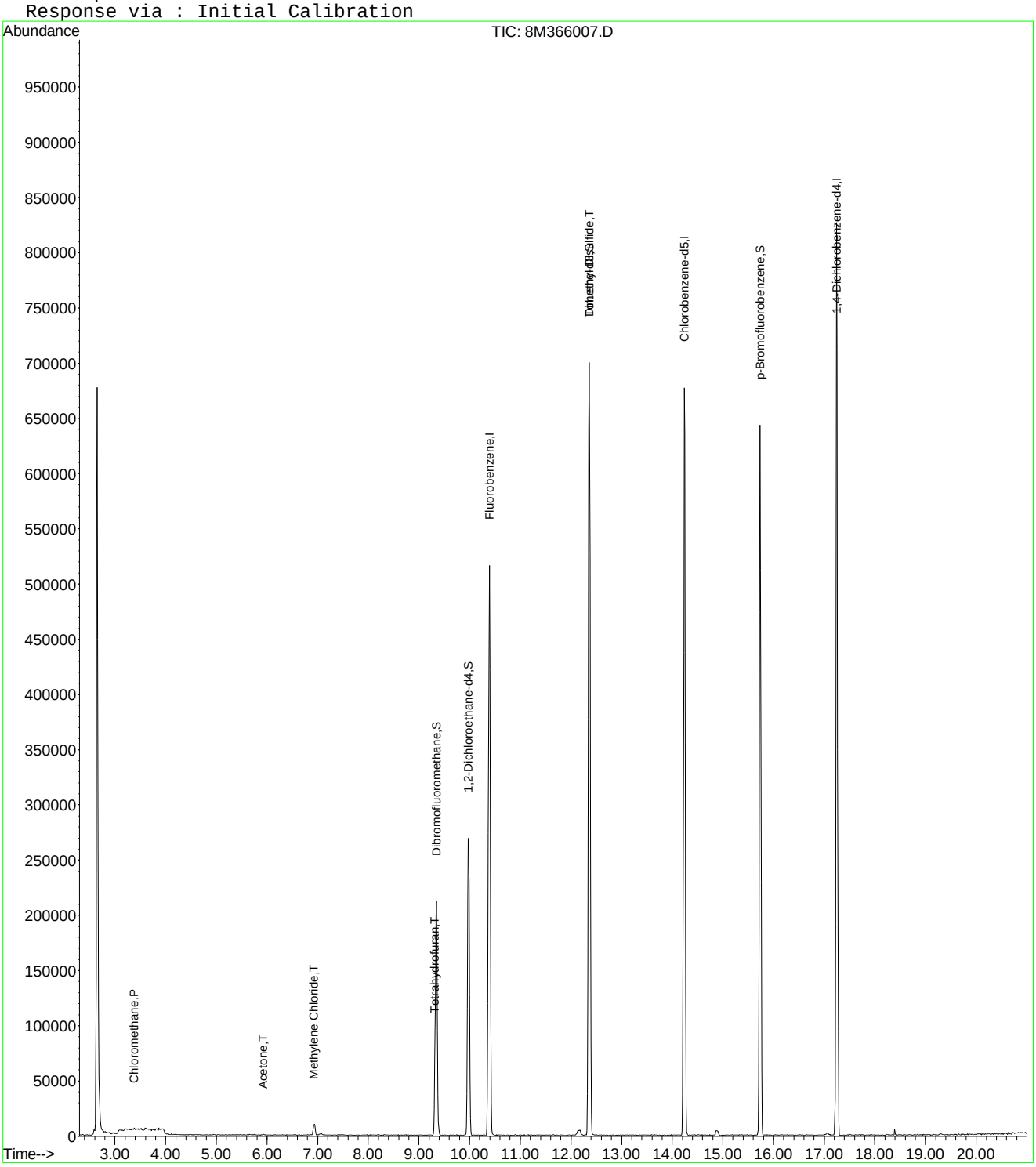
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

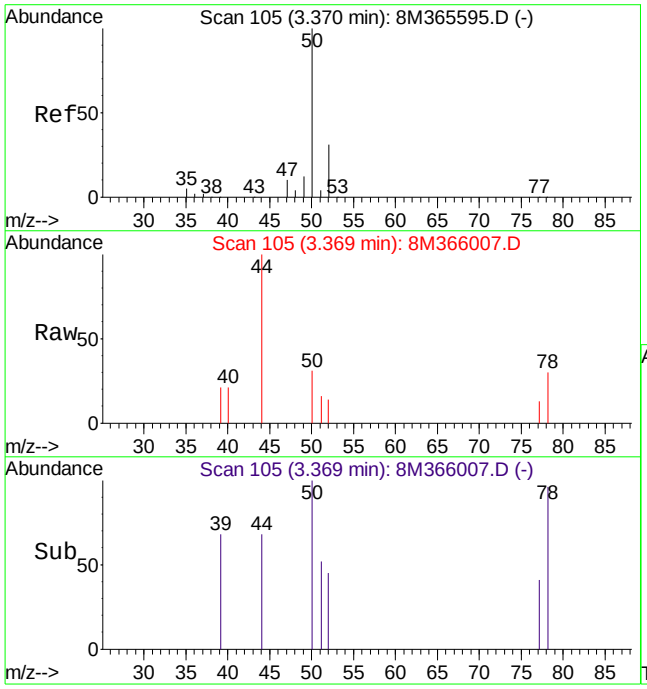
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.39	96	526328	25.00	ug/L	0.00
56) Chlorobenzene-d5	14.24	117	424215	25.00	ug/L	-0.01
76) 1,4-Dichlorobenzene-d4	17.24	152	257212	25.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	9.35	111	187350	27.1193	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 108.48%			
42) 1,2-Dichloroethane-d4	9.98	65	258944	28.1022	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 112.40%			
57) Toluene-d8	12.36	98	549295	25.2649	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.04%			
78) p-Bromofluorobenzene	15.74	95	246812	26.3619	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.44%			
Target Compounds						Qvalue
3) Chloromethane	3.37	50	3800	0.2913	ug/L	94
13) Acetone	5.92	43	1281	0.6084	ug/L #	58
19) Methylene Chloride	6.93	84	4327	0.6836	ug/L	86
35) Tetrahydrofuran	9.31	42	1433	0.6724	ug/L #	55
55) Dimethyl Disulfide	12.36	94	17677	1.8304	ug/L #	23

(#) = qualifier out of range (m) = manual integration
8M366007.D 8260WTR.M Mon Nov 29 16:35:44 2010 Page 1

Data File : C:\MSDCHEM\1\DATA\112210\8M366007.D Vial: 7
Acq On : 22 Nov 2010 12:08 Operator: MES
Sample : L10110608-15 A 826-SPE Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:35 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration

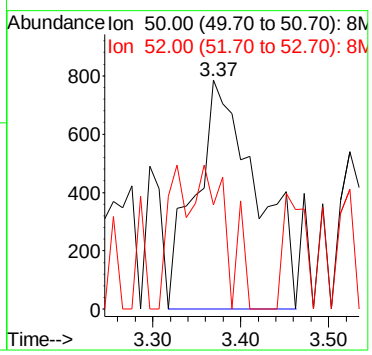


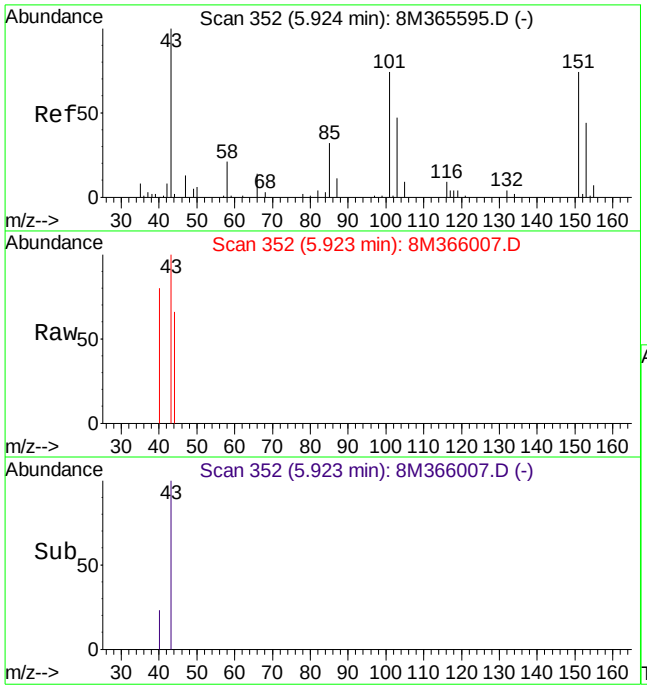


#3
Chloromethane
Concen: 0.29 ug/L
RT: 3.37 min Scan# 105
Delta R.T. 0.00 min
Lab File: 8M366007.D
Acq: 22 Nov 2010 12:08

Tgt Ion: 50 Resp: 3800

Ion	Ratio	Lower	Upper
50	100		
52	27.4	18.3	42.7

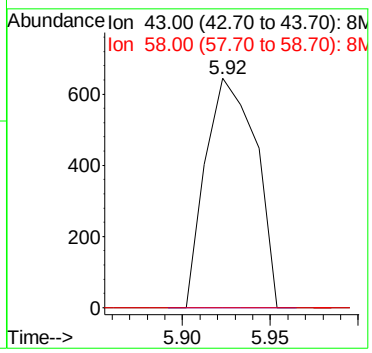


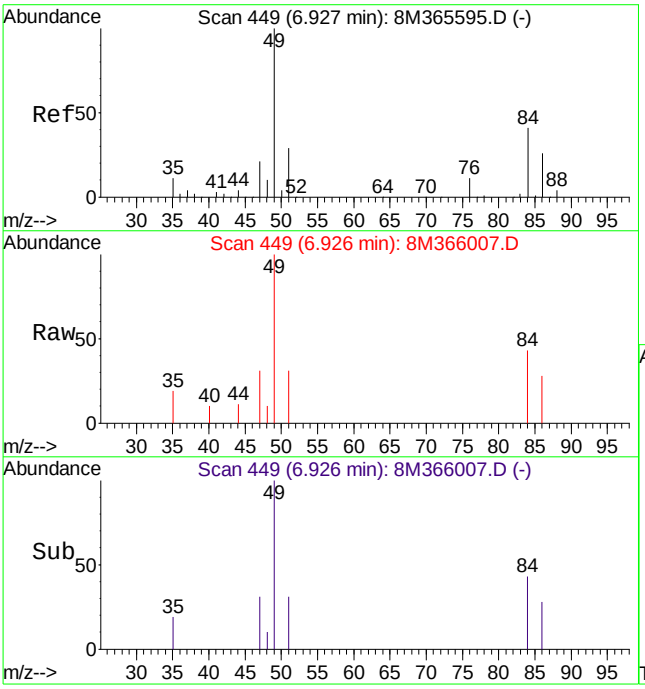


#13
Acetone
Concen: 0.61 ug/L
RT: 5.92 min Scan# 352
Delta R.T. -0.00 min
Lab File: 8M366007.D
Acq: 22 Nov 2010 12:08

Tgt Ion: 43 Resp: 1281

Ion	Ratio	Lower	Upper
43	100		
58	0.0	11.4	26.6#

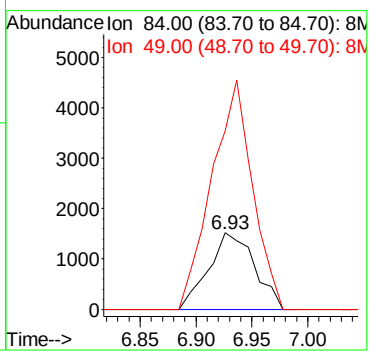


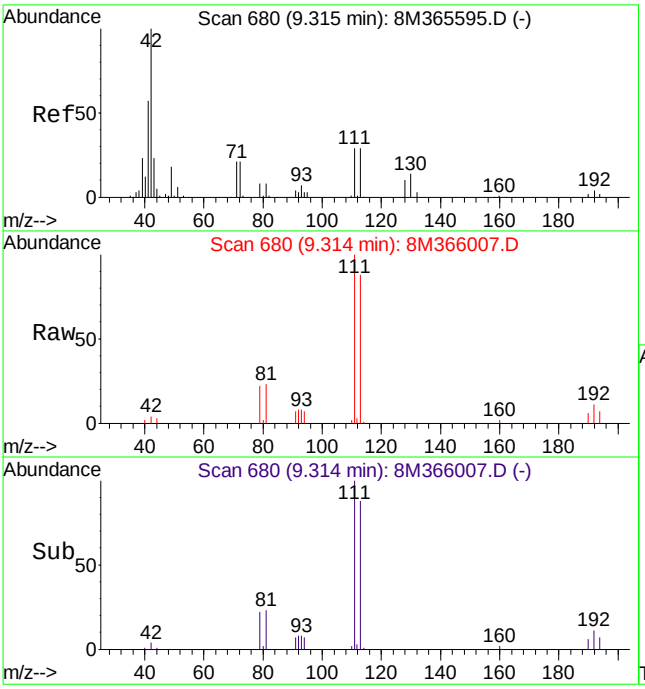


#19
Methylene Chloride
Concen: 0.68 ug/L
RT: 6.93 min Scan# 449
Delta R.T. -0.00 min
Lab File: 8M366007.D
Acq: 22 Nov 2010 12:08

Tgt Ion: 84 Resp: 4327

Ion	Ratio	Lower	Upper
84	100		
49	266.4	145.3	338.9

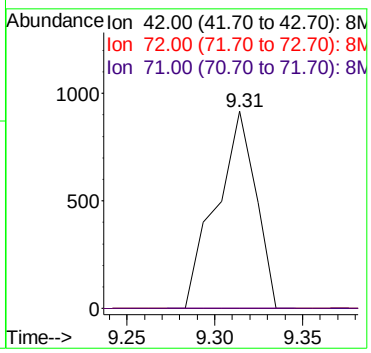


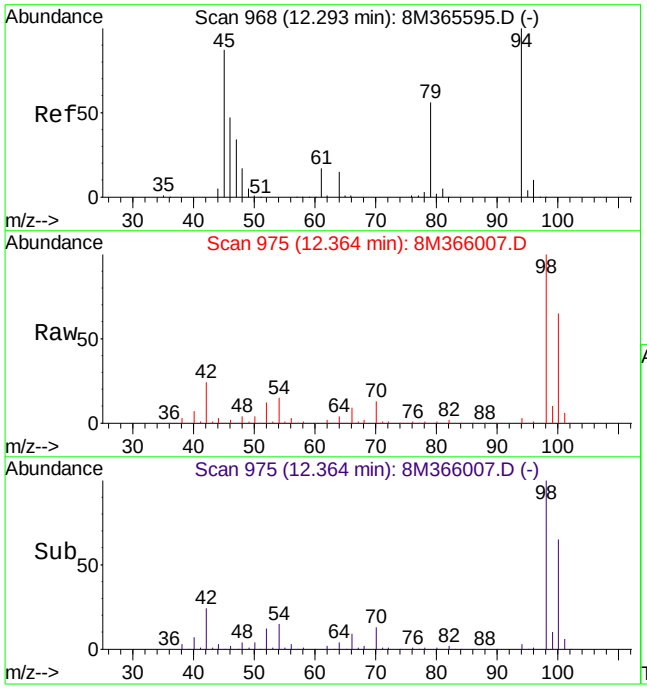


#35
Tetrahydrofuran
Concen: 0.67 ug/L
RT: 9.31 min Scan# 680
Delta R.T. -0.00 min
Lab File: 8M366007.D
Acq: 22 Nov 2010 12:08

Tgt Ion: 42 Resp: 1433

Ion	Ratio	Lower	Upper
42	100		
72	0.0	12.7	29.5#
71	0.0	12.4	29.0#

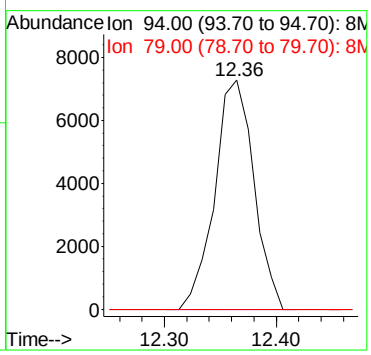




#55
Dimethyl Disulfide
Concen: 1.83 ug/L
RT: 12.36 min Scan# 975
Delta R.T. 0.07 min
Lab File: 8M366007.D
Acq: 22 Nov 2010 12:08

Tgt Ion: 94 Resp: 17677

Ion	Ratio	Lower	Upper
94	100		
79	0.0	33.4	78.0#



2.1.1.4 Standards Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\110810\8M365589.D Vial: 2
Acq On : 8 Nov 2010 10:20 Operator: MES
Sample : WG347960-02 0.3ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 10:43:23 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 10:08:55 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

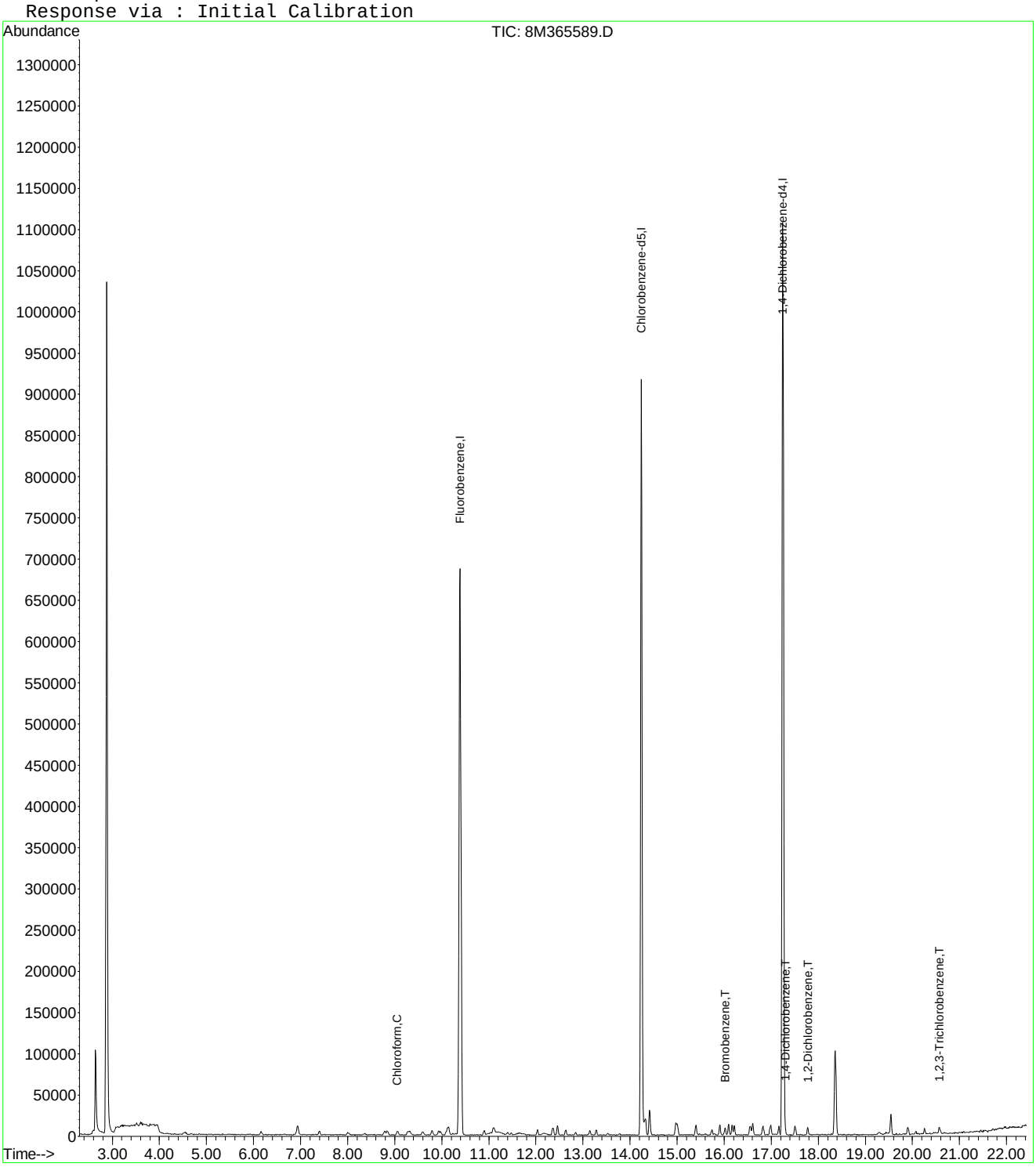
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.39	96	743411	25.00	ug/L	-0.03
56) Chlorobenzene-d5	14.24	117	588711	25.00	ug/L	-0.03
76) 1,4-Dichlorobenzene-d4	17.25	152	345888	25.00	ug/L	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	0.00	111	0d	0.0000	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#		
42) 1,2-Dichloroethane-d4	0.00	65	0d	0.0000	ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#		
57) Toluene-d8	0.00	98	0d	0.0000	ug/L	
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.00%#		
78) p-Bromofluorobenzene	0.00	95	0d	0.0000	ug/L	
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.00%#		
Target Compounds						Qvalue
33) Chloroform	9.05	83	5559	0.4407	ug/L	85
82) Bromobenzene	16.02	156	2836	0.2880	ug/L	70
92) 1,4-Dichlorobenzene	17.30	146	7278	0.3843	ug/L #	53
94) 1,2-Dichlorobenzene	17.78	146	5907	0.3411	ug/L	89
99) 1,2,3-Trichlorobenzene	20.58	180	3297	0.2977	ug/L	98

(#) = qualifier out of range (m) = manual integration
8M365589.D 8260WTR.M Mon Nov 08 12:22:14 2010 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\110810\8M365589.D Vial: 2
Acq On : 8 Nov 2010 10:20 Operator: MES
Sample : WG347960-02 0.3ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 8 12:21 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 12:22:01 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\110810\8M365590.D Vial: 3
Acq On : 8 Nov 2010 10:52 Operator: MES
Sample : WG347960-03 0.4ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 11:14:45 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 10:08:55 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	714491	25.00 ug/L	-0.03
56) Chlorobenzene-d5	14.25	117	567501	25.00 ug/L	-0.02
76) 1,4-Dichlorobenzene-d4	17.24	152	342546	25.00 ug/L	-0.03
System Monitoring Compounds					
36) Dibromofluoromethane	9.34	111	1097	0.1614 ug/L	-0.03
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.64%#	
42) 1,2-Dichloroethane-d4	0.00	65	0d	0.0000 ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#	
57) Toluene-d8	0.00	98	0d	0.0000 ug/L	
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.00%#	
78) p-Bromofluorobenzene	0.00	95	0d	0.0000 ug/L	
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.00%#	
Target Compounds					Qvalue
3) Chloromethane	3.37	50	6611	0.5751 ug/L #	73
4) Vinyl Chloride	3.60	62	2486	0.3727 ug/L	89
8) Trichlorofluoromethane	5.07	101	2246	0.2254 ug/L #	69
14) 1,1-Dichloroethene	6.16	61	4878	0.4585 ug/L	80
19) Methylene Chloride	6.94	84	5126	0.6988 ug/L #	41
23) trans-1,2-Dichloroethene	7.40	61	5656	0.5470 ug/L	81
27) 1,1-Dichloroethane	8.00	63	6699	0.5260 ug/L #	88
31) 2,2-Dichloropropane	8.78	77	5907	0.5856 ug/L	81
32) cis-1,2-Dichloroethene	8.86	96	3008	0.4115 ug/L	55
33) Chloroform	9.06	83	6404	0.5282 ug/L	97
34) Bromochloromethane	9.28	130	1990	0.4379 ug/L #	47
37) 1,1,1-Trichloroethane	9.59	97	5413	0.5263 ug/L	95
38) Cyclohexane	9.63	56	4006	0.3167 ug/L #	73
39) 1,1-Dichloropropene	9.79	75	3907	0.4498 ug/L	85
41) Carbon Tetrachloride	9.93	117	4167	0.4497 ug/L	79
44) 1,2-Dichloroethane	10.10	62	6045	0.6966 ug/L	95
45) Benzene	10.14	78	12709	0.4986 ug/L #	78
46) Trichloroethene	10.90	130	3337	0.4320 ug/L	98
47) Methylcyclohexane	11.01	83	2580	0.2579 ug/L #	68
48) 1,2-Dichloropropane	11.10	63	3399	0.4604 ug/L	79
49) Bromodichloromethane	11.39	83	5046	0.5850 ug/L #	94
51) Dibromomethane	11.47	93	1492	0.4372 ug/L	90
54) cis-1,3-Dichloropropene	12.03	75	5081	0.4874 ug/L	95
58) Toluene	12.47	91	11735	0.4210 ug/L	98
59) Ethyl Methacrylate	12.57	69	2841	0.4104 ug/L #	42
60) trans-1,3-Dichloropropene	12.63	75	4583	0.4888 ug/L	80
61) 1,1,2-Trichloroethane	12.84	97	2463	0.4845 ug/L	87
63) 1,3-Dichloropropane	13.15	76	4089	0.4697 ug/L #	39
64) Tetrachloroethene	13.28	164	2225	0.3701 ug/L	89
65) Dibromochloromethane	13.52	129	3529	0.4892 ug/L	96
66) 1,2-Dibromoethane	13.78	107	2634	0.4763 ug/L	83
67) 1-Chlorohexane	13.89	91	3082	0.3249 ug/L	77
68) Chlorobenzene	14.29	112	10402	0.5050 ug/L	81
69) 1,1,1,2-Tetrachloroethane	14.32	131	3122	0.4083 ug/L	85
70) Ethylbenzene	14.33	106	4781	0.4552 ug/L	96
71) m-,p-Xylene	14.42	106	11456	0.8809 ug/L	75
72) o-Xylene	14.98	106	6431	0.4869 ug/L	96
73) Styrene	15.00	104	9844	0.4369 ug/L	83
74) Bromoform	15.49	173	2573	0.5701 ug/L	89
75) Isopropylbenzene	15.40	105	14110	0.4338 ug/L	84

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\110810\8M365590.D Vial: 3
Acq On : 8 Nov 2010 10:52 Operator: MES
Sample : WG347960-03 0.4ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 11:14:45 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 10:08:55 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

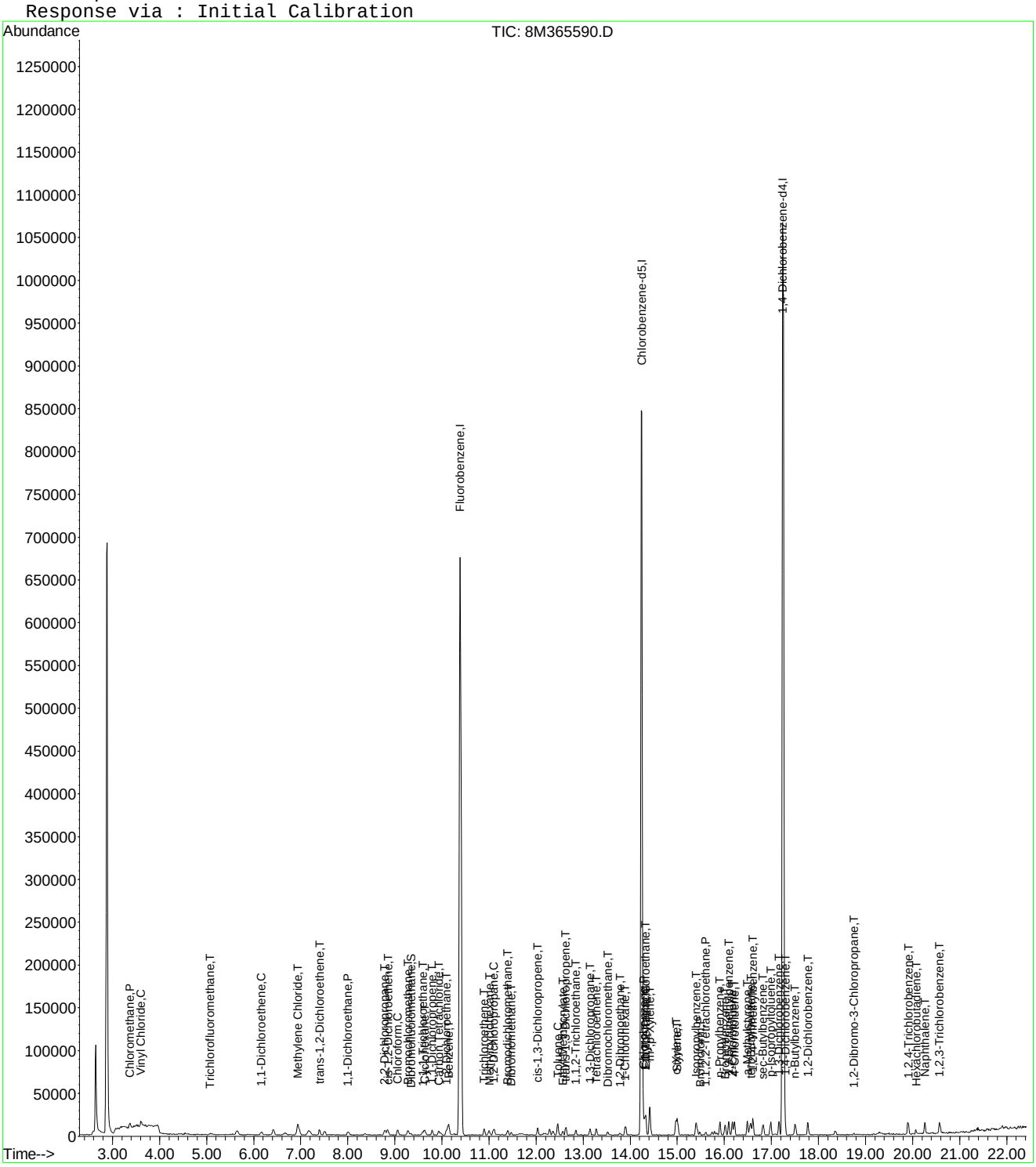
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
77)	1,1,2,2-Tetrachloroethane	15.60	83	3114	0.5461 ug/L	#	85
81)	n-Propylbenzene	15.90	91	17300	0.4389 ug/L		92
82)	Bromobenzene	16.01	156	4853	0.4976 ug/L		90
83)	1,3,5-Trimethylbenzene	16.10	105	13225	0.4579 ug/L		87
84)	2-Chlorotoluene	16.17	91	11677	0.4424 ug/L		96
85)	4-Chlorotoluene	16.22	91	12729	0.5595 ug/L		87
86)	a-Methylstyrene	16.49	118	6753	0.3879 ug/L		82
87)	tert-Butylbenzene	16.56	134	2485	0.3808 ug/L		92
88)	1,2,4-Trimethylbenzene	16.60	105	15893	0.5386 ug/L		84
89)	sec-Butylbenzene	16.82	105	13652	0.3979 ug/L		89
90)	p-Isopropyltoluene	16.99	119	12382	0.3814 ug/L		98
91)	1,3-Dichlorobenzene	17.16	146	8872	0.4740 ug/L		86
92)	1,4-Dichlorobenzene	17.30	146	9984	0.5323 ug/L		80
93)	n-Butylbenzene	17.50	91	11090	0.4206 ug/L	#	87
94)	1,2-Dichlorobenzene	17.78	146	8694	0.5070 ug/L		99
95)	1,2-Dibromo-3-Chloropropan	18.75	75	720	0.6282 ug/L	#	47
96)	1,2,4-Trichlorobenzene	19.91	180	6792	0.5460 ug/L		97
97)	Hexachlorobutadiene	20.08	225	2392	0.5436 ug/L	#	73
98)	Naphthalene	20.26	128	12845	0.5538 ug/L		95
99)	1,2,3-Trichlorobenzene	20.57	180	6527	0.5950 ug/L		92

(#) = qualifier out of range (m) = manual integration
8M365590.D 8260WTR.M Mon Nov 08 12:26:19 2010 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\110810\8M365590.D Vial: 3
Acq On : 8 Nov 2010 10:52 Operator: MES
Sample : WG347960-03 0.4ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 8 12:25 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 12:22:01 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365591.D Vial: 4
Acq On : 8 Nov 2010 11:23 Operator: MES
Sample : WG347960-04 1ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 11:46:09 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 10:08:55 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.39	96	715843	25.00	ug/L		-0.03
56) Chlorobenzene-d5	14.24	117	571294	25.00	ug/L		-0.03
76) 1,4-Dichlorobenzene-d4	17.25	152	340757	25.00	ug/L		-0.03
System Monitoring Compounds							
36) Dibromofluoromethane	9.35	111	5255	0.7717	ug/L		-0.03
Spiked Amount 25.000	Range 86 - 118		Recovery =	3.08%#			
42) 1,2-Dichloroethane-d4	9.99	65	7042	1.0795	ug/L		-0.02
Spiked Amount 25.000	Range 80 - 120		Recovery =	4.32%#			
57) Toluene-d8	12.36	98	17391	0.6978	ug/L		-0.04
Spiked Amount 25.000	Range 88 - 110		Recovery =	2.80%#			
78) p-Bromofluorobenzene	15.74	95	7345	0.6739	ug/L		-0.03
Spiked Amount 25.000	Range 86 - 115		Recovery =	2.68%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.95	85	10199	1.2911	ug/L		99
3) Chloromethane	3.38	50	20378	1.7694	ug/L		89
4) Vinyl Chloride	3.59	62	10366	1.5512	ug/L		97
5) 1,3-Butadiene	3.64	54	14077	2.7939	ug/L	#	55
6) Bromomethane	4.43	94	3031	0.6586	ug/L		81
7) Chloroethane	4.60	64	5672	1.1259	ug/L		85
8) Trichlorofluoromethane	5.08	101	14473	1.4495	ug/L	#	97
9) Diethyl ether	5.61	59	35586	6.8626	ug/L		75
10) Isoprene	5.65	67	9981	1.0218	ug/L	#	60
12) 1,1,2-Trichloro-1,2,2-Trif	5.89	101	7174	1.1487	ug/L	#	52
13) Acetone	5.93	43	400	0.2644	ug/L	#	46
14) 1,1-Dichloroethene	6.16	61	16769	1.5732	ug/L		75
15) Tert-Butyl Alcohol	6.27	59	6650	16.4617	ug/L	#	82
16) Dimethyl Sulfide	6.41	62	9424	1.0379	ug/L		68
17) Iodomethane	6.66	142	4602	0.4977	ug/L		79
18) Methyl acetate	6.69	43	7601	1.6520	ug/L	#	66
19) Methylene Chloride	6.94	84	10847	1.4760	ug/L	#	35
20) Carbon Disulfide	6.97	76	21895	1.0946	ug/L		91
22) Methyl Tert Butyl Ether	7.19	73	19478	1.4037	ug/L		94
23) trans-1,2-Dichloroethene	7.40	61	15021	1.4500	ug/L		81
24) n-Hexane	7.51	57	9494	0.9381	ug/L		70
25) Diisopropyl ether	7.85	45	227622	9.0197	ug/L		91
27) 1,1-Dichloroethane	8.01	63	16589	1.3002	ug/L	#	96
28) Ethyl-Tert-Butyl ether	8.42	59	157007	7.5192	ug/L		91
30) Propionitrile	8.64	54	4641	6.3360	ug/L		93
31) 2,2-Dichloropropane	8.80	77	15571	1.5406	ug/L		99
32) cis-1,2-Dichloroethene	8.85	96	8663	1.1827	ug/L		74
33) Chloroform	9.07	83	16416	1.3514	ug/L		98
34) Bromochloromethane	9.28	130	5915	1.2993	ug/L		72
35) Tetrahydrofuran	9.32	42	15850	10.4041	ug/L	#	72
37) 1,1,1-Trichloroethane	9.61	97	14892	1.4451	ug/L		99
38) Cyclohexane	9.64	56	12269	0.9681	ug/L		89
39) 1,1-Dichloropropene	9.79	75	11451	1.3159	ug/L		90
40) Tert-Amyl-Methyl ether	9.93	73	98506	6.5410	ug/L		90
41) Carbon Tetrachloride	9.94	117	14559	1.5683	ug/L		99
44) 1,2-Dichloroethane	10.10	62	15981	1.8381	ug/L		97
45) Benzene	10.14	78	33228	1.3012	ug/L		89
46) Trichloroethene	10.90	130	8336	1.0772	ug/L		93
47) Methylcyclohexane	10.99	83	8210	0.8190	ug/L		82
48) 1,2-Dichloropropane	11.09	63	8639	1.1680	ug/L		83

(#) = qualifier out of range (m) = manual integration
8M365591.D 8260WTR.M Mon Nov 08 11:46:11 2010 Page 1

Data File : C:\MSDchem\1\data\110810\8M365591.D Vial: 4
Acq On : 8 Nov 2010 11:23 Operator: MES
Sample : WG347960-04 1ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 11:46:09 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 10:08:55 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

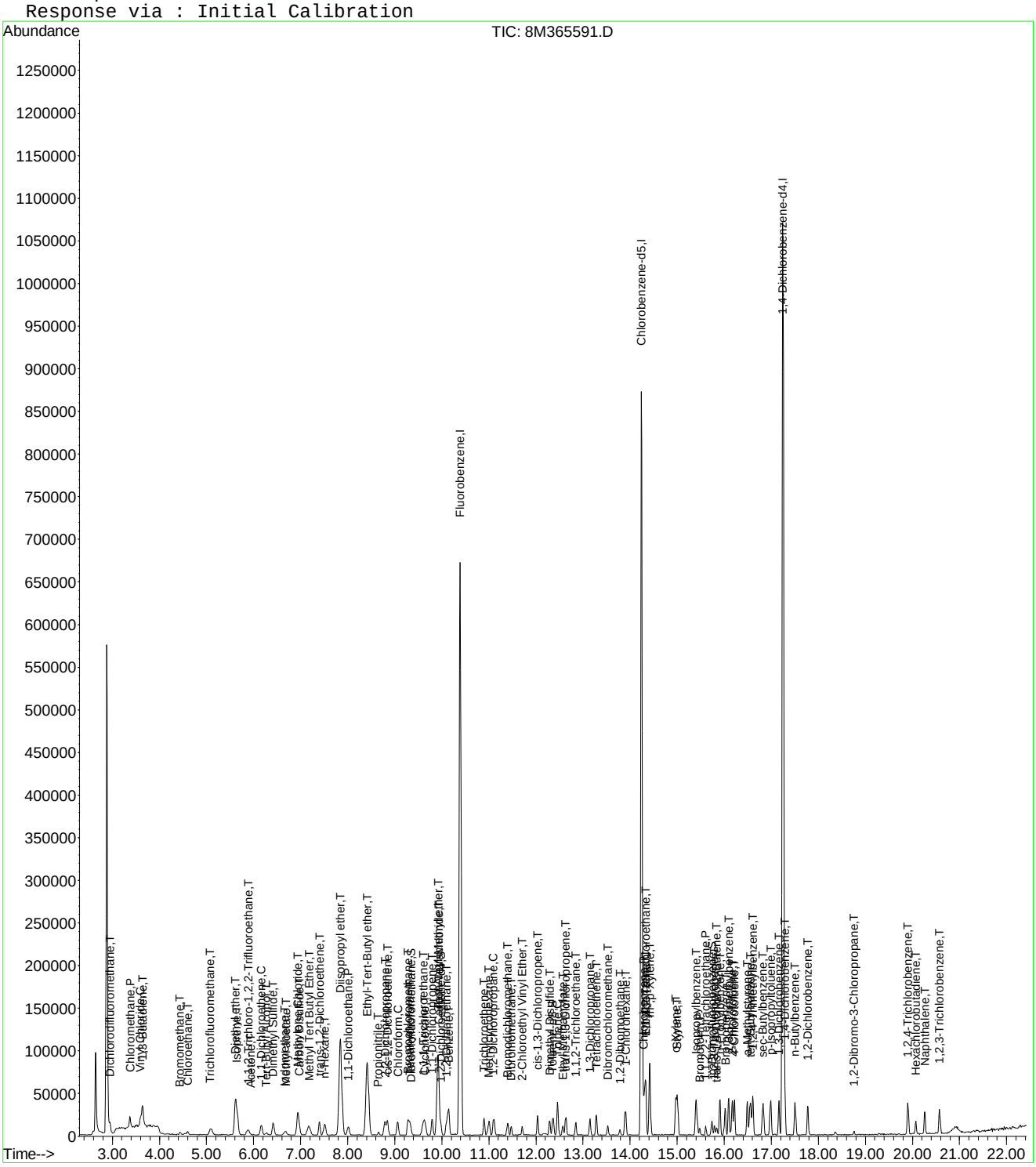
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
49)	Bromodichloromethane	11.39	83	11674	1.3508	ug/L		94
51)	Dibromomethane	11.48	93	4517	1.3210	ug/L		88
52)	2-Chloroethyl Vinyl Ether	11.70	63	4373	1.1658	ug/L		96
54)	cis-1,3-Dichloropropene	12.03	75	12009	1.1498	ug/L		99
55)	Dimethyl Disulfide	12.29	94	10603	0.8479	ug/L		98
58)	Toluene	12.46	91	32231	1.1487	ug/L		99
59)	Ethyl Methacrylate	12.57	69	6452	0.9257	ug/L	#	37
60)	trans-1,3-Dichloropropene	12.63	75	12463	1.3204	ug/L		93
61)	1,1,2-Trichloroethane	12.84	97	5216	1.0192	ug/L		81
63)	1,3-Dichloropropane	13.15	76	10615	1.2112	ug/L	#	45
64)	Tetrachloroethene	13.29	164	7580	1.2526	ug/L		91
65)	Dibromochloromethane	13.52	129	8574	1.1805	ug/L		94
66)	1,2-Dibromoethane	13.78	107	6290	1.1299	ug/L		100
67)	1-Chlorohexane	13.91	91	8353	0.8746	ug/L	#	46
68)	Chlorobenzene	14.29	112	23058	1.1119	ug/L		92
69)	1,1,1,2-Tetrachloroethane	14.33	131	9307	1.2092	ug/L		99
70)	Ethylbenzene	14.33	106	11519	1.0895	ug/L		74
71)	m-,p-Xylene	14.42	106	30953	2.3643	ug/L		89
72)	o-Xylene	14.97	106	15712	1.1817	ug/L		98
73)	Styrene	15.00	104	24129	1.0638	ug/L		91
74)	Bromoform	15.48	173	5541	1.2196	ug/L		93
75)	Isopropylbenzene	15.41	105	37434	1.1431	ug/L		89
77)	1,1,2,2-Tetrachloroethane	15.60	83	6724	1.1853	ug/L		93
79)	1,2,3-Trichloropropane	15.79	110	2180	1.1672	ug/L		93
80)	trans-1,4-Dichloro-2-Buten	15.84	53	3026	1.4371	ug/L	#	63
81)	n-Propylbenzene	15.91	91	45034	1.1486	ug/L		94
82)	Bromobenzene	16.03	156	11042	1.1382	ug/L		95
83)	1,3,5-Trimethylbenzene	16.10	105	33039	1.1500	ug/L		88
84)	2-Chlorotoluene	16.17	91	28680	1.0923	ug/L		93
85)	4-Chlorotoluene	16.21	91	27963	1.2355	ug/L		94
86)	a-Methylstyrene	16.49	118	15585	0.8999	ug/L		95
87)	tert-Butylbenzene	16.55	134	6268	0.9655	ug/L		71
88)	1,2,4-Trimethylbenzene	16.60	105	33698	1.1479	ug/L		94
89)	sec-Butylbenzene	16.82	105	37513	1.0991	ug/L		94
90)	p-Isopropyltoluene	16.99	119	31892	0.9876	ug/L		93
91)	1,3-Dichlorobenzene	17.16	146	20848	1.1197	ug/L		97
92)	1,4-Dichlorobenzene	17.29	146	21542	1.1545	ug/L	#	60
93)	n-Butylbenzene	17.50	91	28516	1.0870	ug/L		92
94)	1,2-Dichlorobenzene	17.77	146	19408	1.1377	ug/L		98
95)	1,2-Dibromo-3-Chloropropan	18.76	75	1359	1.1920	ug/L		79
96)	1,2,4-Trichlorobenzene	19.90	180	13168	1.0641	ug/L		96
97)	Hexachlorobutadiene	20.07	225	3962	0.9051	ug/L		88
98)	Naphthalene	20.27	128	26603	1.1530	ug/L		99
99)	1,2,3-Trichlorobenzene	20.58	180	13089	1.1995	ug/L		93

(#) = qualifier out of range (m) = manual integration
8M365591.D 8260WTR.M Mon Nov 08 11:46:11 2010 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365591.D Vial: 4
Acq On : 8 Nov 2010 11:23 Operator: MES
Sample : WG347960-04 1ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 8 11:46 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 10:08:55 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365592.D Vial: 5
Acq On : 8 Nov 2010 11:55 Operator: MES
Sample : WG347960-05 2 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 12:17:28 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 10:08:55 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.39	96	701747	25.00	ug/L	-0.03
56) Chlorobenzene-d5	14.25	117	559829	25.00	ug/L	-0.02
76) 1,4-Dichlorobenzene-d4	17.24	152	343793	25.00	ug/L	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	9.34	111	9582	1.4354	ug/L	-0.03
Spiked Amount 25.000	Range 86 - 118		Recovery =	5.76%#		
42) 1,2-Dichloroethane-d4	9.98	65	13395	2.0945	ug/L	-0.03
Spiked Amount 25.000	Range 80 - 120		Recovery =	8.36%#		
57) Toluene-d8	12.36	98	30533	1.2502	ug/L	-0.03
Spiked Amount 25.000	Range 88 - 110		Recovery =	5.00%#		
78) p-Bromofluorobenzene	15.73	95	12271	1.1159	ug/L	-0.03
Spiked Amount 25.000	Range 86 - 115		Recovery =	4.48%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.94	85	24797	3.2021	ug/L	100
3) Chloromethane	3.37	50	36042	3.1923	ug/L	100
4) Vinyl Chloride	3.59	62	23807	3.6342	ug/L	92
5) 1,3-Butadiene	3.64	54	26470	5.3592	ug/L #	58
6) Bromomethane	4.43	94	7410	1.6424	ug/L	99
7) Chloroethane	4.60	64	12401	2.5110	ug/L	85
8) Trichlorofluoromethane	5.10	101	34902	3.5657	ug/L	97
9) Diethyl ether	5.61	59	193914	38.1464	ug/L	78
10) Isoprene	5.66	67	21497	2.2450	ug/L	65
12) 1,1,2-Trichloro-1,2,2-Trif	5.87	101	17283	2.8230	ug/L	97
13) Acetone	5.93	43	6134	4.1367	ug/L #	55
14) 1,1-Dichloroethene	6.16	61	31474	3.0121	ug/L	78
15) Tert-Butyl Alcohol	6.27	59	33622	84.9010	ug/L	90
16) Dimethyl Sulfide	6.41	62	18515	2.0801	ug/L #	49
17) Iodomethane	6.66	142	12900	1.4231	ug/L	88
18) Methyl acetate	6.68	43	22156	4.9120	ug/L #	79
19) Methylene Chloride	6.94	84	17855	2.4783	ug/L #	40
20) Carbon Disulfide	6.97	76	47575	2.4262	ug/L	97
21) Acrylonitrile	7.10	53	5895	2.7503	ug/L	99
22) Methyl Tert Butyl Ether	7.17	73	40129	2.9501	ug/L	99
23) trans-1,2-Dichloroethene	7.40	61	29896	2.9438	ug/L	86
24) n-Hexane	7.50	57	20297	2.0458	ug/L #	65
25) Diisopropyl ether	7.85	45	1206299	48.7609	ug/L	91
26) Vinyl Acetate	7.99	43	37559	3.4873	ug/L	91
27) 1,1-Dichloroethane	8.01	63	33070	2.6439	ug/L	99
28) Ethyl-Tert-Butyl ether	8.41	59	842214	41.1443	ug/L	94
29) 2-Butanone	8.55	43	8835	3.9980	ug/L #	73
30) Propionitrile	8.65	54	27836	38.7655	ug/L	87
31) 2,2-Dichloropropane	8.80	77	30477	3.0760	ug/L	100
32) cis-1,2-Dichloroethene	8.85	96	16109	2.2435	ug/L	59
33) Chloroform	9.07	83	32385	2.7195	ug/L	96
34) Bromochloromethane	9.28	130	10691	2.3955	ug/L #	60
35) Tetrahydrofuran	9.31	42	75105	50.2900	ug/L	79
37) 1,1,1-Trichloroethane	9.59	97	30269	2.9963	ug/L	100
38) Cyclohexane	9.64	56	28258	2.2745	ug/L	84
39) 1,1-Dichloropropene	9.80	75	21287	2.4954	ug/L	93
40) Tert-Amyl-Methyl ether	9.91	73	539151	36.5201	ug/L	91
41) Carbon Tetrachloride	9.93	117	27439	3.0151	ug/L	97
44) 1,2-Dichloroethane	10.10	62	30822	3.6162	ug/L	98
45) Benzene	10.14	78	59967	2.3955	ug/L	83

(#) = qualifier out of range (m) = manual integration
8M365592.D 8260WTR.M Mon Nov 08 12:17:30 2010 Page 1

Data File : C:\MSDchem\1\data\110810\8M365592.D Vial: 5
Acq On : 8 Nov 2010 11:55 Operator: MES
Sample : WG347960-05 2 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 12:17:28 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 10:08:55 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

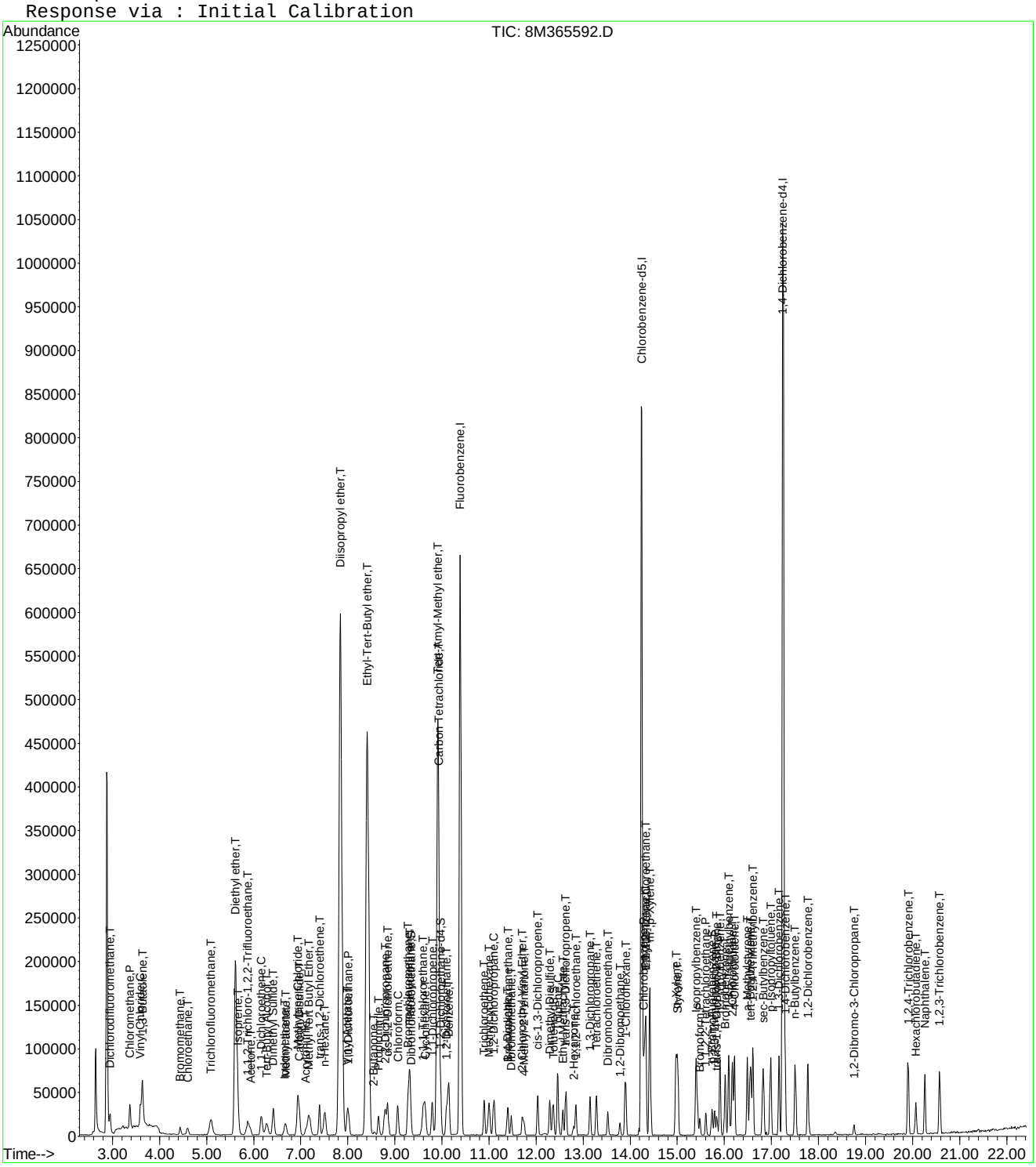
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Trichloroethene	10.90	130	17524	2.3099	ug/L		96
47)	Methylcyclohexane	11.00	83	18436	1.8761	ug/L		81
48)	1,2-Dichloropropane	11.10	63	16837	2.3221	ug/L		80
49)	Bromodichloromethane	11.40	83	23203	2.7388	ug/L		97
50)	1,4-Dioxane	11.39	88	2295	55.9323	ug/L	#	60
51)	Dibromomethane	11.47	93	9383	2.7992	ug/L		95
52)	2-Chloroethyl Vinyl Ether	11.70	63	8457	2.2998	ug/L		95
53)	4-Methyl-2-Pentanone	11.74	58	4432	2.3362	ug/L		89
54)	cis-1,3-Dichloropropene	12.03	75	26633	2.6011	ug/L		94
55)	Dimethyl Disulfide	12.29	94	22686	1.8507	ug/L		94
58)	Toluene	12.47	91	63240	2.2999	ug/L		95
59)	Ethyl Methacrylate	12.57	69	14497	2.1227	ug/L	#	47
60)	trans-1,3-Dichloropropene	12.63	75	26510	2.8661	ug/L		98
61)	1,1,2-Trichloroethane	12.85	97	12304	2.4535	ug/L		95
62)	2-Hexanone	12.80	58	4452	2.4055	ug/L	#	67
63)	1,3-Dichloropropane	13.15	76	22945	2.6716	ug/L	#	39
64)	Tetrachloroethene	13.28	164	13140	2.2158	ug/L		91
65)	Dibromochloromethane	13.52	129	18188	2.5556	ug/L		96
66)	1,2-Dibromoethane	13.78	107	13547	2.4833	ug/L		96
67)	1-Chlorohexane	13.90	91	17603	1.8809	ug/L	#	58
68)	Chlorobenzene	14.29	112	47962	2.3602	ug/L		75
69)	1,1,1,2-Tetrachloroethane	14.33	131	19469	2.5813	ug/L		99
70)	Ethylbenzene	14.33	106	23120	2.2316	ug/L		79
71)	m-,p-Xylene	14.42	106	60284	4.6989	ug/L		90
72)	o-Xylene	14.98	106	30320	2.3271	ug/L		88
73)	Styrene	15.01	104	49835	2.2422	ug/L		89
74)	Bromoform	15.48	173	12100	2.7178	ug/L		95
75)	Isopropylbenzene	15.40	105	75337	2.3477	ug/L		92
77)	1,1,2,2-Tetrachloroethane	15.60	83	15755	2.7528	ug/L		99
79)	1,2,3-Trichloropropane	15.80	110	5649	2.9978	ug/L		93
80)	trans-1,4-Dichloro-2-Buten	15.84	53	7363	3.4660	ug/L	#	68
81)	n-Propylbenzene	15.91	91	90388	2.2850	ug/L		92
82)	Bromobenzene	16.01	156	24311	2.4839	ug/L		95
83)	1,3,5-Trimethylbenzene	16.10	105	70170	2.4209	ug/L		88
84)	2-Chlorotoluene	16.17	91	58745	2.2176	ug/L		93
85)	4-Chlorotoluene	16.22	91	62957	2.7571	ug/L		90
86)	a-Methylstyrene	16.49	118	33596	1.9227	ug/L		91
87)	tert-Butylbenzene	16.55	134	12350	1.8855	ug/L	#	66
88)	1,2,4-Trimethylbenzene	16.60	105	75372	2.5449	ug/L		85
89)	sec-Butylbenzene	16.83	105	76554	2.2231	ug/L		97
90)	p-Isopropyltoluene	16.99	119	67460	2.0705	ug/L		96
91)	1,3-Dichlorobenzene	17.16	146	44143	2.3499	ug/L		98
92)	1,4-Dichlorobenzene	17.30	146	45814	2.4336	ug/L		84
93)	n-Butylbenzene	17.50	91	58157	2.1974	ug/L		91
94)	1,2-Dichlorobenzene	17.78	146	42833	2.4886	ug/L		100
95)	1,2-Dibromo-3-Chloropropan	18.76	75	3608	3.1366	ug/L		86
96)	1,2,4-Trichlorobenzene	19.91	180	32263	2.5841	ug/L		97
97)	Hexachlorobutadiene	20.07	225	9771	2.2124	ug/L		94
98)	Naphthalene	20.26	128	65865	2.8294	ug/L		98
99)	1,2,3-Trichlorobenzene	20.57	180	27915	2.5357	ug/L		97

(#) = qualifier out of range (m) = manual integration
8M365592.D 8260WTR.M Mon Nov 08 12:17:31 2010 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365592.D Vial: 5
Acq On : 8 Nov 2010 11:55 Operator: MES
Sample : WG347960-05 2 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 8 12:17 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 10:08:55 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365593.D Vial: 6
Acq On : 8 Nov 2010 12:26 Operator: MES
Sample : WG347960-06 5 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 12:48:01 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 12:30:55 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.39	96	711563	25.00	ug/L		-0.03
56) Chlorobenzene-d5	14.25	117	572401	25.00	ug/L		-0.02
76) 1,4-Dichlorobenzene-d4	17.24	152	342386	25.00	ug/L		-0.03
System Monitoring Compounds							
36) Dibromofluoromethane	9.35	111	22739	2.9392	ug/L		-0.03
Spiked Amount 25.000	Range 86 - 118		Recovery = 11.76%#				
42) 1,2-Dichloroethane-d4	9.98	65	31474	3.6549	ug/L		-0.03
Spiked Amount 25.000	Range 80 - 120		Recovery = 14.60%#				
57) Toluene-d8	12.36	98	71471	2.6412	ug/L		-0.03
Spiked Amount 25.000	Range 88 - 110		Recovery = 10.56%#				
78) p-Bromofluorobenzene	15.74	95	31075	2.6543	ug/L		-0.03
Spiked Amount 25.000	Range 86 - 115		Recovery = 10.60%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.95	85	64743	7.0980	ug/L		96
3) Chloromethane	3.37	50	90516	6.6174	ug/L		95
4) Vinyl Chloride	3.59	62	58901	7.5283	ug/L		98
5) 1,3-Butadiene	3.63	54	74412	12.8955	ug/L	#	73
6) Bromomethane	4.43	94	20021	4.8049	ug/L		96
7) Chloroethane	4.60	64	33228	6.0766	ug/L	#	86
8) Trichlorofluoromethane	5.10	101	92397	7.9536	ug/L		98
9) Diethyl ether	5.61	59	387209	67.0494	ug/L		79
10) Isoprene	5.64	67	60559	6.0172	ug/L		72
11) Acrolein	5.82	56	8870	15.8181	ug/L		97
12) 1,1,2-Trichloro-1,2,2-Trif	5.87	101	42934	6.1329	ug/L		97
13) Acetone	5.93	43	15920	10.5882	ug/L		84
14) 1,1-Dichloroethene	6.16	61	87561	6.9652	ug/L		79
15) Tert-Butyl Alcohol	6.27	59	63237	143.3786	ug/L		89
16) Dimethyl Sulfide	6.42	62	49426	5.3674	ug/L	#	52
17) Iodomethane	6.66	142	38894	4.5046	ug/L		90
18) Methyl acetate	6.69	43	50613	9.1226	ug/L	#	86
19) Methylene Chloride	6.94	84	42928	5.5317	ug/L	#	44
20) Carbon Disulfide	6.97	76	115736	5.5321	ug/L		97
21) Acrylonitrile	7.10	53	16690	7.6793	ug/L		99
22) Methyl Tert Butyl Ether	7.17	73	105450	6.7711	ug/L		98
23) trans-1,2-Dichloroethene	7.39	61	78011	6.3851	ug/L		87
24) n-Hexane	7.51	57	58561	5.7750	ug/L		67
25) Diisopropyl ether	7.85	45	2402630	77.1468	ug/L		92
26) Vinyl Acetate	7.99	43	91430	8.3720	ug/L		92
27) 1,1-Dichloroethane	8.01	63	90018	6.2610	ug/L		97
28) Ethyl-Tert-Butyl ether	8.42	59	1667321	69.5123	ug/L		94
29) 2-Butanone	8.56	43	22562	10.0689	ug/L	#	79
30) Propionitrile	8.65	54	55984	68.0370	ug/L		96
31) 2,2-Dichloropropane	8.79	77	85045	6.9725	ug/L		99
32) cis-1,2-Dichloroethene	8.85	96	43274	5.6264	ug/L		65
33) Chloroform	9.06	83	84945	6.0877	ug/L		99
34) Bromochloromethane	9.28	130	28778	5.8022	ug/L	#	67
35) Tetrahydrofuran	9.31	42	143970	74.8561	ug/L		80
37) 1,1,1-Trichloroethane	9.59	97	82295	6.7699	ug/L		99
38) Cyclohexane	9.65	56	80586	6.2052	ug/L		85
39) 1,1-Dichloropropene	9.79	75	62969	6.5103	ug/L		93
40) Tert-Amyl-Methyl ether	9.91	73	1074043	65.2255	ug/L		90
41) Carbon Tetrachloride	9.93	117	81669	7.4355	ug/L		94
44) 1,2-Dichloroethane	10.10	62	81721	7.2254	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M365593.D 8260WTR.M Mon Nov 08 12:48:02 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365593.D Vial: 6
Acq On : 8 Nov 2010 12:26 Operator: MES
Sample : WG347960-06 5 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 12:48:01 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 12:30:55 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

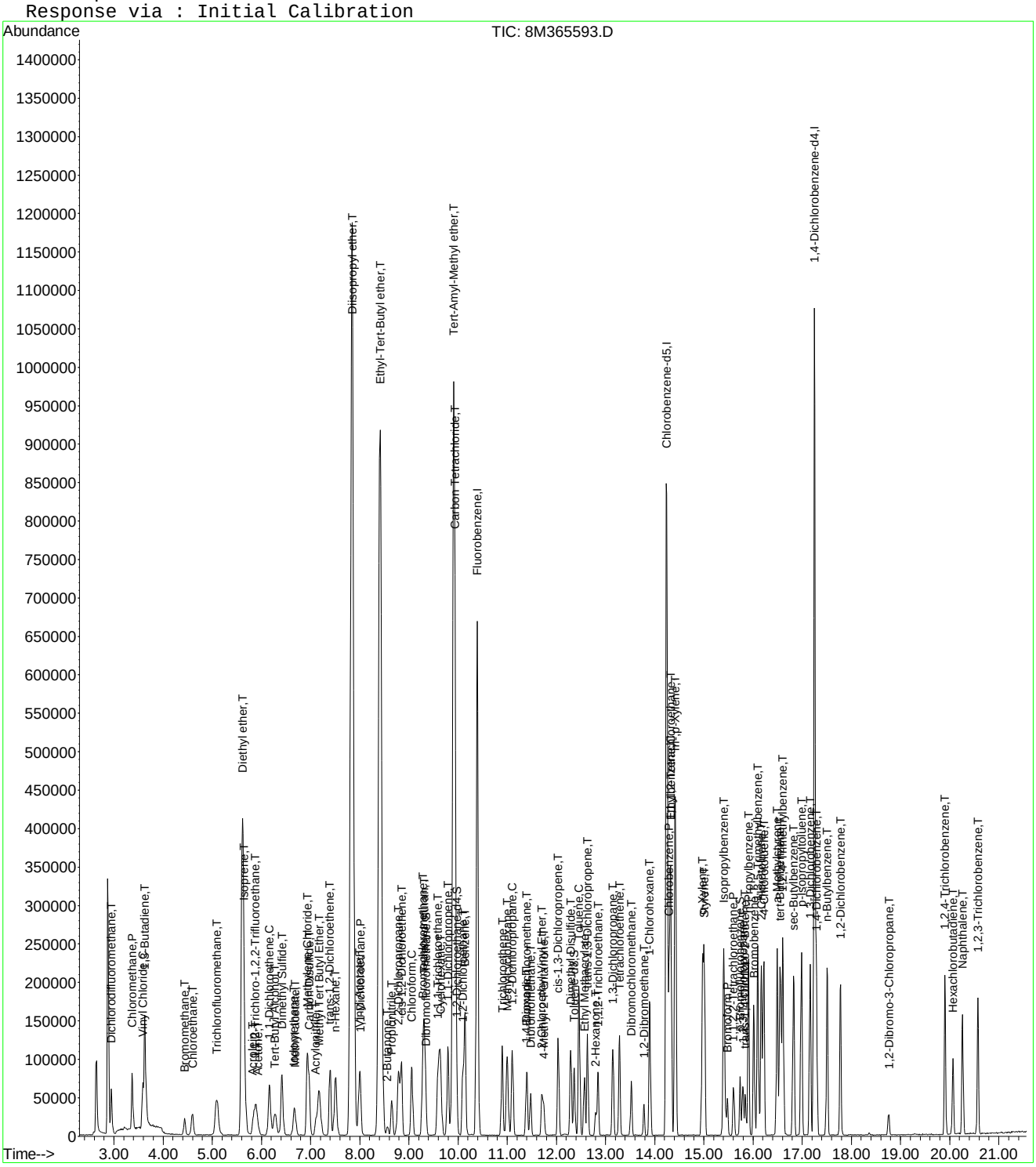
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	Benzene	10.14	78	158505	5.7589	ug/L		84
46)	Trichloroethene	10.91	130	47350	5.7678	ug/L		95
47)	Methylcyclohexane	11.00	83	52080	5.3155	ug/L		82
48)	1,2-Dichloropropane	11.10	63	44848	5.6805	ug/L		77
49)	Bromodichloromethane	11.39	83	64248	6.4141	ug/L		98
50)	1,4-Dioxane	11.38	88	4888	115.2570	ug/L		92
51)	Dibromomethane	11.48	93	24387	6.3000	ug/L		93
52)	2-Chloroethyl Vinyl Ether	11.70	63	22532	5.6792	ug/L		93
53)	4-Methyl-2-Pentanone	11.74	58	12378	6.4347	ug/L		91
54)	cis-1,3-Dichloropropene	12.03	75	69659	6.0829	ug/L		99
55)	Dimethyl Disulfide	12.29	94	63763	5.1781	ug/L		93
58)	Toluene	12.46	91	167120	5.7199	ug/L		98
59)	Ethyl Methacrylate	12.57	69	37851	5.4745	ug/L	#	39
60)	trans-1,3-Dichloropropene	12.63	75	68525	6.3671	ug/L		99
61)	1,1,2-Trichloroethane	12.85	97	29807	5.4431	ug/L		95
62)	2-Hexanone	12.80	58	12258	6.4776	ug/L		68
63)	1,3-Dichloropropane	13.15	76	57299	5.9208	ug/L	#	47
64)	Tetrachloroethene	13.28	164	40333	6.2032	ug/L		90
65)	Dibromochloromethane	13.52	129	46099	5.7741	ug/L		99
66)	1,2-Dibromoethane	13.78	107	34321	5.6083	ug/L		99
67)	1-Chlorohexane	13.90	91	53496	5.6905	ug/L		69
68)	Chlorobenzene	14.29	112	122427	5.5307	ug/L		86
69)	1,1,1,2-Tetrachloroethane	14.33	131	49792	5.9664	ug/L		97
70)	Ethylbenzene	14.33	106	65058	5.8174	ug/L		90
71)	m-,p-Xylene	14.42	106	160381	11.6105	ug/L		89
72)	o-Xylene	14.97	106	78495	5.4632	ug/L		90
73)	Styrene	15.01	104	130600	5.5968	ug/L		88
74)	Bromoform	15.48	173	29758	5.9410	ug/L		100
75)	Isopropylbenzene	15.40	105	208139	6.0231	ug/L		91
77)	1,1,2,2-Tetrachloroethane	15.60	83	36858	5.7587	ug/L		99
79)	1,2,3-Trichloropropane	15.80	110	11944	5.7603	ug/L		88
80)	trans-1,4-Dichloro-2-Buten	15.84	53	18618	7.3085	ug/L	#	64
81)	n-Propylbenzene	15.91	91	242294	5.8477	ug/L		94
82)	Bromobenzene	16.02	156	55549	5.3294	ug/L		86
83)	1,3,5-Trimethylbenzene	16.10	105	178705	5.7879	ug/L		91
84)	2-Chlorotoluene	16.17	91	152586	5.6139	ug/L		93
85)	4-Chlorotoluene	16.22	91	154766	6.0632	ug/L		90
86)	a-Methylstyrene	16.49	118	91985	5.3264	ug/L		94
87)	tert-Butylbenzene	16.55	134	35508	5.3637	ug/L		73
88)	1,2,4-Trimethylbenzene	16.60	105	186635	5.7629	ug/L		89
89)	sec-Butylbenzene	16.82	105	203187	5.6870	ug/L		94
90)	p-Isopropyltoluene	16.99	119	187349	5.7099	ug/L		95
91)	1,3-Dichlorobenzene	17.16	146	108754	5.4733	ug/L		96
92)	1,4-Dichlorobenzene	17.30	146	110759	5.3172	ug/L		91
93)	n-Butylbenzene	17.50	91	156158	5.6907	ug/L		94
94)	1,2-Dichlorobenzene	17.78	146	103382	5.5310	ug/L		98
95)	1,2-Dibromo-3-Chloropropan	18.76	75	8808	6.9509	ug/L		74
96)	1,2,4-Trichlorobenzene	19.90	180	77470	5.6216	ug/L		98
97)	Hexachlorobutadiene	20.07	225	25848	5.4121	ug/L		95
98)	Naphthalene	20.26	128	147824	5.6894	ug/L		100
99)	1,2,3-Trichlorobenzene	20.57	180	67714	5.6381	ug/L		99

(#) = qualifier out of range (m) = manual integration
8M365593.D 8260WTR.M Mon Nov 08 12:48:03 2010 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365593.D Vial: 6
Acq On : 8 Nov 2010 12:26 Operator: MES
Sample : WG347960-06 5 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 8 12:48 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 12:30:55 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365594.D Vial: 7
Acq On : 8 Nov 2010 12:57 Operator: MES
Sample : WG347960-07 20 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 13:20:11 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 12:49:03 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	711957	25.00 ug/L	-0.03
56) Chlorobenzene-d5	14.24	117	578247	25.00 ug/L	-0.03
76) 1,4-Dichlorobenzene-d4	17.25	152	350304	25.00 ug/L	-0.03
System Monitoring Compounds					
36) Dibromofluoromethane	9.35	111	93333	13.0780 ug/L	-0.03
Spiked Amount 25.000	Range 86 - 118		Recovery = 52.32%#		
42) 1,2-Dichloroethane-d4	9.98	65	122472	16.5746 ug/L	-0.03
Spiked Amount 25.000	Range 80 - 120		Recovery = 66.28%#		
57) Toluene-d8	12.37	98	289675	11.2468 ug/L	-0.03
Spiked Amount 25.000	Range 88 - 110		Recovery = 45.00%#		
78) p-Bromofluorobenzene	15.74	95	123815	10.8500 ug/L	-0.03
Spiked Amount 25.000	Range 86 - 115		Recovery = 43.40%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.95	85	254427	29.5585 ug/L	99
3) Chloromethane	3.37	50	353341	28.4200 ug/L	95
4) Vinyl Chloride	3.58	62	233594	32.1234 ug/L	99
5) 1,3-Butadiene	3.63	54	270280	42.3627 ug/L	84
6) Bromomethane	4.44	94	88349	19.7971 ug/L	94
7) Chloroethane	4.59	64	129193	24.6267 ug/L #	85
8) Trichlorofluoromethane	5.10	101	370544	33.8106 ug/L	99
9) Diethyl ether	5.61	59	598489	108.2940 ug/L	80
10) Isoprene	5.65	67	244949	24.3585 ug/L	70
11) Acrolein	5.82	56	34433	55.9498 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	5.87	101	172448	26.2421 ug/L	98
13) Acetone	5.93	43	58043	33.6426 ug/L	85
14) 1,1-Dichloroethene	6.16	61	356995	31.1454 ug/L	79
15) Tert-Butyl Alcohol	6.28	59	93490	213.0700 ug/L	90
16) Dimethyl Sulfide	6.42	62	204200	22.3244 ug/L #	56
17) Iodomethane	6.66	142	182102	20.0686 ug/L	84
18) Methyl acetate	6.68	43	185393	33.8523 ug/L	89
19) Methylene Chloride	6.93	84	164784	21.9073 ug/L #	48
20) Carbon Disulfide	6.97	76	458984	22.6369 ug/L	100
21) Acrylonitrile	7.10	53	65905	27.7684 ug/L	98
22) Methyl Tert Butyl Ether	7.18	73	415135	28.0118 ug/L	98
23) trans-1,2-Dichloroethene	7.39	61	317357	28.9362 ug/L	84
24) n-Hexane	7.51	57	239830	23.3528 ug/L	71
25) Diisopropyl ether	7.84	45	3743743	132.3971 ug/L	92
26) Vinyl Acetate	7.98	43	370591	30.4151 ug/L #	91
27) 1,1-Dichloroethane	8.00	63	361079	27.0774 ug/L	99
28) Ethyl-Tert-Butyl ether	8.42	59	2599448	115.5266 ug/L	94
29) 2-Butanone	8.56	43	85363	32.9364 ug/L	85
30) Propionitrile	8.65	54	85839	109.1336 ug/L	94
31) 2,2-Dichloropropane	8.79	77	340319	31.1315 ug/L	100
32) cis-1,2-Dichloroethene	8.85	96	174619	23.4153 ug/L	64
33) Chloroform	9.06	83	337760	26.6739 ug/L	100
34) Bromochloromethane	9.29	130	110931	23.6627 ug/L #	64
35) Tetrahydrofuran	9.32	42	221973	128.9300 ug/L	79
37) 1,1,1-Trichloroethane	9.60	97	329261	29.9609 ug/L	99
38) Cyclohexane	9.64	56	314444	24.0101 ug/L	87
39) 1,1-Dichloropropene	9.79	75	252167	27.6182 ug/L	91
40) Tert-Amyl-Methyl ether	9.92	73	1657893	104.5196 ug/L	91
41) Carbon Tetrachloride	9.94	117	322280	31.9331 ug/L	96
44) 1,2-Dichloroethane	10.09	62	320563	33.3267 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365594.D Vial: 7
Acq On : 8 Nov 2010 12:57 Operator: MES
Sample : WG347960-07 20 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 13:20:11 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 12:49:03 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

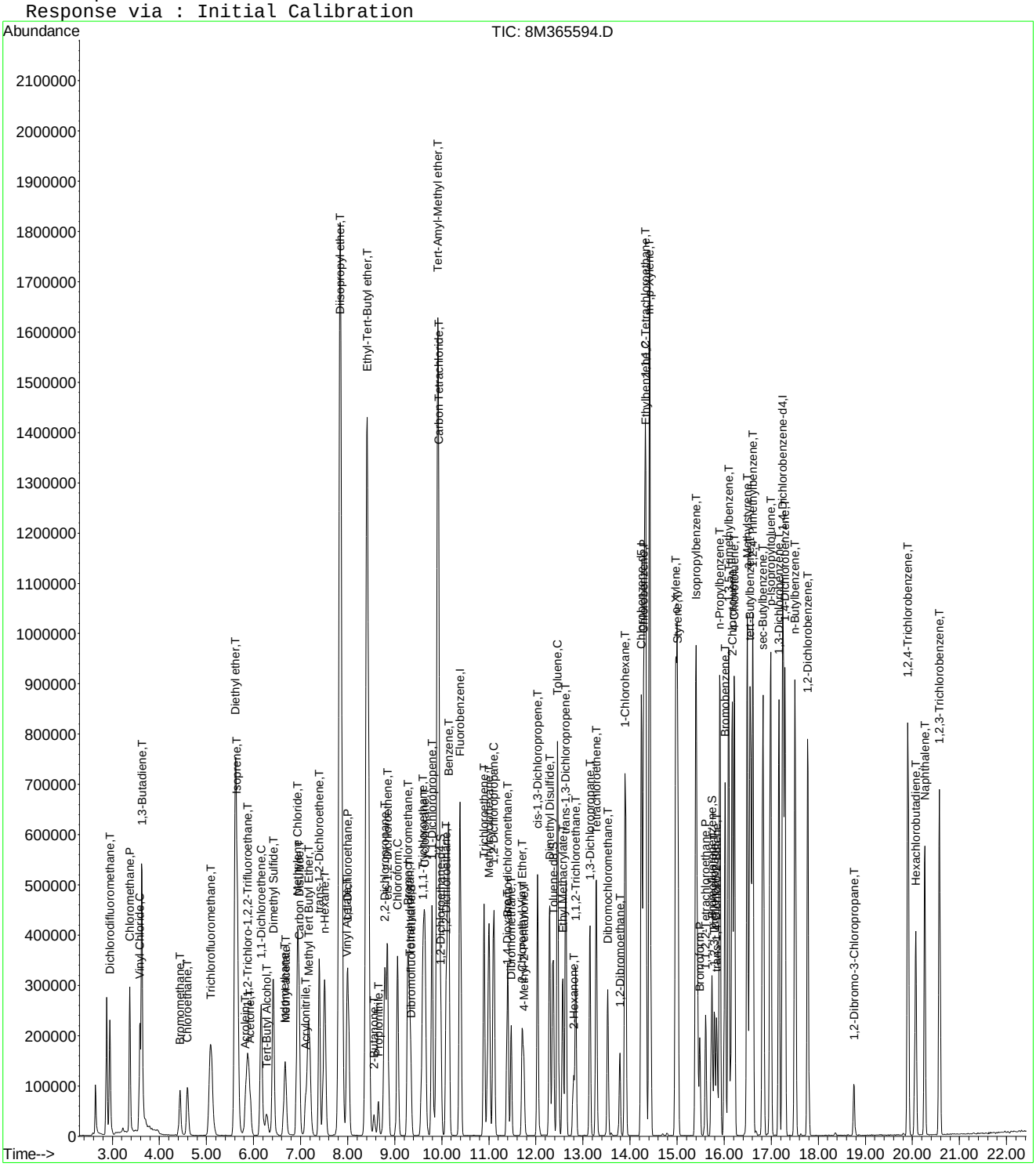
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	Benzene	10.14	78	627096	23.9429 ug/L	#	82
46)	Trichloroethene	10.90	130	183598	23.2327 ug/L		96
47)	Methylcyclohexane	11.00	83	209321	20.8832 ug/L		84
48)	1,2-Dichloropropane	11.11	63	182665	24.1871 ug/L		81
49)	Bromodichloromethane	11.39	83	253506	27.7350 ug/L		98
50)	1,4-Dioxane	11.38	88	7899	180.7604 ug/L		75
51)	Dibromomethane	11.48	93	98044	27.4562 ug/L		92
52)	2-Chloroethyl Vinyl Ether	11.70	63	88117	23.1520 ug/L		97
53)	4-Methyl-2-Pentanone	11.75	58	52692	26.3302 ug/L		91
54)	cis-1,3-Dichloropropene	12.04	75	287431	26.6012 ug/L		98
55)	Dimethyl Disulfide	12.29	94	270021	21.6380 ug/L		92
58)	Toluene	12.46	91	665128	22.9861 ug/L		99
59)	Ethyl Methacrylate	12.57	69	159835	22.6943 ug/L	#	38
60)	trans-1,3-Dichloropropene	12.64	75	274644	27.3020 ug/L		100
61)	1,1,2-Trichloroethane	12.84	97	120082	22.7338 ug/L		98
62)	2-Hexanone	12.80	58	49387	24.9705 ug/L		69
63)	1,3-Dichloropropane	13.15	76	226254	24.6402 ug/L	#	50
64)	Tetrachloroethene	13.29	164	153834	24.1988 ug/L		93
65)	Dibromochloromethane	13.52	129	187710	24.6526 ug/L		99
66)	1,2-Dibromoethane	13.78	107	137291	23.7811 ug/L		99
67)	1-Chlorohexane	13.90	91	217026	22.3624 ug/L		69
68)	Chlorobenzene	14.29	112	481095	22.4739 ug/L		88
69)	1,1,1,2-Tetrachloroethane	14.32	131	200224	24.9045 ug/L		99
70)	Ethylbenzene	14.33	106	255709	23.2957 ug/L		91
71)	m-,p-Xylene	14.41	106	634825	46.7496 ug/L		90
72)	o-Xylene	14.97	106	317480	23.1762 ug/L		89
73)	Styrene	15.01	104	526409	22.5624 ug/L		87
74)	Bromoform	15.48	173	122449	25.4510 ug/L		99
75)	Isopropylbenzene	15.41	105	837262	24.5293 ug/L		93
77)	1,1,2,2-Tetrachloroethane	15.60	83	138592	22.8575 ug/L		98
79)	1,2,3-Trichloropropane	15.79	110	48957	24.6372 ug/L		92
80)	trans-1,4-Dichloro-2-Buten	15.84	53	77548	32.8052 ug/L	#	64
81)	n-Propylbenzene	15.90	91	957900	23.2141 ug/L		94
82)	Bromobenzene	16.02	156	227924	22.5301 ug/L		92
83)	1,3,5-Trimethylbenzene	16.10	105	728270	24.0178 ug/L		90
84)	2-Chlorotoluene	16.17	91	614780	22.4920 ug/L		94
85)	4-Chlorotoluene	16.21	91	604129	24.7840 ug/L		91
86)	a-Methylstyrene	16.49	118	389648	22.0287 ug/L		93
87)	tert-Butylbenzene	16.55	134	144814	21.5244 ug/L		78
88)	1,2,4-Trimethylbenzene	16.61	105	757246	24.3307 ug/L		89
89)	sec-Butylbenzene	16.82	105	829312	23.1780 ug/L		94
90)	p-Isopropyltoluene	16.99	119	749022	22.2213 ug/L		97
91)	1,3-Dichlorobenzene	17.16	146	432383	22.1506 ug/L		98
92)	1,4-Dichlorobenzene	17.29	146	441867	22.5547 ug/L		96
93)	n-Butylbenzene	17.51	91	645218	23.4399 ug/L		94
94)	1,2-Dichlorobenzene	17.77	146	400327	22.3166 ug/L		96
95)	1,2-Dibromo-3-Chloropropan	18.77	75	33614	26.1426 ug/L		81
96)	1,2,4-Trichlorobenzene	19.90	180	301012	22.9576 ug/L		98
97)	Hexachlorobutadiene	20.07	225	104759	22.7335 ug/L		97
98)	Naphthalene	20.27	128	568239	23.1549 ug/L		100
99)	1,2,3-Trichlorobenzene	20.58	180	257354	22.2817 ug/L		97

(#) = qualifier out of range (m) = manual integration
8M365594.D 8260WTR.M Mon Nov 08 13:20:13 2010 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365594.D Vial: 7
Acq On : 8 Nov 2010 12:57 Operator: MES
Sample : WG347960-07 20 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 8 13:20 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 12:49:03 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365595.D Vial: 8
Acq On : 8 Nov 2010 13:29 Operator: MES
Sample : WG347960-08 50 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 13:51:35 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 12:49:03 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	725868	25.00 ug/L	-0.03
56) Chlorobenzene-d5	14.25	117	589586	25.00 ug/L	-0.02
76) 1,4-Dichlorobenzene-d4	17.25	152	360638	25.00 ug/L	-0.03
System Monitoring Compounds					
36) Dibromofluoromethane	9.35	111	230211	31.6395 ug/L	-0.03
Spiked Amount 25.000	Range 86 - 118		Recovery = 126.56%#		
42) 1,2-Dichloroethane-d4	9.98	65	300895	39.9409 ug/L	-0.03
Spiked Amount 25.000	Range 80 - 120		Recovery = 159.76%#		
57) Toluene-d8	12.37	98	724650	27.5940 ug/L	-0.03
Spiked Amount 25.000	Range 88 - 110		Recovery = 110.36%#		
78) p-Bromofluorobenzene	15.74	95	323832	27.5644 ug/L	-0.03
Spiked Amount 25.000	Range 86 - 115		Recovery = 110.24%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.95	85	642802	73.2475 ug/L	100
3) Chloromethane	3.37	50	844885	66.6537 ug/L	98
4) Vinyl Chloride	3.58	62	595224	80.2853 ug/L	99
5) 1,3-Butadiene	3.62	54	685071	105.3178 ug/L	87
6) Bromomethane	4.43	94	249094	54.7468 ug/L	95
7) Chloroethane	4.59	64	331073	61.8995 ug/L #	86
8) Trichlorofluoromethane	5.09	101	926226	82.8946 ug/L	99
9) Diethyl ether	5.61	59	750818	133.2536 ug/L	81
10) Isoprene	5.64	67	619148	60.3901 ug/L	70
11) Acrolein	5.82	56	88109	140.4237 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	5.87	101	437886	65.3578 ug/L	96
13) Acetone	5.92	43	144816	82.3289 ug/L	82
14) 1,1-Dichloroethene	6.16	61	887635	75.9561 ug/L	81
15) Tert-Butyl Alcohol	6.29	59	120086	268.4391 ug/L	89
16) Dimethyl Sulfide	6.42	62	508377	54.5137 ug/L #	55
17) Iodomethane	6.66	142	492404	53.2255 ug/L	84
18) Methyl acetate	6.69	43	450613	80.7040 ug/L	90
19) Methylene Chloride	6.93	84	401360	52.3363 ug/L #	46
20) Carbon Disulfide	6.97	76	1145024	55.3899 ug/L	100
21) Acrylonitrile	7.10	53	166484	68.8021 ug/L	97
22) Methyl Tert Butyl Ether	7.17	73	1050711	69.5395 ug/L	98
23) trans-1,2-Dichloroethene	7.39	61	795168	71.1128 ug/L	84
24) n-Hexane	7.51	57	599409	57.2473 ug/L	72
25) Diisopropyl ether	7.85	45	4715424	163.5646 ug/L	92
26) Vinyl Acetate	7.99	43	918668	73.9519 ug/L #	91
27) 1,1-Dichloroethane	8.01	63	908473	66.8211 ug/L	99
28) Ethyl-Tert-Butyl ether	8.42	59	3288700	143.3578 ug/L	94
29) 2-Butanone	8.56	43	211967	80.2179 ug/L	85
30) Propionitrile	8.65	54	110439	137.7186 ug/L	92
31) 2,2-Dichloropropane	8.79	77	842569	75.5989 ug/L	100
32) cis-1,2-Dichloroethene	8.85	96	438634	57.6909 ug/L	65
33) Chloroform	9.06	83	842251	65.2402 ug/L	100
34) Bromochloromethane	9.28	130	278133	58.1915 ug/L #	65
35) Tetrahydrofuran	9.32	42	279166	159.0423 ug/L	80
37) 1,1,1-Trichloroethane	9.59	97	831577	74.2188 ug/L	99
38) Cyclohexane	9.64	56	803531	60.1796 ug/L	87
39) 1,1-Dichloropropene	9.79	75	631514	67.8399 ug/L	92
40) Tert-Amyl-Methyl ether	9.91	73	2102032	129.9800 ug/L	92
41) Carbon Tetrachloride	9.94	117	806897	78.4191 ug/L	97
44) 1,2-Dichloroethane	10.09	62	801667	81.7464 ug/L	98

(#) = qualifier out of range (m) = manual integration
8M365595.D 8260WTR.M Mon Nov 08 13:51:37 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365595.D Vial: 8
Acq On : 8 Nov 2010 13:29 Operator: MES
Sample : WG347960-08 50 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 13:51:35 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 12:49:03 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

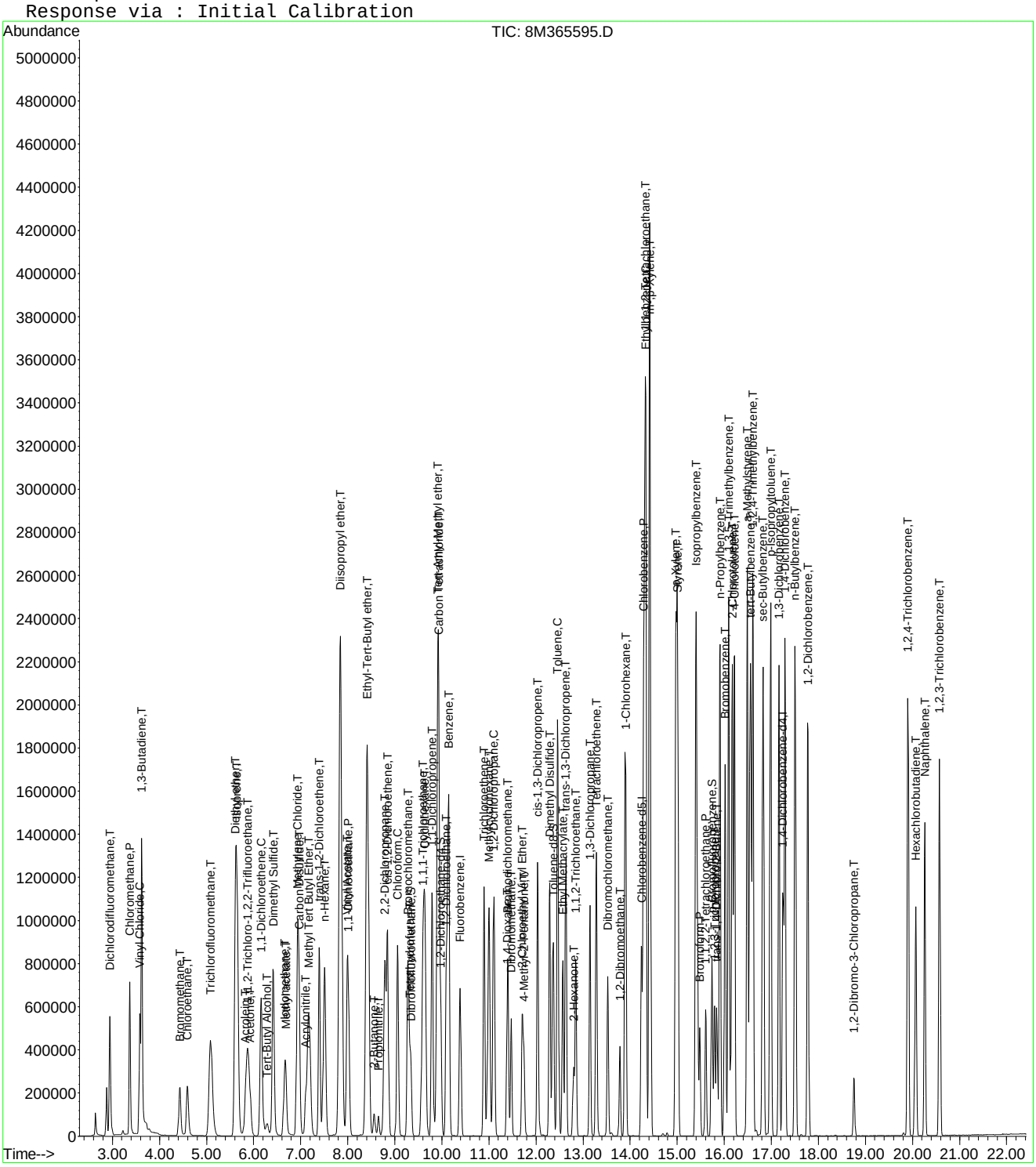
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	Benzene	10.14	78	1553357	58.1714	ug/L	#	81
46)	Trichloroethene	10.90	130	465877	57.8228	ug/L		97
47)	Methylcyclohexane	11.00	83	524773	51.3512	ug/L		83
48)	1,2-Dichloropropane	11.10	63	467039	60.6566	ug/L		83
49)	Bromodichloromethane	11.39	83	640025	68.6804	ug/L		99
50)	1,4-Dioxane	11.38	88	10820	242.8592	ug/L		84
51)	Dibromomethane	11.48	93	242780	66.6851	ug/L		93
52)	2-Chloroethyl Vinyl Ether	11.70	63	242194	62.4148	ug/L		95
53)	4-Methyl-2-Pentanone	11.74	58	131218	64.3130	ug/L		93
54)	cis-1,3-Dichloropropene	12.03	75	709536	64.4077	ug/L		98
55)	Dimethyl Disulfide	12.29	94	688228	54.0940	ug/L		91
58)	Toluene	12.46	91	1666862	56.4970	ug/L		98
59)	Ethyl Methacrylate	12.57	69	404627	56.3463	ug/L	#	41
60)	trans-1,3-Dichloropropene	12.63	75	688698	67.1458	ug/L		100
61)	1,1,2-Trichloroethane	12.84	97	301520	55.9857	ug/L		99
62)	2-Hexanone	12.80	58	120624	59.8155	ug/L	#	67
63)	1,3-Dichloropropane	13.15	76	556287	59.4174	ug/L	#	48
64)	Tetrachloroethene	13.29	164	384060	59.2525	ug/L		93
65)	Dibromochloromethane	13.52	129	479670	61.7852	ug/L		100
66)	1,2-Dibromoethane	13.78	107	341709	58.0515	ug/L		99
67)	1-Chlorohexane	13.91	91	545741	55.1518	ug/L		68
68)	Chlorobenzene	14.29	112	1193604	54.6856	ug/L		88
69)	1,1,1,2-Tetrachloroethane	14.32	131	508053	61.9778	ug/L		99
70)	Ethylbenzene	14.33	106	643425	57.4902	ug/L		92
71)	m-,p-Xylene	14.42	106	1575132	113.7645	ug/L		92
72)	o-Xylene	14.97	106	795084	56.9252	ug/L		91
73)	Styrene	15.01	104	1326750	55.7722	ug/L		87
74)	Bromoform	15.48	173	315291	64.2728	ug/L		100
75)	Isopropylbenzene	15.40	105	2067014	59.3929	ug/L		93
77)	1,1,2,2-Tetrachloroethane	15.60	83	340498	54.5481	ug/L		98
79)	1,2,3-Trichloropropane	15.80	110	121878	59.5766	ug/L		93
80)	trans-1,4-Dichloro-2-Buten	15.84	53	195170	80.1971	ug/L	#	66
81)	n-Propylbenzene	15.91	91	2375925	55.9292	ug/L		95
82)	Bromobenzene	16.02	156	570347	54.7629	ug/L		92
83)	1,3,5-Trimethylbenzene	16.10	105	1823639	58.4189	ug/L		91
84)	2-Chlorotoluene	16.17	91	1538858	54.6866	ug/L		93
85)	4-Chlorotoluene	16.22	91	1530084	60.9720	ug/L		92
86)	a-Methylstyrene	16.49	118	990311	54.3828	ug/L		94
87)	tert-Butylbenzene	16.55	134	363651	52.5023	ug/L		77
88)	1,2,4-Trimethylbenzene	16.60	105	1877717	58.6032	ug/L		90
89)	sec-Butylbenzene	16.82	105	2075850	56.3543	ug/L		95
90)	p-Isopropyltoluene	16.99	119	1871122	53.9200	ug/L		97
91)	1,3-Dichlorobenzene	17.16	146	1086303	54.0558	ug/L		97
92)	1,4-Dichlorobenzene	17.29	146	1107649	54.9189	ug/L		97
93)	n-Butylbenzene	17.50	91	1610578	56.8336	ug/L		95
94)	1,2-Dichlorobenzene	17.78	146	1010843	54.7356	ug/L		96
95)	1,2-Dibromo-3-Chloropropan	18.75	75	88555	66.8982	ug/L		77
96)	1,2,4-Trichlorobenzene	19.90	180	765200	56.6880	ug/L		100
97)	Hexachlorobutadiene	20.07	225	266030	56.0763	ug/L		95
98)	Naphthalene	20.26	128	1388383	54.9535	ug/L		99
99)	1,2,3-Trichlorobenzene	20.57	180	649609	54.6315	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M365595.D 8260WTR.M Mon Nov 08 13:51:38 2010 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365595.D Vial: 8
Acq On : 8 Nov 2010 13:29 Operator: MES
Sample : WG347960-08 50 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 8 13:51 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 12:49:03 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365596.D Vial: 9
Acq On : 8 Nov 2010 14:00 Operator: MES
Sample : WG347960-09 100 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 14:21:38 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 14:21:27 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	745304	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.25	117	599483	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.25	152	375203	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.34	111	460403	56.7110 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 226.84%#		
42) 1,2-Dichloroethane-d4	9.98	65	607367	65.4017 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 261.60%#		
57) Toluene-d8	12.36	98	1420735	51.6253 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 206.52%#		
78) p-Bromofluorobenzene	15.73	95	640615	51.2345 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 204.92%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.94	85	1260698	122.9289 ug/L	99
3) Chloromethane	3.37	50	1669964	114.7420 ug/L	100
4) Vinyl Chloride	3.58	62	1179386	134.4275 ug/L	99
5) 1,3-Butadiene	3.62	54	1297743	129.9016 ug/L	99
6) Bromomethane	4.41	94	523034	111.6596 ug/L	99
7) Chloroethane	4.58	64	654913	112.8674 ug/L	99
8) Trichlorofluoromethane	5.07	101	1816713	136.9535 ug/L	99
9) Diethyl ether	5.61	59	1518991	236.9490 ug/L	99
10) Isoprene	5.64	67	1220355	109.6985 ug/L	99
11) Acrolein	5.82	56	192083	257.4242 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	5.87	101	867090	117.6530 ug/L	99
13) Acetone	5.93	43	298941	131.4075 ug/L	96
14) 1,1-Dichloroethene	6.16	61	1786971	131.4769 ug/L	98
15) Tert-Butyl Alcohol	6.32	59	267794	504.6592 ug/L	96
16) Dimethyl Sulfide	6.42	62	1021474	104.4792 ug/L	99
17) Iodomethane	6.66	142	1001614	108.7685 ug/L	99
18) Methyl acetate	6.69	43	942208	128.5011 ug/L	99
19) Methylene Chloride	6.93	84	806047	98.3905 ug/L	98
20) Carbon Disulfide	6.97	76	2266829	103.9882 ug/L	100
21) Acrylonitrile	7.10	53	353586	124.4900 ug/L	99
22) Methyl Tert Butyl Ether	7.17	73	2177477	125.2377 ug/L	100
23) trans-1,2-Dichloroethene	7.39	61	1572971	124.0581 ug/L	100
24) n-Hexane	7.50	57	1227108	109.9262 ug/L	99
25) Diisopropyl ether	7.85	45	9165923	256.8959 ug/L	99
26) Vinyl Acetate	7.99	43	1911733	126.2823 ug/L	100
27) 1,1-Dichloroethane	8.01	63	1800374	118.7646 ug/L	99
28) Ethyl-Tert-Butyl ether	8.41	59	6570512	245.4145 ug/L	99
29) 2-Butanone	8.57	43	454384	133.9063 ug/L	100
30) Propionitrile	8.65	54	241410	262.6645 ug/L	99
31) 2,2-Dichloropropane	8.79	77	1702755	130.6819 ug/L	100
32) cis-1,2-Dichloroethene	8.85	96	873059	108.2078 ug/L	99
33) Chloroform	9.06	83	1668709	116.6086 ug/L	100
34) Bromochloromethane	9.28	130	559206	110.3194 ug/L	99
35) Tetrahydrofuran	9.31	42	596135	273.6638 ug/L	100
37) 1,1,1-Trichloroethane	9.59	97	1636667	126.7754 ug/L	99
38) Cyclohexane	9.63	56	1609532	111.3176 ug/L	99
39) 1,1-Dichloropropene	9.79	75	1270261	122.5154 ug/L	99
40) Tert-Amyl-Methyl ether	9.91	73	4259395	234.5488 ug/L	100
41) Carbon Tetrachloride	9.93	117	1566151	129.4605 ug/L	100
44) 1,2-Dichloroethane	10.10	62	1601454	135.1539 ug/L	99

(#) = qualifier out of range (m) = manual integration
8M365596.D 8260WTR.M Mon Nov 08 14:21:40 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365596.D Vial: 9
Acq On : 8 Nov 2010 14:00 Operator: MES
Sample : WG347960-09 100 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 14:21:38 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 14:21:27 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

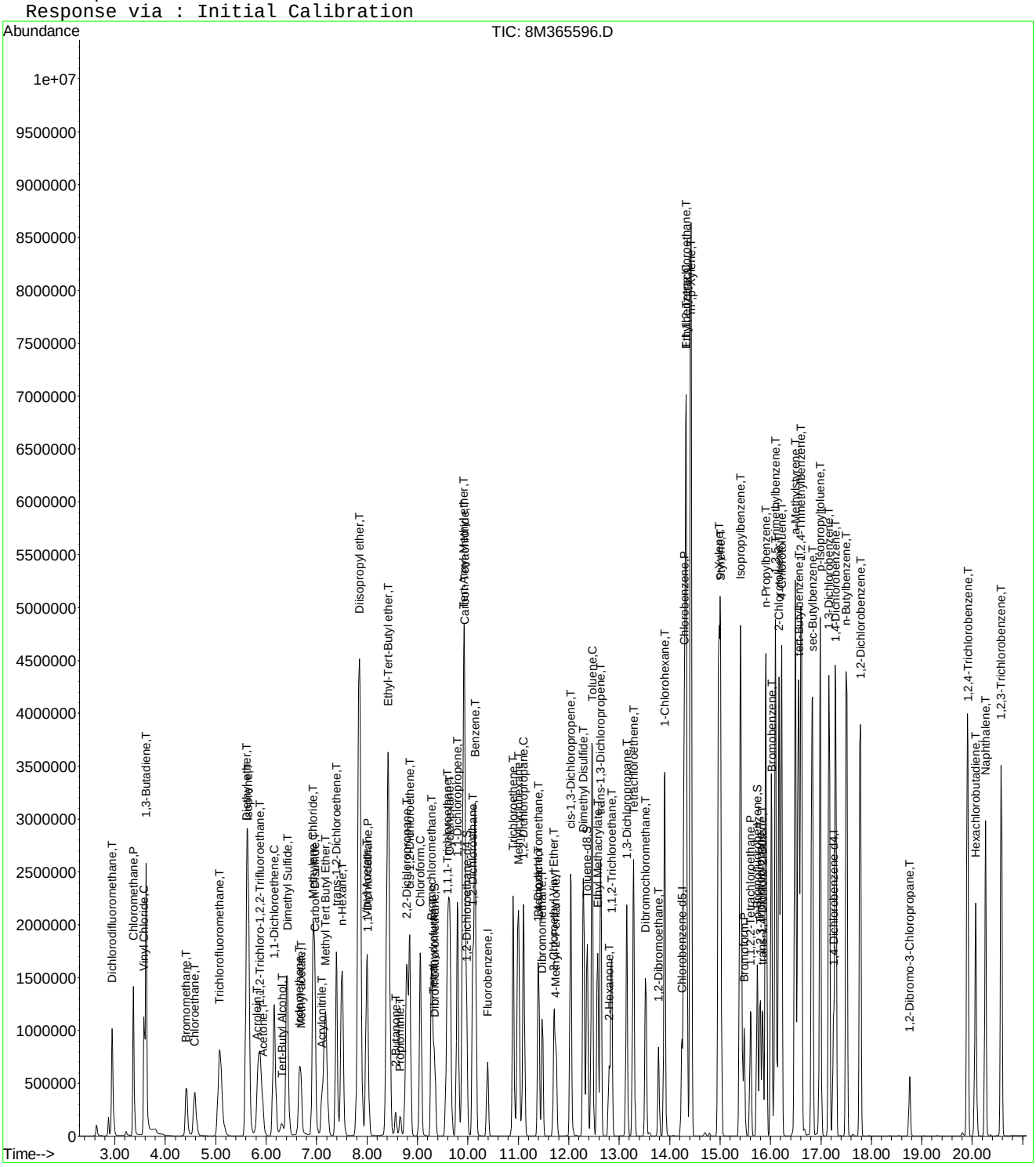
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	Benzene	10.14	78	3048128	106.0583 ug/L	99
46)	Trichloroethene	10.90	130	918693	108.1274 ug/L	99
47)	Methylcyclohexane	11.00	83	1070045	102.2811 ug/L	98
48)	1,2-Dichloropropane	11.10	63	927034	111.7763 ug/L	98
49)	Bromodichloromethane	11.40	83	1275910	121.6475 ug/L	100
50)	1,4-Dioxane	11.39	88	22832	469.2586 ug/L	99
51)	Dibromomethane	11.47	93	482398	119.7114 ug/L	97
52)	2-Chloroethyl Vinyl Ether	11.70	63	502131	120.9808 ug/L	98
53)	4-Methyl-2-Pentanone	11.74	58	279466	121.0833 ug/L	100
54)	cis-1,3-Dichloropropene	12.03	75	1424286	117.1804 ug/L	99
55)	Dimethyl Disulfide	12.29	94	1409623	105.9191 ug/L	100
58)	Toluene	12.47	91	3235309	104.4893 ug/L	98
59)	Ethyl Methacrylate	12.57	69	854515	113.4591 ug/L	98
60)	trans-1,3-Dichloropropene	12.63	75	1392347	123.1103 ug/L	99
61)	1,1,2-Trichloroethane	12.85	97	610459	109.1849 ug/L	99
62)	2-Hexanone	12.80	58	261050	118.4985 ug/L	97
63)	1,3-Dichloropropane	13.15	76	1136008	113.9280 ug/L	99
64)	Tetrachloroethene	13.28	164	770117	112.8945 ug/L	99
65)	Dibromochloromethane	13.52	129	984339	118.4467 ug/L	99
66)	1,2-Dibromoethane	13.78	107	701943	114.0059 ug/L	99
67)	1-Chlorohexane	13.90	91	1092740	107.6701 ug/L	100
68)	Chlorobenzene	14.29	112	2341167	102.9686 ug/L	99
69)	1,1,1,2-Tetrachloroethane	14.33	131	1011742	115.3801 ug/L	100
70)	Ethylbenzene	14.33	106	1269464	108.1335 ug/L	98
71)	m-,p-Xylene	14.42	106	3077484	211.3898 ug/L	98
72)	o-Xylene	14.98	106	1583695	108.1969 ug/L	98
73)	Styrene	15.01	104	2630493	105.7908 ug/L	99
74)	Bromoform	15.48	173	657816	122.8630 ug/L	99
75)	Isopropylbenzene	15.40	105	4052907	109.3910 ug/L	100
77)	1,1,2,2-Tetrachloroethane	15.60	83	718414	107.7600 ug/L	100
79)	1,2,3-Trichloropropane	15.80	110	253451	112.6608 ug/L	92
80)	trans-1,4-Dichloro-2-Buten	15.84	53	414603	138.4256 ug/L	98
81)	n-Propylbenzene	15.91	91	4611367	101.4256 ug/L	99
82)	Bromobenzene	16.02	156	1135154	102.7227 ug/L	99
83)	1,3,5-Trimethylbenzene	16.10	105	3579554	105.7847 ug/L	100
84)	2-Chlorotoluene	16.17	91	2949849	98.2711 ug/L	99
85)	4-Chlorotoluene	16.22	91	3082673	111.5928 ug/L	100
86)	a-Methylstyrene	16.49	118	1972384	102.4822 ug/L	99
87)	tert-Butylbenzene	16.56	134	726456	100.9513 ug/L	92
88)	1,2,4-Trimethylbenzene	16.60	105	3666955	105.3188 ug/L	99
89)	sec-Butylbenzene	16.83	105	4057818	103.3890 ug/L	99
90)	p-Isopropyltoluene	16.99	119	3674392	100.5887 ug/L	98
91)	1,3-Dichlorobenzene	17.16	146	2145781	100.6255 ug/L	99
92)	1,4-Dichlorobenzene	17.30	146	2180134	101.7654 ug/L	99
93)	n-Butylbenzene	17.50	91	3155394	103.8294 ug/L	98
94)	1,2-Dichlorobenzene	17.78	146	1998220	101.9699 ug/L	100
95)	1,2-Dibromo-3-Chloropropan	18.75	75	182662	118.4366 ug/L	97
96)	1,2,4-Trichlorobenzene	19.91	180	1532370	105.9615 ug/L	100
97)	Hexachlorobutadiene	20.07	225	560210	110.8227 ug/L	97
98)	Naphthalene	20.26	128	2797834	103.6648 ug/L	99
99)	1,2,3-Trichlorobenzene	20.57	180	1322336	104.1302 ug/L	100

(#) = qualifier out of range (m) = manual integration
8M365596.D 8260WTR.M Mon Nov 08 14:21:40 2010 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365596.D Vial: 9
Acq On : 8 Nov 2010 14:00 Operator: MES
Sample : WG347960-09 100 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 8 14:21 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 14:21:27 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365597.D Vial: 10
Acq On : 8 Nov 2010 14:31 Operator: MES
Sample : WG347960-10 200 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 14:54:23 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 14:22:02 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.39	96	719649	25.00	ug/L		0.00
56) Chlorobenzene-d5	14.25	117	591076	25.00	ug/L		0.00
76) 1,4-Dichlorobenzene-d4	17.25	152	360092	25.00	ug/L		0.00
System Monitoring Compounds							
36) Dibromofluoromethane	9.34	111	907465	111.6244	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 446.48%#				
42) 1,2-Dichloroethane-d4	9.98	65	1152212	118.6158	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 474.48%#				
57) Toluene-d8	12.36	98	2762241	100.2678	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 401.08%#				
78) p-Bromofluorobenzene	15.73	95	1234443	101.7301	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 406.92%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.94	85	2411586	231.0523	ug/L		99
3) Chloromethane	3.37	50	3370634	229.1358	ug/L		98
4) Vinyl Chloride	3.58	62	2269955	251.2078	ug/L		100
5) 1,3-Butadiene	3.62	54	2321182	207.9954	ug/L		98
6) Bromomethane	4.40	94	1050536	226.9851	ug/L		100
7) Chloroethane	4.58	64	1253720	218.7383	ug/L		99
8) Trichlorofluoromethane	5.06	101	3509387	257.8717	ug/L		99
9) Diethyl ether	5.63	59	3407	0.5218	ug/L	#	77
10) Isoprene	5.63	67	2420814	219.1308	ug/L		99
11) Acrolein	5.82	56	380771	485.8667	ug/L		99
12) 1,1,2-Trichloro-1,2,2-Trif	5.86	101	1669059	226.3377	ug/L		98
13) Acetone	5.94	43	547066	224.0720	ug/L		97
14) 1,1-Dichloroethene	6.15	61	3447188	247.6252	ug/L		99
16) Dimethyl Sulfide	6.41	62	2006606	209.9665	ug/L		99
17) Iodomethane	6.66	142	1938478	220.6863	ug/L		92
18) Methyl acetate	6.69	43	1769227	223.8187	ug/L		99
19) Methylene Chloride	6.93	84	1553225	193.0139	ug/L		97
20) Carbon Disulfide	6.96	76	4367551	204.7220	ug/L		99
21) Acrylonitrile	7.11	53	641455	217.4520	ug/L		100
22) Methyl Tert Butyl Ether	7.17	73	4163995	232.7408	ug/L		100
23) trans-1,2-Dichloroethene	7.39	61	3057605	238.2731	ug/L		99
24) n-Hexane	7.49	57	2389222	216.6557	ug/L		98
25) Diisopropyl ether	7.86	45	5890	0.1582	ug/L	#	88
26) Vinyl Acetate	7.99	43	3609589	228.1154	ug/L		99
27) 1,1-Dichloroethane	8.01	63	3545301	233.0195	ug/L		99
28) Ethyl-Tert-Butyl ether	8.42	59	11976	0.4360	ug/L	#	56
29) 2-Butanone	8.57	43	804801	221.1570	ug/L		99
30) Propionitrile	8.56	54	1428	1.5087	ug/L	#	1
31) 2,2-Dichloropropane	8.79	77	3238768	242.8000	ug/L		99
32) cis-1,2-Dichloroethene	8.85	96	1696749	214.0913	ug/L		99
33) Chloroform	9.06	83	3192666	223.0991	ug/L		98
34) Bromochloromethane	9.28	130	1082073	217.2278	ug/L		98
35) Tetrahydrofuran	9.32	42	4602	1.9930	ug/L	#	61
37) 1,1,1-Trichloroethane	9.59	97	3141897	239.6082	ug/L		99
38) Cyclohexane	9.63	56	3156014	219.7502	ug/L		99
39) 1,1-Dichloropropene	9.79	75	2428411	233.1930	ug/L		100
40) Tert-Amyl-Methyl ether	9.92	73	4400	0.2393	ug/L	#	62
41) Carbon Tetrachloride	9.93	117	3025935	244.7472	ug/L		99
44) 1,2-Dichloroethane	10.10	62	3020111	245.9063	ug/L		99
45) Benzene	10.14	78	5752289	203.0064	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M365597.D 8260WTR.M Mon Nov 08 14:54:25 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365597.D Vial: 10
Acq On : 8 Nov 2010 14:31 Operator: MES
Sample : WG347960-10 200 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 14:54:23 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 14:22:02 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

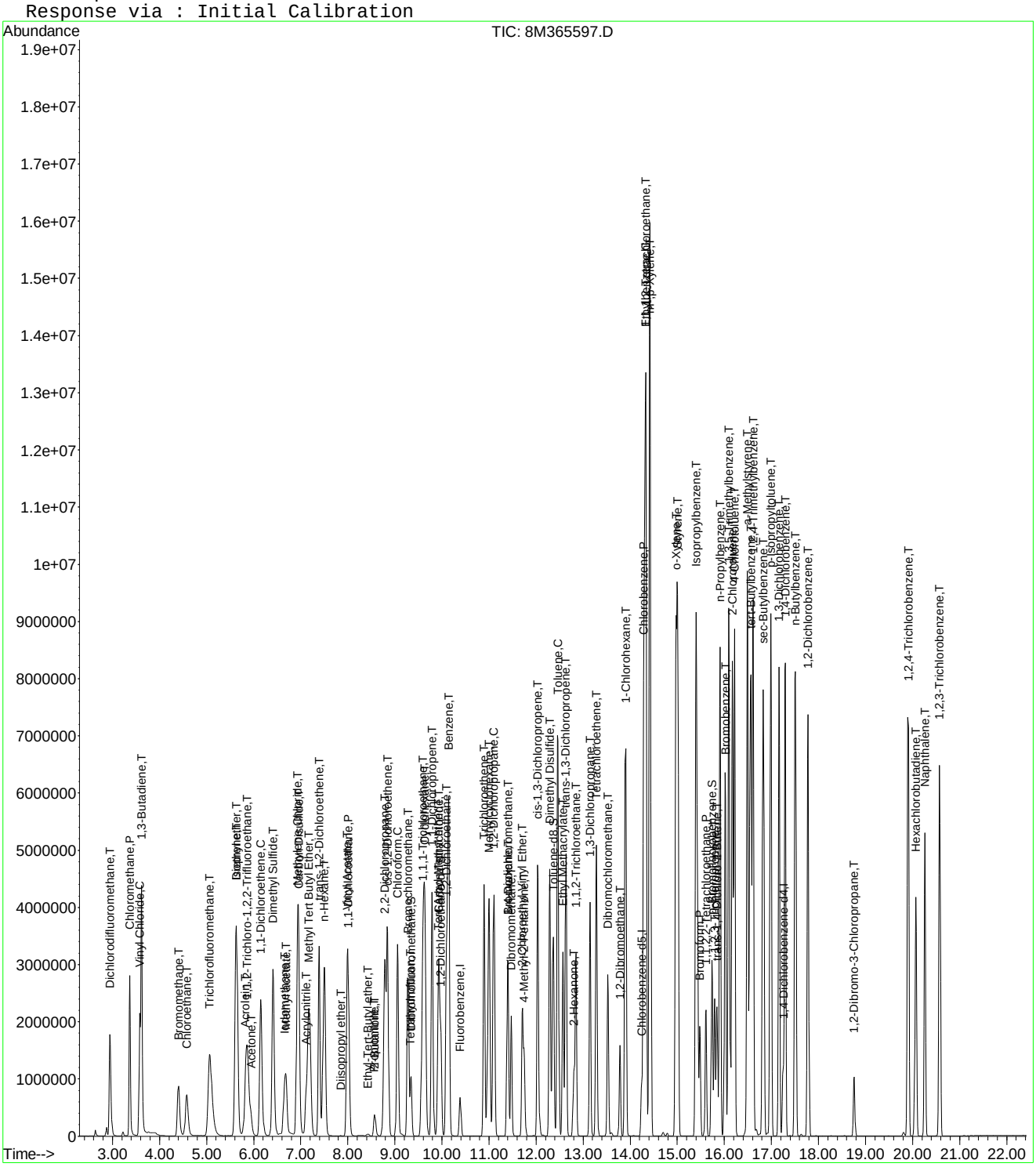
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Trichloroethene	10.90	130	1762818	212.1572	ug/L		99
47)	Methylcyclohexane	11.00	83	2087072	206.5119	ug/L		99
48)	1,2-Dichloropropane	11.10	63	1800247	220.0373	ug/L		99
49)	Bromodichloromethane	11.40	83	2468667	234.0843	ug/L		100
50)	1,4-Dioxane	11.40	88	3458	70.4513	ug/L	#	30
51)	Dibromomethane	11.47	93	925676	230.0992	ug/L		97
52)	2-Chloroethyl Vinyl Ether	11.70	63	984280	238.3720	ug/L		98
53)	4-Methyl-2-Pentanone	11.74	58	499217	211.6140	ug/L		99
54)	cis-1,3-Dichloropropene	12.03	75	2734339	225.8939	ug/L		98
55)	Dimethyl Disulfide	12.29	94	2758585	211.9766	ug/L		100
58)	Toluene	12.47	91	6062872	195.6379	ug/L		97
59)	Ethyl Methacrylate	12.57	69	1613444	210.4200	ug/L		98
60)	trans-1,3-Dichloropropene	12.63	75	2648829	227.6426	ug/L		98
61)	1,1,2-Trichloroethane	12.85	97	1168937	208.5317	ug/L		100
62)	2-Hexanone	12.80	58	471307	206.1031	ug/L		95
63)	1,3-Dichloropropane	13.15	76	2157834	213.8178	ug/L		98
64)	Tetrachloroethene	13.28	164	1491893	217.7755	ug/L		99
65)	Dibromochloromethane	13.52	129	1878929	222.4091	ug/L		99
66)	1,2-Dibromoethane	13.78	107	1333536	215.1236	ug/L		100
67)	1-Chlorohexane	13.90	91	2093977	207.7553	ug/L		99
68)	Chlorobenzene	14.29	112	4386379	193.5465	ug/L		96
69)	1,1,1,2-Tetrachloroethane	14.33	131	1932280	217.7139	ug/L		99
70)	Ethylbenzene	14.33	106	2442542	208.0283	ug/L		92
71)	m-,p-Xylene	14.42	106	5733927	392.9802	ug/L		89
72)	o-Xylene	14.98	106	2988921	203.8552	ug/L		96
73)	Styrene	15.01	104	4951757	198.9570	ug/L		97
74)	Bromoform	15.48	173	1249300	226.4723	ug/L		100
75)	Isopropylbenzene	15.40	105	7408880	198.6451	ug/L		97
77)	1,1,2,2-Tetrachloroethane	15.61	83	1325289	203.3780	ug/L		100
79)	1,2,3-Trichloropropane	15.80	110	478673	214.3621	ug/L		95
80)	trans-1,4-Dichloro-2-Buten	15.85	53	786884	252.0591	ug/L		97
81)	n-Propylbenzene	15.91	91	8297774	188.1240	ug/L		96
82)	Bromobenzene	16.02	156	2157964	201.7893	ug/L		99
83)	1,3,5-Trimethylbenzene	16.10	105	6617274	200.5118	ug/L		98
84)	2-Chlorotoluene	16.17	91	5439003	187.2127	ug/L		90
85)	4-Chlorotoluene	16.22	91	5752189	211.2350	ug/L		94
86)	a-Methylstyrene	16.49	118	3718739	199.9025	ug/L		97
87)	tert-Butylbenzene	16.56	134	1405761	204.2321	ug/L		93
88)	1,2,4-Trimethylbenzene	16.61	105	6710165	197.3507	ug/L		97
89)	sec-Butylbenzene	16.83	105	7416836	195.3649	ug/L		97
90)	p-Isopropyltoluene	16.99	119	6698750	190.5725	ug/L		97
91)	1,3-Dichlorobenzene	17.16	146	3996573	193.9617	ug/L		97
92)	1,4-Dichlorobenzene	17.30	146	4059342	195.9692	ug/L		98
93)	n-Butylbenzene	17.51	91	5805397	197.0510	ug/L		97
94)	1,2-Dichlorobenzene	17.78	146	3701249	195.2600	ug/L		99
95)	1,2-Dibromo-3-Chloropropan	18.75	75	342300	217.7494	ug/L		97
96)	1,2,4-Trichlorobenzene	19.91	180	2851046	203.0030	ug/L		99
97)	Hexachlorobutadiene	20.07	225	1090872	222.8042	ug/L		99
98)	Naphthalene	20.26	128	4922410	187.1671	ug/L		98
99)	1,2,3-Trichlorobenzene	20.57	180	2444666	197.6502	ug/L		99

(#) = qualifier out of range (m) = manual integration
8M365597.D 8260WTR.M Mon Nov 08 14:54:25 2010 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365597.D Vial: 10
Acq On : 8 Nov 2010 14:31 Operator: MES
Sample : WG347960-10 200 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 8 14:54 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 14:22:02 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\110810\8M365598.D Vial: 11
Acq On : 8 Nov 2010 15:03 Operator: MES
Sample : WG347960-11 300 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 15:25:53 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 14:55:37 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

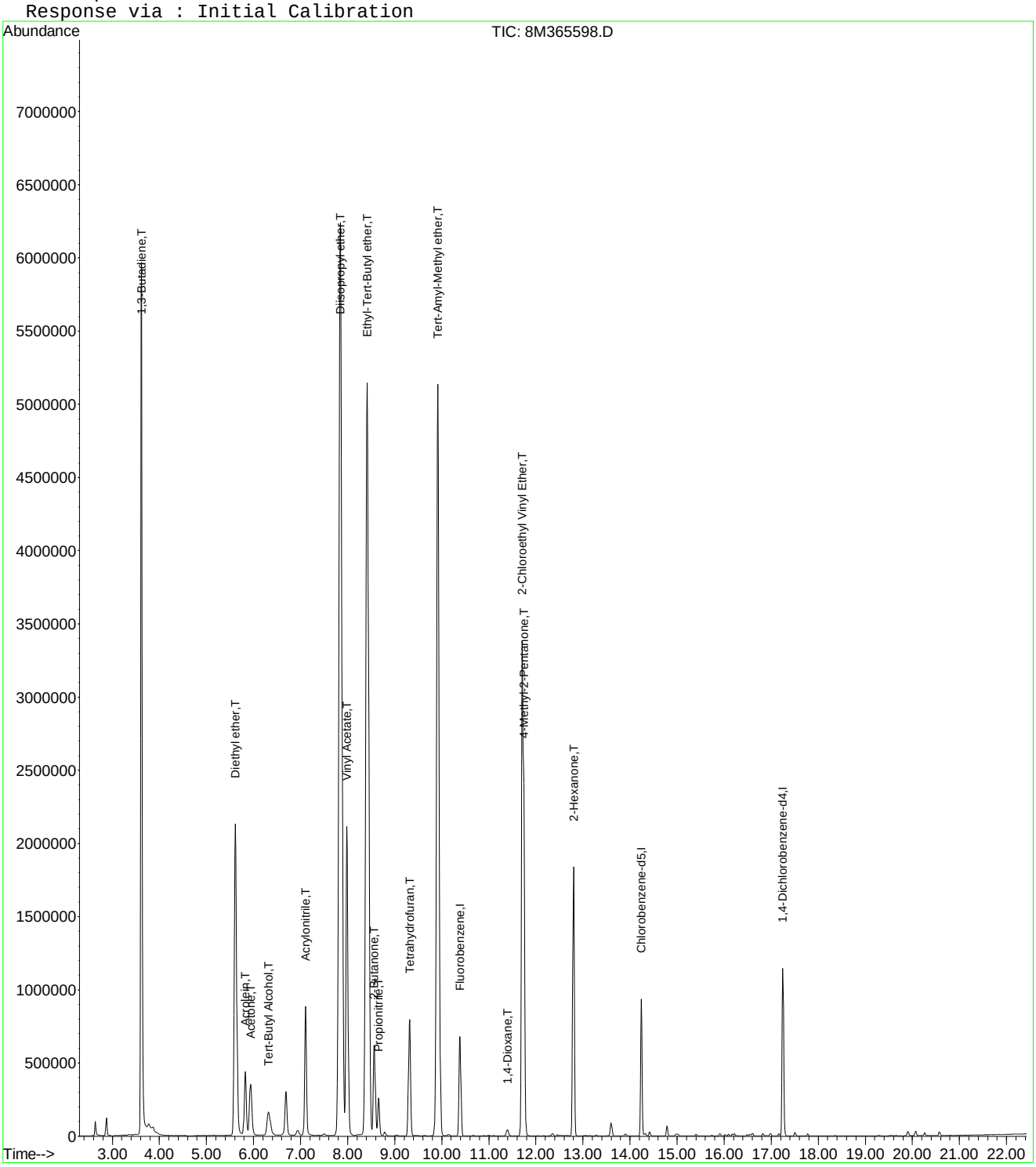
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.39	96	754854	25.00	ug/L	0.00
56) Chlorobenzene-d5	14.24	117	606463	25.00	ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.25	152	377113	25.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	0.00	111	0d	0.0000	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#		
42) 1,2-Dichloroethane-d4	0.00	65	0d	0.0000	ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#		
57) Toluene-d8	0.00	98	0d	0.0000	ug/L	
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.00%#		
78) p-Bromofluorobenzene	0.00	95	0d	0.0000	ug/L	
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.00%#		
Target Compounds						Qvalue
5) 1,3-Butadiene	3.62	54	3309764	251.1592	ug/L	98
9) Diethyl ether	5.62	59	2244105	327.6666	ug/L	99
11) Acrolein	5.82	56	580110	653.0703	ug/L	98
13) Acetone	5.94	43	826026	296.0297	ug/L	93
15) Tert-Butyl Alcohol	6.32	59	436127	747.0938	ug/L	91
21) Acrylonitrile	7.10	53	953603	291.6508	ug/L	94
25) Diisopropyl ether	7.85	45	12723643	325.7957	ug/L	98
26) Vinyl Acetate	7.98	43	5083500	284.4557	ug/L	99
28) Ethyl-Tert-Butyl ether	8.42	59	9383704	325.6908	ug/L	98
29) 2-Butanone	8.56	43	1294600	313.4456	ug/L	99
30) Propionitrile	8.66	54	359229	361.8402	ug/L	99
35) Tetrahydrofuran	9.32	42	871134	359.6677	ug/L	98
40) Tert-Amyl-Methyl ether	9.92	73	6119734	317.3391	ug/L	99
50) 1,4-Dioxane	11.40	88	34359	667.3636	ug/L	91
52) 2-Chloroethyl Vinyl Ether	11.71	63	1435072	320.6804	ug/L	99
53) 4-Methyl-2-Pentanone	11.75	58	820018	316.8480	ug/L	99
62) 2-Hexanone	12.80	58	772794	315.8301	ug/L #	56

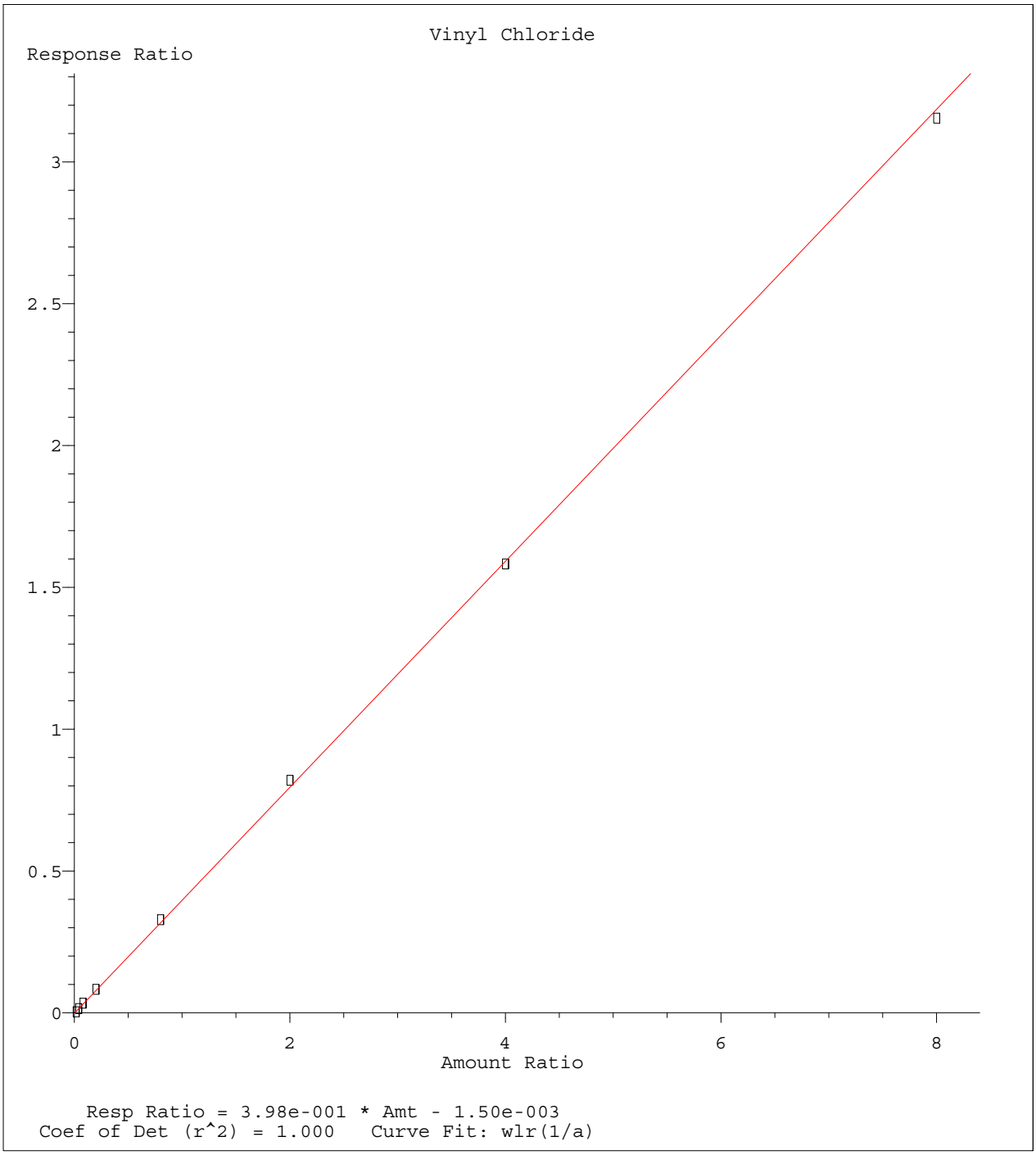
(#) = qualifier out of range (m) = manual integration
8M365598.D 8260WTR.M Mon Nov 08 15:45:07 2010 Page 1

Quantitation Report (QT Reviewed)

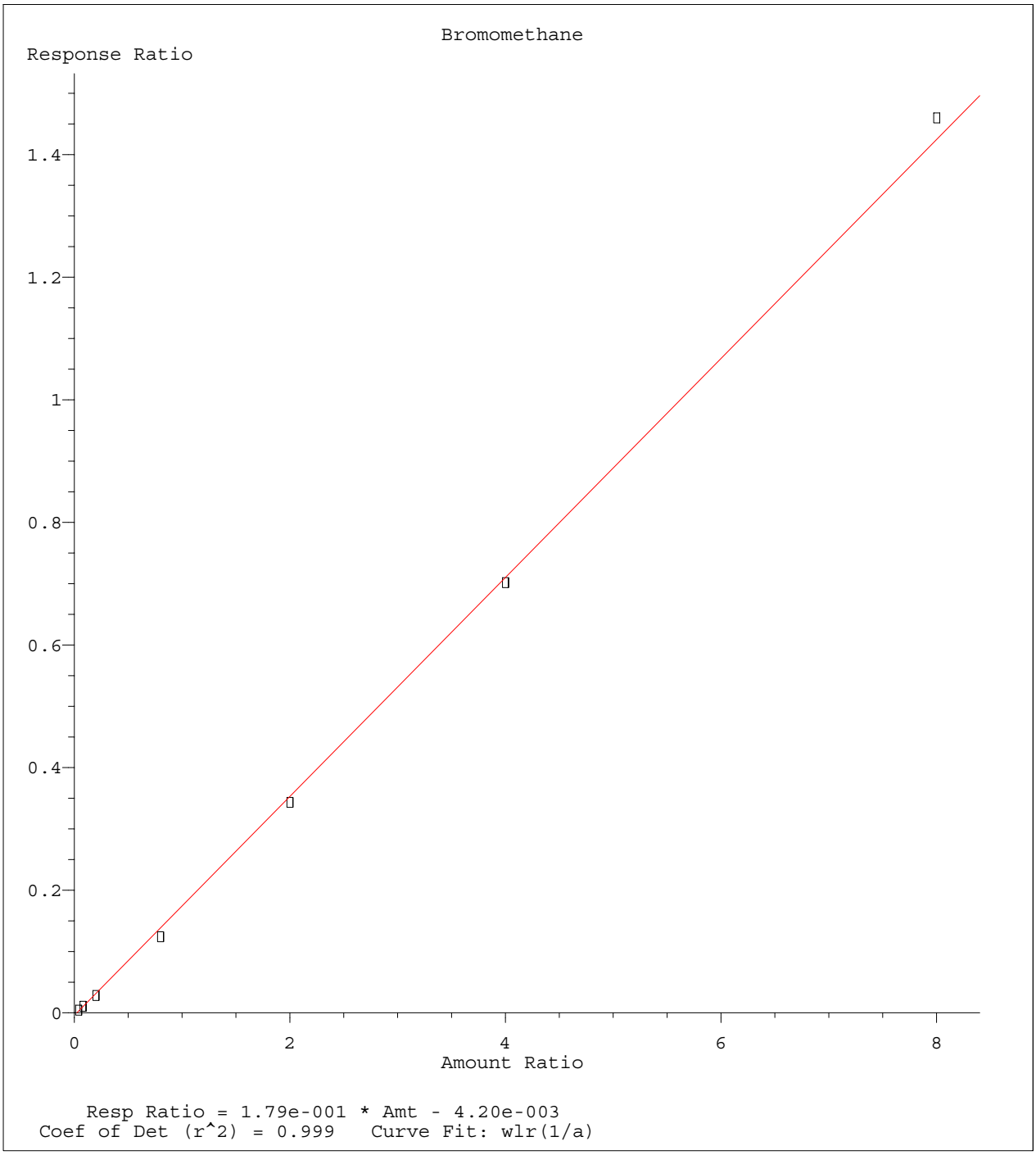
Data File : C:\MSDCHEM\1\DATA\110810\8M365598.D Vial: 11
Acq On : 8 Nov 2010 15:03 Operator: MES
Sample : WG347960-11 300 ug/L WATER STD 8260 Inst : HPMS8
Misc : 1,1 STD42317 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 8 15:39 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 15:39:29 2010
Response via : Initial Calibration

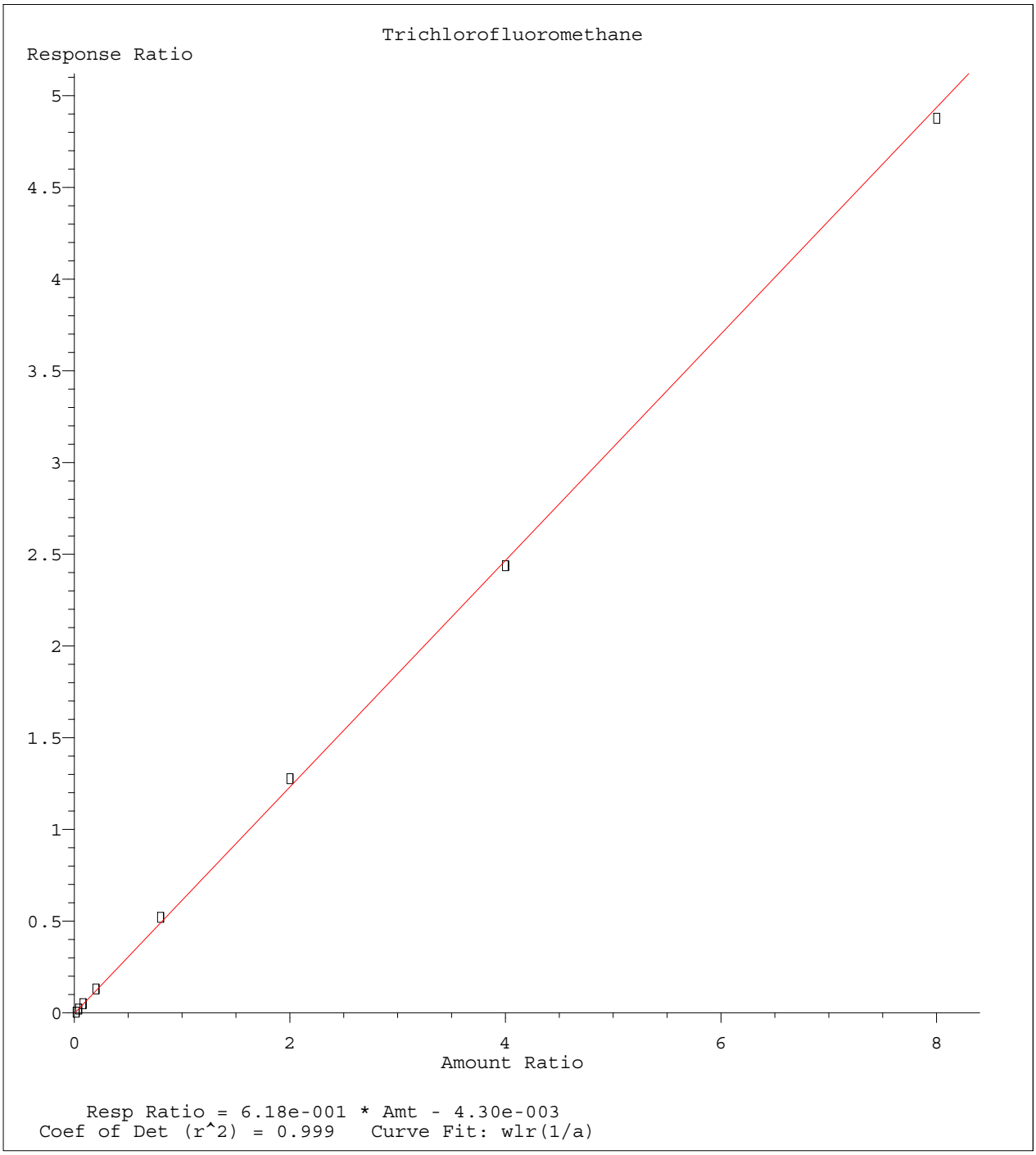




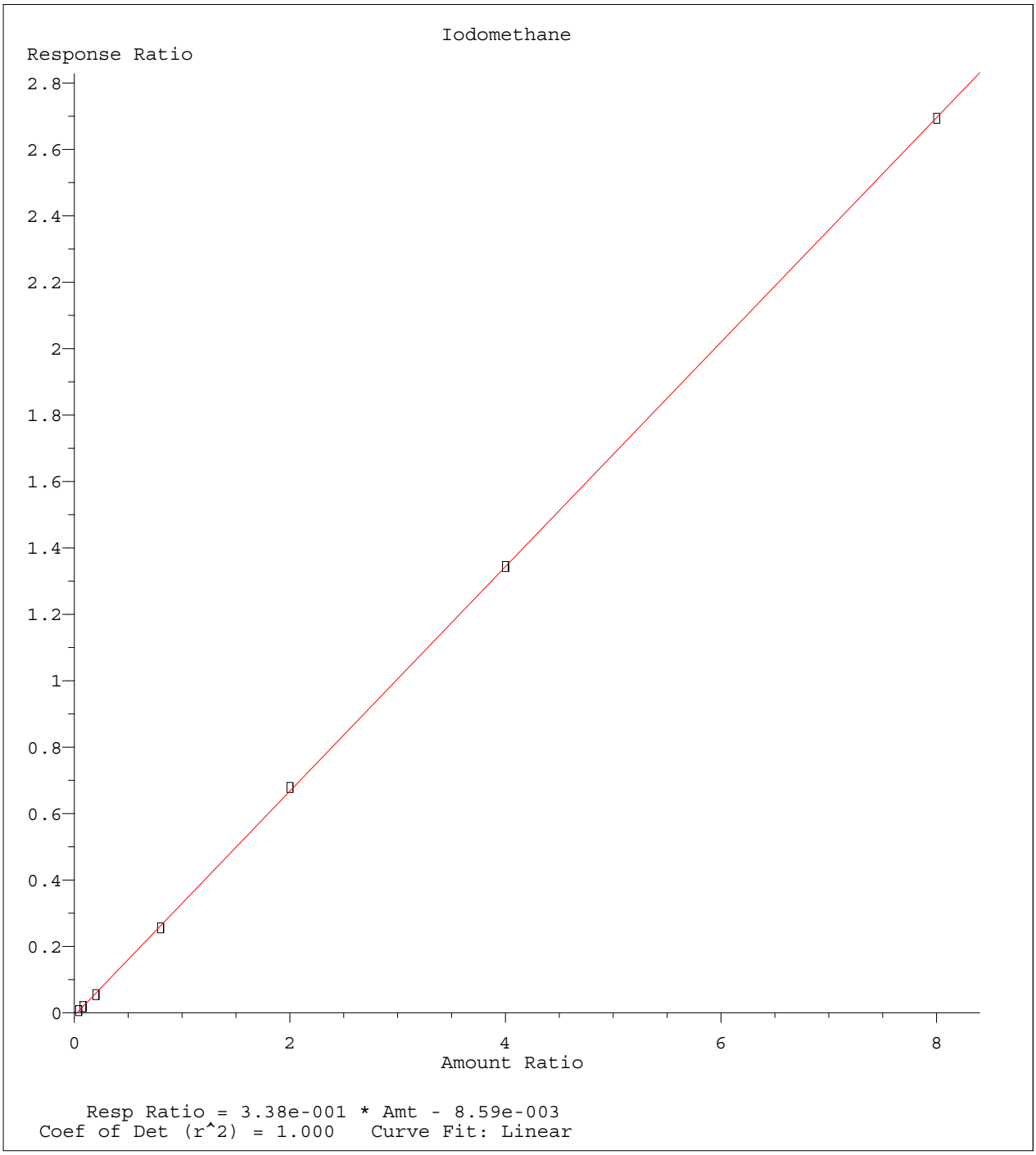
Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Mon Nov 08 16:02:40 2010



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Mon Nov 08 16:02:40 2010



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Mon Nov 08 16:02:40 2010



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Mon Nov 08 16:02:40 2010

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365601.D Vial: 14
Acq On : 8 Nov 2010 16:37 Operator: MES
Sample : WG347960-12 50ug/L ALT SOURCE Inst : HPMS8
Misc : 1,1 STD42321 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 16:59:16 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	737819	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.24	117	599385	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.25	152	365425	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.35	111	233423	24.1032 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 96.40%		
42) 1,2-Dichloroethane-d4	9.98	65	298748	23.1284 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 92.52%		
57) Toluene-d8	12.37	98	725739	23.6250 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 94.52%		
78) p-Bromofluorobenzene	15.74	95	316731	23.8119 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 95.24%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.95	85	665447	52.8923 ug/L	100
3) Chloromethane	3.37	50	924308	50.5412 ug/L	100
4) Vinyl Chloride	3.58	62	629277	53.6024 ug/L	100
5) 1,3-Butadiene	3.62	54	551527	41.5985 ug/L	99
6) Bromomethane	4.43	94	251114	48.2159 ug/L	98
7) Chloroethane	4.59	64	362255	55.6201 ug/L	99
8) Trichlorofluoromethane	5.08	101	947137	52.1377 ug/L	99
9) Diethyl ether	5.61	59	756389	98.5325 ug/L	99
10) Isoprene	5.65	67	635536	53.0137 ug/L	99
11) Acrolein	5.82	56	125780	135.2671 ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	5.87	101	419009	48.5921 ug/L	97
13) Acetone	5.94	43	151909	51.4709 ug/L	95
14) 1,1-Dichloroethene	6.16	61	883933	51.8110 ug/L	99
15) Tert-Butyl Alcohol	6.30	59	126058	191.3933 ug/L	98
16) Dimethyl Sulfide	6.41	62	570650	56.2526 ug/L	99
17) Iodomethane	6.66	142	374216	38.1442 ug/L	93
18) Methyl acetate	6.69	43	527430	53.3588 ug/L	99
19) Methylene Chloride	6.93	84	407369	45.9130 ug/L	100
20) Carbon Disulfide	6.97	76	1274011	54.5552 ug/L	99
21) Acrylonitrile	7.10	53	172851	51.4535 ug/L	99
22) Methyl Tert Butyl Ether	7.18	73	1116321	52.5106 ug/L	100
23) trans-1,2-Dichloroethene	7.39	61	794548	50.5143 ug/L	99
24) n-Hexane	7.51	57	691423	59.3073 ug/L	99
25) Diisopropyl ether	7.85	45	4804640	101.6912 ug/L	99
26) Vinyl Acetate	7.98	43	702338	38.0222 ug/L	100
27) 1,1-Dichloroethane	8.00	63	926685	51.6184 ug/L	99
28) Ethyl-Tert-Butyl ether	8.42	59	3245223	97.6804 ug/L	100
29) 2-Butanone	8.56	43	223035	50.9736 ug/L	99
30) Propionitrile	8.65	54	116373	103.2691 ug/L	100
31) 2,2-Dichloropropane	8.79	77	828440	49.7639 ug/L	99
32) cis-1,2-Dichloroethene	8.85	96	441084	50.8138 ug/L	98
33) Chloroform	9.06	83	837420	48.9421 ug/L	100
34) Bromochloromethane	9.29	130	284762	50.2809 ug/L	98
35) Tetrahydrofuran	9.32	42	2628	0.8796 ug/L #	55
37) 1,1,1-Trichloroethane	9.60	97	828041	51.5203 ug/L	99
38) Cyclohexane	9.64	56	969177	62.2673 ug/L	99
39) 1,1-Dichloropropene	9.79	75	622830	51.3323 ug/L	100
40) Tert-Amyl-Methyl ether	9.92	73	2150935	100.9701 ug/L	100
41) Carbon Tetrachloride	9.94	117	782533	51.6337 ug/L	99
44) 1,2-Dichloroethane	10.09	62	794908	49.1172 ug/L	99

(#) = qualifier out of range (m) = manual integration
8M365601.D 8260WTR.M Mon Nov 08 16:59:18 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365601.D Vial: 14
Acq On : 8 Nov 2010 16:37 Operator: MES
Sample : WG347960-12 50ug/L ALT SOURCE Inst : HPMS8
Misc : 1,1 STD42321 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 08 16:59:16 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

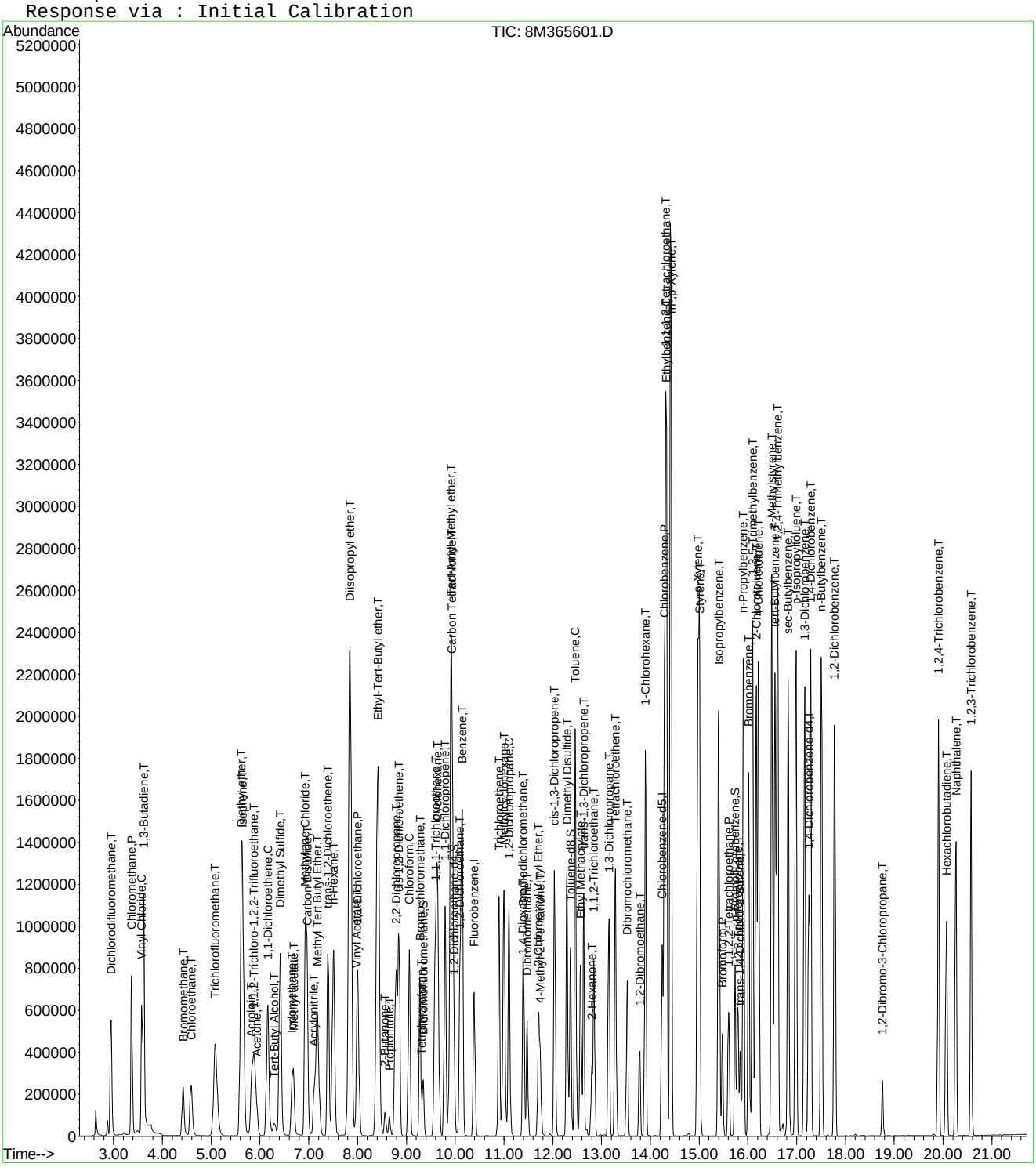
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45) Benzene	10.14	78	1564440	49.0442	ug/L		99
46) Trichloroethene	10.90	130	465381	50.7544	ug/L		99
47) Methylcyclohexane	11.00	83	586698	57.2304	ug/L		99
48) 1,2-Dichloropropane	11.11	63	473885	51.7933	ug/L		100
49) Bromodichloromethane	11.39	83	673913	52.8488	ug/L		99
50) 1,4-Dioxane	11.38	88	10142	191.6144	ug/L		97
51) Dibromomethane	11.48	93	239213	50.3155	ug/L		98
52) 2-Chloroethyl Vinyl Ether	11.70	63	249824	52.8624	ug/L		99
53) 4-Methyl-2-Pentanone	11.75	58	137143	51.5503	ug/L		98
54) cis-1,3-Dichloropropene	12.04	75	711826	51.1294	ug/L		100
55) Dimethyl Disulfide	12.29	94	752104	55.5552	ug/L		99
58) Toluene	12.46	91	1659850	50.0884	ug/L		100
59) Ethyl Methacrylate	12.57	69	429988	54.0455	ug/L		96
60) trans-1,3-Dichloropropene	12.64	75	625695	45.7931	ug/L		100
61) 1,1,2-Trichloroethane	12.84	97	308778	50.2183	ug/L		100
62) 2-Hexanone	12.80	58	127967	50.7637	ug/L		96
63) 1,3-Dichloropropane	13.15	76	566243	49.4790	ug/L		98
64) Tetrachloroethene	13.29	164	385334	51.0758	ug/L		98
65) Dibromochloromethane	13.52	129	490627	51.2707	ug/L		100
66) 1,2-Dibromoethane	13.78	107	342912	49.1304	ug/L		98
67) 1-Chlorohexane	13.90	91	559515	54.9787	ug/L		100
68) Chlorobenzene	14.29	112	1193986	48.2848	ug/L		100
69) 1,1,1,2-Tetrachloroethane	14.32	131	504136	50.7445	ug/L		98
70) Ethylbenzene	14.33	106	649812	50.9041	ug/L		99
71) m-,p-Xylene	14.42	106	1571420	99.2393	ug/L		99
72) o-Xylene	14.97	106	796721	49.1254	ug/L		99
73) Styrene	15.01	104	1348279	51.1187	ug/L		99
74) Bromoform	15.48	173	315081	49.9094	ug/L		99
75) Isopropylbenzene	15.41	105	1860499	45.9439	ug/L		99
77) 1,1,2,2-Tetrachloroethane	15.60	83	348600	46.7864	ug/L		99
79) 1,2,3-Trichloropropane	15.80	110	121306	47.6771	ug/L		71
80) trans-1,4-Dichloro-2-Buten	15.84	53	130830	33.7153	ug/L	#	14
81) n-Propylbenzene	15.90	91	2358363	49.7392	ug/L		100
82) Bromobenzene	16.02	156	574009	49.2003	ug/L		100
83) 1,3,5-Trimethylbenzene	16.10	105	1837050	50.7610	ug/L		99
84) 2-Chlorotoluene	16.17	91	1586466	51.7462	ug/L		99
85) 4-Chlorotoluene	16.21	91	1502738	47.6759	ug/L		99
86) a-Methylstyrene	16.49	118	1012561	53.4234	ug/L		99
87) tert-Butylbenzene	16.55	134	365228	51.6012	ug/L		99
88) 1,2,4-Trimethylbenzene	16.61	105	1912563	50.0457	ug/L		100
89) sec-Butylbenzene	16.82	105	2070963	51.2657	ug/L		100
90) p-Isopropyltoluene	16.99	119	1810262	49.9676	ug/L		100
91) 1,3-Dichlorobenzene	17.16	146	1088423	48.7979	ug/L		99
92) 1,4-Dichlorobenzene	17.29	146	1091696	46.6373	ug/L		99
93) n-Butylbenzene	17.51	91	1602043	51.0857	ug/L		100
94) 1,2-Dichlorobenzene	17.77	146	1025681	48.7798	ug/L		99
95) 1,2-Dibromo-3-Chloropropan	18.76	75	84419	46.6345	ug/L		97
96) 1,2,4-Trichlorobenzene	19.90	180	744586	47.0823	ug/L		99
97) Hexachlorobutadiene	20.07	225	259106	47.9991	ug/L		99
98) Naphthalene	20.27	128	1393579	46.5797	ug/L		99
99) 1,2,3-Trichlorobenzene	20.58	180	660153	47.8313	ug/L		100

(#) = qualifier out of range (m) = manual integration
8M365601.D 8260WTR.M Mon Nov 08 16:59:18 2010 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\110810\8M365601.D Vial: 14
Acq On : 8 Nov 2010 16:37 Operator: MES
Sample : WG347960-12 50ug/L ALT SOURCE Inst : HPMS8
Misc : 1,1 STD42321 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 8 16:59 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\112210\8M366001.D Vial: 2
Acq On : 22 Nov 2010 9:30 Operator: MES
Sample : WG349415-02 50ug/L CCV 8260 Inst : HPMS8
Misc : 1,1 STD42435 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 09:52:08 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	555188	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.24	117	456357	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.25	152	268794	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.34	111	193311	26.5276 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 106.12%		
42) 1,2-Dichloroethane-d4	9.98	65	267473	27.5189 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 110.08%		
57) Toluene-d8	12.37	98	592543	25.3345 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.32%		
78) p-Bromofluorobenzene	15.74	95	263646	26.9465 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 107.80%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.95	85	478471	50.5410 ug/L	100
3) Chloromethane	3.37	50	695096	50.5107 ug/L	99
4) Vinyl Chloride	3.58	62	496514	56.2016 ug/L	99
5) 1,3-Butadiene	3.62	54	674818	67.6406 ug/L	98
6) Bromomethane	4.44	94	210469	53.6384 ug/L	99
7) Chloroethane	4.59	64	244021	49.7914 ug/L	97
8) Trichlorofluoromethane	5.09	101	796731	58.2650 ug/L	100
9) Diethyl ether	5.60	59	534538	92.5386 ug/L	99
10) Isoprene	5.65	67	455519	50.4969 ug/L	90
11) Acrolein	5.82	56	55449	79.2472 ug/L	94
12) 1,1,2-Trichloro-1,2,2-Trif	5.87	101	349626	53.8835 ug/L	98
13) Acetone	5.93	43	105024	47.2908 ug/L	95
14) 1,1-Dichloroethene	6.16	61	733806	57.1602 ug/L	94
15) Tert-Butyl Alcohol	6.28	59	66090	133.3527 ug/L	99
16) Dimethyl Sulfide	6.41	62	367598	48.1566 ug/L	92
17) Iodomethane	6.66	142	433498	58.3795 ug/L	94
18) Methyl acetate	6.68	43	301229	40.4994 ug/L	100
19) Methylene Chloride	6.93	84	291784	43.7038 ug/L	91
20) Carbon Disulfide	6.97	76	832980	47.4032 ug/L	100
21) Acrylonitrile	7.09	53	115321	45.6206 ug/L	100
22) Methyl Tert Butyl Ether	7.17	73	790687	49.4279 ug/L	98
23) trans-1,2-Dichloroethene	7.39	61	631082	53.3200 ug/L	97
24) n-Hexane	7.51	57	459222	52.3476 ug/L	98
25) Diisopropyl ether	7.84	45	3596095	101.1494 ug/L	98
26) Vinyl Acetate	7.98	43	680082	48.9285 ug/L	99
27) 1,1-Dichloroethane	8.00	63	707800	52.3954 ug/L	99
28) Ethyl-Tert-Butyl ether	8.41	59	2482316	99.2955 ug/L	99
29) 2-Butanone	8.56	43	140862	42.7835 ug/L	97
30) Propionitrile	8.64	54	71367	84.1638 ug/L	97
31) 2,2-Dichloropropane	8.79	77	711434	56.7934 ug/L	100
32) cis-1,2-Dichloroethene	8.85	96	330164	50.5475 ug/L	96
33) Chloroform	9.06	83	677041	52.5853 ug/L	100
34) Bromochloromethane	9.28	130	201574	47.3004 ug/L	98
35) Tetrahydrofuran	9.31	42	194557	86.5416 ug/L	98
37) 1,1,1-Trichloroethane	9.60	97	709928	58.7016 ug/L	99
38) Cyclohexane	9.64	56	617920	52.7593 ug/L	99
39) 1,1-Dichloropropene	9.79	75	495912	54.3170 ug/L	99
40) Tert-Amyl-Methyl ether	9.92	73	1531961	95.5703 ug/L	99
41) Carbon Tetrachloride	9.94	117	683040	59.8945 ug/L	98
44) 1,2-Dichloroethane	10.09	62	660312	54.2220 ug/L	97

(#) = qualifier out of range (m) = manual integration
8M366001.D 8260WTR.M Mon Nov 22 09:52:11 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\112210\8M366001.D Vial: 2
Acq On : 22 Nov 2010 9:30 Operator: MES
Sample : WG349415-02 50ug/L CCV 8260 Inst : HPMS8
Misc : 1,1 STD42435 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 09:52:08 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

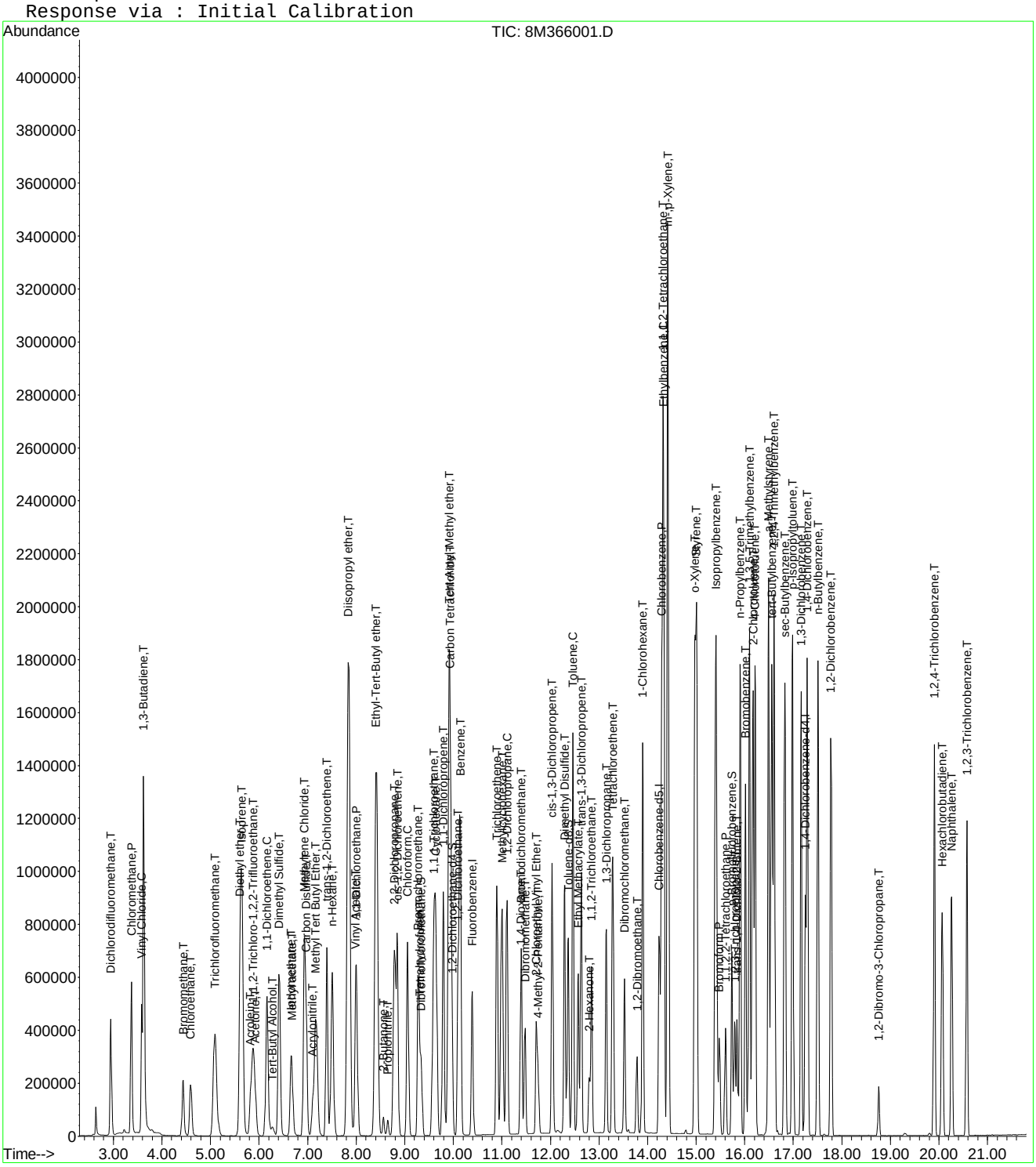
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	Benzene	10.14	78	1149471	47.8891	ug/L	97
46)	Trichloroethene	10.90	130	361157	52.3444	ug/L	97
47)	Methylcyclohexane	11.00	83	412152	53.4293	ug/L	99
48)	1,2-Dichloropropane	11.11	63	346013	50.2578	ug/L	88
49)	Bromodichloromethane	11.40	83	532510	55.4969	ug/L	99
50)	1,4-Dioxane	11.38	88	5242	131.6168	ug/L	96
51)	Dibromomethane	11.48	93	175766	49.1317	ug/L	98
52)	2-Chloroethyl Vinyl Ether	11.71	63	166036	46.6901	ug/L	99
53)	4-Methyl-2-Pentanone	11.75	58	85770	42.8453	ug/L	99
54)	cis-1,3-Dichloropropene	12.04	75	534459	51.0177	ug/L	99
55)	Dimethyl Disulfide	12.29	94	519151	50.9625	ug/L	97
58)	Toluene	12.46	91	1232663	48.8556	ug/L	100
59)	Ethyl Methacrylate	12.57	69	290219	47.9104	ug/L	93
60)	trans-1,3-Dichloropropene	12.64	75	525711	50.5342	ug/L	99
61)	1,1,2-Trichloroethane	12.84	97	213204	45.5420	ug/L	99
62)	2-Hexanone	12.80	58	79477	41.4093	ug/L	94
63)	1,3-Dichloropropane	13.15	76	396800	45.5398	ug/L	91
64)	Tetrachloroethene	13.29	164	295295	51.4086	ug/L	94
65)	Dibromochloromethane	13.53	129	377000	51.7441	ug/L	99
66)	1,2-Dibromoethane	13.78	107	242438	45.6215	ug/L	99
67)	1-Chlorohexane	13.90	91	425820	54.9554	ug/L	94
68)	Chlorobenzene	14.29	112	887754	47.1525	ug/L	96
69)	1,1,1,2-Tetrachloroethane	14.32	131	387367	51.2112	ug/L	99
70)	Ethylbenzene	14.33	106	475769	48.9511	ug/L	96
71)	m-,p-Xylene	14.42	106	1186867	98.4452	ug/L	96
72)	o-Xylene	14.97	106	592611	47.9922	ug/L	96
73)	Styrene	15.00	104	985665	49.0829	ug/L	95
74)	Bromoform	15.48	173	226198	47.0598	ug/L	98
75)	Isopropylbenzene	15.41	105	1581559	51.2962	ug/L	98
77)	1,1,2,2-Tetrachloroethane	15.60	83	221815	40.4726	ug/L	99
79)	1,2,3-Trichloropropane	15.80	110	83813	44.7834	ug/L	97
80)	trans-1,4-Dichloro-2-Buten	15.84	53	146331	51.2667	ug/L	94
81)	n-Propylbenzene	15.90	91	1789168	51.3000	ug/L	99
82)	Bromobenzene	16.02	156	405793	47.2860	ug/L	94
83)	1,3,5-Trimethylbenzene	16.10	105	1391183	52.2603	ug/L	98
84)	2-Chlorotoluene	16.17	91	1196119	53.0396	ug/L	98
85)	4-Chlorotoluene	16.21	91	1140073	49.1730	ug/L	98
86)	a-Methylstyrene	16.49	118	759564	54.4821	ug/L	96
87)	tert-Butylbenzene	16.55	134	269672	51.7977	ug/L	93
88)	1,2,4-Trimethylbenzene	16.61	105	1426559	50.7480	ug/L	98
89)	sec-Butylbenzene	16.82	105	1557354	52.4108	ug/L	100
90)	p-Isopropyltoluene	16.99	119	1425678	53.4992	ug/L	100
91)	1,3-Dichlorobenzene	17.16	146	806251	49.1420	ug/L	98
92)	1,4-Dichlorobenzene	17.29	146	806998	46.8687	ug/L	97
93)	n-Butylbenzene	17.51	91	1218124	52.8074	ug/L	99
94)	1,2-Dichlorobenzene	17.77	146	727446	47.0334	ug/L	98
95)	1,2-Dibromo-3-Chloropropan	18.76	75	61957	46.5303	ug/L	91
96)	1,2,4-Trichlorobenzene	19.90	180	526615	45.2704	ug/L	98
97)	Hexachlorobutadiene	20.07	225	210699	53.0637	ug/L	98
98)	Naphthalene	20.27	128	879506	39.9652	ug/L	99
99)	1,2,3-Trichlorobenzene	20.58	180	429546	42.3112	ug/L	99

(#) = qualifier out of range (m) = manual integration
8M366001.D 8260WTR.M Mon Nov 22 09:52:12 2010 Page 2

Quantitation Report (Not Reviewed)

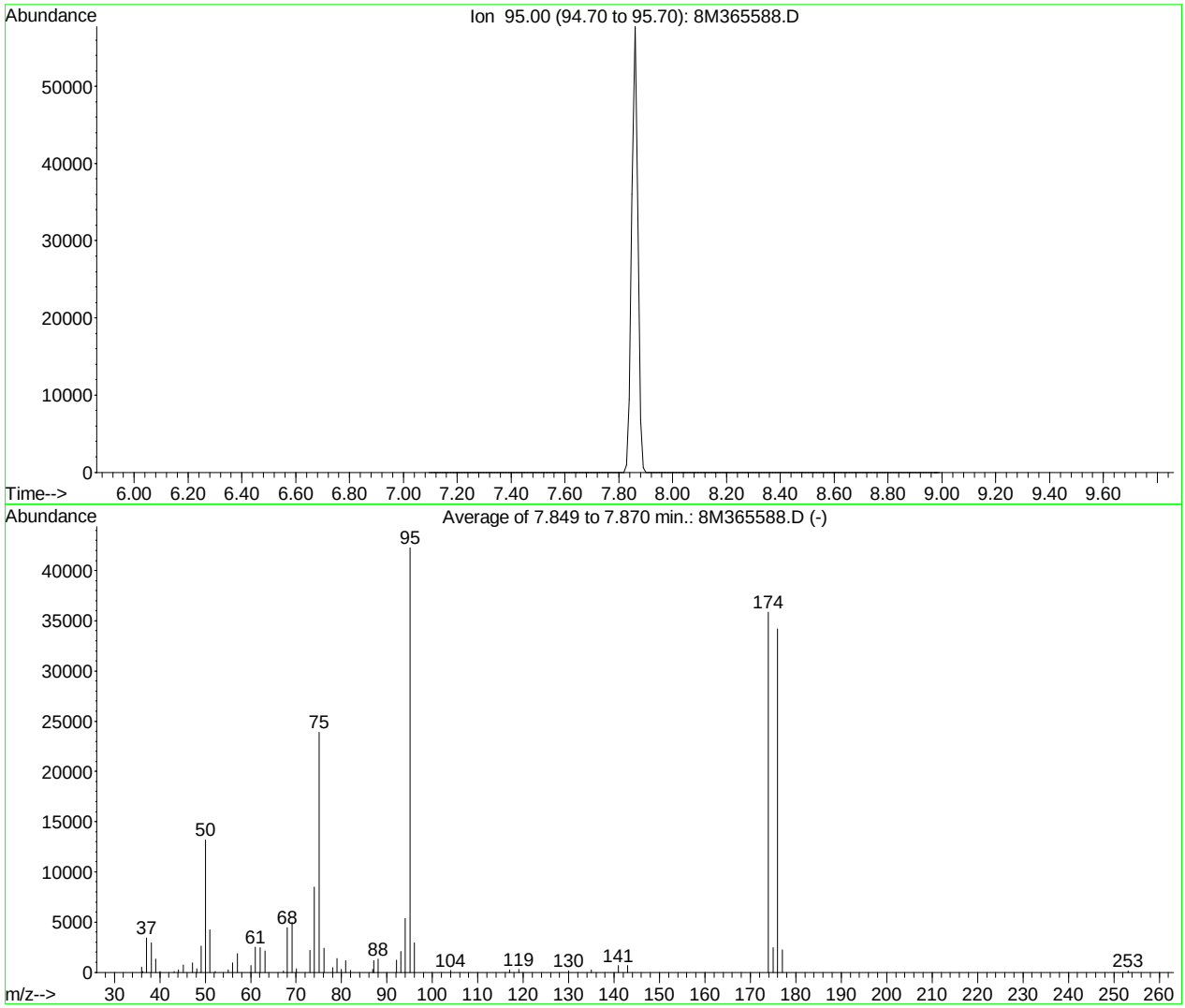
Data File : C:\MSDchem\1\data\112210\8M366001.D Vial: 2
Acq On : 22 Nov 2010 9:30 Operator: MES
Sample : WG349415-02 50ug/L CCV 8260 Inst : HPMS8
Misc : 1,1 STD42435 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 9:52 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration



2.1.1.5 Raw QC Data

Data File : C:\MSDCHEM\1\DATA\110810\8M365588.D Vial: 1
Acq On : 8 Nov 2010 9:55 Operator: MES
Sample : WG347960-01 50NG BFB STD 8260 Inst : HPMS8
Misc : 1,1 STD42302 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
Title :

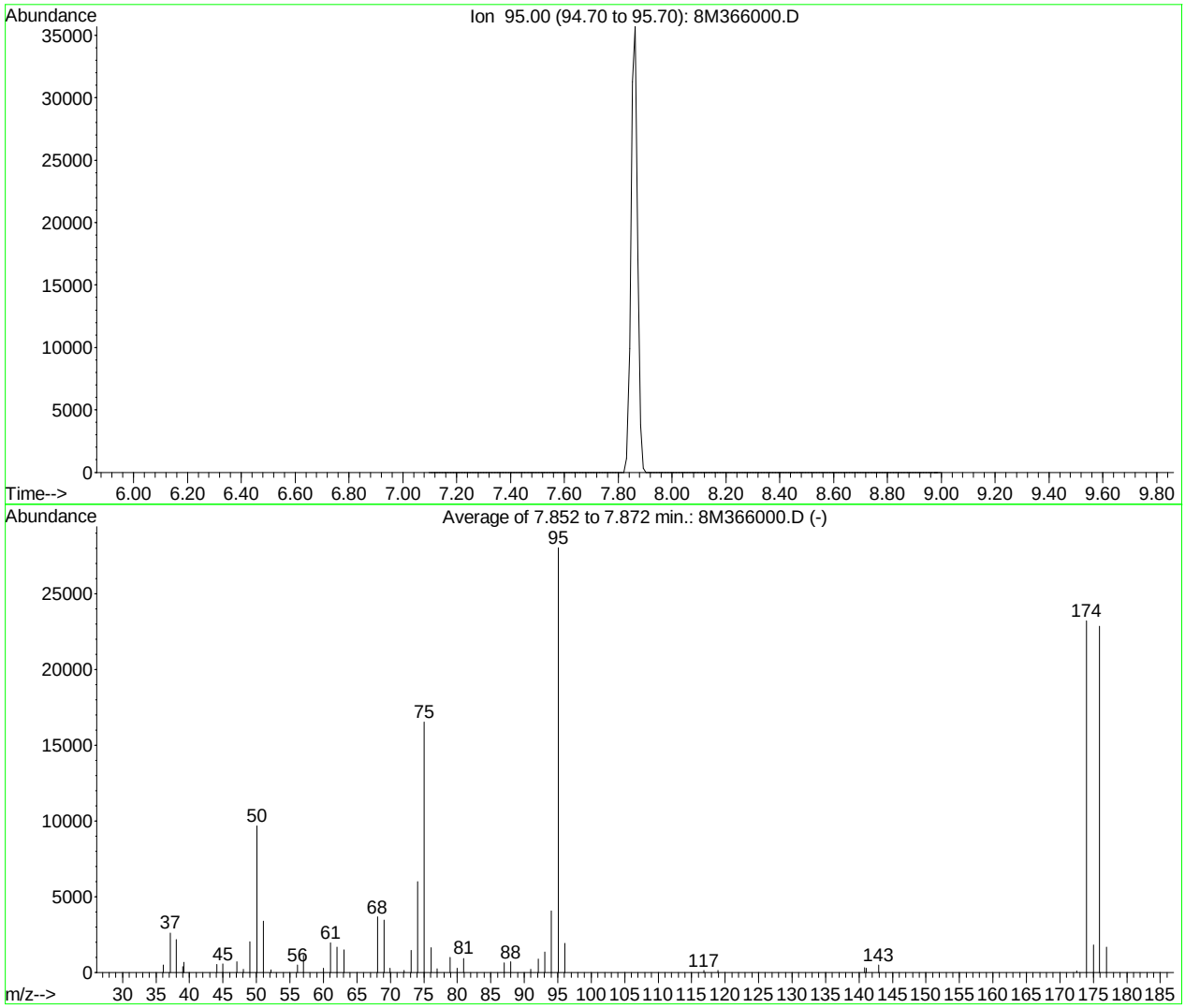


AutoFind: Scans 75, 76, 77; Background Corrected with Scan 70

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	31.2	13201	PASS
75	95	30	60	56.5	23870	PASS
95	95	100	100	100.0	42282	PASS
96	95	5	9	7.0	2964	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.8	35864	PASS
175	174	5	9	6.8	2438	PASS
176	174	95	101	95.3	34181	PASS
177	176	5	9	6.5	2214	PASS

8M365588.D BFB.M Mon Nov 08 10:05:04 2010

Data File : C:\MSDCHEM\1\DATA\112210\8M366000.D Vial: 1
Acq On : 22 Nov 2010 9:05 Operator: MES
Sample : WG349415-01 50ng BFB Inst : HPMS8
Misc : 1,1 STD42302 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
Title :



AutoFind: Scans 75, 76, 77; Background Corrected with Scan 70

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	34.4	9651	PASS
75	95	30	60	59.0	16546	PASS
95	95	100	100	100.0	28045	PASS
96	95	5	9	6.8	1917	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.8	23226	PASS
175	174	5	9	7.8	1809	PASS
176	174	95	101	98.5	22866	PASS
177	176	5	9	7.2	1648	PASS

8M366000.D BFB.M Mon Nov 22 09:24:03 2010

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\112210\8M366004.D Vial: 4
Acq On : 22 Nov 2010 10:34 Operator: MES
Sample : WG349416-01 VBLK1122 BLANK 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:35:30 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

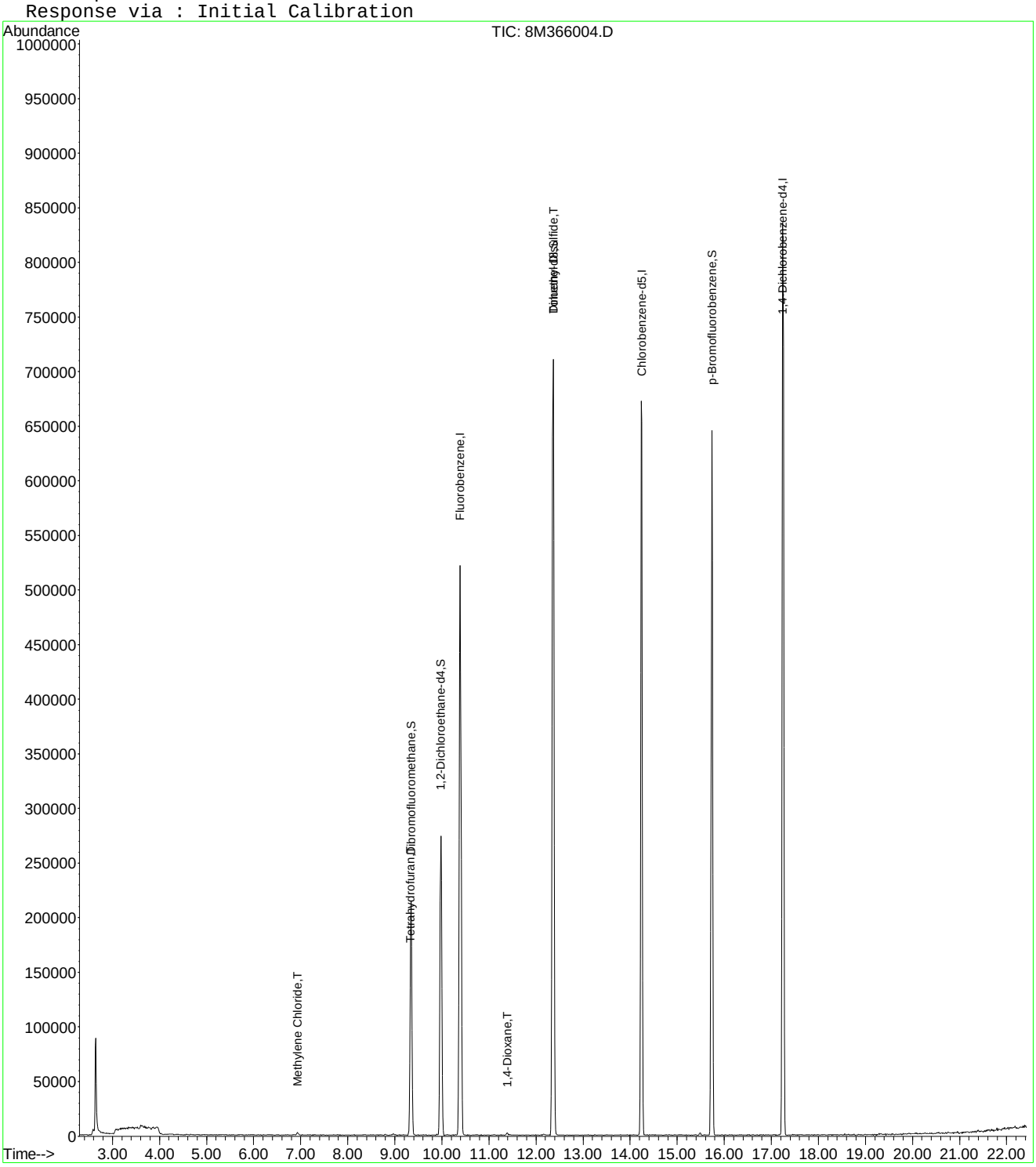
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	527562	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.25	117	428667	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.25	152	263727	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.35	111	185093	26.7299 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 106.92%		
42) 1,2-Dichloroethane-d4	9.98	65	262602	28.4325 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 113.72%		
57) Toluene-d8	12.36	98	559723	25.4771 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.92%		
78) p-Bromofluorobenzene	15.74	95	249130	25.9521 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 103.80%		
Target Compounds					Qvalue
19) Methylene Chloride	6.93	84	806	0.1270 ug/L #	17
35) Tetrahydrofuran	9.32	42	970	0.4541 ug/L #	55
50) 1,4-Dioxane	11.38	88	1284	33.9270 ug/L	77
55) Dimethyl Disulfide	12.36	94	17040	1.7603 ug/L #	23

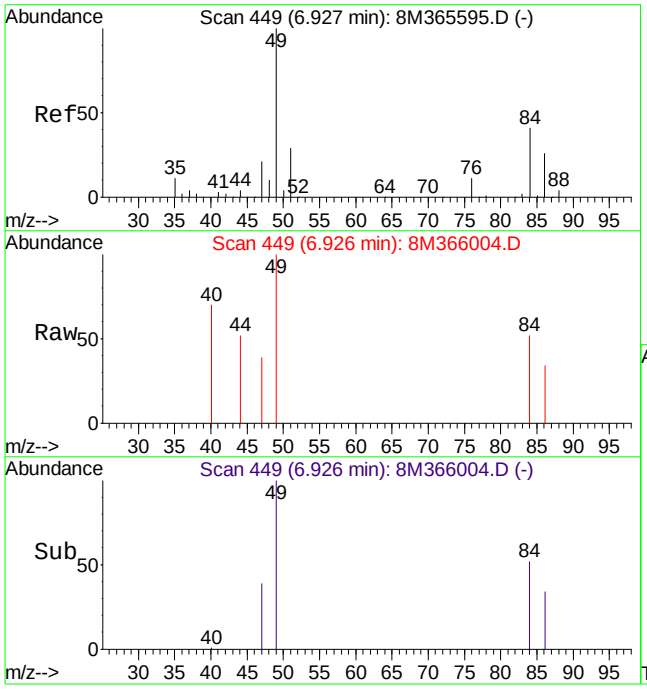
(#) = qualifier out of range (m) = manual integration
8M366004.D 8260WTR.M Mon Nov 29 16:35:32 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\112210\8M366004.D Vial: 4
Acq On : 22 Nov 2010 10:34 Operator: MES
Sample : WG349416-01 VBLK1122 BLANK 8260 Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 16:35 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration

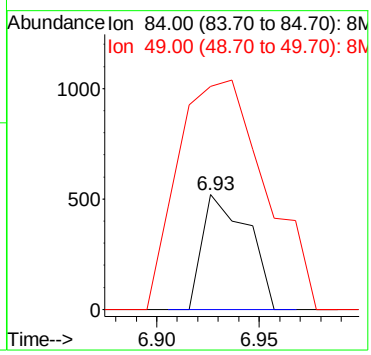


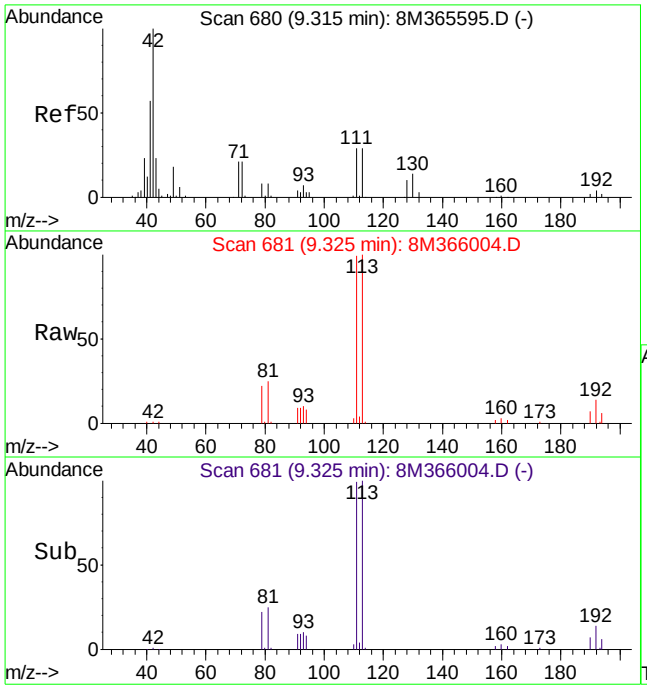


#19
Methylene Chloride
Concen: 0.13 ug/L
RT: 6.93 min Scan# 449
Delta R.T. 0.00 min
Lab File: 8M366004.D
Acq: 22 Nov 2010 10:34

Tgt Ion: 84 Resp: 806

Ion	Ratio	Lower	Upper
84	100		
49	383.6	145.3	338.9#

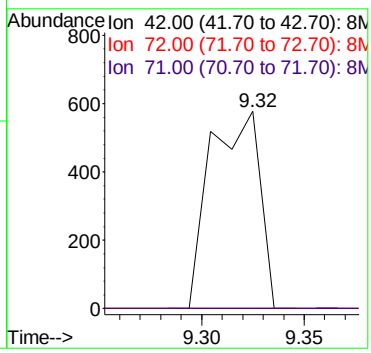


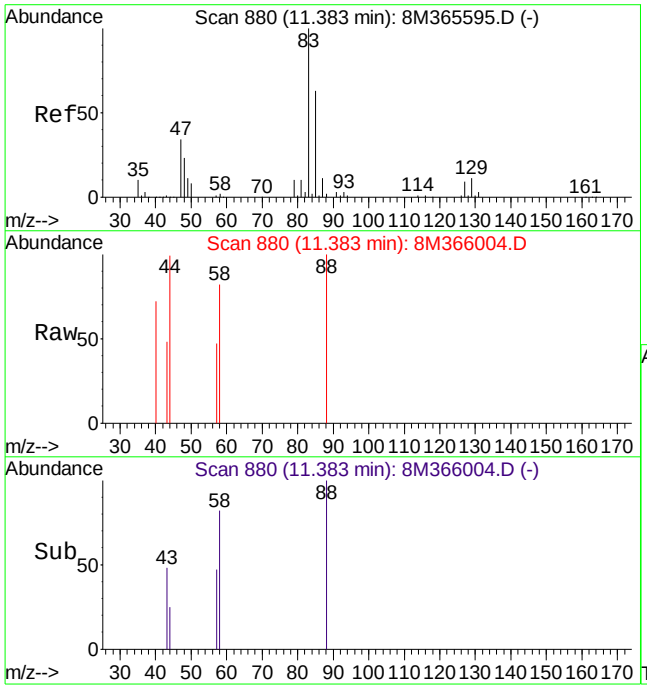


#35
Tetrahydrofuran
Concen: 0.45 ug/L
RT: 9.32 min Scan# 681
Delta R.T. 0.01 min
Lab File: 8M366004.D
Acq: 22 Nov 2010 10:34

Tgt Ion: 42 Resp: 970

Ion	Ratio	Lower	Upper
42	100		
72	0.0	12.7	29.5#
71	0.0	12.4	29.0#

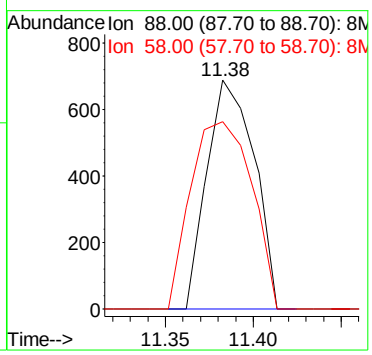


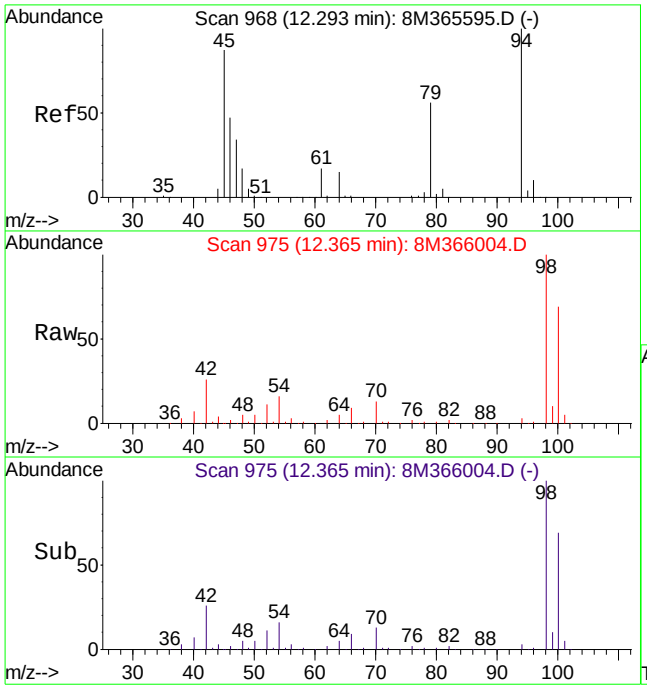


#50
1,4-Dioxane
Concen: 33.93 ug/L
RT: 11.38 min Scan# 880
Delta R.T. 0.00 min
Lab File: 8M366004.D
Acq: 22 Nov 2010 10:34

Tgt Ion: 88 Resp: 1284

Ion	Ratio	Lower	Upper
88	100		
58	106.5	51.5	120.1

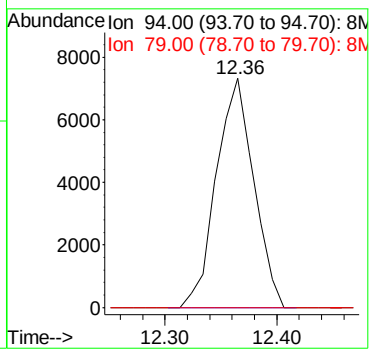




#55
Dimethyl Disulfide
Concen: 1.76 ug/L
RT: 12.36 min Scan# 975
Delta R.T. 0.07 min
Lab File: 8M366004.D
Acq: 22 Nov 2010 10:34

Tgt Ion: 94 Resp: 17040

Ion	Ratio	Lower	Upper
94	100		
79	0.0	33.4	78.0#



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\112210\8M366005.D Vial: 5
Acq On : 22 Nov 2010 11:05 Operator: MES
Sample : WG349416-02 20ug/L LCS 8260 Inst : HPMS8
Misc : 1,1 STD42467 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 11:28:22 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.39	96	531645	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.25	117	432317	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.24	152	264242	25.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	9.34	111	189279	27.1245 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 108.48%		
42) 1,2-Dichloroethane-d4	9.98	65	260742	28.0143 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 112.04%		
57) Toluene-d8	12.36	98	560478	25.2961 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.20%		
78) p-Bromofluorobenzene	15.73	95	251729	26.1717 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.68%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.94	85	203307	22.4264 ug/L	99
3) Chloromethane	3.37	50	294882	22.3772 ug/L	100
4) Vinyl Chloride	3.59	62	198252	23.4891 ug/L	100
5) 1,3-Butadiene	3.63	54	215557	22.5632 ug/L	96
6) Bromomethane	4.43	94	78366	21.2153 ug/L	100
7) Chloroethane	4.59	64	98756	21.0431 ug/L	97
8) Trichlorofluoromethane	5.10	101	308056	23.6295 ug/L	100
9) Diethyl ether	5.61	59	529369	95.7020 ug/L	98
10) Isoprene	5.64	67	171107	19.8082 ug/L	89
11) Acrolein	5.82	56	87978	131.3055 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	5.87	101	127828	20.5729 ug/L	99
13) Acetone	5.92	43	44148	20.7595 ug/L	100
14) 1,1-Dichloroethene	6.16	61	270371	21.9933 ug/L	92
15) Tert-Butyl Alcohol	6.27	59	69738	146.9447 ug/L	99
16) Dimethyl Sulfide	6.42	62	154665	21.1589 ug/L	91
17) Iodomethane	6.66	142	117634	16.9987 ug/L	96
18) Methyl acetate	6.69	43	153365	21.5326 ug/L	99
19) Methylene Chloride	6.94	84	116620	18.2410 ug/L	94
20) Carbon Disulfide	6.97	76	337564	20.0608 ug/L	100
21) Acrylonitrile	7.10	53	48089	19.8663 ug/L	98
22) Methyl Tert Butyl Ether	7.17	73	325154	21.2263 ug/L	97
23) trans-1,2-Dichloroethene	7.39	61	236886	20.9008 ug/L	98
24) n-Hexane	7.50	57	186214	22.1669 ug/L	97
25) Diisopropyl ether	7.85	45	3485287	102.3738 ug/L	98
26) Vinyl Acetate	7.99	43	174518	13.1117 ug/L	99
27) 1,1-Dichloroethane	8.01	63	274747	21.2390 ug/L	99
28) Ethyl-Tert-Butyl ether	8.41	59	2371743	99.0737 ug/L	99
29) 2-Butanone	8.56	43	59862	18.9868 ug/L	98
30) Propionitrile	8.65	54	74217	91.4007 ug/L	98
31) 2,2-Dichloropropane	8.79	77	257818	21.4929 ug/L	99
32) cis-1,2-Dichloroethene	8.85	96	123057	19.6741 ug/L	90
33) Chloroform	9.06	83	259827	21.0742 ug/L	99
34) Bromochloromethane	9.28	130	81302	19.9228 ug/L	97
35) Tetrahydrofuran	9.31	42	1426	0.6624 ug/L #	55
37) 1,1,1-Trichloroethane	9.59	97	268802	23.2106 ug/L	100
38) Cyclohexane	9.64	56	268594	23.9487 ug/L	99
39) 1,1-Dichloropropene	9.79	75	184389	21.0904 ug/L	98
40) Tert-Amyl-Methyl ether	9.91	73	1563354	101.8477 ug/L	98
41) Carbon Tetrachloride	9.93	117	259243	23.7392 ug/L	100
44) 1,2-Dichloroethane	10.10	62	262927	22.5465 ug/L	97

(#) = qualifier out of range (m) = manual integration
8M366005.D 8260WTR.M Mon Nov 22 11:28:24 2010 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\112210\8M366005.D Vial: 5
Acq On : 22 Nov 2010 11:05 Operator: MES
Sample : WG349416-02 20ug/L LCS 8260 Inst : HPMS8
Misc : 1,1 STD42467 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 11:28:22 2010 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration
DataAcq Meth : 8260WTR

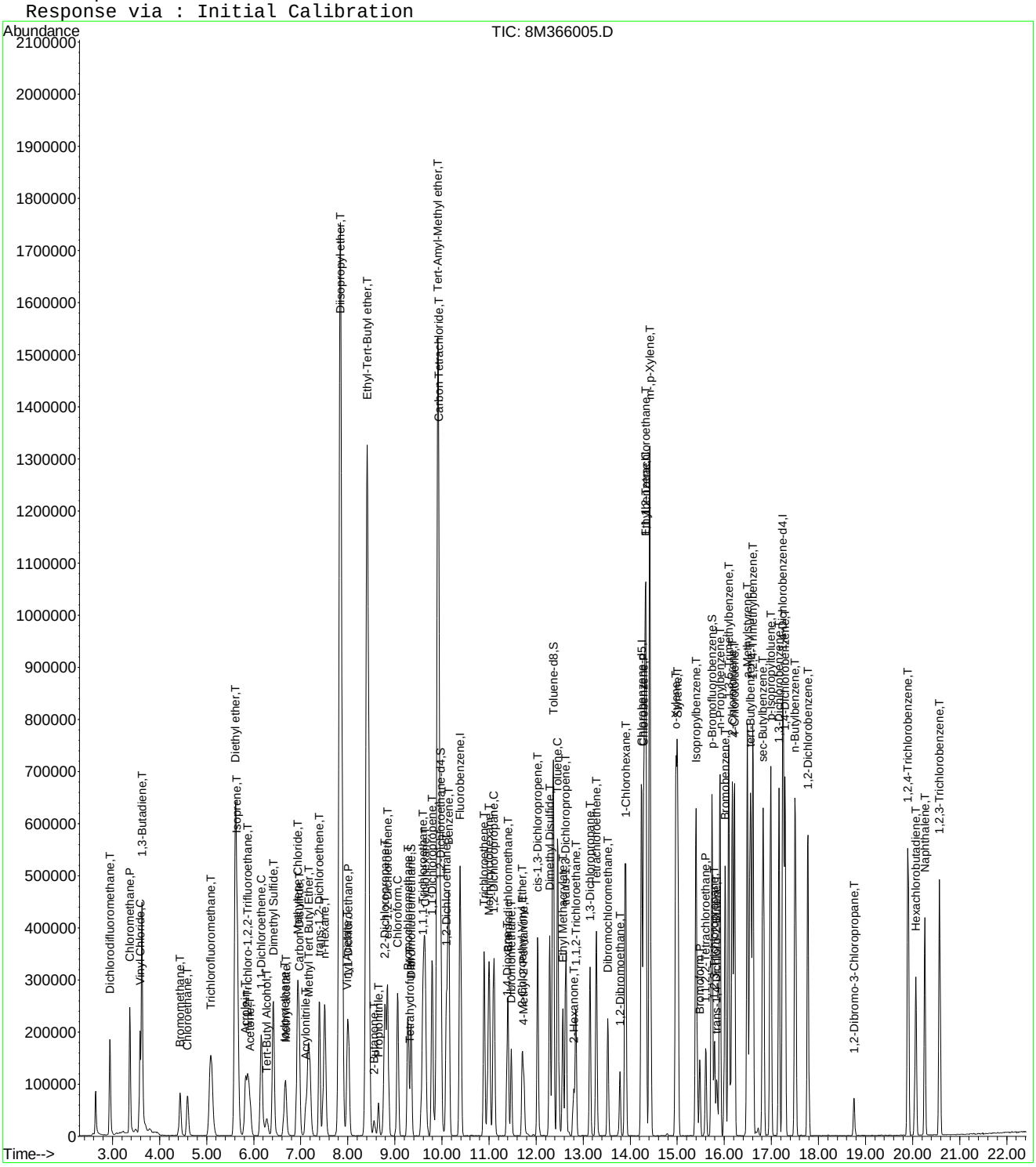
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	Benzene	10.14	78	441336	19.2011 ug/L		96
46)	Trichloroethene	10.90	130	136181	20.6115 ug/L		99
47)	Methylcyclohexane	11.00	83	163510	22.1353 ug/L		98
48)	1,2-Dichloropropane	11.10	63	130802	19.8401 ug/L		89
49)	Bromodichloromethane	11.40	83	207429	22.5750 ug/L		99
50)	1,4-Dioxane	11.38	88	3967	104.0147 ug/L		98
51)	Dibromomethane	11.47	93	73077	21.3317 ug/L		95
52)	2-Chloroethyl Vinyl Ether	11.70	63	64270	18.8733 ug/L		100
53)	4-Methyl-2-Pentanone	11.73	58	34370	17.9294 ug/L		99
54)	cis-1,3-Dichloropropene	12.03	75	201500	20.0863 ug/L		100
55)	Dimethyl Disulfide	12.29	94	212149	21.7478 ug/L		99
58)	Toluene	12.46	91	483767	20.2399 ug/L		99
59)	Ethyl Methacrylate	12.57	69	118590	20.6659 ug/L		96
60)	trans-1,3-Dichloropropene	12.63	75	188949	19.1728 ug/L		99
61)	1,1,2-Trichloroethane	12.85	97	87021	19.6220 ug/L		99
62)	2-Hexanone	12.80	58	32581	17.9194 ug/L		93
63)	1,3-Dichloropropane	13.15	76	162032	19.6301 ug/L		91
64)	Tetrachloroethene	13.28	164	112302	20.6381 ug/L		96
65)	Dibromochloromethane	13.52	129	148514	21.5174 ug/L		98
66)	1,2-Dibromoethane	13.78	107	99106	19.6866 ug/L		99
67)	1-Chlorohexane	13.90	91	158629	21.6107 ug/L		96
68)	Chlorobenzene	14.29	112	347817	19.5014 ug/L		96
69)	1,1,1,2-Tetrachloroethane	14.33	131	151499	21.1424 ug/L		99
70)	Ethylbenzene	14.33	106	187363	20.3494 ug/L		96
71)	m-,p-Xylene	14.42	106	459656	40.2465 ug/L		93
72)	o-Xylene	14.97	106	230147	19.6747 ug/L		96
73)	Styrene	15.01	104	382736	20.1188 ug/L		96
74)	Bromoform	15.48	173	89159	19.5807 ug/L		99
75)	Isopropylbenzene	15.40	105	544064	18.6274 ug/L		99
77)	1,1,2,2-Tetrachloroethane	15.60	83	95126	17.6558 ug/L		100
79)	1,2,3-Trichloropropane	15.79	110	34895	18.9665 ug/L		66
80)	trans-1,4-Dichloro-2-Buten	15.84	53	37365	13.3162 ug/L	#	18
81)	n-Propylbenzene	15.91	91	701826	20.4698 ug/L		98
82)	Bromobenzene	16.01	156	163351	19.3628 ug/L		95
83)	1,3,5-Trimethylbenzene	16.10	105	540097	20.6385 ug/L		97
84)	2-Chlorotoluene	16.17	91	457017	20.6147 ug/L		98
85)	4-Chlorotoluene	16.22	91	456246	20.0176 ug/L		98
86)	a-Methylstyrene	16.49	118	285942	20.8634 ug/L		98
87)	tert-Butylbenzene	16.55	134	102783	20.0823 ug/L		91
88)	1,2,4-Trimethylbenzene	16.60	105	570122	20.6307 ug/L		97
89)	sec-Butylbenzene	16.82	105	604903	20.7079 ug/L		99
90)	p-Isopropyltoluene	16.99	119	533588	20.3681 ug/L		98
91)	1,3-Dichlorobenzene	17.16	146	314173	19.4791 ug/L		98
92)	1,4-Dichlorobenzene	17.29	146	317283	18.7445 ug/L		98
93)	n-Butylbenzene	17.50	91	468914	20.6783 ug/L		98
94)	1,2-Dichlorobenzene	17.78	146	288069	18.9461 ug/L		97
95)	1,2-Dibromo-3-Chloropropan	18.76	75	25937	19.8145 ug/L		90
96)	1,2,4-Trichlorobenzene	19.90	180	200064	17.4948 ug/L		98
97)	Hexachlorobutadiene	20.07	225	74855	19.1767 ug/L		98
98)	Naphthalene	20.26	128	382357	17.6738 ug/L		99
99)	1,2,3-Trichlorobenzene	20.57	180	175783	17.6133 ug/L		99

(#) = qualifier out of range (m) = manual integration
8M366005.D 8260WTR.M Mon Nov 22 11:28:24 2010 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\112210\8M366005.D Vial: 5
Acq On : 22 Nov 2010 11:05 Operator: MES
Sample : WG349416-02 20ug/L LCS 8260 Inst : HPMS8
Misc : 1,1 STD42467 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 11:28 2010 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 11/8/10 HPMS 8
Last Update : Mon Nov 08 16:02:40 2010
Response via : Initial Calibration



2.2 Metals Data

2.2.1 Metals ICP-MS Data

2.2.1.1 Summary Data

Login Number: L10110608

Department: Metals

Analyst: Ji Hu
Analyst #2: N/A

METHOD

Preparation: SW-846 3015

Analysis: SW-846 6020

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

Low Level Check: All acceptance criteria were met.

BATCH QA/QC All acceptance criteria were met.

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG349360 - All acceptance criteria were met.

WG349857 - All acceptance criteria were met.

Matrix Spikes: WG349360 - Sample was 01 chosen by the client for MS/MSD analysis. Samples 03(MS) and 05(MSD) met all acceptance criteria.

WG349857 - Sample 02 was chosen by the client for MS/MSD analysis. Samples 04(MS) and 06(MSD) yielded a noncompliant recovery for manganese.

SAMPLES

Samples: WG349360 - Client samples 03, 05 and 11 required dilution analyses in order to obtain results for manganese within the linear range. For consistency with samples 03(MS) and 05(MSD), reference sample 01 was also reanalyzed at a dilution for manganese. Client sample 11 required dilution analysis in order to obtain a result for chromium within the linear range.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 15974
Approved By: Sheri Pfalzgraf

LABORATORY REPORT

L10110608

12/06/10 11:10

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SWMU57GWMW2	L10110608-01	6020	1	17-NOV-10
SWMU57GWMW2	L10110608-01	6020	50	17-NOV-10
SWMU57GWMW2	L10110608-02	6020	1	17-NOV-10
SWMU57GW111610MS	L10110608-03	6020	1	17-NOV-10
SWMU57GW111610MS	L10110608-03	6020	50	17-NOV-10
SWMU57GW111610MS	L10110608-04	6020	1	17-NOV-10
SWMU57GW111610MSD	L10110608-05	6020	1	17-NOV-10
SWMU57GW111610MSD	L10110608-05	6020	50	17-NOV-10
SWMU57GW111610MSD	L10110608-06	6020	1	17-NOV-10
SWMU57GW111610D1	L10110608-07	6020	1	17-NOV-10
SWMU57GW111610D1	L10110608-08	6020	1	17-NOV-10
SWMU57111610EB	L10110608-09	6020	1	17-NOV-10
SWMU57111610EB	L10110608-10	6020	1	17-NOV-10
SWMU57GWMW3	L10110608-11	6020	1	17-NOV-10
SWMU57GWMW3	L10110608-11	6020	50	17-NOV-10
SWMU57GWMW3	L10110608-12	6020	1	17-NOV-10
SWMU57111610FB	L10110608-13	6020	1	17-NOV-10
SWMU57111610FB	L10110608-14	6020	1	17-NOV-10

Microbac Laboratories Inc.

Report Number: **L10110608**

Report Date : **December 6, 2010**

Sample Number:	**L10110608-01**	PrePrep Method:	**NONE**	Instrument:	**ELAN-ICP**
Client ID:	**SWMU57GWMW2**	Prep Method:	**3015**	Prep Date:	**11/19/2010 06:02**
Matrix:	**Water**	Analytical Method:	**6020**	Cal Date:	**11/22/2010 10:47**
Workgroup Number:	**WG349360**	Analyst:	**JYH**	Run Date:	**11/22/2010 16:52**
Collect Date:	**11/16/2010 15:30**	Dilution:	**1**	File ID:	**EL.112210.165258**
Sample Tag:	**01**	Units:	**mg/L**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	**7440-36-0**	**0.00278**		**0.00100**	**0.000500**
Arsenic, Total	**7440-38-2**	**0.00267**		**0.00100**	**0.000500**
Chromium, Total	**7440-47-3**	**0.00417**		**0.00200**	**0.00100**

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-01**
Client ID: **SWMU57GWMW2**
Matrix: **Water**
Workgroup Number: **WG349360**
Collect Date: **11/16/2010 15:30**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **50**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **11/19/2010 06:02**
Cal Date: **11/23/2010 15:32**
Run Date: **11/23/2010 18:41**
File ID: **EL.112310.184139**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Manganese, Total	7439-96-5	0.215		0.100	0.0500

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-02**
Client ID: **SWMU57GWMW2**
Matrix: **Water**
Workgroup Number: **WG349857**
Collect Date: **11/16/2010 15:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **11/19/2010 06:46**
Cal Date: **11/29/2010 09:36**
Run Date: **11/29/2010 14:39**
File ID: **EL.112910.143925**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Dissolved	7440-36-0	0.00253		0.00100	0.000500
Arsenic, Dissolved	7440-38-2	0.00239		0.00100	0.000500
Chromium, Dissolved	7440-47-3	0.00232		0.00200	0.00100
Manganese, Dissolved	7439-96-5	0.178		0.00200	0.00100

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number:	L10110608-03	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU57GW111610MS	Prep Method:	3015	Prep Date:	11/19/2010 06:02
Matrix:	Water	Analytical Method:	6020	Cal Date:	11/22/2010 10:47
Workgroup Number:	WG349360	Analyst:	JYH	Run Date:	11/22/2010 16:59
Collect Date:	11/16/2010 15:30	Dilution:	1	File ID:	EL.112210.165946
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	0.0616		0.00100	0.000500
Arsenic, Total	7440-38-2	0.0607		0.00100	0.000500
Chromium, Total	7440-47-3	0.0718		0.00200	0.00100

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-03**
Client ID: **SWMU57GW111610MS**
Matrix: **Water**
Workgroup Number: **WG349360**
Collect Date: **11/16/2010 15:30**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **50**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **11/19/2010 06:02**
Cal Date: **11/23/2010 15:32**
Run Date: **11/23/2010 18:48**
File ID: **EL.112310.184826**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Manganese, Total	7439-96-5	0.274		0.100	0.0500

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-04**
Client ID: **SWMU57GW111610MS**
Matrix: **Water**
Workgroup Number: **WG349857**
Collect Date: **11/16/2010 15:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **11/19/2010 06:46**
Cal Date: **11/29/2010 09:36**
Run Date: **11/29/2010 14:46**
File ID: **EL.112910.144609**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Dissolved	7440-36-0	0.0597		0.00100	0.000500
Arsenic, Dissolved	7440-38-2	0.0616		0.00100	0.000500
Chromium, Dissolved	7440-47-3	0.0706		0.00200	0.00100
Manganese, Dissolved	7439-96-5	0.209		0.00200	0.00100

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number:	L10110608-05	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU57GW111610MSD	Prep Method:	3015	Prep Date:	11/19/2010 06:02
Matrix:	Water	Analytical Method:	6020	Cal Date:	11/22/2010 10:47
Workgroup Number:	WG349360	Analyst:	JYH	Run Date:	11/22/2010 17:06
Collect Date:	11/16/2010 15:30	Dilution:	1	File ID:	EL.112210.170633
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	0.0625		0.00100	0.000500
Arsenic, Total	7440-38-2	0.0619		0.00100	0.000500
Chromium, Total	7440-47-3	0.0702		0.00200	0.00100

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number:	L10110608-05	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU57GW111610MSD	Prep Method:	3015	Prep Date:	11/19/2010 06:02
Matrix:	Water	Analytical Method:	6020	Cal Date:	11/23/2010 15:32
Workgroup Number:	WG349360	Analyst:	JYH	Run Date:	11/23/2010 18:55
Collect Date:	11/16/2010 15:30	Dilution:	50	File ID:	EL.112310.185512
Sample Tag:	DL01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Manganese, Total	7439-96-5	0.285		0.100	0.0500

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-06**
Client ID: **SWMU57GW111610MSD**
Matrix: **Water**
Workgroup Number: **WG349857**
Collect Date: **11/16/2010 15:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **11/19/2010 06:46**
Cal Date: **11/29/2010 09:36**
Run Date: **11/29/2010 14:52**
File ID: **EL.112910.145253**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Dissolved	7440-36-0	0.0611		0.00100	0.000500
Arsenic, Dissolved	7440-38-2	0.0612		0.00100	0.000500
Chromium, Dissolved	7440-47-3	0.0706		0.00200	0.00100
Manganese, Dissolved	7439-96-5	0.238		0.00200	0.00100

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number:	L10110608-07	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU57GW111610D1	Prep Method:	3015	Prep Date:	11/19/2010 06:02
Matrix:	Water	Analytical Method:	6020	Cal Date:	11/22/2010 10:47
Workgroup Number:	WG349360	Analyst:	JYH	Run Date:	11/22/2010 17:13
Collect Date:	11/16/2010 15:30	Dilution:	1	File ID:	EL.112210.171320
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	0.00269		0.00100	0.000500
Arsenic, Total	7440-38-2	0.00255		0.00100	0.000500
Chromium, Total	7440-47-3	0.00351		0.00200	0.00100
Manganese, Total	7439-96-5	0.230		0.00200	0.00100

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number:	L10110608-08	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU57GW111610D1	Prep Method:	3015	Prep Date:	11/19/2010 06:46
Matrix:	Water	Analytical Method:	6020	Cal Date:	11/29/2010 09:36
Workgroup Number:	WG349857	Analyst:	JYH	Run Date:	11/29/2010 14:59
Collect Date:	11/16/2010 15:30	Dilution:	1	File ID:	EL.112910.145938
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Dissolved	7440-36-0	0.00263		0.00100	0.000500
Arsenic, Dissolved	7440-38-2	0.00238		0.00100	0.000500
Chromium, Dissolved	7440-47-3	0.00183	J	0.00200	0.00100
Manganese, Dissolved	7439-96-5	0.171		0.00200	0.00100

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number:	L10110608-09	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU57111610EB	Prep Method:	3015	Prep Date:	11/19/2010 06:02
Matrix:	Water	Analytical Method:	6020	Cal Date:	11/22/2010 10:47
Workgroup Number:	WG349360	Analyst:	JYH	Run Date:	11/22/2010 17:20
Collect Date:	11/16/2010 16:00	Dilution:	1	File ID:	EL.112210.172005
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	0.00100	0.000500
Arsenic, Total	7440-38-2		U	0.00100	0.000500
Chromium, Total	7440-47-3	0.00271		0.00200	0.00100
Manganese, Total	7439-96-5	0.00342		0.00200	0.00100

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number:	L10110608-10	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU57111610EB	Prep Method:	3015	Prep Date:	11/19/2010 06:46
Matrix:	Water	Analytical Method:	6020	Cal Date:	11/29/2010 09:36
Workgroup Number:	WG349857	Analyst:	JYH	Run Date:	11/29/2010 15:06
Collect Date:	11/16/2010 16:00	Dilution:	1	File ID:	EL.112910.150623
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Dissolved	7440-36-0		U	0.00100	0.000500
Arsenic, Dissolved	7440-38-2		U	0.00100	0.000500
Chromium, Dissolved	7440-47-3	0.00104	J	0.00200	0.00100
Manganese, Dissolved	7439-96-5	0.00227		0.00200	0.00100

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-11**
Client ID: **SWMU57GWMW3**
Matrix: **Water**
Workgroup Number: **WG349360**
Collect Date: **11/16/2010 18:22**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **11/19/2010 06:02**
Cal Date: **11/22/2010 10:47**
Run Date: **11/22/2010 17:26**
File ID: **EL.112210.172651**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	0.00646		0.00100	0.000500
Arsenic, Total	7440-38-2	0.168		0.00100	0.000500

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number:	L10110608-11	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU57GWMW3	Prep Method:	3015	Prep Date:	11/19/2010 06:02
Matrix:	Water	Analytical Method:	6020	Cal Date:	11/24/2010 10:38
Workgroup Number:	WG349360	Analyst:	JYH	Run Date:	11/24/2010 13:13
Collect Date:	11/16/2010 18:22	Dilution:	50	File ID:	EL.112410.131343
Sample Tag:	DL01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Chromium, Total	7440-47-3	0.626		0.100	0.0500
Manganese, Total	7439-96-5	5.22		0.100	0.0500

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number:	L10110608-12	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU57GWMW3	Prep Method:	3015	Prep Date:	11/19/2010 06:46
Matrix:	Water	Analytical Method:	6020	Cal Date:	11/29/2010 09:36
Workgroup Number:	WG349857	Analyst:	JYH	Run Date:	11/29/2010 14:25
Collect Date:	11/16/2010 18:22	Dilution:	1	File ID:	EL.112910.142554
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Dissolved	7440-36-0		U	0.00100	0.000500
Arsenic, Dissolved	7440-38-2	0.00134		0.00100	0.000500
Chromium, Dissolved	7440-47-3	0.00728		0.00200	0.00100
Manganese, Dissolved	7439-96-5	0.00255		0.00200	0.00100

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number:	L10110608-13	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU57111610FB	Prep Method:	3015	Prep Date:	11/19/2010 06:02
Matrix:	Water	Analytical Method:	6020	Cal Date:	11/22/2010 10:47
Workgroup Number:	WG349360	Analyst:	JYH	Run Date:	11/22/2010 17:33
Collect Date:	11/16/2010 19:30	Dilution:	1	File ID:	EL.112210.173336
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	0.00100	0.000500
Arsenic, Total	7440-38-2		U	0.00100	0.000500
Chromium, Total	7440-47-3		U	0.00200	0.00100
Manganese, Total	7439-96-5		U	0.00200	0.00100

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number:	L10110608-14	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU57111610FB	Prep Method:	3015	Prep Date:	11/19/2010 06:46
Matrix:	Water	Analytical Method:	6020	Cal Date:	11/29/2010 09:36
Workgroup Number:	WG349857	Analyst:	JYH	Run Date:	11/29/2010 14:32
Collect Date:	11/16/2010 19:30	Dilution:	1	File ID:	EL.112910.143240
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Dissolved	7440-36-0		U	0.00100	0.000500
Arsenic, Dissolved	7440-38-2		U	0.00100	0.000500
Chromium, Dissolved	7440-47-3		U	0.00200	0.00100
Manganese, Dissolved	7439-96-5		U	0.00200	0.00100

U Analyte was not detected. The concentration is below the reported LOD.

2.2.1.2 QC Summary Data

Example 6020 Calculations
Perkin Elmer ELAN 6100

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	100
Vi = Initial volume	40
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/L)	0.25

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	200
Vi = Initial volume	0.5
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/kg)	40

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	40
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	50

50 ug/kg = 0.050 mg/kg

Perkin Elmer ELAN ICP/MS

STANDARDS KEY

QC Std 1 - ICV
QC Std 2 - ICB
QC Std 3 - LLICV
QC Std 4 - ICSA
QC Std 5 - ICSAB
QC Std 6 - CCV
QC Std 7 - CCB
QC Std 8 - LLCCV

Calibration Solutions

Analyte	Stock Conc. (mg/L)	S1 (mg/L)	S2 (mg/L)	S3 (mg/L)	S4 (mg/L)
Al	10	0	0.0004	0.05	0.1
Sb	10	0	0.0004	0.05	0.1
As	10	0	0.0004	0.05	0.1
Ba	10	0	0.0004	0.05	0.1
Be	10	0	0.0004	0.05	0.1
Ca	1000	0	0.04	5	10
Cd	10	0	0.0004	0.05	0.1
Cr	10	0	0.0004	0.05	0.1
Co	10	0	0.0004	0.05	0.1
Cu	10	0	0.0004	0.05	0.1
Fe	1000	0	0.04	5	10
Pb	10	0	0.0004	0.05	0.1
Mg	1000	0	0.04	5	10
Mn	10	0	0.0004	0.05	0.1
Ni	10	0	0.0004	0.05	0.1
K	1000	0	0.04	5	10
Se	10	0	0.0004	0.05	0.1
Ag	10	0	0.0004	0.05	0.1
Na	1000	0	0.04	5	10
Tl	10	0	0.0004	0.05	0.1
V	10	0	0.0004	0.05	0.1
U	1000	0	0.0004	0.05	0.1
Zn	10	0	0.0004	0.05	0.1

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG349181
Analyst: VC
Spike Analyst: VC
Run Date: 11/19/2010 06:02
Method: 3015

SOP: ME407 Revison 11
Spike Solution: STD41894
Spike Witness: ERP
HNO3 Lot #: COA15021
Digestion Tubes Lot #: COA15040

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG349181-02	BLANK	1	40 mL	100 mL	207.297 g	207.289 g		
2	WG349144-01	FBLK	18	40 mL	100 mL	209.018 g	208.992 g		
3	WG349181-03	LCS	1	40 mL	100 mL	208.206 g	208.157 g	.25 mL	
4	L10110544-01	SAMP	18	40 mL	100 mL	206.597 g	206.584 g		11/24/10
5	WG349181-06	REF	18	40 mL	100 mL	208.362 g	208.359 g		
6	L10110544-03	RS01	18	40 mL	100 mL	208.362 g	208.359 g		11/24/10
7	WG349181-07	MS	18	40 mL	100 mL	208.847 g	208.842 g	.25 mL	
8	L10110544-04	MS01	18	40 mL	100 mL	208.847 g	208.842 g	.25 mL	11/24/10
9	WG349181-08	MSD	18	40 mL	100 mL	209.287 g	209.273 g	.25 mL	
10	L10110544-05	SD01	18	40 mL	100 mL	209.287 g	209.273 g	.25 mL	11/24/10
11	WG349181-01	REF	1	40 mL	100 mL	206.616 g	206.608 g		
12	L10110608-01	RS01	1	40 mL	100 mL	206.616 g	206.608 g		12/01/10
13	WG349181-04	MS	1	40 mL	100 mL	208.246 g	208.235 g	.25 mL	
14	L10110608-03	MS01	1	40 mL	100 mL	208.246 g	208.235 g	.25 mL	12/01/10
15	WG349181-05	MSD	1	40 mL	100 mL	205.441 g	205.412 g	.25 mL	
16	L10110608-05	SD01	1	40 mL	100 mL	205.441 g	205.412 g	.25 mL	12/01/10
17	L10110608-07	SAMP	1	40 mL	100 mL	207.119 g	207.104 g		12/01/10
18	L10110608-09	SAMP	1	40 mL	100 mL	205.652 g	205.641 g		12/01/10
19	L10110608-11	SAMP	1	40 mL	100 mL	208.114 g	208.07 g		12/01/10
20	L10110608-13	SAMP	1	40 mL	100 mL	206.629 g	206.609 g		12/01/10
21	L10110612-01	SAMP	1	40 mL	100 mL	209.113 g	209.1 g		11/29/10
22	L10110612-02	SAMP	1	40 mL	100 mL	208.903 g	208.881 g		11/29/10
23	L10110627-02	SAMP	1	40 mL	100 mL	208.718 g	208.698 g		11/29/10
24	L10110627-04	SAMP	1	40 mL	100 mL	208.09 g	208.083 g		11/29/10
25	L10110627-06	SAMP	1	40 mL	100 mL	209.763 g	209.751 g		11/29/10
26	L10110627-07	SAMP	1	40 mL	100 mL	207.415 g	207.41 g		11/29/10
27	L10110627-09	SAMP	1	40 mL	100 mL	208.15 g	208.138 g		11/29/10
28	L10110627-11	SAMP	1	40 mL	100 mL	206.441 g	206.422 g		11/29/10
29	L10110629-01	SAMP	1	40 mL	100 mL	207.105 g	207.097 g		11/29/10
30	L10110629-02	SAMP	1	40 mL	100 mL	209.38 g	209.364 g		11/29/10

Analyst: Vicki Collins

Reviewer: Erin Potter

MW_DIG - Modified 09/30/2009
PDF ID: 1843950
Report generated: 11/19/2010 11:07

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG349188
Analyst: VC
Spike Analyst: VC
Run Date: 11/19/2010 06:46
Method: 3015

SOP: ME407 Revison 11
Spike Solution: STD41894
Spike Witness: ERP
HNO3 Lot #: COA15021
Digestion Tubes Lot #: COA15040

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG349188-02	BLANK	1	40 mL	100 mL	206.791 g	206.768 g		
2	WG349188-03	LCS	1	40 mL	100 mL	205.255 g	205.235 g	.25 mL	
3	WG349188-01	REF	1	40 mL	100 mL	207.054 g	207.04 g		
4	L10110608-02	RS02	1	40 mL	100 mL	207.054 g	207.04 g		12/01/10
5	WG349188-04	MS	1	40 mL	100 mL	205.98 g	205.965 g	.25 mL	
6	L10110608-04	MS02	1	40 mL	100 mL	205.98 g	205.965 g	.25 mL	12/01/10
7	WG349188-05	MSD	1	40 mL	100 mL	206.899 g	206.895 g	.25 mL	
8	L10110608-06	SD02	1	40 mL	100 mL	206.899 g	206.895 g	.25 mL	12/01/10
9	L10110608-08	SAMP	1	40 mL	100 mL	206.775 g	206.758 g		12/01/10
10	L10110608-10	SAMP	1	40 mL	100 mL	207.448 g	207.432 g		12/01/10
11	L10110608-12	SAMP	1	40 mL	100 mL	206.716 g	206.695 g		12/01/10
12	L10110608-14	SAMP	1	40 mL	100 mL	206.806 g	206.79 g		12/01/10

Analyst: Vicki Collins

Reviewer: Erin Potter

MW_DIG - Modified 09/30/2009
PDF ID: 1843757
Report generated: 11/19/2010 09:40

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112210A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35496

Calibration Std: STD42154 ICV Std: STD42503 Post Spike: STD39992
ICSA: STD42155 ICSAB: STD42156 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 349359,349358,349360,349368,349146,349492

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.112210.102055	Blank	Blank		1		11/22/10 10:20
2	EL.112210.102738	WG349512-01	Calibration Point		1		11/22/10 10:27
3	EL.112210.103421	WG349512-02	Calibration Point		1		11/22/10 10:34
4	EL.112210.104105	WG349512-03	Calibration Point		1		11/22/10 10:41
5	EL.112210.104750	WG349512-04	Calibration Point		1		11/22/10 10:47
6	EL.112210.105434	WG349512-05	Initial Calibration Verification		1		11/22/10 10:54
7	EL.112210.110117	WG349512-06	Initial Calib Blank		1		11/22/10 11:01
8	EL.112210.110803	WG349512-07	Low Level Initial Calibration V		1		11/22/10 11:08
9	EL.112210.111451	WG349512-08	Interference Check		1		11/22/10 11:14
10	EL.112210.112137	WG349512-09	Interference Check		1		11/22/10 11:21
11	EL.112210.112824	WG349512-10	CCV		1		11/22/10 11:28
12	EL.112210.113508	WG349512-11	CCB		1		11/22/10 11:35
13	EL.112210.114151	WG349031-02	Reference Sample		50	L10110569-05	11/22/10 11:41
14	EL.112210.114835	WG349031-07	Matrix Spike	40/100	50	L10110569-05	11/22/10 11:48
15	EL.112210.115518	WG349031-08	Matrix Spike Duplica	40/100	50	L10110569-05	11/22/10 11:55
16	EL.112210.120203	WG349031-05	Matrix Spike	40/100	2	L10110523-01	11/22/10 12:02
17	EL.112210.120847	L10110530-01	CLAMW26-101116		10		11/22/10 12:08
18	EL.112210.121532	L10110530-02	CLAOW02-101116	40/100	10		11/22/10 12:15
19	EL.112210.122217	L10110530-03	DUP-01-101116	40/100	10		11/22/10 12:22
20	EL.112210.123112	L10110530-03	DUP-01-101116		50		11/22/10 12:31
21	EL.112210.123758	WG349512-12	CCV		1		11/22/10 12:37
22	EL.112210.124442	WG349512-13	CCB		1		11/22/10 12:44
23	EL.112210.125127	WG348583-02	Method/Prep Blank	40/100	1		11/22/10 12:51
24	EL.112210.125812	WG348583-03	Laboratory Control S	40/100	1		11/22/10 12:58
25	EL.112210.130455	WG348583-01	Reference Sample		10	L10110420-05	11/22/10 13:04
26	EL.112210.131139	WG348583-04	Matrix Spike	40/100	10	L10110420-05	11/22/10 13:11
27	EL.112210.131823	WG348583-05	Matrix Spike Duplica	40/100	10	L10110420-05	11/22/10 13:18
28	EL.112210.132508	L10110420-01	OP03-101111	40/100	10		11/22/10 13:25
29	EL.112210.133327	WG349358-01	Post Digestion Spike		10	L10110420-03	11/22/10 13:33
30	EL.112210.134330	L10110420-03	LF1GPMW03-101111	40/100	10		11/22/10 13:43
31	EL.112210.135016	WG349358-02	Serial Dilution		50	L10110420-03	11/22/10 13:50
32	EL.112210.135702	L10110433-01	01SYS-EFF-111110	40/100	1		11/22/10 13:57
33	EL.112210.140817	WG349512-14	CCV		1		11/22/10 14:08
34	EL.112210.141501	WG349512-15	CCB		1		11/22/10 14:15

Page: 1 Approved: November 24, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112210A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35496

Calibration Std: STD42154 ICV Std: STD42503 Post Spike: STD39992
ICSA: STD42155 ICSAB: STD42156 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 349359,349358,349360,349368,349146,349492

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	EL.112210.142145	L10110420-02	MW95-1-101111	40/100	10		11/22/10 14:21
36	EL.112210.142831	L10110420-04	CLAMW12-101111	40/100	10		11/22/10 14:28
37	EL.112210.143518	L10110378-01	GPMW08-1011	40/100	10		11/22/10 14:35
38	EL.112210.144203	L10110378-02	LF1MW01B-1011	40/100	10		11/22/10 14:42
39	EL.112210.144847	L10110378-03	LF1MW04A-1011	40/100	10		11/22/10 14:48
40	EL.112210.145531	L10110378-04	LF7MW04-1011	40/100	10		11/22/10 14:55
41	EL.112210.150227	L10110378-05	MW92-2-1011	40/100	10		11/22/10 15:02
42	EL.112210.151007	L10110420-02	MW95-1-101111	40/100	50		11/22/10 15:10
43	EL.112210.151653	WG349512-16	CCV		1		11/22/10 15:16
44	EL.112210.152337	WG349512-17	CCB		1		11/22/10 15:23
45	EL.112210.153129	WG349360-03	Louisville Chem Requ		1		11/22/10 15:31
46	EL.112210.153820	WG349181-02	Method/Prep Blank	40/100	1		11/22/10 15:38
47	EL.112210.154505	WG349144-01	Fluid Blank		1		11/22/10 15:45
48	EL.112210.155150	WG349181-03	Laboratory Control S	40/100	1		11/22/10 15:51
49	EL.112210.155835	WG349181-06	Reference Sample		1	L10110544-03	11/22/10 15:58
50	EL.112210.160537	WG349181-07	Matrix Spike	40/100	1	L10110544-03	11/22/10 16:05
51	EL.112210.161222	WG349181-08	Matrix Spike Duplica	40/100	1	L10110544-03	11/22/10 16:12
52	EL.112210.161909	L10110544-01	AV-NCB-SS-K30-5-6-C1-111	40/100	1		11/22/10 16:19
53	EL.112210.162555	WG349360-01	Post Digestion Spike		1	L10110544-01	11/22/10 16:25
54	EL.112210.163242	WG349360-02	Serial Dilution		5	L10110544-01	11/22/10 16:32
55	EL.112210.163928	WG349512-18	CCV		1		11/22/10 16:39
56	EL.112210.164613	WG349512-19	CCB		1		11/22/10 16:46
57	EL.112210.165258	WG349181-01	Reference Sample		1	L10110608-01	11/22/10 16:52
58	EL.112210.165946	WG349181-04	Matrix Spike	40/100	1	L10110608-01	11/22/10 16:59
59	EL.112210.170633	WG349181-05	Matrix Spike Duplica	40/100	1	L10110608-01	11/22/10 17:06
60	EL.112210.171320	L10110608-07	SWMU57GW111610D1	40/100	1		11/22/10 17:13
61	EL.112210.172005	L10110608-09	SWMU57111610EB	40/100	1		11/22/10 17:20
62	EL.112210.172651	L10110608-11	SWMU57GWMW3	40/100	1		11/22/10 17:26
63	EL.112210.173336	L10110608-13	SWMU57111610FB	40/100	1		11/22/10 17:33
64	EL.112210.174022	WG349512-20	CCV		1		11/22/10 17:40
65	EL.112210.174707	WG349512-21	CCB		1		11/22/10 17:47
66	EL.112210.175351	L10110612-01	LFD02-101117	40/100	5		11/22/10 17:53
67	EL.112210.180038	L10110612-02	LF1MW07-101117	40/100	5		11/22/10 18:00
68	EL.112210.180725	L10110627-02	W7A	40/100	1		11/22/10 18:07

  Approved: November 24, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112210A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35496

Calibration Std: STD42154 ICV Std: STD42503 Post Spike: STD39992
ICSA: STD42155 ICSAB: STD42156 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 349359,349358,349360,349368,349146,349492

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	EL.112210.181412	L10110627-04	W7B	40/100	1		11/22/10 18:14
70	EL.112210.182059	L10110627-06	W5	40/100	1		11/22/10 18:20
71	EL.112210.182747	L10110627-07	W17	40/100	1		11/22/10 18:27
72	EL.112210.183435	L10110627-09	W27	40/100	1		11/22/10 18:34
73	EL.112210.184124	L10110627-11	W13	40/100	1		11/22/10 18:41
74	EL.112210.184811	L10110629-01	LH18/24-SP650-6401-GRAB	40/100	1		11/22/10 18:48
75	EL.112210.185456	L10110629-02	LH18/24-SP650-6401-COMP	40/100	1		11/22/10 18:54
76	EL.112210.190142	WG349512-22	CCV		1		11/22/10 19:01
77	EL.112210.190826	WG349512-23	CCB		1		11/22/10 19:08
78	EL.112210.191511	WG349196-02	Method/Prep Blank	.5/200	1		11/22/10 19:15
79	EL.112210.192157	WG349196-03	Laboratory Control S	.5/200	1		11/22/10 19:21
80	EL.112210.192843	WG349196-01	Reference Sample		25	L10110628-02	11/22/10 19:28
81	EL.112210.193530	WG349196-04	Matrix Spike	.504/200	25	L10110628-02	11/22/10 19:35
82	EL.112210.194217	WG349196-05	Matrix Spike Duplica	.504/200	25	L10110628-02	11/22/10 19:42
83	EL.112210.194905	L10110628-01	374421	.502/200	25		11/22/10 19:49
84	EL.112210.195552	WG349368-01	Post Digestion Spike		25	L10110628-01	11/22/10 19:55
85	EL.112210.200240	WG349368-02	Serial Dilution		125	L10110628-01	11/22/10 20:02
86	EL.112210.200927	WG349512-24	CCV		1		11/22/10 20:09
87	EL.112210.201612	WG349512-25	CCB		1		11/22/10 20:16
88	EL.112210.202257	WG348572-02	Method/Prep Blank	.5/200	1		11/22/10 20:22
89	EL.112210.202943	WG348572-03	Laboratory Control S	.5/200	1		11/22/10 20:29
90	EL.112210.203630	WG348572-01	Reference Sample		5	L10110441-01	11/22/10 20:36
91	EL.112210.204317	WG348572-04	Matrix Spike	.518/200	5	L10110441-01	11/22/10 20:43
92	EL.112210.205005	WG348572-05	Matrix Spike Duplica	.518/200	5	L10110441-01	11/22/10 20:50
93	EL.112210.205652	L10110404-01	0922-629-C-001	.519/200	5		11/22/10 20:56
94	EL.112210.210340	L10110404-02	0922-629-C-002	.529/200	5		11/22/10 21:03
95	EL.112210.211029	WG349146-03	Post Digestion Spike		5	L10110404-02	11/22/10 21:10
96	EL.112210.211718	WG349146-04	Serial Dilution		25	L10110404-02	11/22/10 21:17
97	EL.112210.212405	WG349512-26	CCV		1		11/22/10 21:24
98	EL.112210.213050	WG349512-27	CCB		1		11/22/10 21:30
99	EL.112210.213736	L10110404-03	0922-629-C-003	.524/200	5		11/22/10 21:37
100	EL.112210.214425	L10110404-04	0922-629-C-004	.505/200	5		11/22/10 21:44
101	EL.112210.215113	L10110404-05	0922-629-C-005	.51/200	5		11/22/10 21:51
102	EL.112210.215759	L10110404-06	0922-629-C-006	.5/200	5		11/22/10 21:57

Page: 3 Approved: November 24, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112210A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35496

Calibration Std: STD42154 ICV Std: STD42503 Post Spike: STD39992
ICSA: STD42155 ICSAB: STD42156 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 349359,349358,349360,349368,349146,349492

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	EL.112210.220446	L10110404-07	0922-629-C-007	.503/200	5		11/22/10 22:04
104	EL.112210.221133	L10110404-08	0922-629-C-008	.529/200	5		11/22/10 22:11
105	EL.112210.221821	L10110404-09	0922-629-C-009	.509/200	5		11/22/10 22:18
106	EL.112210.222508	L10110404-10	0922-629-C-010	.533/200	5		11/22/10 22:25
107	EL.112210.223156	L10110404-11	0922-629-C-011	.503/200	5		11/22/10 22:31
108	EL.112210.223845	L10110404-12	0922-629-C-012	.517/200	5		11/22/10 22:38
109	EL.112210.224532	WG349512-28	CCV		1		11/22/10 22:45
110	EL.112210.225217	WG349512-29	CCB		1		11/22/10 22:52
111	EL.112210.225900	WG349411-03	Method/Prep Blank	40/100	1		11/22/10 22:59
112	EL.112210.230543	WG349411-04	Laboratory Control S	40/100	1		11/22/10 23:05
113	EL.112210.231226	L10110650-01	HEADER		5	WG349411-01	11/22/10 23:12
114	EL.112210.231911	WG349411-05	Matrix Spike	40/100	5	L10110650-01	11/22/10 23:19
115	EL.112210.232555	WG349411-06	Matrix Spike Duplica	40/100	5	L10110650-01	11/22/10 23:25
116	EL.112210.233240	L10110650-02	HEADER	40/100	5		11/22/10 23:32
117	EL.112210.233925	WG349492-01	Post Digestion Spike		5	L10110650-02	11/22/10 23:39
118	EL.112210.234610	WG349492-02	Serial Dilution		25	L10110650-02	11/22/10 23:46
119	EL.112210.235256	WG349512-30	CCV		1		11/22/10 23:52
120	EL.112210.235940	WG349512-31	CCB		1		11/22/10 23:59
121	EL.112310.000625	L10110650-03	\#1	40/100	5		11/23/10 00:06
122	EL.112310.001311	L10110650-04	\#1	40/100	5		11/23/10 00:13
123	EL.112310.001957	L10110650-05	\#2	40/100	5		11/23/10 00:19
124	EL.112310.002642	L10110650-06	\#2	40/100	5		11/23/10 00:26
125	EL.112310.003326	L10110650-07	\#3	40/100	5		11/23/10 00:33
126	EL.112310.004009	L10110650-08	\#3	40/100	5		11/23/10 00:40
127	EL.112310.004654	L10110650-09	SAND FILTER	40/100	5		11/23/10 00:46
128	EL.112310.005338	L10110650-10	SAND FILTER	40/100	5		11/23/10 00:53
129	EL.112310.010023	WG349512-32	CCV		1		11/23/10 01:00
130	EL.112310.010708	WG349512-33	CCB		1		11/23/10 01:07
131	EL.112310.011352	L10110667-01	0111295-01	40/100	1		11/23/10 01:13
132	EL.112310.012037	L10110667-02	0111295-02	40/100	1		11/23/10 01:20
133	EL.112310.012723	L10110667-03	0111295-03	40/100	5		11/23/10 01:27
134	EL.112310.013409	L10110667-04	0111295-04	40/100	1		11/23/10 01:34
135	EL.112310.014055	L10110667-05	0111295-05	40/100	1		11/23/10 01:40
136	EL.112310.014741	L10110667-06	0111295-06	40/100	1		11/23/10 01:47

  Approved: November 24, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112210A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35496

Calibration Std: STD42154 ICV Std: STD42503 Post Spike: STD39992
ICSA: STD42155 ICSAB: STD42156 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 349359,349358,349360,349368,349146,349492

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
137	EL.112310.015428	L10110667-07	0111295-07	40/100	1		11/23/10 01:54
138	EL.112310.020114	L10110667-08	0111295-08		1	WG349411-02	11/23/10 02:01
139	EL.112310.020758	WG349411-07	Duplicate	40/100	1	L10110667-08	11/23/10 02:07
140	EL.112310.021442	WG349411-08	Matrix Spike	40/100	1	L10110667-08	11/23/10 02:14
141	EL.112310.022127	WG349512-34	CCV		1		11/23/10 02:21
142	EL.112310.022811	WG349512-35	CCB		1		11/23/10 02:28
143	EL.112310.023457	WG349512-36	Low Level Continuing Calibra		1		11/23/10 02:34

  Approved: November 24, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112310B.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35524

Calibration Std: STD42154 ICV Std: STD42644 Post Spike: STD42704
ICSA: STD42155 ICSAB: STD42156 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 349368,349361,349360,349609,349367

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.112310.150541	Blank	Blank		1		11/23/10 15:05
2	EL.112310.151224	WG349700-01	Calibration Point		1		11/23/10 15:12
3	EL.112310.151907	WG349700-02	Calibration Point		1		11/23/10 15:19
4	EL.112310.152551	WG349700-03	Calibration Point		1		11/23/10 15:25
5	EL.112310.153236	WG349700-04	Calibration Point		1		11/23/10 15:32
6	EL.112310.153920	WG349700-05	Initial Calibration Verification		1		11/23/10 15:39
7	EL.112310.154603	WG349700-06	Initial Calib Blank		1		11/23/10 15:46
8	EL.112310.155249	WG349700-07	Low Level Initial Calibration V		1		11/23/10 15:52
9	EL.112310.155936	WG349700-08	Interference Check		1		11/23/10 15:59
10	EL.112310.160623	WG349700-09	Interference Check		1		11/23/10 16:06
11	EL.112310.161310	WG349700-10	CCV		1		11/23/10 16:13
12	EL.112310.161954	WG349700-11	CCB		1		11/23/10 16:19
13	EL.112310.162638	L10110628-01	374421	.502/200	100		11/23/10 16:26
14	EL.112310.163323	WG349368-01	Post Digestion Spike		100	L10110628-01	11/23/10 16:33
15	EL.112310.164009	WG349368-02	Serial Dilution		500	L10110628-01	11/23/10 16:40
16	EL.112310.164654	WG349700-12	CCV		1		11/23/10 16:46
17	EL.112310.165339	WG349700-13	CCB		1		11/23/10 16:53
18	EL.112310.170023	WG349024-02	Method/Prep Blank	.5/200	1		11/23/10 17:00
19	EL.112310.170709	WG349024-03	Laboratory Control S	.5/200	1		11/23/10 17:07
20	EL.112310.171355	L10110543-01	AUSTRALIA UNTREATED	.526/200	5		11/23/10 17:13
21	EL.112310.172040	WG349024-01	Reference Sample		5	L10110468-25	11/23/10 17:20
22	EL.112310.172724	WG349024-04	Matrix Spike	.524/200	5	L10110468-25	11/23/10 17:27
23	EL.112310.173408	WG349024-05	Matrix Spike Duplica	.524/200	5	L10110468-25	11/23/10 17:34
24	EL.112310.174052	L10110468-43	DUP-SCC-SD-68-1220	.53/200	5		11/23/10 17:40
25	EL.112310.174736	L10110468-44	SCC-SD-69-0006	.546/200	5		11/23/10 17:47
26	EL.112310.175421	WG349361-01	Post Digestion Spike		5	L10110468-44	11/23/10 17:54
27	EL.112310.180106	WG349361-02	Serial Dilution		25	L10110468-44	11/23/10 18:01
28	EL.112310.180752	WG349700-14	CCV		1		11/23/10 18:07
29	EL.112310.181436	WG349700-15	CCB		1		11/23/10 18:14
30	EL.112310.182121	L10110468-45	SCC-SD-69-0609	.501/200	5		11/23/10 18:21
31	EL.112310.182807	L10110468-46	SCC-SD-70-0006	.52/200	5		11/23/10 18:28
32	EL.112310.183453	L10110468-47	SCC-SD-PH3-WASTE-01	.505/200	5		11/23/10 18:34
33	EL.112310.184139	WG349181-01	Reference Sample		50	L10110608-01	11/23/10 18:41
34	EL.112310.184826	WG349181-04	Matrix Spike	40/100	50	L10110608-01	11/23/10 18:48

  Approved: November 24, 2010

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112310B.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35524

Calibration Std: STD42154 ICV Std: STD42644 Post Spike: STD42704
ICSA: STD42155 ICSAB: STD42156 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 349368,349361,349360,349609,349367

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	EL.112310.185512	WG349181-05	Matrix Spike Duplica	40/100	50	L10110608-01	11/23/10 18:55
36	EL.112310.190157	WG349700-16	Interference Check		1		11/23/10 19:01
37	EL.112310.190843	WG349700-17	Interference Check		1		11/23/10 19:08
38	EL.112310.191530	WG349700-18	CCV		1		11/23/10 19:15
39	EL.112310.192215	WG349700-19	CCB		1		11/23/10 19:22
40	EL.112310.192858	WG348764-02	Method/Prep Blank	.5/200	1		11/23/10 19:28
41	EL.112310.193542	WG348764-03	Laboratory Control S	.5/200	1		11/23/10 19:35
42	EL.112310.194227	WG348764-01	Reference Sample		5	L10110468-17	11/23/10 19:42
43	EL.112310.194912	WG348764-04	Matrix Spike	.547/200	5	L10110468-17	11/23/10 19:49
44	EL.112310.195557	WG348764-05	Matrix Spike Duplica	.547/200	5	L10110468-17	11/23/10 19:55
45	EL.112310.200242	L10110468-01	SCC-SD-65-0006	.546/200	5		11/23/10 20:02
46	EL.112310.200928	L10110468-02	SCC-SD-65-0612	.529/200	5		11/23/10 20:09
47	EL.112310.201614	WG349609-01	Post Digestion Spike		5	L10110468-02	11/23/10 20:16
48	EL.112310.202301	WG349609-02	Serial Dilution		25	L10110468-02	11/23/10 20:23
49	EL.112310.202947	WG349700-20	CCV		1		11/23/10 20:29
50	EL.112310.203632	WG349700-21	CCB		1		11/23/10 20:36
51	EL.112310.204317	L10110449-29	SCC-SD-62-0006	.509/200	5		11/23/10 20:43
52	EL.112310.205004	L10110449-30	SCC-SD-62-0612	.522/200	5		11/23/10 20:50
53	EL.112310.205649	L10110449-31	SCC-SD-62-1223	.52/200	5		11/23/10 20:56
54	EL.112310.210334	L10110468-03	SCC-SD-65-1224	.504/200	5		11/23/10 21:03
55	EL.112310.211018	L10110468-04	SCC-SD-65-2436	.532/200	5		11/23/10 21:10
56	EL.112310.211703	L10110468-05	SCC-SD-65-3648	.509/200	5		11/23/10 21:17
57	EL.112310.212348	L10110468-06	SCC-SD-65-4860	.5/200	5		11/23/10 21:23
58	EL.112310.213034	L10110468-07	SCC-SD-65-6072	.502/200	5		11/23/10 21:30
59	EL.112310.213720	L10110468-08	DUP-SCC-SD-65-6072	.526/200	5		11/23/10 21:37
60	EL.112310.214406	L10110468-09	SCC-SD-65-7282	.54/200	5		11/23/10 21:44
61	EL.112310.215052	WG349700-22	CCV		1		11/23/10 21:50
62	EL.112310.215737	WG349700-23	CCB		1		11/23/10 21:57
63	EL.112310.220422	L10110468-10	SCC-SD-63-0006	.541/200	5		11/23/10 22:04
64	EL.112310.221109	L10110468-11	SCC-SD-63-0612	.536/200	5		11/23/10 22:11
65	EL.112310.221756	L10110468-12	SCC-SD-63-1224	.527/200	5		11/23/10 22:17
66	EL.112310.222444	L10110468-13	DUP-SCC-SD-63-1224	.501/200	5		11/23/10 22:24
67	EL.112310.223130	L10110468-14	SCC-SD-63-2428	.529/200	5		11/23/10 22:31
68	EL.112310.223814	L10110468-15	SCC-SD-64-0006	.536/200	5		11/23/10 22:38

  Approved: November 24, 2010

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112310B.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35524

Calibration Std: STD42154 ICV Std: STD42644 Post Spike: STD42704
ICSA: STD42155 ICSAB: STD42156 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 349368,349361,349360,349609,349367

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	EL.112310.224459	L10110468-16	SCC-SD-64-0612	.517/200	5		11/23/10 22:44
70	EL.112310.225145	WG349700-24	Interference Check		1		11/23/10 22:51
71	EL.112310.225831	WG349700-25	Interference Check		1		11/23/10 22:58
72	EL.112310.230518	WG349700-26	CCV		1		11/23/10 23:05
73	EL.112310.231203	WG349700-27	CCB		1		11/23/10 23:12
74	EL.112310.231847	WG348722-02	Method/Prep Blank	.5/200	1		11/23/10 23:18
75	EL.112310.232532	WG348722-03	Laboratory Control S	.5/200	1		11/23/10 23:25
76	EL.112310.233218	L10110449-28	SCC-SD-61-0006		5	WG348722-01	11/23/10 23:32
77	EL.112310.233905	WG348722-04	Matrix Spike	.502/200	5	L10110449-28	11/23/10 23:39
78	EL.112310.234551	WG348722-05	Matrix Spike Duplica	.503/200	5	L10110449-28	11/23/10 23:45
79	EL.112310.235238	L10110449-09	SCC-SD-59-0612	.506/200	5		11/23/10 23:52
80	EL.112310.235926	L10110449-10	SCC-SD-59-1224	.535/200	5		11/23/10 23:59
81	EL.112410.000613	WG349367-01	Post Digestion Spike		5	L10110449-10	11/24/10 00:06
82	EL.112410.001301	WG349367-02	Serial Dilution		25	L10110449-10	11/24/10 00:13
83	EL.112410.001948	WG349700-28	CCV		1		11/24/10 00:19
84	EL.112410.002633	WG349700-29	CCB		1		11/24/10 00:26
85	EL.112410.003316	L10110449-11	SCC-SD-59-2436	.525/200	5		11/24/10 00:33
86	EL.112410.004002	L10110449-12	SCC-SD-59-3648	.53/200	5		11/24/10 00:40
87	EL.112410.004647	L10110449-13	SCC-SD-59-4858	.503/200	5		11/24/10 00:46
88	EL.112410.005333	L10110449-14	SCC-SD-56-0006	.509/200	5		11/24/10 00:53
89	EL.112410.010019	L10110449-15	SCC-SD-56-0612	.531/200	5		11/24/10 01:00
90	EL.112410.010706	L10110449-16	SCC-SD-57-0006	.537/200	5		11/24/10 01:07
91	EL.112410.011353	L10110449-17	SCC-SD-57-0612	.504/200	5		11/24/10 01:13
92	EL.112410.012040	L10110449-18	SCC-SD-57-1224	.529/200	5		11/24/10 01:20
93	EL.112410.012727	L10110449-19	SCC-SD-57-2436	.5/200	5		11/24/10 01:27
94	EL.112410.013415	L10110449-20	DUP-SCC-SD-57-1224	.52/200	5		11/24/10 01:34
95	EL.112410.014102	WG349700-30	CCV		1		11/24/10 01:41
96	EL.112410.014747	WG349700-31	CCB		1		11/24/10 01:47
97	EL.112410.015432	L10110449-21	SCC-SD-57-3648	.505/200	5		11/24/10 01:54
98	EL.112410.020121	L10110449-22	DUP-SCC-SD-57-2436	.549/200	5		11/24/10 02:01
99	EL.112410.020808	L10110449-23	SCC-SD-55-0006	.514/200	5		11/24/10 02:08
100	EL.112410.021453	L10110449-24	SCC-SD-55-0612	.518/200	5		11/24/10 02:14
101	EL.112410.022139	L10110449-25	SCC-SD-55-1224	.516/200	5		11/24/10 02:21
102	EL.112410.022825	L10110449-26	SCC-SD-60-0006	.515/200	5		11/24/10 02:28

  Approved: November 24, 2010

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP
Dataset: 112310B.REP
Analyst1: JYH
Analyst2: N/A
Method: 6020
SOP: ME700
Rev: 6
Maintenance Log ID: 35524

Calibration Std: STD42154
ICV Std: STD42644
Post Spike: STD42704
ICSA: STD42155
ICSAB: STD42156
Int. Std: STD42592
CCV: STD42373
LLCCV: STD42593

Workgroups: 349368,349361,349360,349609,349367

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	EL.112410.023512	L10110449-27	SCC-SD-60-0611	.524/200	5		11/24/10 02:35
104	EL.112410.024158	WG349700-32	Interference Check		1		11/24/10 02:41
105	EL.112410.024845	WG349700-33	Interference Check		1		11/24/10 02:48
106	EL.112410.025532	WG349700-34	CCV		1		11/24/10 02:55
107	EL.112410.030216	WG349700-35	CCB		1		11/24/10 03:02

Approved: November 24, 2010
Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112410A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35545

Calibration Std: STD42154 ICV Std: STD42644 Post Spike: STD42704
ICSA: STD42155 ICSAB: STD42156 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 348660,349358,349360,349368,349649,349650,349755

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.112410.101129	Blank	Blank		1		11/24/10 10:11
2	EL.112410.101812	WG349781-01	Calibration Point		1		11/24/10 10:18
3	EL.112410.102455	WG349781-02	Calibration Point		1		11/24/10 10:24
4	EL.112410.103139	WG349781-03	Calibration Point		1		11/24/10 10:31
5	EL.112410.103824	WG349781-04	Calibration Point		1		11/24/10 10:38
6	EL.112410.104508	WG349781-05	Initial Calibration Verification		1		11/24/10 10:45
7	EL.112410.105151	WG349781-06	Initial Calib Blank		1		11/24/10 10:51
8	EL.112410.105837	WG349781-07	Low Level Initial Calibration V		1		11/24/10 10:58
9	EL.112410.110525	WG349781-08	Interference Check		1		11/24/10 11:05
10	EL.112410.111211	WG349781-09	Interference Check		1		11/24/10 11:12
11	EL.112410.111858	WG349781-10	CCV		1		11/24/10 11:18
12	EL.112410.112542	WG349781-11	CCB		1		11/24/10 11:25
13	EL.112410.113226	WG348052-04	Method/Prep Blank	40/100	1		11/24/10 11:32
14	EL.112410.113912	WG348052-05	Laboratory Control S	40/100	1		11/24/10 11:39
15	EL.112410.114559	WG348052-01	Reference Sample		5	L10110176-04	11/24/10 11:45
16	EL.112410.115244	WG348052-06	Matrix Spike	40/100	5	L10110176-04	11/24/10 11:52
17	EL.112410.115927	WG348052-07	Matrix Spike Duplica	40/100	5	L10110176-04	11/24/10 11:59
18	EL.112410.120611	L10110176-02	MW03-GW-110210	40/100	5		11/24/10 12:06
19	EL.112410.121255	WG348660-01	Post Digestion Spike		5	L10110176-02	11/24/10 12:12
20	EL.112410.121940	WG348660-02	Serial Dilution		25	L10110176-02	11/24/10 12:19
21	EL.112410.122625	WG349781-12	CCV		1		11/24/10 12:26
22	EL.112410.123310	WG349781-13	CCB		1		11/24/10 12:33
23	EL.112410.123953	L10110176-10	MW04-GW-110210	40/100	5		11/24/10 12:39
24	EL.112410.124639	L10110176-12	MW05-GW-110210	40/100	5		11/24/10 12:46
25	EL.112410.125324	L10110176-14	MW01-GW-110410	40/100	5		11/24/10 12:53
26	EL.112410.130010	L10110176-16	MW01-GW-110410-FD	40/100	5		11/24/10 13:00
27	EL.112410.130656	L10110421-01	LF5MW03R11	40/100	1		11/24/10 13:06
28	EL.112410.131343	L10110608-11	SWMU57GWMW3	40/100	50		11/24/10 13:13
29	EL.112410.132029	WG349781-14	Interference Check		1		11/24/10 13:20
30	EL.112410.132716	WG349781-15	Interference Check		1		11/24/10 13:27
31	EL.112410.133403	WG349781-16	CCV		1		11/24/10 13:34
32	EL.112410.134047	WG349781-17	CCB		1		11/24/10 13:40
33	EL.112410.134742	WG349781-18	Low Level Continuing Calibra		1		11/24/10 13:47
34	EL.112410.135522	WG349196-02	Method/Prep Blank	.5/200	1		11/24/10 13:55

  Approved: November 29, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112410A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35545

Calibration Std: STD42154 ICV Std: STD42644 Post Spike: STD42704
ICSA: STD42155 ICSAB: STD42156 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 348660,349358,349360,349368,349649,349650,349755

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	EL.112410.140206	WG349196-03	Laboratory Control S	.5/200	1		11/24/10 14:02
36	EL.112410.140850	WG349196-01	Reference Sample		5	L10110628-02	11/24/10 14:08
37	EL.112410.141534	WG349196-04	Matrix Spike	.504/200	5	L10110628-02	11/24/10 14:15
38	EL.112410.142218	WG349196-05	Matrix Spike Duplica	.504/200	5	L10110628-02	11/24/10 14:22
39	EL.112410.142902	L10110628-01	374421	.502/200	5		11/24/10 14:29
40	EL.112410.143547	WG349368-01	Post Digestion Spike		5	L10110628-01	11/24/10 14:35
41	EL.112410.144232	WG349368-02	Serial Dilution		25	L10110628-01	11/24/10 14:42
42	EL.112410.144918	WG349781-19	CCV		1		11/24/10 14:49
43	EL.112410.145602	WG349781-20	CCB		1		11/24/10 14:56
44	EL.112410.150247	WG349431-03	Method/Prep Blank	40/100	1		11/24/10 15:02
45	EL.112410.150932	WG349431-04	Laboratory Control S	40/100	1		11/24/10 15:09
46	EL.112410.151616	WG349431-01	Reference Sample		1	L10110635-01	11/24/10 15:16
47	EL.112410.152300	WG349431-05	Duplicate	40/100	1	L10110635-01	11/24/10 15:23
48	EL.112410.152945	WG349431-06	Matrix Spike	40/100	1	L10110635-01	11/24/10 15:29
49	EL.112410.153629	L10110636-01	OUTFALL 003	40/100	1		11/24/10 15:36
50	EL.112410.154314	WG349649-01	Post Digestion Spike		1	L10110636-01	11/24/10 15:43
51	EL.112410.155000	WG349649-02	Serial Dilution		5	L10110636-01	11/24/10 15:50
52	EL.112410.155646	WG349781-21	CCV		1		11/24/10 15:56
53	EL.112410.160330	WG349781-22	CCB		1		11/24/10 16:03
54	EL.112410.161014	L10110636-02	OUTFALL 009	40/100	1		11/24/10 16:10
55	EL.112410.161701	L10110667-09	0111295-09	40/100	1		11/24/10 16:17
56	EL.112410.162347	L10110667-10	0111295-10	40/100	1		11/24/10 16:23
57	EL.112410.163034	L10110667-11	0111295-11	40/100	1		11/24/10 16:30
58	EL.112410.163721	L10110667-12	0111295-12	40/100	1		11/24/10 16:37
59	EL.112410.164407	L10110667-13	0111295-13	40/100	1		11/24/10 16:44
60	EL.112410.165051	L10110667-14	0111295-14	40/100	1		11/24/10 16:50
61	EL.112410.165736	L10110667-15	0111295-15	40/100	1		11/24/10 16:57
62	EL.112410.170421	L10110667-16	0111295-16	40/100	1		11/24/10 17:04
63	EL.112410.171106	WG349781-23	CCV		1		11/24/10 17:11
64	EL.112410.171750	WG349781-24	CCB		1		11/24/10 17:17
65	EL.112410.172434	WG349431-02	Reference Sample		1	L10110667-17	11/24/10 17:24
66	EL.112410.173120	WG349431-07	Matrix Spike	40/100	1	L10110667-17	11/24/10 17:31
67	EL.112410.173806	L10110667-18	0111295-18	40/100	1		11/24/10 17:38
68	EL.112410.174452	L10110667-19	0111295-19	40/100	1		11/24/10 17:44

Page: 2 Approved: November 29, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112410A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35545

Calibration Std: STD42154 ICV Std: STD42644 Post Spike: STD42704
ICSA: STD42155 ICSAB: STD42156 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 348660,349358,349360,349368,349649,349650,349755

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	EL.112410.175139	L10110667-20	0111295-20	40/100	1		11/24/10 17:51
70	EL.112410.175826	L10110667-27	DISSOLVED METAL BLAN	40/100	1		11/24/10 17:58
71	EL.112410.180512	WG349781-25	CCV		1		11/24/10 18:05
72	EL.112410.181156	WG349781-26	CCB		1		11/24/10 18:11
73	EL.112410.181842	WG349517-03	Method/Prep Blank	40/100	1		11/24/10 18:18
74	EL.112410.182529	WG349517-04	Laboratory Control S	40/100	1		11/24/10 18:25
75	EL.112410.183215	WG349517-01	Reference Sample		1	L10110667-21	11/24/10 18:32
76	EL.112410.183900	WG349517-05	Duplicate	40/100	1	L10110667-21	11/24/10 18:39
77	EL.112410.184545	WG349517-06	Matrix Spike	40/100	1	L10110667-21	11/24/10 18:45
78	EL.112410.185230	L10110668-04	W43WTR	40/100	1		11/24/10 18:52
79	EL.112410.185915	WG349650-01	Post Digestion Spike		1	L10110668-04	11/24/10 18:59
80	EL.112410.190601	WG349650-02	Serial Dilution		5	L10110668-04	11/24/10 19:06
81	EL.112410.191247	WG349781-27	CCV		1		11/24/10 19:12
82	EL.112410.191932	WG349781-28	CCB		1		11/24/10 19:19
83	EL.112410.192616	L10110667-22	0111319-02	40/100	1		11/24/10 19:26
84	EL.112410.193303	L10110667-23	0111319-03	40/100	1		11/24/10 19:33
85	EL.112410.193950	L10110667-24	0111319-04	40/100	1		11/24/10 19:39
86	EL.112410.194637	L10110667-25	0111319-05	40/100	1		11/24/10 19:46
87	EL.112410.195325	L10110667-26	0111319-06	40/100	1		11/24/10 19:53
88	EL.112410.200013	WG349517-02	Reference Sample		1	L10110668-01	11/24/10 20:00
89	EL.112410.200659	WG349517-07	Matrix Spike	40/100	1	L10110668-01	11/24/10 20:06
90	EL.112410.201344	WG349517-08	Matrix Spike Duplica	40/100	1	L10110668-01	11/24/10 20:13
91	EL.112410.202030	L10110668-06	W23WT	40/100	1		11/24/10 20:20
92	EL.112410.202716	L10110668-07	W23WTEQR	40/100	1		11/24/10 20:27
93	EL.112410.203402	WG349781-29	CCV		1		11/24/10 20:34
94	EL.112410.204046	WG349781-30	CCB		1		11/24/10 20:40
95	EL.112410.204731	L10110668-09	W32WB	40/100	1		11/24/10 20:47
96	EL.112410.205417	L10110668-11	W32B	40/100	1		11/24/10 20:54
97	EL.112410.210104	L10110683-08	SR-SS-CON-EB01	40/100	1		11/24/10 21:01
98	EL.112410.210750	WG349781-31	CCV		1		11/24/10 21:07
99	EL.112410.211435	WG349781-32	CCB		1		11/24/10 21:14
100	EL.112410.212120	WG349668-03	Method/Prep Blank		1		11/24/10 21:21
101	EL.112410.212807	WG349668-04	Laboratory Control S		1		11/24/10 21:28
102	EL.112410.213455	WG349668-02	Reference Sample		2	L10110773-01	11/24/10 21:34

Page: 3 Approved: November 29, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112410A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35545

Calibration Std: STD42154 ICV Std: STD42644 Post Spike: STD42704
ICSA: STD42155 ICSAB: STD42156 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 348660,349358,349360,349368,349649,349650,349755

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	EL.112410.214144	WG349668-07	Duplicate		2	L10110773-01	11/24/10 21:41
104	EL.112410.214832	WG349668-08	Matrix Spike		2	L10110773-01	11/24/10 21:48
105	EL.112410.215519	L10110678-01	MW-11		1		11/24/10 21:55
106	EL.112410.220205	L10110678-02	MW-13		1		11/24/10 22:02
107	EL.112410.220850	WG349751-01	Post Digestion Spike		1	L10110678-02	11/24/10 22:08
108	EL.112410.221536	WG349751-02	Serial Dilution		5	L10110678-02	11/24/10 22:15
109	EL.112410.222222	WG349781-33	CCV		1		11/24/10 22:22
110	EL.112410.222907	WG349781-34	CCB		1		11/24/10 22:29
111	EL.112410.223552	WG349668-01	Reference Sample		1	L10110678-03	11/24/10 22:35
112	EL.112410.224239	WG349668-05	Matrix Spike		1	L10110678-03	11/24/10 22:42
113	EL.112410.224926	WG349668-06	Matrix Spike Duplica		1	L10110678-03	11/24/10 22:49
114	EL.112410.225613	L10110678-04	MW-15		1		11/24/10 22:56
115	EL.112410.230301	L10110678-06	MW-1		1		11/24/10 23:03
116	EL.112410.230949	L10110678-07	MW-2		1		11/24/10 23:09
117	EL.112410.231638	L10110678-08	MW-3		1		11/24/10 23:16
118	EL.112410.232327	L10110678-09	MW-6		1		11/24/10 23:23
119	EL.112410.233014	L10110678-10	MW-12		1		11/24/10 23:30
120	EL.112410.233700	L10110678-11	MW-16		1		11/24/10 23:37
121	EL.112410.234346	WG349781-35	CCV		1		11/24/10 23:43
122	EL.112410.235030	WG349781-36	CCB		1		11/24/10 23:50
123	EL.112410.235715	L10110774-01	MW-5		1		11/24/10 23:57
124	EL.112510.000401	L10110774-02	MW-7		1		11/25/10 00:04
125	EL.112510.001048	L10110774-03	MW-8		1		11/25/10 00:10
126	EL.112510.001736	L10110774-04	MW-9		1		11/25/10 00:17
127	EL.112510.002423	L10110774-05	MW-10		1		11/25/10 00:24
128	EL.112510.003110	WG349781-37	CCV		1		11/25/10 00:31
129	EL.112510.003754	WG349781-38	CCB		1		11/25/10 00:37
130	EL.112510.004440	WG349532-02	Method/Prep Blank	40/100	1		11/25/10 00:44
131	EL.112510.005128	WG349532-03	Laboratory Control S	40/100	1		11/25/10 00:51
132	EL.112510.005817	L10110633-33	MW-58		5	WG349532-01	11/25/10 00:58
133	EL.112510.010505	WG349532-04	Matrix Spike	40/100	5	L10110633-33	11/25/10 01:05
134	EL.112510.011155	WG349532-05	Matrix Spike Duplica	40/100	5	L10110633-33	11/25/10 01:11
135	EL.112510.011842	L10110633-02	MW-2	40/100	5		11/25/10 01:18
136	EL.112510.012528	L10110633-04	MW-5	40/100	5		11/25/10 01:25

Page: 4 Approved: November 29, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112410A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35545

Calibration Std: STD42154 ICV Std: STD42644 Post Spike: STD42704
ICSA: STD42155 ICSAB: STD42156 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 348660,349358,349360,349368,349649,349650,349755

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
137	EL.112510.013215	WG349755-01	Post Digestion Spike		5	L10110633-04	11/25/10 01:32
138	EL.112510.013902	WG349755-02	Serial Dilution		25	L10110633-04	11/25/10 01:39
139	EL.112510.014548	WG349781-39	CCV		1		11/25/10 01:45
140	EL.112510.015233	WG349781-40	CCB		1		11/25/10 01:52
141	EL.112510.015918	L10110633-06	MW-12	40/100	5		11/25/10 01:59
142	EL.112510.020605	L10110633-08	MW-16	40/100	5		11/25/10 02:06
143	EL.112510.021253	L10110633-10	MW-18	40/100	5		11/25/10 02:12
144	EL.112510.021941	L10110633-12	MW-28	40/100	5		11/25/10 02:19
145	EL.112510.022630	L10110633-14	MW-31	40/100	5		11/25/10 02:26
146	EL.112510.023318	L10110633-16	MW-32	40/100	5		11/25/10 02:33
147	EL.112510.024008	L10110633-18	MW-35	40/100	5		11/25/10 02:40
148	EL.112510.024657	L10110633-20	MW-36	40/100	5		11/25/10 02:46
149	EL.112510.025345	L10110633-22	MW-37	40/100	5		11/25/10 02:53
150	EL.112510.030031	L10110633-24	MW-39S	40/100	5		11/25/10 03:00
151	EL.112510.030718	WG349781-41	CCV		1		11/25/10 03:07
152	EL.112510.031402	WG349781-42	CCB		1		11/25/10 03:14
153	EL.112510.032047	L10110633-28	FB-1	40/100	5		11/25/10 03:20
154	EL.112510.032734	L10110633-31	MW-51	40/100	5		11/25/10 03:27
155	EL.112510.033421	WG349781-43	CCV		1		11/25/10 03:34
156	EL.112510.034105	WG349781-44	CCB		1		11/25/10 03:41
157	EL.112510.034751	WG349781-45	QC Std 8		1		11/25/10 03:47

Page: 5 Approved: November 29, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112910A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35557

Calibration Std: STD42618 ICV Std: STD42644 Post Spike: STD42704
ICSA: STD42725 ICSAB: STD42726 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 349751,349650,349857,349884,349858

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.112910.090957	Blank	Blank		1		11/29/10 09:09
2	EL.112910.091640	WG349895-01	Calibration Point		1		11/29/10 09:16
3	EL.112910.092324	WG349895-02	Calibration Point		1		11/29/10 09:23
4	EL.112910.093008	WG349895-03	Calibration Point		1		11/29/10 09:30
5	EL.112910.093653	WG349895-04	Calibration Point		1		11/29/10 09:36
6	EL.112910.094337	WG349895-05	Initial Calibration Verification		1		11/29/10 09:43
7	EL.112910.095020	WG349895-06	Initial Calib Blank		1		11/29/10 09:50
8	EL.112910.095706	WG349895-07	Low Level Initial Calibration V		1		11/29/10 09:57
9	EL.112910.100353	WG349895-08	Interference Check		1		11/29/10 10:03
10	EL.112910.101040	WG349895-09	Interference Check		1		11/29/10 10:10
11	EL.112910.101726	WG349895-10	CCV		1		11/29/10 10:17
12	EL.112910.102411	WG349895-11	CCB		1		11/29/10 10:24
13	EL.112910.103210	L10110683-08	SR-SS-CON-EB01	40/100	1		11/29/10 10:32
14	EL.112910.103857	WG349668-03	Method/Prep Blank	40/100	1		11/29/10 10:38
15	EL.112910.104544	WG349668-04	Laboratory Control S	40/100	1		11/29/10 10:45
16	EL.112910.105232	WG349668-02	Reference Sample		2	L10110773-01	11/29/10 10:52
17	EL.112910.105920	WG349668-07	Duplicate	40/100	2	L10110773-01	11/29/10 10:59
18	EL.112910.110609	WG349668-08	Matrix Spike	40/100	2	L10110773-01	11/29/10 11:06
19	EL.112910.111256	L10110678-01	MW-11		1		11/29/10 11:12
20	EL.112910.111941	L10110678-02	MW-13	40/100	1		11/29/10 11:19
21	EL.112910.112627	WG349751-01	Post Digestion Spike		1	L10110678-02	11/29/10 11:26
22	EL.112910.113313	WG349751-02	Serial Dilution		5	L10110678-02	11/29/10 11:33
23	EL.112910.113959	WG349895-12	CCV		1		11/29/10 11:39
24	EL.112910.114644	WG349895-13	CCB		1		11/29/10 11:46
25	EL.112910.115328	WG349668-01	Reference Sample		1	L10110678-03	11/29/10 11:53
26	EL.112910.120015	WG349668-05	Matrix Spike	40/100	1	L10110678-03	11/29/10 12:00
27	EL.112910.120702	WG349668-06	Matrix Spike Duplica	40/100	1	L10110678-03	11/29/10 12:07
28	EL.112910.121350	L10110678-04	MW-15		1		11/29/10 12:13
29	EL.112910.122037	L10110678-06	MW-1	40/100	1		11/29/10 12:20
30	EL.112910.122726	L10110678-07	MW-2		1		11/29/10 12:27
31	EL.112910.123414	L10110678-08	MW-3		1		11/29/10 12:34
32	EL.112910.124103	L10110678-09	MW-6	40/100	1		11/29/10 12:41
33	EL.112910.124750	L10110678-10	MW-12	40/100	1		11/29/10 12:47
34	EL.112910.125436	L10110678-11	MW-16		1		11/29/10 12:54

Page: 1 Approved: December 01, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112910A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35557

Calibration Std: STD42618 ICV Std: STD42644 Post Spike: STD42704
ICSA: STD42725 ICSAB: STD42726 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 349751,349650,349857,349884,349858

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	EL.112910.130122	WG349895-14	CCV		1		11/29/10 13:01
36	EL.112910.130806	WG349895-15	CCB		1		11/29/10 13:08
37	EL.112910.131451	L10110774-01	MW-5	40/100	1		11/29/10 13:14
38	EL.112910.132137	L10110774-02	MW-7	40/100	1		11/29/10 13:21
39	EL.112910.132824	L10110774-03	MW-8	40/100	1		11/29/10 13:28
40	EL.112910.133511	L10110774-04	MW-9	40/100	1		11/29/10 13:35
41	EL.112910.134159	L10110774-05	MW-10	40/100	1		11/29/10 13:41
42	EL.112910.134844	WG349188-02	Method/Prep Blank	40/100	1		11/29/10 13:48
43	EL.112910.135528	WG349188-03	Laboratory Control S		1		11/29/10 13:55
44	EL.112910.140326	WG349188-03	Laboratory Control S	40/100	1		11/29/10 14:03
45	EL.112910.141011	WG349895-16	CCV		1		11/29/10 14:10
46	EL.112910.141655	WG349895-17	CCB		1		11/29/10 14:16
47	EL.112910.142554	L10110608-12	SWMU57GWMW3	40/100	1		11/29/10 14:25
48	EL.112910.143240	L10110608-14	SWMU57111610FB	40/100	1		11/29/10 14:32
49	EL.112910.143925	WG349188-01	Reference Sample		1	L10110608-02	11/29/10 14:39
50	EL.112910.144609	WG349188-04	Matrix Spike	40/100	1	L10110608-02	11/29/10 14:46
51	EL.112910.145253	WG349188-05	Matrix Spike Duplica	40/100	1	L10110608-02	11/29/10 14:52
52	EL.112910.145938	L10110608-08	SWMU57GW111610D1	40/100	1		11/29/10 14:59
53	EL.112910.150623	L10110608-10	SWMU57111610EB	40/100	1		11/29/10 15:06
54	EL.112910.151424	WG349857-01	Post Digestion Spike		1	L10110608-08	11/29/10 15:14
55	EL.112910.152154	WG349857-02	Serial Dilution		5	L10110608-08	11/29/10 15:21
56	EL.112910.152840	WG349895-18	CCV		1		11/29/10 15:28
57	EL.112910.153525	WG349895-19	CCB		1		11/29/10 15:35
58	EL.112910.154215	WG349827-02	Method/Prep Blank	40/100	1		11/29/10 15:42
59	EL.112910.154858	WG349827-03	Laboratory Control S	40/100	1		11/29/10 15:48
60	EL.112910.155542	L10110779-07	KSAAP-1709-WR03		1	WG349827-01	11/29/10 15:55
61	EL.112910.160226	WG349827-04	Matrix Spike	40/100	1	L10110779-07	11/29/10 16:02
62	EL.112910.160911	WG349827-05	Matrix Spike Duplica	40/100	1	L10110779-07	11/29/10 16:09
63	EL.112910.161556	L10110818-01	HEADER	40/100	5		11/29/10 16:15
64	EL.112910.162316	L10110818-02	HEADER	40/100	5		11/29/10 16:23
65	EL.112910.163002	WG349884-01	Post Digestion Spike		5	L10110818-02	11/29/10 16:30
66	EL.112910.163647	WG349884-02	Serial Dilution		25	L10110818-02	11/29/10 16:36
67	EL.112910.164333	WG349895-20	CCV		1		11/29/10 16:43
68	EL.112910.165018	WG349895-21	CCB		1		11/29/10 16:50

Page: 2 Approved: December 01, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112910A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35557

Calibration Std: STD42618 ICV Std: STD42644 Post Spike: STD42704
ICSA: STD42725 ICSAB: STD42726 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 349751,349650,349857,349884,349858

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	EL.112910.165702	L10110818-03	\#1	40/100	5		11/29/10 16:57
70	EL.112910.170349	L10110818-04	\#1	40/100	5		11/29/10 17:03
71	EL.112910.171036	L10110818-05	\#2	40/100	5		11/29/10 17:10
72	EL.112910.171721	L10110818-06	\#2	40/100	5		11/29/10 17:17
73	EL.112910.172405	L10110818-07	\#3	40/100	5		11/29/10 17:24
74	EL.112910.173049	L10110818-08	\#3	40/100	5		11/29/10 17:30
75	EL.112910.173733	L10110818-09	SAND FILTER	40/100	5		11/29/10 17:37
76	EL.112910.174418	L10110818-10	SAND FILTER	40/100	5		11/29/10 17:44
77	EL.112910.175103	WG349895-22	CCV		1		11/29/10 17:51
78	EL.112910.175748	WG349895-23	CCB		1		11/29/10 17:57
79	EL.112910.180432	L10110779-02	KSAAP-1712-WR03	40/100	1		11/29/10 18:04
80	EL.112910.181117	L10110779-03	KSAAP-1712-WR03	40/100	1		11/29/10 18:11
81	EL.112910.181803	L10110779-04	KSAAP-1711-WR03	40/100	1		11/29/10 18:18
82	EL.112910.182449	L10110779-05	KSAAP-1711-WR03	40/100	1		11/29/10 18:24
83	EL.112910.183136	L10110779-06	KSAAP-1709-WR03	40/100	1		11/29/10 18:31
84	EL.112910.183821	L10110678-07	MW-2	40/100	50		11/29/10 18:38
85	EL.112910.184504	L10110678-08	MW-3	40/100	50		11/29/10 18:45
86	EL.112910.185148	L10110678-11	MW-16	40/100	50		11/29/10 18:51
87	EL.112910.185832	WG349895-24	CCV		1		11/29/10 18:58
88	EL.112910.190517	WG349895-25	CCB		1		11/29/10 19:05
89	EL.112910.191202	WG349517-02	Reference Sample		5	L10110668-01	11/29/10 19:12
90	EL.112910.191849	WG349517-07	Matrix Spike	40/100	5	L10110668-01	11/29/10 19:18
91	EL.112910.192535	WG349517-08	Matrix Spike Duplica	40/100	5	L10110668-01	11/29/10 19:25
92	EL.112910.193219	L10110668-06	W23WT	40/100	2		11/29/10 19:32
93	EL.112910.193903	L10110668-07	W23WTEQR	40/100	1		11/29/10 19:39
94	EL.112910.194548	L10110668-09	W32WB	40/100	2		11/29/10 19:45
95	EL.112910.195234	L10110668-11	W32B	40/100	5		11/29/10 19:52
96	EL.112910.195919	L10110683-08	SR-SS-CON-EB01		1		11/29/10 19:59
97	EL.112910.200605	WG349895-26	CCV		1		11/29/10 20:06
98	EL.112910.201249	WG349895-27	CCB		1		11/29/10 20:12
99	EL.112910.201935	WG349895-28	Low Level Continuing Calibra		1		11/29/10 20:19
100	EL.112910.202622	WG349608-02	Method/Prep Blank		1		11/29/10 20:26
101	EL.112910.203309	WG349608-03	Laboratory Control S		1		11/29/10 20:33
102	EL.112910.203955	WG349608-01	Reference Sample		5	L10110665-19	11/29/10 20:39

Page: 3 Approved: December 01, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112910A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35557

Calibration Std: STD42618 ICV Std: STD42644 Post Spike: STD42704
ICSA: STD42725 ICSAB: STD42726 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 349751,349650,349857,349884,349858

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	EL.112910.204642	WG349608-04	Matrix Spike		5	L10110665-19	11/29/10 20:46
104	EL.112910.205329	WG349608-05	Matrix Spike Duplica		5	L10110665-19	11/29/10 20:53
105	EL.112910.210017	L10110665-26	MA0024-11-51-101115		5		11/29/10 21:00
106	EL.112910.210703	L10110665-27	MA0051-01-51-101111		5		11/29/10 21:07
107	EL.112910.211348	WG349908-01	Post Digestion Spike		5	L10110665-27	11/29/10 21:13
108	EL.112910.212032	WG349908-02	Serial Dilution		25	L10110665-27	11/29/10 21:20
109	EL.112910.212718	WG349895-29	CCV		1		11/29/10 21:27
110	EL.112910.213402	WG349895-30	CCB		1		11/29/10 21:34
111	EL.112910.214046	L10110665-28	MA0051-11-51-101111		5		11/29/10 21:40
112	EL.112910.214732	L10110665-29	PV0033-01-51-101108		5		11/29/10 21:47
113	EL.112910.215418	L10110665-30	PV0033-11-51-101108		5		11/29/10 21:54
114	EL.112910.220104	L10110665-31	BB0075-01-51-101108		5		11/29/10 22:01
115	EL.112910.220751	L10110665-32	BB0075-11-51-101108		5		11/29/10 22:07
116	EL.112910.221438	L10110665-33	SM9000-01-51-101113		5		11/29/10 22:14
117	EL.112910.222125	L10110665-34	SM9000-11-51-101113		5		11/29/10 22:21
118	EL.112910.222813	L10110665-35	LG0450-01-51-101111		5		11/29/10 22:28
119	EL.112910.223501	L10110665-36	LG0450-11-51-101111		5		11/29/10 22:35
120	EL.112910.224147	L10110665-37	PG8954-01-51-101105		5		11/29/10 22:41
121	EL.112910.224832	WG349895-31	CCV		1		11/29/10 22:48
122	EL.112910.225517	WG349895-32	CCB		1		11/29/10 22:55
123	EL.112910.230201	L10110665-38	PG8954-11-51-101105		5		11/29/10 23:02
124	EL.112910.230847	L10110665-39	PJ0271-01-51-101109		5		11/29/10 23:08
125	EL.112910.231532	L10110665-40	PJ0271-11-51-101109		5		11/29/10 23:15
126	EL.112910.232218	WG349895-33	CCV		1		11/29/10 23:22
127	EL.112910.232903	WG349895-34	CCB		1		11/29/10 23:29
128	EL.112910.233547	WG349473-02	Method/Prep Blank	.5/200	1		11/29/10 23:35
129	EL.112910.234234	WG349473-03	Laboratory Control S	.5/200	1		11/29/10 23:42
130	EL.112910.234921	L10110665-01	BV0070-01-51-101106	.513/200	5		11/29/10 23:49
131	EL.112910.235608	WG349473-01	Reference Sample		5	L10110665-02	11/29/10 23:56
132	EL.113010.000255	WG349473-04	Matrix Spike	.517/200	5	L10110665-02	11/30/10 00:02
133	EL.113010.000943	WG349473-05	Matrix Spike Duplica	.517/200	5	L10110665-02	11/30/10 00:09
134	EL.113010.001631	L10110665-05	BV0070-11-52-101106	.504/200	5		11/30/10 00:16
135	EL.113010.002320	WG349858-01	Post Digestion Spike		5	L10110665-05	11/30/10 00:23
136	EL.113010.003007	WG349858-02	Serial Dilution		25	L10110665-05	11/30/10 00:30

Page: 4 Approved: December 01, 2010

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 112910A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 35557

Calibration Std: STD42618 ICV Std: STD42644 Post Spike: STD42704
ICSA: STD42725 ICSAB: STD42726 Int. Std: STD42592
CCV: STD42373 LLCCV: STD42593

Workgroups: 349751,349650,349857,349884,349858

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
137	EL.113010.003652	WG349895-35	CCV		1		11/30/10 00:36
138	EL.113010.004337	WG349895-36	CCB		1		11/30/10 00:43
139	EL.113010.005021	L10110665-06	BV0114-01-51-101109	.515/200	5		11/30/10 00:50
140	EL.113010.005707	L10110665-07	BV0114-11-51-101109	.506/200	5		11/30/10 00:57
141	EL.113010.010353	L10110665-08	BV0146-01-51-101110	.514/200	5		11/30/10 01:03
142	EL.113010.011039	L10110665-09	BV0146-11-51-101110	.508/200	5		11/30/10 01:10
143	EL.113010.011726	L10110665-10	BV0146-11-52-101110	.51/200	5		11/30/10 01:17
144	EL.113010.012413	L10110665-11	BV0150-01-51-101110	.512/200	5		11/30/10 01:24
145	EL.113010.013101	L10110665-12	BV0150-11-51-101110	.519/200	5		11/30/10 01:31
146	EL.113010.013749	L10110665-13	BV0150-11-52-101110	.52/200	5		11/30/10 01:37
147	EL.113010.014437	L10110665-14	FA0076-01-51-101112	.521/200	5		11/30/10 01:44
148	EL.113010.015126	L10110665-15	FA0076-11-51-101112	.505/200	5		11/30/10 01:51
149	EL.113010.015813	WG349895-37	CCV		1		11/30/10 01:58
150	EL.113010.020457	WG349895-38	CCB		1		11/30/10 02:04
151	EL.113010.021143	L10110665-16	MA0005-01-51-101116	.507/200	5		11/30/10 02:11
152	EL.113010.021831	L10110665-17	MA0005-11-51-101116	.519/200	5		11/30/10 02:18
153	EL.113010.022516	L10110665-18	MA0021-01-51-101113	.509/200	5		11/30/10 02:25
154	EL.113010.023202	L10110665-22	MA0022-01-51-101112	.514/200	5		11/30/10 02:32
155	EL.113010.023849	L10110665-23	MA0022-11-51-101112	.518/200	5		11/30/10 02:38
156	EL.113010.024536	L10110665-24	MA0022-11-52-101112	.52/200	5		11/30/10 02:45
157	EL.113010.025223	L10110665-25	MA0024-01-51-101115	.534/200	5		11/30/10 02:52
158	EL.113010.025909	WG349895-39	CCV		1		11/30/10 02:59
159	EL.113010.030554	WG349895-40	CCB		1		11/30/10 03:05

  Approved: December 01, 2010

Maren Berry

Microbac Laboratories Inc.

Data Checklist

Date: 22-NOV-2010
Analyst: JYH
Analyst: NA
Method: 6020
Instrument: ELAN
Curve Workgroup: 349512
Runlog ID: 37681
Analytical Workgroups: 349359,349358,349360,349368,349146,349492

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	X
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	X
Client Forms	X
Level X	X
Level 3	629,667
Level 4	530,378,420,433,544,608,612,628,404
	650
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:

Secondary Reviewer:
24-NOV-2010

CHECKLIST1 - Modified 03/05/2008
Generated: NOV-24-2010 18:44:09

Microbac Laboratories Inc.

Data Checklist

Date: 23-NOV-2010
Analyst: JYH
Analyst: NA
Method: 6020
Instrument: ELAN
Curve Workgroup: 349700
Runlog ID: 37720
Analytical Workgroups: 349368,349361,349360,349609,349367

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	X
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	X
Client Forms	X
Level X	X
Level 3	X
Level 4	628,468,608,449
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:

Secondary Reviewer:
24-NOV-2010

CHECKLIST1 - Modified 03/05/2008
Generated: NOV-24-2010 16:28:09

Microbac Laboratories Inc.

Data Checklist

Date: 24-NOV-2010
Analyst: JYH
Analyst: NA
Method: 6020
Instrument: ELAN
Curve Workgroup: 349781
Runlog ID: 37738
Analytical Workgroups: 348660,349358,349360,349368,349649,349650,349755

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	X
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	X
Client Forms	X
Level X	X
Level 3	667
Level 4	176,421,608,628,683,633
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:

Secondary Reviewer:
29-NOV-2010

CHECKLIST1 - Modified 03/05/2008
Generated: NOV-29-2010 15:27:47

Microbac Laboratories Inc.

Data Checklist

Date: 29-NOV-2010
Analyst: JYH
Analyst: NA
Method: 6020
Instrument: ELAN
Curve Workgroup: 349895
Runlog ID: 37757
Analytical Workgroups: 349751,349650,349857,349884,349858

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	X
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	X
Client Forms	X
Level X	X
Level 3	
Level 4	608,683,779,818,665
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:

Secondary Reviewer:
01-DEC-2010

CHECKLIST1 - Modified 03/05/2008
Generated: DEC-01-2010 11:07:12

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6020 AAB#: WG349360

Login Number: L10110608

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SWMU57GWMW2	01	11/16/10					11/19/10	2.6	180		11/22/10	6.1	180	
SWMU57GWMW2	01	11/16/10					11/19/10	2.6	180		11/23/10	7.1	180	
SWMU57GW111610MS	03	11/16/10					11/19/10	2.6	180		11/22/10	6.1	180	
SWMU57GW111610MS	03	11/16/10					11/19/10	2.6	180		11/23/10	7.1	180	
SWMU57GW111610MSD	05	11/16/10					11/19/10	2.6	180		11/22/10	6.1	180	
SWMU57GW111610MSD	05	11/16/10					11/19/10	2.6	180		11/23/10	7.1	180	
SWMU57GW111610D1	07	11/16/10					11/19/10	2.6	180		11/22/10	6.1	180	
SWMU57111610EB	09	11/16/10					11/19/10	2.6	180		11/22/10	6.1	180	
SWMU57GWMW3	11	11/16/10					11/19/10	2.5	180		11/22/10	6	180	
SWMU57GWMW3	11	11/16/10					11/19/10	2.5	180		11/24/10	7.8	180	
SWMU57111610FB	13	11/16/10					11/19/10	2.4	180		11/22/10	5.9	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1847788
Report generated 11/30/2010 09:23

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6020 AAB#: WG349857

Login Number: L10110608

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SWMU57GWMW2	02	11/16/10					11/19/10	2.6	180		11/29/10	13	180	
SWMU57GW111610MS	04	11/16/10					11/19/10	2.6	180		11/29/10	13	180	
SWMU57GW111610MSD	06	11/16/10					11/19/10	2.6	180		11/29/10	13	180	
SWMU57GW111610D1	08	11/16/10					11/19/10	2.6	180		11/29/10	13	180	
SWMU57111610EB	10	11/16/10					11/19/10	2.6	180		11/29/10	13	180	
SWMU57GWMW3	12	11/16/10					11/19/10	2.5	180		11/29/10	12.8	180	
SWMU57111610FB	14	11/16/10					11/19/10	2.5	180		11/29/10	12.8	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1847788
Report generated 11/30/2010 09:23

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L10110608
Work Group: WG349360
Blank File ID: EL.112210.153820
Blank Sample ID: WG349181-02
Prep Date: 11/19/10 06:02
Instrument ID: ELAN-ICP
Analyzed Date: 11/22/10 15:38
Method: 6020
Analyst: JYH

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG349181-03	EL.112210.155150	11/22/10 15:51	01
SWMU57GWMW2	L10110608-01	EL.112210.165258	11/22/10 16:52	01
SWMU57GW111610MS	L10110608-03	EL.112210.165946	11/22/10 16:59	01
SWMU57GW111610MSD	L10110608-05	EL.112210.170633	11/22/10 17:06	01
SWMU57GW111610D1	L10110608-07	EL.112210.171320	11/22/10 17:13	01
SWMU57111610EB	L10110608-09	EL.112210.172005	11/22/10 17:20	01
SWMU57GWMW3	L10110608-11	EL.112210.172651	11/22/10 17:26	01
SWMU57111610FB	L10110608-13	EL.112210.173336	11/22/10 17:33	01
SWMU57GWMW2	L10110608-01	EL.112310.184139	11/23/10 18:41	DL01
SWMU57GW111610MS	L10110608-03	EL.112310.184826	11/23/10 18:48	DL01
SWMU57GW111610MSD	L10110608-05	EL.112310.185512	11/23/10 18:55	DL01
SWMU57GWMW3	L10110608-11	EL.112410.131343	11/24/10 13:13	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 1847789
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L10110608
Work Group: WG349857
Blank File ID: EL.112910.134844
Blank Sample ID: WG349188-02
Prep Date: 11/19/10 06:46
Instrument ID: ELAN-ICP
Analyzed Date: 11/29/10 13:48
Method: 6020
Analyst: JYH

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG349188-03	EL.112910.140326	11/29/10 14:03	01
SWMU57GWMW3	L10110608-12	EL.112910.142554	11/29/10 14:25	01
SWMU57111610FB	L10110608-14	EL.112910.143240	11/29/10 14:32	01
SWMU57GWMW2	L10110608-02	EL.112910.143925	11/29/10 14:39	01
SWMU57GW111610MS	L10110608-04	EL.112910.144609	11/29/10 14:46	01
SWMU57GW111610MSD	L10110608-06	EL.112910.145253	11/29/10 14:52	01
SWMU57GW111610D1	L10110608-08	EL.112910.145938	11/29/10 14:59	01
SWMU57111610EB	L10110608-10	EL.112910.150623	11/29/10 15:06	01

Report Name: BLANK_SUMMARY
PDF File ID: 1847789
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L10110608 Prep Date: 11/19/10 06:02 Sample ID: WG349181-02
Instrument ID: ELAN-ICP Run Date: 11/22/10 15:38 Prep Method: 3015
File ID: EL.112210.153820 Analyst: JYH Method: 6020
Workgroup (AAB#): WG349360 Matrix: Water Units: mg/L
Contract #: Cal ID: ELAN-I-22-NOV-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Antimony, Total	0.000500	0.00100	0.000500	1	U
Arsenic, Total	0.000500	0.00100	0.000500	1	U
Chromium, Total	0.00100	0.00200	0.00100	1	U
Manganese, Total	0.00100	0.00200	0.00100	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1847790
30-NOV-2010 09:24

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L10110608 Prep Date: 11/19/10 06:46 Sample ID: WG349188-02
Instrument ID: ELAN-ICP Run Date: 11/29/10 13:48 Prep Method: 3015
File ID: EL.112910.134844 Analyst: JYH Method: 6020
Workgroup (AAB#): WG349857 Matrix: Water Units: mg/L
Contract #: Cal ID: ELAN-I-29-NOV-10

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Antimony, Dissolved	0.000500	0.00100	0.000500	1	U
Arsenic, Dissolved	0.000500	0.00100	0.000500	1	U
Chromium, Dissolved	0.00100	0.00200	0.00100	1	U
Manganese, Dissolved	0.00100	0.00200	0.00100	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1847790
30-NOV-2010 09:24

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10110608 **Run Date:** 11/22/2010 **Sample ID:** WG349181-03
Instrument ID: ELAN-ICP **Run Time:** 15:51 **Prep Method:** 3015
File ID: EL.112210.155150 **Analyst:** JYH **Method:** 6020
Workgroup (AAB#): WG349360 **Matrix:** Water **Units:** mg/L
QC Key: DOD4 **Lot#:** STD41894 **Cal ID:** ELAN-I-22-NOV-10

Analytes	Expected	Found	% Rec	LCS Limits	Q
Antimony, Total	0.0625	0.0629	101	80 - 120	
Arsenic, Total	0.0625	0.0614	98.2	80 - 120	
Chromium, Total	0.0625	0.0680	109	80 - 120	
Manganese, Total	0.0625	0.0671	107	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1847791
Report generated: 11/30/2010 09:24

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10110608 Run Date: 11/29/2010 Sample ID: WG349188-03
Instrument ID: ELAN-ICP Run Time: 14:03 Prep Method: 3015
File ID: EL.112910.140326 Analyst: JYH Method: 6020
Workgroup (AAB#): WG349857 Matrix: Water Units: mg/L
QC Key: DOD4 Lot#: STD41894 Cal ID: ELAN-I-29-NOV-10

Analytes	Expected	Found	% Rec	LCS Limits	Q
Antimony, Dissolved	0.0625	0.0595	95.1	80 - 120	
Arsenic, Dissolved	0.0625	0.0607	97.2	80 - 120	
Chromium, Dissolved	0.0625	0.0663	106	80 - 120	
Manganese, Dissolved	0.0625	0.0683	109	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1847791
Report generated: 11/30/2010 09:24

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L10110608 Cal ID: ELAN-ICP- 22-NOV-10 Worknum: WG349360

Instrument ID: ELAN-ICP Contract #: Prep Method: 3015

Parent ID: L10110608-01 File ID: EL.112210.165258 Dil: 1 Method: 6020

Sample ID: L10110608-03 MS File ID: EL.112210.165946 Dil: 1 Matrix: Water

Sample ID: L10110608-05 MSD File ID: EL.112210.170633 Dil: 1 Units: mg/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Antimony, Total	0.00278	0.0625	0.0616	94	0.0625	0.0625	95.6	1.59	80 - 120	20	
Arsenic, Total	0.00267	0.0625	0.0607	92.9	0.0625	0.0619	94.7	1.86	80 - 120	20	
Chromium, Total	0.00417	0.0625	0.0718	108	0.0625	0.0702	106	2.38	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

PDF File ID: 1847792

Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L10110608 Cal ID: ELAN-ICP- 23-NOV-10 Worknum: WG349360

Instrument ID: ELAN-ICP Contract #: Prep Method: 3015

Parent ID: L10110608-01 File ID: EL.112310.184139 Dil: 50 Method: 6020

Sample ID: L10110608-03 MS File ID: EL.112310.184826 Dil: 50 Matrix: Water

Sample ID: L10110608-05 MSD File ID: EL.112310.185512 Dil: 50 Units: mg/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Manganese, Total	0.215	0.0625	0.274	95.1	0.0625	0.285	112	3.82	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

PDF File ID: 1847792

Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum:L10110608 Cal ID: ELAN-ICP- 29-NOV-10 Worknum:WG349857

Instrument ID:ELAN-ICP Contract #: Prep Method:3015

Parent ID:L10110608-02 File ID:EL.112910.143925 Dil:1 Method:6020

Sample ID:L10110608-04 MS File ID:EL.112910.144609 Dil:1 Matrix:Water

Sample ID:L10110608-06 MSD File ID:EL.112910.145253 Dil:1 Units:mg/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Antimony, Dissolved	0.00253	0.0625	0.0597	91.5	0.0625	0.0611	93.7	2.28	80 - 120	20	
Arsenic, Dissolved	0.00239	0.0625	0.0616	94.7	0.0625	0.0612	94.1	0.632	80 - 120	20	
Chromium, Dissolved	0.00232	0.0625	0.0706	109	0.0625	0.0706	109	0.0209	80 - 120	20	
Manganese, Dissolved	0.178	0.0625	0.209	49.6	0.0625	0.238	95.7	12.9	80 - 120	20	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

PDF File ID: 1847792

Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
Serial Dilution Report

Login: L10110608 **Worknum:** WG349360
Instrument: ELAN-ICP **Method:** 6020
Serial Dil: WG349360-02 **File ID:** EL.112210.163242 **Dil:** 5 **Units:** ug/L
Sample: L10110544-01 **File ID:** EL.112210.161909 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Antimony	ND	U	ND	U		
Arsenic	ND	U	ND	U		
Chromium	.646	F	ND	U		
Manganese	21.3	X	21.7	X	1.88	

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 100 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1847786
11/30/2010 09:24

Microbac Laboratories Inc.
Serial Dilution Report

Login: L10110608 **Worknum:** WG349857
Instrument: ELAN-ICP **Method:** 6020
Serial Dil: WG349857-02 **File ID:** EL.112910.152154 **Dil:** 5 **Units:** ug/L
Sample: L10110608-08 **File ID:** EL.112910.145938 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Antimony	1.05	X	1.415	F	34.80	
Arsenic	.951	X	1.07	F	12.50	
Chromium	.73	F	ND	U		
Manganese	68.3		68.5		0.29	

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 100 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1847786
11/30/2010 09:24

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L10110608 **Worknum:** WG349360
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG349360-01 **File ID:** EL.112210.162555 **Dil:** 1 **Units:** ug/L
Sample ID: L10110544-01 **File ID:** EL.112210.161909 **Dil:** 1 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ANTIMONY	51.2		0	U	50	102.5	75 - 125	
ARSENIC	48.6		0	U	50	97.2	75 - 125	
CHROMIUM	58.4		0.646	F	50	115.4	75 - 125	
MANGANESE	80.0		21.3		50	117.5	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1847787
Report generated: 11/30/2010 09:24

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L10110608 **Worknum:** WG349857
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG349857-01 **File ID:** EL.112910.151424 **Dil:** 1 **Units:** ug/L
Sample ID: L10110608-08 **File ID:** EL.112910.145938 **Dil:** 1 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ANTIMONY	44.9		1.05		50	87.7	75 - 125	
ARSENIC	44.7		0.951		50	87.5	75 - 125	
CHROMIUM	53.9		0.730	F	50	106.3	75 - 125	
MANGANESE	129		68.3		50	121.5	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1847787
Report generated: 11/30/2010 09:24

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L10110608**	Workgroup (AAB#):	**WG349360**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG349512**	Initial Calibration Date:	**22-NOV-2010 10:47**

	WG349512-01		WG349512-02		WG349512-03		WG349512-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ANTIMONY	0	18.2	.4	1070	50	136000	100	258000	.99991	
ARSENIC	0	-174	.4	135	50	36700	100	70100	.999929	
CHROMIUM	0	8870	.4	11800	50	363000	100	694000	.999991	
MANGANESE	0	286	.4	5100	50	573000	100	1110000	.999997	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L10110608**	Workgroup (AAB#):	**WG349360**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG349700**	Initial Calibration Date:	**23-NOV-2010 15:32**

	WG349700-01		WG349700-02		WG349700-03		WG349700-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ANTIMONY	0	50.1	.4	1040	50	130000	100	238000	.999744	
ARSENIC	0	-110	.4	170	50	33100	100	62200	.999978	
CHROMIUM	0	8830	.4	12000	50	388000	100	738000	.999982	
MANGANESE	0	304	.4	5400	50	617000	100	1170000	.999997	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L10110608**	Workgroup (AAB#):	**WG349360**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG349781**	Initial Calibration Date:	**24-NOV-2010 10:38**

	WG349781-01		WG349781-02		WG349781-03		WG349781-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ANTIMONY	0	60.8	.4	1300	50	163000	100	303000	.999761	
ARSENIC	0	-130	.4	166	50	47100	100	91800	.999979	
CHROMIUM	0	8880	.4	12400	50	447000	100	854000	.99995	
MANGANESE	0	295	.4	5990	50	676000	100	1300000	.999947	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 1847797
Report generated: 30-NOV-2010 09:24

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L10110608**	Workgroup (AAB#):	**WG349857**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG349895**	Initial Calibration Date:	**29-NOV-2010 09:36**

	WG349895-01		WG349895-02		WG349895-03		WG349895-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ANTIMONY	0	24.7	.4	1260	50	168000	100	320000	.999791	
ARSENIC	0	-206	.4	210	50	47500	100	90800	.999811	
CHROMIUM	0	9220	.4	12800	50	451000	100	872000	.999974	
MANGANESE	0	395	.4	6190	50	705000	100	1370000	.999942	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 1847797
Report generated: 30-NOV-2010 09:24

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349512-06
Instrument ID: ELAN-ICP Run Time: 11:01 Method: 6020
File ID: EL.112210.110117 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG349360 Cal ID: ELAN-ICP - 22-NOV-10
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ARSENIC	.2	.4	.2	U
CHROMIUM	.4	.8	.4	U
MANGANESE	.4	.8	.4	U
ANTIMONY	.2	.4	.2	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1847799
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L10110608 Run Date: 11/23/2010 Sample ID: WG349700-06
Instrument ID: ELAN-ICP Run Time: 15:46 Method: 6020
File ID: EL.112310.154603 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG349360 Cal ID: ELAN-ICP - 23-NOV-10
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ARSENIC	.2	.4	.2	U
CHROMIUM	.4	.8	.4	U
MANGANESE	.4	.8	.4	U
ANTIMONY	.2	.4	.2	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1847799
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L10110608 Run Date: 11/24/2010 Sample ID: WG349781-06
Instrument ID: ELAN-ICP Run Time: 10:51 Method: 6020
File ID: EL.112410.105151 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG349360 Cal ID: ELAN-ICP - 24-NOV-10
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ARSENIC	.2	.4	.2	U
CHROMIUM	.4	.8	.4	U
MANGANESE	.4	.8	.4	U
ANTIMONY	.2	.4	.2	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1847799
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L10110608 Run Date: 11/29/2010 Sample ID: WG349895-06
Instrument ID: ELAN-ICP Run Time: 09:50 Method: 6020
File ID: EL.112910.095020 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG349857 Cal ID: ELAN-ICP - 29-NOV-10
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ARSENIC	.2	.4	.2	U
CHROMIUM	.4	.8	.4	U
MANGANESE	.4	.8	.4	U
ANTIMONY	.2	.4	.2	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1847799
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349512-11

Instrument ID: ELAN-ICP Run Time: 11:35 Method: 6020

File ID: EL.112210.113508 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 22-NOV-10

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349512-17

Instrument ID: ELAN-ICP Run Time: 15:23 Method: 6020

File ID: EL.112210.152337 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 22-NOV-10

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349512-19

Instrument ID: ELAN-ICP Run Time: 16:46 Method: 6020

File ID: EL.112210.164613 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 22-NOV-10

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349512-21

Instrument ID: ELAN-ICP Run Time: 17:47 Method: 6020

File ID: EL.112210.174707 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 22-NOV-10

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L10110608 Run Date: 11/23/2010 Sample ID: WG349700-11

Instrument ID: ELAN-ICP Run Time: 16:19 Method: 6020

File ID: EL.112310.161954 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 23-NOV-10

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L10110608 Run Date: 11/23/2010 Sample ID: WG349700-15

Instrument ID: ELAN-ICP Run Time: 18:14 Method: 6020

File ID: EL.112310.181436 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 23-NOV-10

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L10110608 Run Date: 11/23/2010 Sample ID: WG349700-19

Instrument ID: ELAN-ICP Run Time: 19:22 Method: 6020

File ID: EL.112310.192215 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 23-NOV-10

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L10110608 Run Date: 11/24/2010 Sample ID: WG349781-11

Instrument ID: ELAN-ICP Run Time: 11:25 Method: 6020

File ID: EL.112410.112542 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 24-NOV-10

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L10110608 Run Date: 11/24/2010 Sample ID: WG349781-13

Instrument ID: ELAN-ICP Run Time: 12:33 Method: 6020

File ID: EL.112410.123310 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 24-NOV-10

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L10110608 Run Date: 11/24/2010 Sample ID: WG349781-17

Instrument ID: ELAN-ICP Run Time: 13:40 Method: 6020

File ID: EL.112410.134047 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 24-NOV-10

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L10110608 Run Date: 11/29/2010 Sample ID: WG349895-11

Instrument ID: ELAN-ICP Run Time: 10:24 Method: 6020

File ID: EL.112910.102411 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG349857 Cal ID: ELAN-I - 29-NOV-10

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L10110608 Run Date: 11/29/2010 Sample ID: WG349895-15

Instrument ID: ELAN-ICP Run Time: 13:08 Method: 6020

File ID: EL.112910.130806 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG349857 Cal ID: ELAN-I - 29-NOV-10

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L10110608 Run Date: 11/29/2010 Sample ID: WG349895-17

Instrument ID: ELAN-ICP Run Time: 14:16 Method: 6020

File ID: EL.112910.141655 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG349857 Cal ID: ELAN-I - 29-NOV-10

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L10110608	Run Date:	11/29/2010	Sample ID:	WG349895-19
Instrument ID:	ELAN-ICP	Run Time:	15:35	Method:	6020
File ID:	EL.112910.153525	Analyst:	JYH	Units:	ug/L
Workgroup (AAB#):	WG349857	Cal ID:	ELAN-I - 29-NOV-10		
Matrix:	WATER	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Arsenic	0.200	0.400	0.200	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1847802
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349512-05
Instrument ID: ELAN-ICP Run Time: 10:54 Method: 6020
File ID: EL.112210.105434 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 22-NOV-10
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Antimony		50	51.5	103	90 - 110	
Arsenic		50	50.0	100	90 - 110	
Chromium		50	50.6	101	90 - 110	
Manganese		50	50.3	101	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1847798
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L10110608 Run Date: 11/23/2010 Sample ID: WG349700-05
Instrument ID: ELAN-ICP Run Time: 15:39 Method: 6020
File ID: EL.112310.153920 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 23-NOV-10
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Antimony		50	50.7	101	90 - 110	
Arsenic		50	50.7	101	90 - 110	
Chromium		50	51.0	102	90 - 110	
Manganese		50	50.5	101	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1847798
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L10110608 Run Date: 11/24/2010 Sample ID: WG349781-05
Instrument ID: ELAN-ICP Run Time: 10:45 Method: 6020
File ID: EL.112410.104508 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 24-NOV-10
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Antimony		50	51.1	102	90 - 110	
Arsenic		50	49.5	98.9	90 - 110	
Chromium		50	49.2	98.4	90 - 110	
Manganese		50	50.1	100	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1847798
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L10110608 Run Date: 11/29/2010 Sample ID: WG349895-05
Instrument ID: ELAN-ICP Run Time: 09:43 Method: 6020
File ID: EL.112910.094337 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG349857 Cal ID: ELAN-I - 29-NOV-10
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Antimony		50	50.9	102	90 - 110	
Arsenic		50	50.2	100	90 - 110	
Chromium		50	49.9	99.8	90 - 110	
Manganese		50	49.9	99.9	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1847798
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349512-10
Instrument ID: ELAN-ICP Run Time: 11:28 Method: 6020
File ID: EL.112210.112824 Analyst: JYH QC Key: DOD4
Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 22-NOV-10
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	51.9	ug/L	104	90 - 110		
Arsenic		50.0	50.5	ug/L	101	90 - 110		
Chromium		50.0	49.2	ug/L	98.4	90 - 110		
Manganese		50.0	50.0	ug/L	100	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1847801
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349512-16
Instrument ID: ELAN-ICP Run Time: 15:16 Method: 6020
File ID: EL.112210.151653 Analyst: JYH QC Key: DOD4
Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 22-NOV-10
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	49.5	ug/L	99.0	90 - 110		
Arsenic		50.0	49.3	ug/L	98.5	90 - 110		
Chromium		50.0	51.5	ug/L	103	90 - 110		
Manganese		50.0	52.0	ug/L	104	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1847801
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349512-18

Instrument ID: ELAN-ICP Run Time: 16:39 Method: 6020

File ID: EL.112210.163928 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 22-NOV-10

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	49.6	ug/L	99.1	90 - 110		
Arsenic		50.0	48.3	ug/L	96.7	90 - 110		
Chromium		50.0	51.6	ug/L	103	90 - 110		
Manganese		50.0	51.8	ug/L	104	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1847801

Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/22/2010 Sample ID: WG349512-20
Instrument ID: ELAN-ICP Run Time: 17:40 Method: 6020
File ID: EL.112210.174022 Analyst: JYH QC Key: DOD4
Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 22-NOV-10
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	50.0	ug/L	100	90 - 110		
Arsenic		50.0	50.3	ug/L	101	90 - 110		
Chromium		50.0	53.1	ug/L	106	90 - 110		
Manganese		50.0	53.7	ug/L	107	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1847801
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/23/2010 Sample ID: WG349700-10
Instrument ID: ELAN-ICP Run Time: 16:13 Method: 6020
File ID: EL.112310.161310 Analyst: JYH QC Key: DOD4
Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 23-NOV-10
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	50.9	ug/L	102	90 - 110		
Arsenic		50.0	49.5	ug/L	99.1	90 - 110		
Chromium		50.0	48.6	ug/L	97.3	90 - 110		
Manganese		50.0	48.5	ug/L	97.0	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1847801
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/23/2010 Sample ID: WG349700-14
Instrument ID: ELAN-ICP Run Time: 18:07 Method: 6020
File ID: EL.112310.180752 Analyst: JYH QC Key: DOD4
Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 23-NOV-10
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	50.8	ug/L	102	90 - 110		
Arsenic		50.0	50.7	ug/L	101	90 - 110		
Chromium		50.0	50.7	ug/L	101	90 - 110		
Manganese		50.0	49.8	ug/L	99.5	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1847801
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/23/2010 Sample ID: WG349700-18

Instrument ID: ELAN-ICP Run Time: 19:15 Method: 6020

File ID: EL.112310.191530 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 23-NOV-10

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	50.7	ug/L	101	90 - 110		
Arsenic		50.0	49.5	ug/L	99.0	90 - 110		
Chromium		50.0	46.8	ug/L	93.6	90 - 110		
Manganese		50.0	46.3	ug/L	92.5	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1847801

Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/24/2010 Sample ID: WG349781-10
Instrument ID: ELAN-ICP Run Time: 11:18 Method: 6020
File ID: EL.112410.111858 Analyst: JYH QC Key: DOD4
Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 24-NOV-10
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	51.3	ug/L	103	90 - 110		
Arsenic		50.0	50.1	ug/L	100	90 - 110		
Chromium		50.0	50.0	ug/L	100	90 - 110		
Manganese		50.0	50.8	ug/L	102	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1847801
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/24/2010 Sample ID: WG349781-12
Instrument ID: ELAN-ICP Run Time: 12:26 Method: 6020
File ID: EL.112410.122625 Analyst: JYH QC Key: DOD4
Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 24-NOV-10
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	50.7	ug/L	101	90 - 110		
Arsenic		50.0	49.4	ug/L	98.9	90 - 110		
Chromium		50.0	51.0	ug/L	102	90 - 110		
Manganese		50.0	51.2	ug/L	102	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1847801
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/24/2010 Sample ID: WG349781-16

Instrument ID: ELAN-ICP Run Time: 13:34 Method: 6020

File ID: EL.112410.133403 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG349360 Cal ID: ELAN-I - 24-NOV-10

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	51.2	ug/L	102	90 - 110		
Arsenic		50.0	49.8	ug/L	99.6	90 - 110		
Chromium		50.0	49.9	ug/L	99.8	90 - 110		
Manganese		50.0	51.9	ug/L	104	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1847801

Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/29/2010 Sample ID: WG349895-10

Instrument ID: ELAN-ICP Run Time: 10:17 Method: 6020

File ID: EL.112910.101726 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG349857 Cal ID: ELAN-I - 29-NOV-10

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	51.3	ug/L	103	90 - 110		
Arsenic		50.0	50.4	ug/L	101	90 - 110		
Chromium		50.0	50.1	ug/L	100	90 - 110		
Manganese		50.0	49.6	ug/L	99.1	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1847801

Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/29/2010 Sample ID: WG349895-14

Instrument ID: ELAN-ICP Run Time: 13:01 Method: 6020

File ID: EL.112910.130122 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG349857 Cal ID: ELAN-I - 29-NOV-10

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	48.6	ug/L	97.1	90 - 110		
Arsenic		50.0	49.2	ug/L	98.4	90 - 110		
Chromium		50.0	51.7	ug/L	103	90 - 110		
Manganese		50.0	52.9	ug/L	106	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1847801

Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/29/2010 Sample ID: WG349895-16
Instrument ID: ELAN-ICP Run Time: 14:10 Method: 6020
File ID: EL.112910.141011 Analyst: JYH QC Key: DOD4
Workgroup (AAB#): WG349857 Cal ID: ELAN-I - 29-NOV-10
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	48.7	ug/L	97.3	90 - 110		
Arsenic		50.0	49.8	ug/L	99.5	90 - 110		
Chromium		50.0	53.2	ug/L	106	90 - 110		
Manganese		50.0	54.8	ug/L	110	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1847801
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L10110608 Run Date: 11/29/2010 Sample ID: WG349895-18

Instrument ID: ELAN-ICP Run Time: 15:28 Method: 6020

File ID: EL.112910.152840 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG349857 Cal ID: ELAN-I - 29-NOV-10

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	47.9	ug/L	95.8	90 - 110		
Arsenic		50.0	49.6	ug/L	99.2	90 - 110		
Chromium		50.0	52.0	ug/L	104	90 - 110		
Manganese		50.0	52.9	ug/L	106	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1847801

Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L10110608 **Workgroup (AAB#):** WG349360
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG349512-08 **File ID:** EL.112210.111451 **Units:** ug/L
Sol. AB : WG349512-09 **File ID:** EL.112210.112137 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Antimony	NS	0.0680	NS	100	101	101	
Arsenic	NS	0.0291	NS	100	97.8	97.8	
Chromium	NS	0.0131	NS	100	94.9	94.9	
Manganese	NS	0.197	NS	100	94.7	94.7	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1847800
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L10110608 **Workgroup (AAB#):** WG349360
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG349700-08 **File ID:** EL.112310.155936 **Units:** ug/L
Sol. AB : WG349700-09 **File ID:** EL.112310.160623 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Antimony	NS	0.0617	NS	100	102	102	
Arsenic	NS	0.0502	NS	100	96.9	96.9	
Chromium	NS	0.0185	NS	100	93.4	93.4	
Manganese	NS	0.222	NS	100	95.2	95.2	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1847800
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L10110608 **Workgroup (AAB#):** WG349360
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG349700-16 **File ID:** EL.112310.190157 **Units:** ug/L
Sol. AB : WG349700-17 **File ID:** EL.112310.190843 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Antimony	NS	0.0411	NS	100	101	101	
Arsenic	NS	-0.000800	NS	100	99.1	99.1	
Chromium	NS	-0.0219	NS	100	91.0	91.0	
Manganese	NS	0.213	NS	100	92.7	92.7	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1847800
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L10110608 **Workgroup (AAB#):** WG349360
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG349781-08 **File ID:** EL.112410.110525 **Units:** ug/L
Sol. AB : WG349781-09 **File ID:** EL.112410.111211 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Antimony	NS	0.0689	NS	100	103	103	
Arsenic	NS	0.142	NS	100	98.6	98.6	
Chromium	NS	0.104	NS	100	96.9	96.9	
Manganese	NS	0.226	NS	100	100	100	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L10110608 **Workgroup (AAB#):** WG349360
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG349781-14 **File ID:** EL.112410.132029 **Units:** ug/L
Sol. AB : WG349781-15 **File ID:** EL.112410.132716 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Antimony	NS	0.0509	NS	100	102	102	
Arsenic	NS	0.0844	NS	100	98.6	98.6	
Chromium	NS	0.0809	NS	100	99.0	99.0	
Manganese	NS	0.222	NS	100	103	103	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1847800
Report generated 11/30/2010 09:24

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L10110608 **Workgroup (AAB#):** WG349857
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG349895-08 **File ID:** EL.112910.100353 **Units:** ug/L
Sol. AB : WG349895-09 **File ID:** EL.112910.101040 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Antimony	NS	0.0888	NS	100	111	111	
Arsenic	NS	0.0182	NS	100	105	105	
Chromium	NS	0.0306	NS	100	106	106	
Manganese	NS	0.251	NS	100	108	108	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L10110608 **Analytical Method:** 6020
Analytical Workgroup: WG349360 **Matrix:** 1
Instrument: ELAN-ICP **Analyst:** JYH
ICAL Date: 22-NOV-2010 10:27

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L10110608-01	SAMP	22-NOV-2010 16:52	112.514	99.319	112.132	116.343
L10110608-03	SAMP	22-NOV-2010 16:59	111.599	98.673	110.774	113.707
L10110608-05	SAMP	22-NOV-2010 17:06	108.444	95.884	108.496	111.412
L10110608-07	SAMP	22-NOV-2010 17:13	109.07	95.341	105.778	110.324
L10110608-09	SAMP	22-NOV-2010 17:20	111.831	95.992	108.499	112.005
L10110608-11	SAMP	22-NOV-2010 17:26	55.252	78.356	69.986	83.217
L10110608-13	SAMP	22-NOV-2010 17:33	108.337	98.536	106.883	108.249
WG349144-01	FBLK	22-NOV-2010 15:45	113.469	102.601	108.511	110.75
WG349181-01	REF	22-NOV-2010 16:52	112.514	99.319	112.132	116.343
WG349181-02	BLANK	22-NOV-2010 15:38	114.496	101.252	108.5	111.589
WG349181-03	LCS	22-NOV-2010 15:51	113.463	102.139	109.182	110.879
WG349181-04	MS	22-NOV-2010 16:59	111.599	98.673	110.774	113.707
WG349181-05	MSD	22-NOV-2010 17:06	108.444	95.884	108.496	111.412
WG349181-06	REF	22-NOV-2010 15:58	106.329	99.376	106.862	110.861
WG349181-07	MS	22-NOV-2010 16:05	106.056	98.084	106.162	110.879
WG349181-08	MSD	22-NOV-2010 16:12	107.037	96.878	105.971	108.898
WG349360-01	PSPK	22-NOV-2010 16:25	103.584	95.195	104.983	109.714
WG349360-02	SERIAL	22-NOV-2010 16:32	112.534	96.836	107.192	112.262
WG349360-03	QCMRL	22-NOV-2010 15:31	114.545	101.577	109.466	111.073
WG349512-05	ICV	22-NOV-2010 10:54	98.275	91.69	94.437	97.696
WG349512-06	ICB	22-NOV-2010 11:01	101.32	92.933	96.66	99.351
WG349512-07	LLICV	22-NOV-2010 11:08	100.971	93.038	96.616	98.747
WG349512-08	ICS	22-NOV-2010 11:14	97.141	92.273	93.669	97.801
WG349512-09	ICS	22-NOV-2010 11:21	94.473	92.03	92.582	96.412
WG349512-10	CCV	22-NOV-2010 11:28	97.386	90.946	92.939	97.34
WG349512-11	CCB	22-NOV-2010 11:35	101.235	92.058	96.322	97.769
WG349512-16	CCV	22-NOV-2010 15:16	111.296	101.372	107.405	112.791
WG349512-17	CCB	22-NOV-2010 15:23	115.613	101.702	109.787	113.124
WG349512-18	CCV	22-NOV-2010 16:39	109.115	95.684	103.637	108.255
WG349512-19	CCB	22-NOV-2010 16:46	115.107	98.471	108.407	111.984
WG349512-20	CCV	22-NOV-2010 17:40	103.473	95.157	102.148	104.239
WG349512-21	CCB	22-NOV-2010 17:47	109.412	95.893	104.767	104.675
WG349512-36	LLCCV	23-NOV-2010 02:34	103.653	89.103	99.966	99.848

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1847796
Report generated: 11/30/2010 09:24

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L10110608 **Analytical Method:** 6020
Analytical Workgroup: WG349360 **Matrix:** 18
Instrument: ELAN-ICP **Analyst:** JYH
ICAL Date: 22-NOV-2010 10:27

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L10110544-01	SAMP	22-NOV-2010 16:19	106.54	98.311	107.265	112.133

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1847796
Report generated: 11/30/2010 09:24

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L10110608 **Analytical Method:** 6020
Analytical Workgroup: WG349360 **Matrix:** 1
Instrument: ELAN-ICP **Analyst:** JYH
ICAL Date: 23-NOV-2010 15:12

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L10110608-01	SAMP	23-NOV-2010 18:41	98.524	99.222	102.764	99.361
L10110608-03	SAMP	23-NOV-2010 18:48	97.836	99.728	102.296	99.609
L10110608-05	SAMP	23-NOV-2010 18:55	96.978	98.502	100.288	99.416
WG349181-01	REF	23-NOV-2010 18:41	98.524	99.222	102.764	99.361
WG349181-04	MS	23-NOV-2010 18:48	97.836	99.728	102.296	99.609
WG349181-05	MSD	23-NOV-2010 18:55	96.978	98.502	100.288	99.416
WG349700-05	ICV	23-NOV-2010 15:39	95.342	91.079	94.134	95.251
WG349700-06	ICB	23-NOV-2010 15:46	98.434	94.373	97.364	98.014
WG349700-07	LLICV	23-NOV-2010 15:52	99.836	94.452	96.82	96.734
WG349700-08	ICS	23-NOV-2010 15:59	97.342	95.094	94.595	96.874
WG349700-09	ICS	23-NOV-2010 16:06	97.922	96.862	94.891	97.119
WG349700-10	CCV	23-NOV-2010 16:13	99.067	96.331	96.616	98.032
WG349700-11	CCB	23-NOV-2010 16:19	103.135	98.299	99.536	100.168
WG349700-14	CCV	23-NOV-2010 18:07	95.359	93.183	96.03	97.026
WG349700-15	CCB	23-NOV-2010 18:14	100.062	97.243	100.477	100.333
WG349700-16	ICS	23-NOV-2010 19:01	100.002	102.919	101.621	101.427
WG349700-17	ICS	23-NOV-2010 19:08	99.687	104.687	101.802	101.299
WG349700-18	CCV	23-NOV-2010 19:15	100.385	105.041	103.571	102.351
WG349700-19	CCB	23-NOV-2010 19:22	104.018	107.713	106.918	105.613
WG349700-22	CCV	23-NOV-2010 21:50	98.277	102.311	101.846	100.689
WG349700-23	CCB	23-NOV-2010 21:57	101.663	103.64	105.755	102.792
WG349700-24	ICS	23-NOV-2010 22:51	99.405	105.742	104.62	102.628
WG349700-25	ICS	23-NOV-2010 22:58	100.352	108.345	104.624	102.064
WG349700-26	CCV	23-NOV-2010 23:05	101.578	109.461	106.919	104.725
WG349700-27	CCB	23-NOV-2010 23:12	104.386	110.494	107.308	106.078
WG349700-30	CCV	24-NOV-2010 01:41	98.186	105.979	105.43	102.984
WG349700-31	CCB	24-NOV-2010 01:47	101.57	105.608	105.501	103.055
WG349700-32	ICS	24-NOV-2010 02:41	99.768	106.224	104.455	102.092
WG349700-33	ICS	24-NOV-2010 02:48	99.02	107.724	103.237	100.893
WG349700-34	CCV	24-NOV-2010 02:55	100.591	107.483	104.62	102.524
WG349700-35	CCB	24-NOV-2010 03:02	101.737	108.087	106.833	102.944

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1847796
Report generated: 11/30/2010 09:24

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L10110608 **Analytical Method:** 6020
Analytical Workgroup: WG349360 **Matrix:** 1
Instrument: ELAN-ICP **Analyst:** JYH
ICAL Date: 24-NOV-2010 10:18

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L10110608-11	SAMP	24-NOV-2010 13:13	99.795	96.176	99.424	104.733
WG349781-05	ICV	24-NOV-2010 10:45	96.241	96.223	95.913	100.738
WG349781-06	ICB	24-NOV-2010 10:51	98.214	97.115	98.3	101.461
WG349781-07	LLICV	24-NOV-2010 10:58	98.168	96.665	99.143	100.081
WG349781-08	ICS	24-NOV-2010 11:05	90.165	92.211	92.649	97.593
WG349781-09	ICS	24-NOV-2010 11:12	88.812	93.496	92.812	97.359
WG349781-10	CCV	24-NOV-2010 11:18	94.539	93.812	95.704	101.278
WG349781-11	CCB	24-NOV-2010 11:25	95.875	94.389	97.795	100.079
WG349781-12	CCV	24-NOV-2010 12:26	95.703	93.259	95.598	100.219
WG349781-13	CCB	24-NOV-2010 12:33	99.121	95.456	97.043	100.328
WG349781-14	ICS	24-NOV-2010 13:20	94.751	92.623	96.361	102.659
WG349781-15	ICS	24-NOV-2010 13:27	90.894	92.209	94.351	101.381
WG349781-16	CCV	24-NOV-2010 13:34	93.504	91.151	93.773	100.103
WG349781-17	CCB	24-NOV-2010 13:40	96.559	93.384	97.019	100.474
WG349781-18	LLCCV	24-NOV-2010 13:47	96.476	94.043	96.146	98.763

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1847796
Report generated: 11/30/2010 09:24

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L10110608 **Analytical Method:** 6020
Analytical Workgroup: WG349857 **Matrix:** 1
Instrument: ELAN-ICP **Analyst:** JYH
ICAL Date: 29-NOV-2010 09:16

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L10110608-02	SAMP	29-NOV-2010 14:39	90.428	86.35	99.328	103.876
L10110608-04	SAMP	29-NOV-2010 14:46	90.263	85.989	99.062	103.541
L10110608-06	SAMP	29-NOV-2010 14:52	89.581	85.924	97.271	101.919
L10110608-08	SAMP	29-NOV-2010 14:59	89.905	86.025	99.352	101.909
L10110608-10	SAMP	29-NOV-2010 15:06	94.009	88.289	102.902	106.528
L10110608-12	SAMP	29-NOV-2010 14:25	92.813	88.817	101.687	104.865
L10110608-14	SAMP	29-NOV-2010 14:32	95.717	89.551	101.754	105.14
WG349188-01	REF	29-NOV-2010 14:39	90.428	86.35	99.328	103.876
WG349188-02	BLANK	29-NOV-2010 13:48	98.232	90.037	102.9	105.186
WG349188-03	LCS	29-NOV-2010 14:03	98.78	90.412	101.887	104.189
WG349188-04	MS	29-NOV-2010 14:46	90.263	85.989	99.062	103.541
WG349188-05	MSD	29-NOV-2010 14:52	89.581	85.924	97.271	101.919
WG349857-01	PSPK	29-NOV-2010 15:14	89.453	85.451	99.671	103.54
WG349857-02	SERIAL	29-NOV-2010 15:21	95.468	88.095	99.384	102.612
WG349895-05	ICV	29-NOV-2010 09:43	90.954	94.579	93.575	94.815
WG349895-06	ICB	29-NOV-2010 09:50	90.738	92.81	92.929	93.111
WG349895-07	LLICV	29-NOV-2010 09:57	90.477	93.433	91.781	93.204
WG349895-08	ICS	29-NOV-2010 10:03	83.874	89.054	88.618	90.508
WG349895-09	ICS	29-NOV-2010 10:10	82.189	88.318	86.54	90.369
WG349895-10	CCV	29-NOV-2010 10:17	87.444	89.413	90.151	93.57
WG349895-11	CCB	29-NOV-2010 10:24	90.085	89.666	91.966	93.286
WG349895-14	CCV	29-NOV-2010 13:01	98.316	93.348	102.073	107.803
WG349895-15	CCB	29-NOV-2010 13:08	100.179	92.767	101.603	105.574
WG349895-16	CCV	29-NOV-2010 14:10	97.25	91.194	99.62	102.84
WG349895-17	CCB	29-NOV-2010 14:16	99.903	90.876	101.58	104.815
WG349895-18	CCV	29-NOV-2010 15:28	93.662	88.553	97.163	100.162
WG349895-19	CCB	29-NOV-2010 15:35	96.18	88.775	96.717	101.28
WG349895-28	LLCCV	29-NOV-2010 20:19	102.685	95.44	102.295	103.911

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1847796
Report generated: 11/30/2010 09:24

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L10110608 **Date:** 09/07/2010
Insturment ID: ELAN-ICP **Method:** 6020

Analyte	Integration Time (Sec.)	Concentration (ug/L)
Antimony	1.00	100.0
Arsenic	1.00	100.0
Barium	1.00	100.0
Cadmium	1.00	100.0
Chromium	1.00	100.0
Cobalt	1.00	100.0
Copper	1.00	100.0
Lead	1.00	100.0
Manganese	1.00	100.0
Nickel	1.00	100.0
Selenium	1.00	100.0
Silver	1.00	100.0
Thallium	1.00	100.0
Uranium	1.00	100.0
Vanadium	1.00	100.0
Zinc	1.00	100.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1847794
Report generated: 11/30/2010 09:23

2.2.1.3 Raw Data

Instrument Tuning Report

File Name: 06302008.tun
File Path: C:\elandata\Tuning\06302008.tun

Sample Information

Sample Date/Time: Monday, November 22, 2010 09:46:51

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	628	2060	0.741	
Li	7.016	7.029	1591	2060	0.711	
Co	58.933	58.928	14282	1972	0.665	
Ce	139.905	139.929	34002	2015	0.712	
Tl	204.975	205.027	49701	2255	0.707	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	1.449
3.000	0.792
4.000	26.356
5.000	17.351
6.000	1.464
7.000	1.609
8.000	29.315
9.000	2.434
58.000	1.500
59.000	0.964
60.000	32.814
139.000	2.808
140.000	0.373
141.000	7.440
204.000	4.292
205.000	0.704
206.000	0.657

Report Date/Time: Monday, November 22, 2010 09:48:02
Page 1

Approved: November 23, 2010

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, November 22, 2010 09:54:37
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\Elandata\DataSet\112110\Sample.191
Tuning File: C:\elandata\Tuning\06302008.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual
Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	44937.7	44937.747	307.905	0.7
	Rh	102.9	167288.4	167288.435	1348.881	0.8
	In	114.9	399273.7	399273.744	3190.470	0.8
	Pb	208.0	150855.1	150855.058	604.257	0.4
	U	238.1	15.6	15.600	5.355	34.3
⌈>	Ba	137.9	209134.0	209134.013	889.036	0.4
⌊	Ba++	69.0	3005.1	0.014	0.000	1.5
⌈>	Ce	139.9	261003.1	261003.143	1516.934	0.6
⌊	CeO	155.9	6412.8	0.025	0.000	1.6
	Bkgd	220.0	5.6	5.600	2.162	38.6
	Ar2	79.9	4290712.0	4290712.023	34318.953	0.8

Current Optimization File Data

Current Value	Description
1.07	Nebulizer Gas Flow
6.70	Lens Voltage
1500.00	ICP RF Power
-1750.00	Analog Stage Voltage
950.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	6.5	3647.3
Co	59	33	7.3	105674.8
Rh	103	33	7.5	89715.6
Pb	208	33	9.0	115272.6

Sample ID: Sample
Report Date/Time: Monday, November 22, 2010 09:56:45
Page 1

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, November 22, 2010 10:20:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

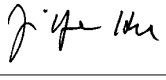
User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28791.431					ug/L
|	Be	9	5.333					ug/L
|	Al	27	2633.686					ug/L
|>	Sc	45	273342.459					ug/L
⌈	Ti	49	46.671					ug/L
|	V	51	2814.974					ug/L
|	Cr	52	8963.439					ug/L
|	Cr	53	270.031					ug/L
|	Mn	55	285.007					ug/L
|	Co	59	72.668					ug/L
|	Ni	60	22.334					ug/L
|	Cu	65	84.668					ug/L
|	Zn	66	228.005					ug/L
|>	Ge	72	377926.758					ug/L
|	As	75	-161.630					ug/L
|	Se	77	63.340					ug/L
|	Se	82	9.389					ug/L
⌊	Rb	85	13.000					mg/L
	Y	89	214575.646					ug/L
	Rh	103	8.667					ug/L
⌈	Mo	98	6.863					ug/L
|	Ag	107	12.667					ug/L
|	Cd	114	12.522					ug/L
|>	In	115	280233.569					ug/L
|	Sn	118	725.493					ug/L
⌊	Sb	123	24.870					ug/L
⌈	Ba	135	12.000					ug/L
|	Ce	140	23.336					ug/L
⌊>	Tb	159	351737.930					ug/L
⌈	Ho	165	3.334					ug/L
|	Tl	203	10.667					ug/L
|	Tl	205	16.668					ug/L
|	Pb	206	326.009					ug/L
|	Pb	207	252.339					ug/L
|	Pb	208	1243.043					ug/L
|	U	238	11.000					ug/L
⌊>	Bi	209	383045.076					ug/L

Sample ID: Blank
Report Date/Time: Monday, November 22, 2010 10:23:04
Page 1

Approved: November 23, 2010



Na	23	11063.890		mg/L
Mg	24	230.026		mg/L
K	39	433452.919		mg/L
Ca	43	136.681		mg/L
Fe	54	52226.351		mg/L
Fe	57	7700.401		mg/L
Sc-1	45	273342.459		mg/L
Cl	35	22177.902		mg/L
Kr	83	32.000		mg/L
Br	81	9637.310		mg/L
P	31	10524.233		mg/L
S	34	184742.492		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209					
Na	23					

Sample ID: Blank
Report Date/Time: Monday, November 22, 2010 10:23:04

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Monday, November 22, 2010 10:23:04
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, November 22, 2010 10:27:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	29393.136	0.00				ug/L
|	Be	9	3.333	-0.00				ug/L
|	Al	27	2600.341	0.00				ug/L
⌞>	Sc	45	267481.566	267481.57				ug/L
⌜	Ti	49	46.671	0.00				ug/L
|	V	51	2790.335	0.00				ug/L
|	Cr	52	8869.354	0.00				ug/L
|	Cr	53	310.036	0.00				ug/L
|	Mn	55	285.674	0.00				ug/L
|	Co	59	65.334	-0.00				ug/L
|	Ni	60	16.000	-0.00				ug/L
|	Cu	65	91.001	0.00				ug/L
|	Zn	66	240.672	0.00				ug/L
|>	Ge	72	364533.530	364533.53				ug/L
|	As	75	-173.796	-0.00				ug/L
|	Se	77	56.673	-0.00				ug/L
|	Se	82	3.722	-0.00				ug/L
⌞	Rb	85	10.333	-0.00				mg/L
	Y	89	214068.395	-507.25				ug/L
	Rh	103	5.667	-3.00				ug/L
⌜	Mo	98	8.415	0.00				ug/L
|	Ag	107	14.000	0.00				ug/L
|	Cd	114	8.497	-0.00				ug/L
|>	In	115	273369.014	273369.01				ug/L
|	Sn	118	618.552	-0.00				ug/L
⌞	Sb	123	18.245	-0.00				ug/L
⌜	Ba	135	11.667	-0.00				ug/L
|	Ce	140	13.335	-0.00				ug/L
⌞>	Tb	159	350115.652	350115.65				ug/L
⌜	Ho	165	3.334	-0.00				ug/L
|	Tl	203	9.667	-0.00				ug/L
|	Tl	205	13.335	-0.00				ug/L
|	Pb	206	286.007	-0.00				ug/L
|	Pb	207	249.339	-0.00				ug/L
|	Pb	208	1193.041	-0.00				ug/L
|	U	238	5.000	-0.00				ug/L
⌞>	Bi	209	389074.183	389074.18				ug/L

Sample ID: Standard 1
Report Date/Time: Monday, November 22, 2010 10:29:47
Page 1

Approved: November 23, 2010

⌈	Na	23	10616.697	-0.00		mg/L
|	Mg	24	176.686	-0.00		mg/L
|	K	39	429324.864	0.02		mg/L
|	Ca	43	126.680	-0.00		mg/L
|	Fe	54	50737.796	-0.00		mg/L
|	Fe	57	7823.846	0.00		mg/L
⌊>	Sc-1	45	267481.566	267481.57		mg/L
	Cl	35	21466.351	-711.55		mg/L
	Kr	83	32.000	-0.00		mg/L
	Br	81	9324.347	-312.96		mg/L
	P	31	11090.858	566.62		mg/L
	S	34	191128.709	6386.22		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 1
Report Date/Time: Monday, November 22, 2010 10:29:47

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Monday, November 22, 2010 10:29:47

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, November 22, 2010 10:34:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29794.331	0.00				ug/L
|	Be	9	122.667	0.00				ug/L
|	Al	27	5184.677	0.01				ug/L
⌊>	Sc	45	274431.924	274431.92				ug/L
⌈	Ti	49	463.390	0.00				ug/L
|	V	51	6213.624	0.01				ug/L
|	Cr	52	11768.038	0.01				ug/L
|	Cr	53	646.752	0.00				ug/L
|	Mn	55	5102.019	0.01				ug/L
|	Co	59	4047.193	0.01				ug/L
|	Ni	60	888.382	0.00				ug/L
|	Cu	65	937.720	0.00				ug/L
|	Zn	66	707.032	0.00				ug/L
|>	Ge	72	365220.191	365220.19				ug/L
|	As	75	135.484	0.00				ug/L
|	Se	77	100.011	0.00				ug/L
|	Se	82	36.734	0.00				ug/L
⌊	Rb	85	25.334	0.00				mg/L
	Y	89	212035.356	-2540.29				ug/L
	Rh	103	8.333	-0.33				ug/L
⌈	Mo	98	1332.408	0.00				ug/L
|	Ag	107	1411.447	0.01				ug/L
|	Cd	114	387.509	0.00				ug/L
|>	In	115	274460.653	274460.65				ug/L
|	Sn	118	1893.646	0.00				ug/L
⌊	Sb	123	1073.982	0.00				ug/L
⌈	Ba	135	554.688	0.00				ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	355461.541	355461.54				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	2322.293	0.01				ug/L
|	Tl	205	5522.079	0.01				ug/L
|	Pb	206	2300.288	0.01				ug/L
|	Pb	207	1981.216	0.00				ug/L
|	Pb	208	9323.492	0.02				ug/L
|	U	238	12153.503	0.03				ug/L
⌊>	Bi	209	392079.450	392079.45				ug/L

Sample ID: Standard 2
Report Date/Time: Monday, November 22, 2010 10:36:31
Page 1

Approved: November 23, 2010

⌈	Na	23	231532.701	0.80		mg/L
|	Mg	24	147525.274	0.54		mg/L
|	K	39	790884.996	1.30		mg/L
|	Ca	43	853.456	0.00		mg/L
|	Fe	54	73197.854	0.08		mg/L
|	Fe	57	18111.542	0.04		mg/L
⌊>	Sc-1	45	274431.924	274431.92		mg/L
	Cl	35	21493.078	-684.82		mg/L
	Kr	83	30.667	-1.33		mg/L
	Br	81	9629.969	-7.34		mg/L
	P	31	9561.274	-962.96		mg/L
	S	34	190074.346	5331.85		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 2
Report Date/Time: Monday, November 22, 2010 10:36:31
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Monday, November 22, 2010 10:36:31
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, November 22, 2010 10:41:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28373.539	0.00				ug/L
|	Be	9	14959.852	0.06	50.0000	2.276	4.553	ug/L
|	Al	27	280840.815	1.06	50.0000	2.078	4.157	ug/L
⌊>	Sc	45	263648.345	263648.35				ug/L
⌈	Ti	49	55914.911	0.16	100.0000	4.088	4.088	ug/L
|	V	51	424166.290	1.19	50.0000	1.378	2.756	ug/L
|	Cr	52	362971.071	1.00	50.0000	0.372	0.743	ug/L
|	Cr	53	42906.176	0.12	50.0000	1.762	3.524	ug/L
|	Mn	55	573081.684	1.62	50.0000	0.557	1.113	ug/L
|	Co	59	469300.075	1.32	50.0000	0.269	0.539	ug/L
|	Ni	60	100338.275	0.28	50.0000	1.107	2.214	ug/L
|	Cu	65	95674.806	0.27	50.0000	0.123	0.247	ug/L
|	Zn	66	54933.692	0.15	50.0000	0.741	1.482	ug/L
| >	Ge	72	354338.573	354338.57				ug/L
|	As	75	36717.956	0.10	50.0000	0.950	1.900	ug/L
|	Se	77	3057.440	0.01	50.0000	2.292	4.585	ug/L
|	Se	82	3562.025	0.01	50.0000	1.104	2.207	ug/L
⌊	Rb	85	1228.088	0.00				mg/L
	Y	89	205691.227	-8884.42				ug/L
	Rh	103	19.334	10.67				ug/L
⌈	Mo	98	160686.997	0.59	100.0000	1.002	1.002	ug/L
|	Ag	107	166865.606	0.62	50.0000	1.133	2.266	ug/L
|	Cd	114	42839.454	0.16	50.0000	0.639	1.279	ug/L
| >	In	115	270122.292	270122.29				ug/L
|	Sn	118	149756.376	0.55	50.0000	0.282	0.564	ug/L
⌊	Sb	123	136445.420	0.51	50.0000	0.713	1.425	ug/L
⌈	Ba	135	64782.845	0.18	50.0000	0.946	1.891	ug/L
|	Ce	140	93.343	0.00				ug/L
⌊>	Tb	159	351166.137	351166.14				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	275808.055	0.74	50.0000	0.924	1.849	ug/L
|	Tl	205	693575.666	1.86	50.0000	1.519	3.039	ug/L
|	Pb	206	236409.876	0.63	50.0000	0.521	1.042	ug/L
|	Pb	207	206502.453	0.55	50.0000	0.672	1.344	ug/L
|	Pb	208	961501.968	2.57	50.0000	0.580	1.160	ug/L
|	U	238	1460425.302	3.91	50.0000	0.468	0.935	ug/L
⌊>	Bi	209	373289.769	373289.77				ug/L

Sample ID: Standard 3
Report Date/Time: Monday, November 22, 2010 10:43:16
Page 1

Approved: November 23, 2010

Na	23	21837956.375	82.84	5.0000	0.227	4.530	mg/L
Mg	24	13431768.226	50.98	5.0000	0.238	4.767	mg/L
K	39	36309489.087	136.17	5.0000	0.091	1.829	mg/L
Ca	43	89188.181	0.34	5.0000	0.098	1.968	mg/L
Fe	54	2394333.975	8.89	5.0000	0.044	0.886	mg/L
Fe	57	1202728.902	4.53	5.0000	0.094	1.883	mg/L
Sc-1	45	263648.345	263648.35				mg/L
Cl	35	21585.272	-592.63				mg/L
Kr	83	37.334	5.33				mg/L
Br	81	8981.369	-655.94				mg/L
P	31	10003.007	-521.23				mg/L
S	34	190785.302	6042.81				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209					
Na	23					

Sample ID: Standard 3
Report Date/Time: Monday, November 22, 2010 10:43:16
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Monday, November 22, 2010 10:43:16
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Monday, November 22, 2010 10:47:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29175.899	0.01				ug/L
|	Be	9	29918.692	0.11	100.4072	1.193	1.188	ug/L
|	Al	27	522646.697	1.99	97.0851	3.868	3.984	ug/L
⌊>	Sc	45	261321.354	261321.35				ug/L
⌈	Ti	49	108931.087	0.31	199.8180	4.066	2.035	ug/L
|	V	51	818192.514	2.36	99.5785	1.043	1.048	ug/L
|	Cr	52	693985.122	1.98	99.5727	0.807	0.811	ug/L
|	Cr	53	81371.322	0.23	98.7335	2.690	2.725	ug/L
|	Mn	55	1112894.961	3.22	99.7754	0.876	0.878	ug/L
|	Co	59	908273.938	2.63	99.6012	0.976	0.980	ug/L
|	Ni	60	191847.838	0.55	98.9951	2.003	2.024	ug/L
|	Cu	65	182429.237	0.53	98.8859	0.950	0.961	ug/L
|	Zn	66	104970.522	0.30	99.0627	1.403	1.416	ug/L
|>	Ge	72	345716.185	345716.18				ug/L
|	As	75	70118.632	0.20	98.8140	1.723	1.744	ug/L
|	Se	77	5351.968	0.02	95.1305	2.832	2.977	ug/L
|	Se	82	6759.076	0.02	98.6541	1.917	1.943	ug/L
⌊	Rb	85	2313.958	0.01				mg/L
	Y	89	201136.839	-13438.81				ug/L
	Rh	103	30.334	21.67				ug/L
⌈	Mo	98	314556.070	1.20	200.7696	6.834	3.404	ug/L
|	Ag	107	322919.993	1.23	99.8082	2.214	2.218	ug/L
|	Cd	114	82855.851	0.32	99.7922	1.303	1.306	ug/L
|>	In	115	262441.071	262441.07				ug/L
|	Sn	118	295174.507	1.12	100.8313	2.100	2.083	ug/L
⌊	Sb	123	258170.822	0.98	98.6716	1.601	1.622	ug/L
⌈	Ba	135	128395.377	0.37	100.2680	1.616	1.612	ug/L
|	Ce	140	280.032	0.00				ug/L
⌊>	Tb	159	346206.224	346206.22				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	540545.385	1.47	99.8554	0.842	0.843	ug/L
|	Tl	205	1334962.791	3.64	98.9382	0.669	0.677	ug/L
|	Pb	206	452171.454	1.23	98.6762	1.194	1.210	ug/L
|	Pb	207	400618.973	1.09	99.3790	1.115	1.122	ug/L
|	Pb	208	1849936.060	5.04	98.9694	1.264	1.277	ug/L
|	U	238	2732892.943	7.45	97.5520	0.503	0.515	ug/L
⌊>	Bi	209	366845.994	366845.99				ug/L

Sample ID: Standard 4
Report Date/Time: Monday, November 22, 2010 10:50:01
Page 1

Approved: November 23, 2010

Na	23	43496957.897	166.47	10.0281	0.295	2.942	mg/L
Mg	24	25932111.602	99.25	9.8720	0.157	1.587	mg/L
K	39	70529044.554	268.36	9.9303	0.234	2.351	mg/L
Ca	43	174184.862	0.67	9.9296	0.378	3.808	mg/L
Fe	54	4593799.072	17.39	9.8908	0.175	1.772	mg/L
Fe	57	2035657.275	7.76	9.2282	0.302	3.276	mg/L
Sc-1	45	261321.354	261321.35				mg/L
Cl	35	20138.258	-2039.64				mg/L
Kr	83	34.334	2.33				mg/L
Br	81	8700.453	-936.86				mg/L
P	31	9270.303	-1253.93				mg/L
S	34	181778.610	-2963.88				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209					
Na	23					

Sample ID: Standard 4
Report Date/Time: Monday, November 22, 2010 10:50:01

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Corr. Coef.	Fe	57	Correlation Coefficient not > 0.998

Sample ID: Standard 4
Report Date/Time: Monday, November 22, 2010 10:50:01

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, November 22, 2010 10:54:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 11
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29777.610	0.01				ug/L
|	Be	9	15427.226	0.06	52.6724	0.754	1.431	ug/L
|	Al	27	269553.176	1.04	50.6723	1.618	3.193	ug/L
⌊>	Sc	45	256909.993	256909.99				ug/L
⌈	Ti	49	53042.317	0.15	97.0905	3.312	3.411	ug/L
|	V	51	411574.357	1.18	49.8243	1.394	2.798	ug/L
|	Cr	52	357527.306	1.01	50.5904	0.681	1.346	ug/L
|	Cr	53	41982.228	0.12	50.6709	2.605	5.141	ug/L
|	Mn	55	562174.314	1.62	50.2803	1.973	3.924	ug/L
|	Co	59	466841.060	1.35	51.0687	0.515	1.008	ug/L
|	Ni	60	97266.385	0.28	50.0606	0.622	1.243	ug/L
|	Cu	65	95156.243	0.27	51.4204	0.164	0.319	ug/L
|	Zn	66	54138.029	0.16	50.8606	0.226	0.445	ug/L
|>	Ge	72	346521.729	346521.73				ug/L
|	As	75	35475.757	0.10	49.9941	1.253	2.507	ug/L
|	Se	77	2897.377	0.01	50.7983	3.089	6.080	ug/L
|	Se	82	3531.712	0.01	51.3738	0.379	0.738	ug/L
⌊	Rb	85	1179.415	0.00				mg/L
	Y	89	203501.014	-11074.63				ug/L
	Rh	103	17.334	8.67				ug/L
⌈	Mo	98	159110.935	0.60	100.6719	1.543	1.533	ug/L
|	Ag	107	168444.148	0.64	51.6160	1.246	2.415	ug/L
|	Cd	114	42165.194	0.16	50.3321	0.101	0.201	ug/L
|>	In	115	264643.298	264643.30				ug/L
|	Sn	118	150411.321	0.57	50.8379	1.298	2.553	ug/L
⌊	Sb	123	135842.542	0.51	51.4851	0.402	0.781	ug/L
⌈	Ba	135	64740.552	0.19	50.9437	1.500	2.945	ug/L
|	Ce	140	116.679	0.00				ug/L
⌊>	Tb	159	343633.515	343633.51				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	281651.896	0.75	50.7029	0.679	1.339	ug/L
|	Tl	205	692245.540	1.84	50.0093	0.351	0.702	ug/L
|	Pb	206	234519.200	0.62	49.8387	0.808	1.621	ug/L
|	Pb	207	210113.793	0.56	50.7582	0.398	0.783	ug/L
|	Pb	208	961901.465	2.55	50.1138	0.551	1.100	ug/L
|	U	238	1494544.993	3.97	51.9876	0.851	1.637	ug/L
⌊>	Bi	209	376438.713	376438.71				ug/L

Sample ID: QC Std 1
Report Date/Time: Monday, November 22, 2010 10:56:44
Page 1

Approved: November 23, 2010

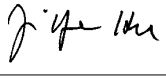
Na	23	21434966.439	83.42	5.0212	0.131	2.616	mg/L
Mg	24	12869483.527	50.09	4.9758	0.130	2.612	mg/L
K	39	35338274.891	136.01	5.0288	0.091	1.818	mg/L
Ca	43	87261.123	0.34	5.0559	0.099	1.954	mg/L
Fe	54	2369319.973	9.03	5.1364	0.081	1.576	mg/L
Fe	57	1187097.196	4.59	5.4582	0.087	1.594	mg/L
> Sc-1	45	256909.993	256909.99				mg/L
Cl	35	20404.798	-1773.10				mg/L
Kr	83	33.667	1.67				mg/L
Br	81	8614.376	-1022.93				mg/L
P	31	8925.998	-1598.24				mg/L
S	34	180788.736	-3953.76				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9	105.345				
Al	27	101.345				
> Sc	45					
Ti	49	97.090				
V	51	99.649				
Cr	52	101.181				
Cr	53					
Mn	55	100.561				
Co	59	102.137				
Ni	60	100.121				
Cu	65	102.841				
Zn	66	101.721				
> Ge	72		91.690			
As	75	99.988				
Se	77					
Se	82	102.748				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	103.232				
Cd	114	100.664				
> In	115		94.437			
Sn	118					
Sb	123	102.970				
Ba	135	101.887				
Ce	140					
> Tb	159		97.696			
Ho	165					
Tl	203	101.406				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.228				
U	238	103.975				
> Bi	209		98.275			
Na	23	100.423				

Sample ID: QC Std 1
Report Date/Time: Monday, November 22, 2010 10:56:44

Approved: November 23, 2010



	Mg	24	99.516
	K	39	100.576
	Ca	43	101.119
	Fe	54	102.728
	Fe	57	109.164
>	Sc-1	45	
	Cl	35	
	Kr	83	
	Br	81	
	P	31	
	S	34	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Monday, November 22, 2010 10:56:44

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, November 22, 2010 11:01:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28423.701	0.01				ug/L
|	Be	9	2.667	-0.00	0.0172	0.008	45.665	ug/L
|	Al	27	2567.004	0.00	-0.0314	0.070	224.072	ug/L
⌊>	Sc	45	254383.532	254383.53				ug/L
⌈	Ti	49	26.669	-0.00	0.0436	0.021	48.762	ug/L
|	V	51	2663.386	0.00	0.0020	0.009	446.812	ug/L
|	Cr	52	8383.930	0.00	-0.0195	0.009	48.064	ug/L
|	Cr	53	200.022	-0.00	-0.1060	0.042	40.038	ug/L
|	Mn	55	311.341	0.00	-0.0057	0.001	10.889	ug/L
|	Co	59	65.668	-0.00	-0.0131	0.001	7.663	ug/L
|	Ni	60	20.000	-0.00	-0.0240	0.002	7.076	ug/L
|	Cu	65	91.001	0.00	-0.0329	0.004	13.201	ug/L
|	Zn	66	275.673	0.00	0.0235	0.006	26.656	ug/L
|>	Ge	72	351219.162	351219.16				ug/L
|	As	75	-159.004	-0.00	-0.0013	0.080	6137.794	ug/L
|	Se	77	76.675	0.00	0.0568	0.580	1021.606	ug/L
|	Se	82	1.070	-0.00	-0.0940	0.134	142.229	ug/L
⌊	Rb	85	9.333	-0.00				mg/L
	Y	89	207437.817	-7137.83				ug/L
	Rh	103	3.333	-5.33				ug/L
⌈	Mo	98	105.079	0.00	0.0519	0.006	11.840	ug/L
|	Ag	107	14.000	0.00	-0.0130	0.001	3.968	ug/L
|	Cd	114	6.659	-0.00	-0.0387	0.003	6.555	ug/L
|>	In	115	270874.064	270874.06				ug/L
|	Sn	118	799.365	0.00	0.0453	0.003	6.834	ug/L
⌊	Sb	123	297.380	0.00	0.1177	0.004	3.401	ug/L
⌈	Ba	135	9.333	-0.00	-0.0147	0.003	20.497	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	349455.852	349455.85				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	32.334	0.00	0.0043	0.002	37.315	ug/L
|	Tl	205	63.340	0.00	0.0216	0.002	8.286	ug/L
|	Pb	206	324.009	-0.00	-0.0032	0.004	115.332	ug/L
|	Pb	207	266.006	0.00	0.0023	0.007	307.995	ug/L
|	Pb	208	1280.712	0.00	-0.0022	0.001	45.371	ug/L
|	U	238	74.001	0.00	-0.0035	0.000	10.520	ug/L
⌊>	Bi	209	388100.436	388100.44				ug/L

Sample ID: QC Std 2
Report Date/Time: Monday, November 22, 2010 11:03:27
Page 1

Approved: November 23, 2010

⌈	Na	23	11077.245	0.00	-0.0082	0.000	2.659	mg/L
|	Mg	24	273.365	0.00	-0.0134	0.000	0.231	mg/L
|	K	39	416818.224	0.06	-0.0060	0.003	48.354	mg/L
|	Ca	43	160.017	0.00	0.0031	0.001	39.437	mg/L
|	Fe	54	47970.862	-0.00	-0.0044	0.004	80.103	mg/L
|	Fe	57	7456.862	0.00	-0.0036	0.003	85.094	mg/L
⌊>	Sc-1	45	254383.532	254383.53				mg/L
	Cl	35	19839.673	-2338.23				mg/L
	Kr	83	30.334	-1.67				mg/L
	Br	81	8761.170	-876.14				mg/L
	P	31	9353.107	-1171.13				mg/L
	S	34	177269.977	-7472.51				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.933			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.660			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.351			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.320			
⌈	Na	23					

Sample ID: QC Std 2
Report Date/Time: Monday, November 22, 2010 11:03:27
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Monday, November 22, 2010 11:03:27
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, November 22, 2010 11:08:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29109.087	0.01				ug/L
|	Be	9	3.333	-0.00	0.0196	0.014	72.161	ug/L
|	Al	27	1183.405	-0.01	-0.2970	0.038	12.950	ug/L
⌊>	Sc	45	257014.237	257014.24				ug/L
⌈	Ti	49	43.338	-0.00	0.0735	0.028	37.686	ug/L
|	V	51	5945.044	0.01	0.3956	0.032	8.084	ug/L
|	Cr	52	13975.233	0.02	0.7776	0.035	4.484	ug/L
|	Cr	53	953.474	0.00	0.7958	0.107	13.387	ug/L
|	Mn	55	6111.597	0.02	0.5058	0.023	4.646	ug/L
|	Co	59	3892.130	0.01	0.3995	0.009	2.288	ug/L
|	Ni	60	3336.590	0.01	1.6593	0.044	2.660	ug/L
|	Cu	65	1673.490	0.00	0.8111	0.023	2.869	ug/L
|	Zn	66	7092.586	0.02	6.3639	0.186	2.928	ug/L
⌊>	Ge	72	351615.726	351615.73				ug/L
|	As	75	73.576	0.00	0.3208	0.019	5.883	ug/L
|	Se	77	100.011	0.00	0.4632	0.879	189.861	ug/L
|	Se	82	22.351	0.00	0.2117	0.145	68.656	ug/L
⌊	Rb	85	11.667	-0.00				mg/L
	Y	89	205993.836	-8581.81				ug/L
	Rh	103	4.333	-4.33				ug/L
⌈	Mo	98	44.156	0.00	0.0143	0.004	26.613	ug/L
|	Ag	107	1469.789	0.01	0.4231	0.008	1.908	ug/L
|	Cd	114	184.932	0.00	0.1698	0.059	34.606	ug/L
⌊>	In	115	270751.195	270751.20				ug/L
|	Sn	118	662.689	-0.00	0.0001	0.010	7670.617	ug/L
⌊	Sb	123	1151.407	0.00	0.4342	0.022	5.087	ug/L
⌈	Ba	135	998.393	0.00	0.7554	0.027	3.613	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	347331.809	347331.81				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	470.349	0.00	0.0810	0.003	3.280	ug/L
|	Tl	205	1250.204	0.00	0.1051	0.008	7.524	ug/L
|	Pb	206	2196.263	0.00	0.3849	0.007	1.733	ug/L
|	Pb	207	2021.891	0.00	0.4159	0.010	2.500	ug/L
|	Pb	208	9093.725	0.02	0.3947	0.009	2.236	ug/L
|	U	238	12392.131	0.03	0.4136	0.003	0.700	ug/L
⌊>	Bi	209	386766.158	386766.16				ug/L

Sample ID: QC Std 3
Report Date/Time: Monday, November 22, 2010 11:10:16
Page 1

Approved: November 23, 2010

⌈	Na	23	11631.258	0.00	-0.0081	0.000	0.640	mg/L
|	Mg	24	283.366	0.00	-0.0134	0.000	0.014	mg/L
|	K	39	412764.939	0.02	-0.0072	0.001	20.339	mg/L
|	Ca	43	166.685	0.00	0.0034	0.003	82.110	mg/L
|	Fe	54	45923.867	-0.01	-0.0100	0.003	32.933	mg/L
|	Fe	57	7303.397	0.00	-0.0047	0.001	13.250	mg/L
⌊>	Sc-1	45	257014.237	257014.24				mg/L
	Cl	35	19132.957	-3044.94				mg/L
	Kr	83	36.334	4.33				mg/L
	Br	81	8762.504	-874.81				mg/L
	P	31	9807.517	-716.72				mg/L
	S	34	174996.843	-9745.65				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	98.894				
|	Cr	52	97.203				
|	Cr	53					
|	Mn	55	101.154				
|	Co	59	99.885				
|	Ni	60	103.707				
|	Cu	65	101.381				
|	Zn	66	101.822				
|>	Ge	72		93.038			
|	As	75	80.206				
|	Se	77					
|	Se	82	52.921				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	105.784				
|	Cd	114	84.896				
|>	In	115		96.616			
|	Sn	118					
⌊	Sb	123	108.550				
⌈	Ba	135	100.723				
|	Ce	140					
⌊>	Tb	159		98.747			
⌈	Ho	165					
|	Tl	203	101.300				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	98.676				
|	U	238	103.395				
⌊>	Bi	209		100.971			
⌈	Na	23					

Sample ID: QC Std 3
Report Date/Time: Monday, November 22, 2010 11:10:16
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Se	82	LLICV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 3
Report Date/Time: Monday, November 22, 2010 11:10:16
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, November 22, 2010 11:14:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29326.325	0.01				ug/L
|	Be	9	2.667	-0.00	0.0174	0.011	61.457	ug/L
|	Al	27	17458275.398	70.03	3415.8612	283.822	8.309	ug/L
⌊>	Sc	45	249577.147	249577.15				ug/L
⌈	Ti	49	46556.105	0.13	84.6746	1.291	1.525	ug/L
|	V	51	2324.835	-0.00	-0.0366	0.019	52.050	ug/L
|	Cr	52	8548.071	0.00	0.0131	0.040	305.313	ug/L
|	Cr	53	1106.839	0.00	0.9913	0.092	9.288	ug/L
|	Mn	55	2585.027	0.01	0.1968	0.010	4.993	ug/L
|	Co	59	1688.493	0.00	0.1634	0.006	3.805	ug/L
|	Ni	60	1289.763	0.00	0.6261	0.029	4.592	ug/L
|	Cu	65	741.702	0.00	0.3174	0.006	1.813	ug/L
|	Zn	66	772.371	0.00	0.4915	0.042	8.618	ug/L
| >	Ge	72	348722.760	348722.76				ug/L
|	As	75	-135.686	0.00	0.0291	0.076	259.527	ug/L
|	Se	77	103.344	0.00	0.5462	0.612	112.028	ug/L
|	Se	82	1.052	-0.00	-0.0961	0.176	182.756	ug/L
⌊	Rb	85	1151.745	0.00				mg/L
	Y	89	190815.884	-23759.76				ug/L
	Rh	103	7.333	-1.33				ug/L
⌈	Mo	98	143728.835	0.55	91.6910	1.083	1.181	ug/L
|	Ag	107	51.001	0.00	-0.0014	0.003	213.944	ug/L
|	Cd	114	95.686	0.00	0.0687	0.013	18.223	ug/L
| >	In	115	262493.158	262493.16				ug/L
|	Sn	118	649.221	-0.00	0.0024	0.015	627.202	ug/L
⌊	Sb	123	158.166	0.00	0.0680	0.002	2.764	ug/L
⌈	Ba	135	46.667	0.00	0.0147	0.002	14.880	ug/L
|	Ce	140	160.017	0.00				ug/L
⌊>	Tb	159	344004.819	344004.82				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	31.334	0.00	0.0043	0.000	5.049	ug/L
|	Tl	205	76.675	0.00	0.0228	0.002	6.642	ug/L
|	Pb	206	372.011	0.00	0.0100	0.004	35.681	ug/L
|	Pb	207	316.675	0.00	0.0174	0.005	25.890	ug/L
|	Pb	208	1506.394	0.00	0.0125	0.004	30.446	ug/L
|	U	238	19.334	0.00	-0.0053	0.000	1.403	ug/L
⌊>	Bi	209	372092.205	372092.21				ug/L

Approved: November 23, 2010

⌈	Na	23	48406604.789	194.00	11.6879	0.404	3.453	mg/L
|	Mg	24	11539682.028	46.26	4.5943	0.180	3.922	mg/L
|	K	39	31047364.390	122.85	4.5416	0.113	2.498	mg/L
|	Ca	43	226766.492	0.91	13.5396	0.670	4.945	mg/L
|	Fe	54	5126687.654	20.36	11.5782	0.226	1.956	mg/L
|	Fe	57	2324177.786	9.29	11.0386	0.149	1.353	mg/L
⌊>	Sc-1	45	249577.147	249577.15				mg/L
	Cl	35	1428747.082	1406569.18				mg/L
	Kr	83	32.334	0.33				mg/L
	Br	81	8498.945	-1138.36				mg/L
	P	31	1316769.166	1306244.93				mg/L
	S	34	311781.933	127039.44				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.273			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.669			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.801			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.141			
⌈	Na	23					

Sample ID: QC Std 4
Report Date/Time: Monday, November 22, 2010 11:17:02

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Monday, November 22, 2010 11:17:02

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, November 22, 2010 11:21:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30396.347	0.02				ug/L
|	Be	9	30029.025	0.12	108.5083	2.861	2.637	ug/L
|	Al	27	24828866.896	102.28	4988.9552	172.880	3.465	ug/L
⌊>	Sc	45	242727.722	242727.72				ug/L
⌈	Ti	49	62225.904	0.18	113.4543	1.055	0.930	ug/L
|	V	51	771706.064	2.21	93.3354	0.166	0.178	ug/L
|	Cr	52	666116.798	1.89	94.9433	0.551	0.581	ug/L
|	Cr	53	79005.421	0.23	95.2747	0.294	0.309	ug/L
|	Mn	55	1062659.501	3.05	94.7001	0.776	0.819	ug/L
|	Co	59	869289.635	2.50	94.7615	1.434	1.513	ug/L
|	Ni	60	184781.155	0.53	94.7757	0.619	0.654	ug/L
|	Cu	65	179319.981	0.52	96.6242	1.488	1.540	ug/L
|	Zn	66	102907.541	0.30	96.5247	0.483	0.501	ug/L
|>	Ge	72	347805.096	347805.10				ug/L
|	As	75	69849.241	0.20	97.8442	0.288	0.294	ug/L
|	Se	77	5468.709	0.02	96.6498	2.220	2.297	ug/L
|	Se	82	6451.807	0.02	93.6004	0.342	0.366	ug/L
⌊	Rb	85	1551.803	0.00				mg/L
	Y	89	186450.968	-28124.68				ug/L
	Rh	103	34.000	25.33				ug/L
⌈	Mo	98	188790.891	0.73	121.8696	3.109	2.551	ug/L
|	Ag	107	279434.923	1.08	87.4069	8.240	9.427	ug/L
|	Cd	114	81104.734	0.31	98.8016	0.589	0.596	ug/L
|>	In	115	259444.930	259444.93				ug/L
|	Sn	118	1002.050	0.00	0.1272	0.013	9.966	ug/L
⌊	Sb	123	262208.942	1.01	101.3702	1.426	1.407	ug/L
⌈	Ba	135	122388.362	0.36	97.5821	2.174	2.228	ug/L
|	Ce	140	256.696	0.00				ug/L
⌊>	Tb	159	339118.490	339118.49				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	519491.152	1.44	97.2930	1.595	1.640	ug/L
|	Tl	205	1298089.489	3.59	97.5572	3.655	3.746	ug/L
|	Pb	206	442529.879	1.22	97.8992	1.221	1.247	ug/L
|	Pb	207	392442.317	1.08	98.6906	1.259	1.276	ug/L
|	Pb	208	1818282.414	5.02	98.6099	0.827	0.839	ug/L
|	U	238	2796948.816	7.73	101.2209	1.539	1.520	ug/L
⌊>	Bi	209	361875.145	361875.14				ug/L

Sample ID: QC Std 5
Report Date/Time: Monday, November 22, 2010 11:23:49
Page 1

Approved: November 23, 2010

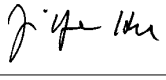
Na	23	66882668.844	275.59	16.6068	0.498	2.997	mg/L
Mg	24	15730389.102	64.81	6.4414	0.113	1.755	mg/L
K	39	41124126.014	167.88	6.2091	0.132	2.119	mg/L
Ca	43	301370.504	1.24	18.4950	0.349	1.888	mg/L
Fe	54	7034289.924	28.80	16.3824	0.596	3.638	mg/L
Fe	57	3000923.850	12.34	14.6662	0.252	1.719	mg/L
> Sc-1	45	242727.722	242727.72				mg/L
Cl	35	1905122.659	1882944.76				mg/L
Kr	83	42.001	10.00				mg/L
Br	81	8387.516	-1249.79				mg/L
P	31	1725838.272	1715314.04				mg/L
S	34	343215.468	158472.98				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	93.335				
Cr	52	94.943				
Cr	53					
Mn	55	94.700				
Co	59	94.762				
Ni	60	94.776				
Cu	65	96.624				
Zn	66	96.525				
> Ge	72		92.030			
As	75	97.844				
Se	77					
Se	82	93.600				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	87.407				
Cd	114	98.802				
> In	115		92.582			
Sn	118					
Sb	123	101.370				
Ba	135	97.582				
Ce	140					
> Tb	159		96.412			
Ho	165					
Tl	203	97.293				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.610				
U	238	101.221				
> Bi	209		94.473			
Na	23					

Sample ID: QC Std 5
Report Date/Time: Monday, November 22, 2010 11:23:49

Approved: November 23, 2010



Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Monday, November 22, 2010 11:23:49
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 22, 2010 11:28:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30262.602	0.02				ug/L
|	Be	9	15608.840	0.06	55.3376	1.159	2.094	ug/L
|	Al	27	269260.440	1.08	52.5731	0.785	1.493	ug/L
⌊>	Sc	45	247407.243	247407.24				ug/L
⌈	Ti	49	52023.573	0.15	95.9852	2.877	2.997	ug/L
|	V	51	400630.052	1.16	48.8808	0.266	0.544	ug/L
|	Cr	52	345057.596	0.98	49.1912	1.122	2.282	ug/L
|	Cr	53	40676.636	0.12	49.4741	0.988	1.998	ug/L
|	Mn	55	555062.250	1.61	50.0376	0.398	0.795	ug/L
|	Co	59	451985.719	1.31	49.8441	0.361	0.724	ug/L
|	Ni	60	97443.771	0.28	50.5582	0.023	0.045	ug/L
|	Cu	65	94123.509	0.27	51.2780	0.252	0.492	ug/L
|	Zn	66	53300.535	0.15	50.4809	0.200	0.396	ug/L
|>	Ge	72	343710.486	343710.49				ug/L
|	As	75	35557.273	0.10	50.5081	0.028	0.056	ug/L
|	Se	77	3214.176	0.01	56.9605	7.082	12.433	ug/L
|	Se	82	3464.395	0.01	50.8068	0.750	1.476	ug/L
⌊	Rb	85	1082.736	0.00				mg/L
	Y	89	194003.541	-20572.11				ug/L
	Rh	103	15.000	6.33				ug/L
⌈	Mo	98	154773.364	0.59	99.5159	1.683	1.691	ug/L
|	Ag	107	163260.978	0.63	50.8293	0.348	0.686	ug/L
|	Cd	114	42279.529	0.16	51.2860	0.646	1.260	ug/L
|>	In	115	260447.538	260447.54				ug/L
|	Sn	118	148120.001	0.57	50.8685	0.455	0.895	ug/L
⌊	Sb	123	134732.442	0.52	51.8898	0.724	1.396	ug/L
⌈	Ba	135	63469.098	0.19	50.1092	0.899	1.794	ug/L
|	Ce	140	123.346	0.00				ug/L
⌊>	Tb	159	342380.815	342380.81				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	276025.737	0.74	50.1413	0.136	0.272	ug/L
|	Tl	205	693434.655	1.86	50.5525	0.560	1.108	ug/L
|	Pb	206	236924.724	0.63	50.8083	0.695	1.367	ug/L
|	Pb	207	207019.029	0.55	50.4689	0.422	0.837	ug/L
|	Pb	208	959618.147	2.57	50.4519	0.762	1.509	ug/L
|	U	238	1512119.383	4.05	53.0791	1.091	2.055	ug/L
⌊>	Bi	209	373031.724	373031.72				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 11:30:35
Page 1

Approved: November 23, 2010

Na	23	21652171.184	87.48	5.2657	0.107	2.032	mg/L
Mg	24	13232708.038	53.49	5.3144	0.081	1.523	mg/L
K	39	35084698.488	140.28	5.1872	0.173	3.339	mg/L
Ca	43	85973.223	0.35	5.1726	0.124	2.395	mg/L
Fe	54	2313766.263	9.16	5.2109	0.152	2.921	mg/L
Fe	57	1174432.917	4.72	5.6114	0.392	6.982	mg/L
> Sc-1	45	247407.243	247407.24				mg/L
Cl	35	22139.818	-38.08				mg/L
Kr	83	28.667	-3.33				mg/L
Br	81	8428.887	-1208.42				mg/L
P	31	10163.164	-361.07				mg/L
S	34	177683.342	-7059.15				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	97.762				
Cr	52	98.382				
Cr	53					
Mn	55	100.075				
Co	59	99.688				
Ni	60	101.116				
Cu	65	102.556				
Zn	66	100.962				
> Ge	72		90.946			
As	75	101.016				
Se	77					
Se	82	101.614				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.659				
Cd	114	102.572				
> In	115		92.939			
Sn	118					
Sb	123	103.780				
Ba	135	100.218				
Ce	140					
> Tb	159		97.340			
Ho	165					
Tl	203	100.283				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.904				
U	238	106.158				
> Bi	209		97.386			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 11:30:35

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 11:30:35

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 22, 2010 11:35:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31165.155	0.02				ug/L
|	Be	9	2.667	-0.00	0.0173	0.004	22.325	ug/L
|	Al	27	2200.249	-0.00	-0.0975	0.091	93.790	ug/L
⌊>	Sc	45	253592.587	253592.59				ug/L
⌈	Ti	49	56.672	0.00	0.0987	0.022	21.896	ug/L
|	V	51	2549.458	-0.00	-0.0088	0.012	132.424	ug/L
|	Cr	52	8202.779	-0.00	-0.0342	0.031	90.160	ug/L
|	Cr	53	306.702	0.00	0.0254	0.039	154.898	ug/L
|	Mn	55	292.007	0.00	-0.0072	0.001	19.496	ug/L
|	Co	59	63.001	-0.00	-0.0133	0.001	10.579	ug/L
|	Ni	60	20.667	0.00	-0.0236	0.003	13.807	ug/L
|	Cu	65	86.001	0.00	-0.0352	0.007	20.206	ug/L
|	Zn	66	246.005	0.00	-0.0019	0.016	886.856	ug/L
|>	Ge	72	347910.591	347910.59				ug/L
|	As	75	-140.016	0.00	0.0231	0.071	306.432	ug/L
|	Se	77	80.008	0.00	0.1293	0.901	697.234	ug/L
|	Se	82	5.739	-0.00	-0.0273	0.217	794.859	ug/L
⌊	Rb	85	12.333	0.00				mg/L
	Y	89	203299.856	-11275.79				ug/L
	Rh	103	5.000	-3.67				ug/L
⌈	Mo	98	91.526	0.00	0.0437	0.007	15.312	ug/L
|	Ag	107	12.333	0.00	-0.0135	0.001	9.979	ug/L
|	Cd	114	4.924	-0.00	-0.0407	0.004	10.320	ug/L
|>	In	115	269926.855	269926.85				ug/L
|	Sn	118	741.894	0.00	0.0271	0.011	41.495	ug/L
⌊	Sb	123	312.961	0.00	0.1238	0.008	6.671	ug/L
⌈	Ba	135	8.333	-0.00	-0.0154	0.001	6.080	ug/L
|	Ce	140	6.667	-0.00				ug/L
⌊>	Tb	159	343891.671	343891.67				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	23.000	0.00	0.0026	0.001	28.508	ug/L
|	Tl	205	93.343	0.00	0.0237	0.002	9.378	ug/L
|	Pb	206	324.342	-0.00	-0.0030	0.001	41.487	ug/L
|	Pb	207	281.340	0.00	0.0060	0.001	18.914	ug/L
|	Pb	208	1298.380	0.00	-0.0013	0.002	129.609	ug/L
|	U	238	52.001	0.00	-0.0042	0.000	3.840	ug/L
⌊>	Bi	209	387773.969	387773.97				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 11:37:18
Page 1

Approved: November 23, 2010

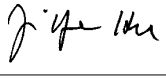
Na	23	12165.281	0.01	-0.0080	0.000	1.355	mg/L
Mg	24	220.025	0.00	-0.0135	0.000	0.158	mg/L
K	39	404592.188	0.01	-0.0076	0.001	17.293	mg/L
Ca	43	173.352	0.00	0.0040	0.004	94.142	mg/L
Fe	54	45668.150	-0.01	-0.0093	0.002	20.631	mg/L
Fe	57	7066.544	-0.00	-0.0054	0.003	52.293	mg/L
> Sc-1	45	253592.587	253592.59				mg/L
Cl	35	20430.850	-1747.05				mg/L
Kr	83	30.000	-2.00				mg/L
Br	81	8726.473	-910.84				mg/L
P	31	8924.052	-1600.18				mg/L
S	34	177807.442	-6935.05				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		92.058			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		96.322			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		97.769			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		101.235			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 11:37:18

Approved: November 23, 2010



Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 11:37:18

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011056905 WG349031-02

Sample Date/Time: Monday, November 22, 2010 11:41:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 50

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29393.167	0.01				ug/L
|	Be	9	4.000	-0.00	0.0215	0.006	28.373	ug/L
|	Al	27	3934.113	0.01	0.2230	0.091	40.835	ug/L
⌊>	Sc	45	258144.972	258144.97				ug/L
⌈	Ti	49	46.671	0.00	0.0774	0.027	34.567	ug/L
|	V	51	2713.656	0.00	-0.0006	0.015	2434.205	ug/L
|	Cr	52	8596.781	0.00	-0.0215	0.037	169.882	ug/L
|	Cr	53	240.027	-0.00	-0.0657	0.047	71.868	ug/L
|	Mn	55	46637.676	0.13	3.9752	0.114	2.864	ug/L
|	Co	59	149.003	0.00	-0.0045	0.000	10.553	ug/L
|	Ni	60	142.002	0.00	0.0361	0.004	11.115	ug/L
|	Cu	65	134.002	0.00	-0.0119	0.003	21.505	ug/L
|	Zn	66	1917.536	0.00	1.5051	0.017	1.155	ug/L
| >	Ge	72	360765.212	360765.21				ug/L
|	As	75	-71.589	0.00	0.1225	0.085	69.591	ug/L
|	Se	77	53.339	-0.00	-0.3861	0.096	24.904	ug/L
|	Se	82	5.731	-0.00	-0.0297	0.161	542.302	ug/L
⌊	Rb	85	68.001	0.00				mg/L
	Y	89	205476.726	-9098.92				ug/L
	Rh	103	5.667	-3.00				ug/L
⌈	Mo	98	59.266	0.00	0.0239	0.004	18.089	ug/L
|	Ag	107	15.000	0.00	-0.0127	0.001	10.545	ug/L
|	Cd	114	7.760	-0.00	-0.0374	0.004	11.804	ug/L
| >	In	115	268559.784	268559.78				ug/L
|	Sn	118	692.691	-0.00	0.0118	0.016	137.743	ug/L
⌊	Sb	123	132.832	0.00	0.0572	0.005	7.932	ug/L
⌈	Ba	135	6641.273	0.02	5.1919	0.227	4.374	ug/L
|	Ce	140	40.004	0.00				ug/L
⌊>	Tb	159	344494.162	344494.16				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	23.667	0.00	0.0028	0.002	56.807	ug/L
|	Tl	205	43.338	0.00	0.0202	0.001	3.966	ug/L
|	Pb	206	324.675	-0.00	-0.0029	0.003	86.539	ug/L
|	Pb	207	271.006	0.00	0.0036	0.003	78.666	ug/L
|	Pb	208	1310.714	0.00	-0.0006	0.001	109.315	ug/L
|	U	238	62.001	0.00	-0.0039	0.000	7.630	ug/L
⌊>	Bi	209	387519.385	387519.39				ug/L

Approved: November 23, 2010

⌈	Na	23	2131321.567	8.23	0.4875	0.017	3.422	mg/L
|	Mg	24	1487077.251	5.77	0.5611	0.028	4.937	mg/L
|	K	39	493079.522	0.33	0.0041	0.004	87.522	mg/L
|	Ca	43	21719.090	0.08	1.2494	0.083	6.677	mg/L
|	Fe	54	87011.718	0.15	0.0803	0.009	11.014	mg/L
|	Fe	57	24041.295	0.07	0.0723	0.005	6.682	mg/L
⌊>	Sc-1	45	258144.972	258144.97				mg/L
	Cl	35	35660.140	13482.24				mg/L
	Kr	83	31.000	-1.00				mg/L
	Br	81	9657.996	20.69				mg/L
	P	31	10641.007	116.77				mg/L
	S	34	185935.085	1192.59				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.459			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.834			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.941			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.168			
⌈	Na	23					

Sample ID: L1011056905 WG349031-02
Report Date/Time: Monday, November 22, 2010 11:44:01
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011056905 WG349031-02
Report Date/Time: Monday, November 22, 2010 11:44:01
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011056905S WG349031-07

Sample Date/Time: Monday, November 22, 2010 11:48:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 50

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29660.755	0.01				ug/L
|	Be	9	162.001	0.00	0.5459	0.042	7.778	ug/L
|	Al	27	6435.455	0.01	0.6668	0.228	34.234	ug/L
⌊>	Sc	45	264108.910	264108.91				ug/L
⌈	Ti	49	36.670	-0.00	0.0590	0.061	103.327	ug/L
|	V	51	7026.230	0.01	0.4973	0.007	1.505	ug/L
|	Cr	52	12470.563	0.01	0.5035	0.019	3.773	ug/L
|	Cr	53	610.080	0.00	0.3598	0.106	29.524	ug/L
|	Mn	55	53831.446	0.15	4.5555	0.106	2.327	ug/L
|	Co	59	4899.583	0.01	0.4907	0.011	2.323	ug/L
|	Ni	60	1168.413	0.00	0.5391	0.007	1.333	ug/L
|	Cu	65	1099.738	0.00	0.4856	0.025	5.238	ug/L
|	Zn	66	3844.118	0.01	3.2239	0.422	13.097	ug/L
|>	Ge	72	363704.010	363704.01				ug/L
|	As	75	271.569	0.00	0.5824	0.084	14.392	ug/L
|	Se	77	86.676	0.00	0.1766	0.488	276.620	ug/L
|	Se	82	40.044	0.00	0.4473	0.159	35.559	ug/L
⌊	Rb	85	68.001	0.00				mg/L
	Y	89	207318.125	-7257.52				ug/L
	Rh	103	6.333	-2.33				ug/L
⌈	Mo	98	43.010	0.00	0.0136	0.003	18.581	ug/L
|	Ag	107	1649.153	0.01	0.4778	0.026	5.518	ug/L
|	Cd	114	459.742	0.00	0.4914	0.028	5.723	ug/L
|>	In	115	270260.433	270260.43				ug/L
|	Sn	118	654.421	-0.00	-0.0023	0.002	67.849	ug/L
⌊	Sb	123	1554.050	0.01	0.5842	0.011	1.926	ug/L
⌈	Ba	135	7322.421	0.02	5.7256	0.167	2.921	ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	344600.724	344600.72				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	2843.433	0.01	0.4970	0.020	4.029	ug/L
|	Tl	205	7093.224	0.02	0.5159	0.003	0.598	ug/L
|	Pb	206	2701.392	0.01	0.4895	0.011	2.254	ug/L
|	Pb	207	2422.651	0.01	0.5104	0.017	3.384	ug/L
|	Pb	208	11149.585	0.03	0.4992	0.003	0.682	ug/L
|	U	238	15086.190	0.04	0.5049	0.004	0.705	ug/L
⌊>	Bi	209	386678.675	386678.68				ug/L

Sample ID: L1011056905S WG349031-07
Report Date/Time: Monday, November 22, 2010 11:50:45
Page 1

Approved: November 23, 2010

Na	23	2228845.985	8.40	0.4979	0.010	1.951	mg/L	
Mg	24	1551898.982	5.88	0.5717	0.007	1.138	mg/L	
K	39	489296.166	0.27	0.0019	0.001	36.952	mg/L	
Ca	43	22811.601	0.09	1.2805	0.006	0.446	mg/L	
Fe	54	91093.424	0.15	0.0845	0.003	3.942	mg/L	
Fe	57	24763.138	0.07	0.0730	0.005	6.423	mg/L	
> Sc-1	45	264108.910	264108.91				mg/L	
Cl	35	36361.326	14183.42				mg/L	
Kr	83	33.334	1.33				mg/L	
Br	81	10563.580	926.27				mg/L	
P	31	11406.517	882.28				mg/L	
S	34	189864.155	5121.66				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		96.237			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		96.441			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		97.971			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		100.949			
Na	23					

Sample ID: L1011056905S WG349031-07
Report Date/Time: Monday, November 22, 2010 11:50:45
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011056905S WG349031-07
Report Date/Time: Monday, November 22, 2010 11:50:45
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011056905SD WG349031-08

Sample Date/Time: Monday, November 22, 2010 11:55:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 50

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28941.828	0.00				ug/L
|	Be	9	161.335	0.00	0.5405	0.073	13.570	ug/L
|	Al	27	6568.832	0.02	0.6802	0.055	8.142	ug/L
⌊>	Sc	45	266352.846	266352.85				ug/L
⌈	Ti	49	23.336	-0.00	0.0360	0.027	73.942	ug/L
|	V	51	7203.178	0.01	0.5179	0.010	1.852	ug/L
|	Cr	52	12772.280	0.01	0.5454	0.040	7.290	ug/L
|	Cr	53	663.422	0.00	0.4221	0.094	22.269	ug/L
|	Mn	55	54041.168	0.15	4.5743	0.062	1.351	ug/L
|	Co	59	4973.954	0.01	0.4985	0.017	3.497	ug/L
|	Ni	60	1191.416	0.00	0.5505	0.013	2.378	ug/L
|	Cu	65	1080.069	0.00	0.4753	0.019	3.894	ug/L
|	Zn	66	1859.525	0.00	1.4390	0.019	1.314	ug/L
|>	Ge	72	363693.646	363693.65				ug/L
|	As	75	291.284	0.00	0.6086	0.083	13.601	ug/L
|	Se	77	86.676	0.00	0.1759	0.342	194.603	ug/L
|	Se	82	42.740	0.00	0.4835	0.137	28.298	ug/L
⌊	Rb	85	74.334	0.00				mg/L
	Y	89	207413.728	-7161.92				ug/L
	Rh	103	7.333	-1.33				ug/L
⌈	Mo	98	41.046	0.00	0.0121	0.005	39.224	ug/L
|	Ag	107	1648.486	0.01	0.4725	0.015	3.222	ug/L
|	Cd	114	496.096	0.00	0.5280	0.026	4.903	ug/L
|>	In	115	273085.071	273085.07				ug/L
|	Sn	118	651.755	-0.00	-0.0054	0.002	43.887	ug/L
⌊	Sb	123	1454.533	0.01	0.5418	0.021	3.905	ug/L
⌈	Ba	135	7290.396	0.02	5.6090	0.092	1.634	ug/L
|	Ce	140	26.669	0.00				ug/L
⌊>	Tb	159	350125.217	350125.22				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	2814.091	0.01	0.4902	0.005	1.120	ug/L
|	Tl	205	7003.152	0.02	0.5080	0.014	2.800	ug/L
|	Pb	206	2764.743	0.01	0.5009	0.008	1.640	ug/L
|	Pb	207	2440.989	0.01	0.5129	0.010	1.982	ug/L
|	Pb	208	11213.597	0.03	0.5007	0.007	1.428	ug/L
|	U	238	15335.236	0.04	0.5117	0.003	0.612	ug/L
⌊>	Bi	209	387899.410	387899.41				ug/L

Sample ID: L1011056905SD WG349031-08
Report Date/Time: Monday, November 22, 2010 11:57:29
Page 1

Approved: November 23, 2010

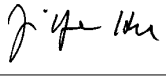
Na	23	2236295.322	8.36	0.4956	0.018	3.602	mg/L	
Mg	24	1565070.876	5.88	0.5722	0.027	4.638	mg/L	
K	39	496737.355	0.28	0.0024	0.002	71.623	mg/L	
Ca	43	22607.787	0.08	1.2591	0.040	3.175	mg/L	
Fe	54	90405.273	0.15	0.0814	0.005	6.153	mg/L	
Fe	57	25190.891	0.07	0.0741	0.007	8.821	mg/L	
> Sc-1	45	266352.846	266352.85				mg/L	
Cl	35	36489.801	14311.90				mg/L	
Kr	83	30.000	-2.00				mg/L	
Br	81	10236.572	599.26				mg/L	
P	31	11515.336	991.10				mg/L	
S	34	198558.939	13816.45				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		96.234			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		97.449			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		99.542			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		101.267			
Na	23					

Sample ID: L1011056905SD WG349031-08
Report Date/Time: Monday, November 22, 2010 11:57:29

Approved: November 23, 2010



| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011056905SD WG349031-08
Report Date/Time: Monday, November 22, 2010 11:57:29
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011052301S WG349031-05

Sample Date/Time: Monday, November 22, 2010 12:02:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	32536.260	0.01				ug/L
|	Be	9	3977.458	0.01	12.4970	0.393	3.143	ug/L
|	Al	27	337040.849	1.20	58.3189	0.652	1.117	ug/L
⌊>	Sc	45	279491.037	279491.04				ug/L
⌜	Ti	49	776.775	0.00	1.3224	0.154	11.647	ug/L
|	V	51	138297.255	0.37	15.4088	0.389	2.527	ug/L
|	Cr	52	114096.007	0.28	14.2140	0.145	1.017	ug/L
|	Cr	53	12342.179	0.03	13.6501	0.215	1.578	ug/L
|	Mn	55	202075.014	0.54	16.8440	0.104	0.620	ug/L
|	Co	59	129279.339	0.35	13.1868	0.320	2.428	ug/L
|	Ni	60	29487.710	0.08	14.1411	0.199	1.405	ug/L
|	Cu	65	27965.333	0.08	14.0477	0.270	1.924	ug/L
|	Zn	66	15613.339	0.04	13.5204	0.233	1.722	ug/L
|>	Ge	72	371248.264	371248.26				ug/L
|	As	75	15520.640	0.04	20.5442	0.303	1.474	ug/L
|	Se	77	723.432	0.00	10.8191	1.641	15.167	ug/L
|	Se	82	863.785	0.00	11.6456	0.564	4.846	ug/L
⌊	Rb	85	8002.614	0.02				mg/L
	Y	89	203156.654	-11418.99				ug/L
	Rh	103	47.667	39.00				ug/L
⌜	Mo	98	25484.296	0.09	15.2669	0.375	2.458	ug/L
|	Ag	107	42458.379	0.15	12.3146	0.401	3.259	ug/L
|	Cd	114	11018.180	0.04	12.4243	0.175	1.407	ug/L
|>	In	115	279424.880	279424.88				ug/L
|	Sn	118	716.826	-0.00	0.0106	0.006	60.030	ug/L
⌊	Sb	123	37045.736	0.13	13.3099	0.385	2.896	ug/L
⌜	Ba	135	49032.408	0.14	36.6802	0.711	1.937	ug/L
|	Ce	140	990.149	0.00				ug/L
⌊>	Tb	159	361313.746	361313.75				ug/L
⌜	Ho	165	40.004	0.00				ug/L
|	Tl	203	76536.548	0.20	13.4547	0.029	0.219	ug/L
|	Tl	205	189315.210	0.49	13.3681	0.360	2.694	ug/L
|	Pb	206	61844.940	0.16	12.7831	0.020	0.154	ug/L
|	Pb	207	55428.420	0.14	13.0334	0.111	0.848	ug/L
|	Pb	208	254357.064	0.66	12.8917	0.075	0.583	ug/L
|	U	238	402718.825	1.04	13.6761	0.082	0.598	ug/L
⌊>	Bi	209	385433.443	385433.44				ug/L

Sample ID: L1011052301S WG349031-05
Report Date/Time: Monday, November 22, 2010 12:04:13
Page 1

Approved: November 23, 2010

⌈	Na	23	46343842.740	166.02	10.0008	0.462	4.621	mg/L
|	Mg	24	7222674.992	25.88	2.5643	0.128	5.009	mg/L
|	K	39	8864530.722	30.15	1.1087	0.029	2.629	mg/L
|	Ca	43	222228.712	0.80	11.8491	0.326	2.752	mg/L
|	Fe	54	92889.236	0.14	0.0777	0.014	18.296	mg/L
|	Fe	57	22581.163	0.05	0.0578	0.010	16.881	mg/L
⌊>	Sc-1	45	279491.037	279491.04				mg/L
	Cl	35	233195.624	211017.72				mg/L
	Kr	83	30.334	-1.67				mg/L
	Br	81	25772.520	16135.21				mg/L
	P	31	17635.578	7111.34				mg/L
	S	34	520794.752	336052.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.233			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.711			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.722			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.624			
⌈	Na	23					

Sample ID: L1011052301S WG349031-05
Report Date/Time: Monday, November 22, 2010 12:04:13
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011052301S WG349031-05
Report Date/Time: Monday, November 22, 2010 12:04:13
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011053001

Sample Date/Time: Monday, November 22, 2010 12:08:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32084.977	0.02				ug/L
|	Be	9	8.000	0.00	0.0353	0.014	39.708	ug/L
|	Al	27	29242.737	0.10	4.9499	0.325	6.567	ug/L
⌊>	Sc	45	260946.194	260946.19				ug/L
⌈	Ti	49	1436.914	0.00	2.5594	0.034	1.325	ug/L
|	V	51	3333.788	0.00	0.0778	0.014	17.391	ug/L
|	Cr	52	10401.177	0.01	0.2514	0.019	7.560	ug/L
|	Cr	53	346.707	0.00	0.0648	0.017	26.588	ug/L
|	Mn	55	48246.959	0.13	4.1758	0.082	1.966	ug/L
|	Co	59	474.349	0.00	0.0304	0.004	11.664	ug/L
|	Ni	60	2016.557	0.01	0.9783	0.039	3.939	ug/L
|	Cu	65	800.373	0.00	0.3408	0.013	3.695	ug/L
|	Zn	66	2215.934	0.01	1.8059	0.027	1.490	ug/L
| >	Ge	72	355390.725	355390.72				ug/L
|	As	75	-27.949	0.00	0.1809	0.038	20.928	ug/L
|	Se	77	100.011	0.00	0.4470	1.097	245.476	ug/L
|	Se	82	70.036	0.00	0.8857	0.075	8.524	ug/L
⌊	Rb	85	674.363	0.00				mg/L
	Y	89	194740.687	-19834.96				ug/L
	Rh	103	83.335	74.67				ug/L
⌈	Mo	98	78.709	0.00	0.0369	0.001	2.606	ug/L
|	Ag	107	23.334	0.00	-0.0100	0.002	19.110	ug/L
|	Cd	114	12.125	0.00	-0.0320	0.010	31.068	ug/L
| >	In	115	264174.117	264174.12				ug/L
|	Sn	118	601.218	-0.00	-0.0154	0.003	17.247	ug/L
⌊	Sb	123	53.038	0.00	0.0277	0.002	7.962	ug/L
⌈	Ba	135	594.690	0.00	0.4511	0.021	4.611	ug/L
|	Ce	140	86.676	0.00				ug/L
⌊>	Tb	159	340122.920	340122.92				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	27.000	0.00	0.0036	0.001	17.034	ug/L
|	Tl	205	80.008	0.00	0.0232	0.003	11.400	ug/L
|	Pb	206	327.342	0.00	0.0019	0.004	217.362	ug/L
|	Pb	207	270.340	0.00	0.0074	0.002	25.517	ug/L
|	Pb	208	1307.714	0.00	0.0034	0.003	98.745	ug/L
|	U	238	98533.078	0.27	3.5333	0.079	2.228	ug/L
⌊>	Bi	209	364625.874	364625.87				ug/L

Sample ID: L1011053001
Report Date/Time: Monday, November 22, 2010 12:10:58
Page 1

Approved: November 23, 2010

⌈	Na	23	255598075.042	979.98	59.0746	1.655	2.802	mg/L
|	Mg	24	46012994.101	176.39	17.5549	0.433	2.467	mg/L
|	K	39	2676613.910	8.68	0.3133	0.011	3.589	mg/L
|	Ca	43	351999.784	1.35	20.1049	0.709	3.525	mg/L
|	Fe	54	58186.109	0.03	0.0152	0.003	22.769	mg/L
|	Fe	57	21906.188	0.06	0.0614	0.007	11.131	mg/L
⌊>	Sc-1	45	260946.194	260946.19				mg/L
	Cl	35	203529.789	181351.89				mg/L
	Kr	83	34.334	2.33				mg/L
	Br	81	40874.711	31237.40				mg/L
	P	31	11325.088	800.85				mg/L
	S	34	1721900.795	1537158.30				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.037			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.269			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.698			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.191			
⌈	Na	23					

Sample ID: L1011053001
Report Date/Time: Monday, November 22, 2010 12:10:58
Page 2

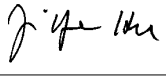
Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010



Method 6020 - Summary Report

Sample ID: L1011053002

Sample Date/Time: Monday, November 22, 2010 12:15:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 17
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34041.194	0.03				ug/L
|	Be	9	6.000	0.00	0.0286	0.007	25.468	ug/L
|	Al	27	19318.665	0.07	3.1205	0.244	7.816	ug/L
⌊>	Sc	45	258995.633	258995.63				ug/L
⌈	Ti	49	2270.486	0.01	4.1796	0.329	7.870	ug/L
|	V	51	3606.062	0.00	0.1243	0.005	3.791	ug/L
|	Cr	52	10620.410	0.01	0.3322	0.026	7.929	ug/L
|	Cr	53	516.732	0.00	0.2858	0.108	37.657	ug/L
|	Mn	55	740340.964	2.15	66.7000	0.620	0.930	ug/L
|	Co	59	939.054	0.00	0.0833	0.005	5.507	ug/L
|	Ni	60	2089.906	0.01	1.0505	0.076	7.258	ug/L
|	Cu	65	1146.077	0.00	0.5433	0.011	2.033	ug/L
|	Zn	66	2271.281	0.01	1.9262	0.028	1.446	ug/L
|>	Ge	72	343991.958	343991.96				ug/L
|	As	75	99.130	0.00	0.3596	0.086	23.919	ug/L
|	Se	77	116.679	0.00	0.8075	0.292	36.205	ug/L
|	Se	82	97.428	0.00	1.3213	0.214	16.195	ug/L
⌊	Rb	85	2632.040	0.01				mg/L
	Y	89	189895.069	-24680.58				ug/L
	Rh	103	102.002	93.33				ug/L
⌈	Mo	98	183.606	0.00	0.1078	0.003	3.109	ug/L
|	Ag	107	16.667	0.00	-0.0119	0.001	11.724	ug/L
|	Cd	114	10.090	-0.00	-0.0339	0.008	24.244	ug/L
|>	In	115	254497.966	254497.97				ug/L
|	Sn	118	667.489	0.00	0.0158	0.009	55.428	ug/L
⌊	Sb	123	76.663	0.00	0.0378	0.003	6.720	ug/L
⌈	Ba	135	745.035	0.00	0.5813	0.016	2.800	ug/L
|	Ce	140	436.720	0.00				ug/L
⌊>	Tb	159	334026.861	334026.86				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	35.334	0.00	0.0055	0.001	19.237	ug/L
|	Tl	205	86.676	0.00	0.0240	0.000	1.864	ug/L
|	Pb	206	307.674	0.00	0.0011	0.005	438.223	ug/L
|	Pb	207	292.341	0.00	0.0168	0.001	4.064	ug/L
|	Pb	208	1266.044	0.00	0.0048	0.002	45.839	ug/L
|	U	238	32266.295	0.09	1.2143	0.011	0.868	ug/L
⌊>	Bi	209	346252.988	346252.99				ug/L

Sample ID: L1011053002
Report Date/Time: Monday, November 22, 2010 12:17:42
Page 1

Approved: November 23, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	53482502.872	206.56	20.5597	0.485	2.360	mg/L
|	K	39	4416377.991	15.48	0.5651	0.024	4.245	mg/L
|	Ca	43	276528.805	1.07	15.9048	0.251	1.577	mg/L
|	Fe	54	56620.807	0.03	0.0126	0.002	16.769	mg/L
|	Fe	57	19384.076	0.05	0.0504	0.003	5.795	mg/L
⌊>	Sc-1	45	258995.633	258995.63				mg/L
	Cl	35	378349.893	356171.99				mg/L
	Kr	83	27.667	-4.33				mg/L
	Br	81	48141.607	38504.30				mg/L
	P	31	10554.239	30.01				mg/L
	S	34	2848624.407	2663881.92				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.021			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.816			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.965			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		90.395			
⌈	Na	23					

Sample ID: L1011053002
Report Date/Time: Monday, November 22, 2010 12:17:42
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011053002
Report Date/Time: Monday, November 22, 2010 12:17:42
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011053003

Sample Date/Time: Monday, November 22, 2010 12:22:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33188.342	0.02				ug/L
|	Be	9	6.667	0.00	0.0310	0.015	47.082	ug/L
|	Al	27	18383.567	0.06	2.9365	0.079	2.686	ug/L
⌊>	Sc	45	259287.402	259287.40				ug/L
⌈	Ti	49	2343.844	0.01	4.4596	0.446	10.004	ug/L
|	V	51	3475.113	0.00	0.1220	0.012	10.212	ug/L
|	Cr	52	10562.682	0.01	0.3736	0.007	1.836	ug/L
|	Cr	53	600.078	0.00	0.4127	0.073	17.655	ug/L
|	Mn	55	759989.124	2.28	70.6900	1.355	1.917	ug/L
|	Co	59	866.713	0.00	0.0785	0.002	2.510	ug/L
|	Ni	60	2070.902	0.01	1.0751	0.022	2.065	ug/L
|	Cu	65	1200.417	0.00	0.5941	0.010	1.666	ug/L
|	Zn	66	2242.941	0.01	1.9683	0.027	1.358	ug/L
|>	Ge	72	333188.766	333188.77				ug/L
|	As	75	159.781	0.00	0.4523	0.023	5.163	ug/L
|	Se	77	80.008	0.00	0.1938	0.823	424.905	ug/L
|	Se	82	115.388	0.00	1.6391	0.127	7.733	ug/L
⌊	Rb	85	2636.374	0.01				mg/L
	Y	89	185581.462	-28994.18				ug/L
	Rh	103	109.002	100.33				ug/L
⌈	Mo	98	196.013	0.00	0.1181	0.010	8.557	ug/L
|	Ag	107	11.333	-0.00	-0.0135	0.001	5.636	ug/L
|	Cd	114	8.038	-0.00	-0.0363	0.009	24.280	ug/L
|>	In	115	250596.229	250596.23				ug/L
|	Sn	118	665.089	0.00	0.0187	0.015	80.174	ug/L
⌊	Sb	123	70.579	0.00	0.0358	0.003	8.956	ug/L
⌈	Ba	135	767.370	0.00	0.6065	0.018	3.040	ug/L
|	Ce	140	443.388	0.00				ug/L
⌊>	Tb	159	330168.442	330168.44				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	30.667	0.00	0.0047	0.001	16.556	ug/L
|	Tl	205	56.672	0.00	0.0217	0.001	4.203	ug/L
|	Pb	206	326.342	0.00	0.0069	0.004	63.858	ug/L
|	Pb	207	299.341	0.00	0.0202	0.001	6.120	ug/L
|	Pb	208	1284.711	0.00	0.0073	0.001	17.845	ug/L
|	U	238	32897.029	0.10	1.2625	0.019	1.494	ug/L
⌊>	Bi	209	339602.635	339602.64				ug/L

Sample ID: L1011053003
Report Date/Time: Monday, November 22, 2010 12:24:28
Page 1

Approved: November 23, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	54241071.466	209.31	20.8332	0.702	3.369	mg/L
|	K	39	4463509.226	15.65	0.5714	0.043	7.565	mg/L
|	Ca	43	284587.563	1.10	16.3580	0.561	3.432	mg/L
|	Fe	54	55177.514	0.02	0.0094	0.004	45.925	mg/L
|	Fe	57	19006.653	0.05	0.0488	0.008	15.712	mg/L
⌊>	Sc-1	45	259287.402	259287.40				mg/L
	Cl	35	379296.156	357118.25				mg/L
	Kr	83	32.334	0.33				mg/L
	Br	81	53448.483	43811.17				mg/L
	P	31	10302.640	-221.59				mg/L
	S	34	2877795.563	2693053.07				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.162			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.424			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.868			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		88.659			
⌈	Na	23					

Sample ID: L1011053003
Report Date/Time: Monday, November 22, 2010 12:24:28
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011053003
Report Date/Time: Monday, November 22, 2010 12:24:28
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011053003

Sample Date/Time: Monday, November 22, 2010 12:31:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 50

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34125.039	0.01				ug/L
|	Be	9	2.000	-0.00	0.0142	0.006	42.810	ug/L
|	Al	27	16964.500	0.05	2.3616	0.317	13.439	ug/L
⌊>	Sc	45	286924.774	286924.77				ug/L
⌈	Ti	49	590.076	0.00	1.0036	0.060	5.986	ug/L
|	V	51	3269.685	0.00	0.0537	0.008	15.738	ug/L
|	Cr	52	10520.972	0.00	0.2052	0.035	16.831	ug/L
|	Cr	53	316.703	0.00	0.0134	0.024	176.511	ug/L
|	Mn	55	161644.834	0.43	13.4701	0.260	1.929	ug/L
|	Co	59	235.338	0.00	0.0039	0.001	30.838	ug/L
|	Ni	60	514.685	0.00	0.2133	0.014	6.671	ug/L
|	Cu	65	394.678	0.00	0.1179	0.007	5.894	ug/L
|	Zn	66	1595.810	0.00	1.1729	0.022	1.856	ug/L
|>	Ge	72	371165.056	371165.06				ug/L
|	As	75	-83.520	0.00	0.1096	0.044	39.794	ug/L
|	Se	77	70.007	0.00	-0.1322	0.335	253.203	ug/L
|	Se	82	35.748	0.00	0.3770	0.069	18.374	ug/L
⌊	Rb	85	597.357	0.00				mg/L
	Y	89	210255.061	-4320.58				ug/L
	Rh	103	31.667	23.00				ug/L
⌈	Mo	98	53.306	0.00	0.0181	0.003	15.386	ug/L
|	Ag	107	18.000	0.00	-0.0121	0.002	20.352	ug/L
|	Cd	114	9.429	-0.00	-0.0361	0.002	6.203	ug/L
|>	In	115	286585.245	286585.24				ug/L
|	Sn	118	621.086	-0.00	-0.0251	0.005	18.913	ug/L
⌊	Sb	123	36.788	0.00	0.0205	0.003	13.982	ug/L
⌈	Ba	135	168.003	0.00	0.1019	0.011	10.900	ug/L
|	Ce	140	120.013	0.00				ug/L
⌊>	Tb	159	366905.569	366905.57				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	13.000	0.00	0.0008	0.001	99.946	ug/L
|	Tl	205	23.336	0.00	0.0188	0.002	8.456	ug/L
|	Pb	206	339.009	0.00	-0.0019	0.004	200.263	ug/L
|	Pb	207	294.674	0.00	0.0073	0.006	87.647	ug/L
|	Pb	208	1344.382	0.00	-0.0008	0.002	234.362	ug/L
|	U	238	6990.513	0.02	0.2238	0.007	3.074	ug/L
⌊>	Bi	209	398382.375	398382.38				ug/L

Sample ID: L1011053003
Report Date/Time: Monday, November 22, 2010 12:33:23
Page 1

Approved: November 23, 2010

⌈	Na	23	116709983.919	406.72	24.5129	0.277	1.129	mg/L
|	Mg	24	11550466.858	40.26	3.9959	0.030	0.744	mg/L
|	K	39	1471602.218	3.54	0.1232	0.001	0.477	mg/L
|	Ca	43	57373.194	0.20	2.9728	0.040	1.349	mg/L
|	Fe	54	55621.200	0.00	-0.0015	0.002	120.398	mg/L
|	Fe	57	12943.003	0.02	0.0151	0.002	12.269	mg/L
⌊>	Sc-1	45	286924.774	286924.77				mg/L
	Cl	35	95252.863	73074.96				mg/L
	Kr	83	29.000	-3.00				mg/L
	Br	81	19258.527	9621.22				mg/L
	P	31	11514.632	990.40				mg/L
	S	34	974571.982	789829.49				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.211			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.267			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.312			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.004			
⌈	Na	23					

Sample ID: L1011053003
Report Date/Time: Monday, November 22, 2010 12:33:23
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 22, 2010 12:37:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32870.938	0.02				ug/L
|	Be	9	16516.301	0.06	53.3001	1.197	2.247	ug/L
|	Al	27	293346.231	1.07	52.1206	1.755	3.367	ug/L
|>	Sc	45	271813.819	271813.82				ug/L
⌈	Ti	49	55834.347	0.15	97.0541	2.099	2.162	ug/L
|	V	51	442653.234	1.21	50.8922	1.081	2.124	ug/L
|	Cr	52	385817.152	1.03	51.8938	2.055	3.960	ug/L
|	Cr	53	45042.386	0.12	51.6199	0.765	1.483	ug/L
|	Mn	55	605503.488	1.66	51.4160	0.561	1.092	ug/L
|	Co	59	509951.044	1.40	52.9803	1.189	2.244	ug/L
|	Ni	60	106734.586	0.29	52.1642	1.162	2.227	ug/L
|	Cu	65	101669.190	0.28	52.1882	1.999	3.829	ug/L
|	Zn	66	55904.505	0.15	49.8579	0.730	1.465	ug/L
|>	Ge	72	364969.782	364969.78				ug/L
|	As	75	36821.222	0.10	49.2710	0.508	1.030	ug/L
|	Se	77	3054.106	0.01	50.8670	3.361	6.608	ug/L
|	Se	82	3607.823	0.01	49.8290	0.162	0.326	ug/L
⌊	Rb	85	1221.087	0.00				mg/L
	Y	89	209367.185	-5208.46				ug/L
	Rh	103	20.667	12.00				ug/L
⌈	Mo	98	163854.326	0.57	96.0079	2.544	2.650	ug/L
|	Ag	107	179672.586	0.63	50.9823	1.019	1.999	ug/L
|	Cd	114	44519.270	0.16	49.2262	1.538	3.125	ug/L
|>	In	115	285703.723	285703.72				ug/L
|	Sn	118	160612.682	0.56	50.2738	0.707	1.407	ug/L
⌊	Sb	123	145110.897	0.51	50.9477	0.774	1.520	ug/L
⌈	Ba	135	67883.718	0.18	49.6084	0.395	0.797	ug/L
|	Ce	140	140.015	0.00				ug/L
|>	Tb	159	369837.472	369837.47				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	300887.264	0.75	50.8582	0.621	1.221	ug/L
|	Tl	205	737830.511	1.84	50.0335	1.606	3.210	ug/L
|	Pb	206	254221.571	0.63	50.7188	0.289	0.569	ug/L
|	Pb	207	224492.040	0.56	50.9260	0.792	1.554	ug/L
|	Pb	208	1035055.556	2.58	50.6250	0.219	0.433	ug/L
|	U	238	1616866.759	4.03	52.7840	0.514	0.974	ug/L
|>	Bi	209	400995.737	400995.74				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 12:40:09
Page 1

Approved: November 23, 2010

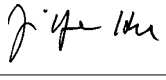
Na	23	23697174.355	87.14	5.2450	0.050	0.953	mg/L
Mg	24	14455173.789	53.19	5.2845	0.071	1.336	mg/L
K	39	38692775.800	140.79	5.2058	0.082	1.569	mg/L
Ca	43	92889.027	0.34	5.0849	0.018	0.361	mg/L
Fe	54	2554479.282	9.21	5.2379	0.141	2.692	mg/L
Fe	57	1295573.442	4.74	5.6335	0.239	4.237	mg/L
> Sc-1	45	271813.819	271813.82				mg/L
Cl	35	21315.362	-862.54				mg/L
Kr	83	23.667	-8.33				mg/L
Br	81	10243.244	605.93				mg/L
P	31	11224.979	700.75				mg/L
S	34	217349.473	32606.98				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	101.784				
Cr	52	103.788				
Cr	53					
Mn	55	102.832				
Co	59	105.961				
Ni	60	104.328				
Cu	65	104.376				
Zn	66	99.716				
> Ge	72		96.572			
As	75	98.542				
Se	77					
Se	82	99.658				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.965				
Cd	114	98.452				
> In	115		101.952			
Sn	118					
Sb	123	101.895				
Ba	135	99.217				
Ce	140					
> Tb	159		105.146			
Ho	165					
Tl	203	101.716				
Tl	205					
Pb	206					
Pb	207					
Pb	208	101.250				
U	238	105.568				
> Bi	209		104.686			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 12:40:09

Approved: November 23, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 12:40:09

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 22, 2010 12:44:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32904.114	0.01				ug/L
|	Be	9	4.000	-0.00	0.0206	0.011	52.309	ug/L
|	Al	27	3150.499	0.00	0.0276	0.049	177.869	ug/L
⌊>	Sc	45	279674.230	279674.23				ug/L
⌈	Ti	49	66.674	0.00	0.1079	0.063	58.226	ug/L
|	V	51	2698.949	-0.00	-0.0141	0.004	29.310	ug/L
|	Cr	52	8608.790	-0.00	-0.0643	0.009	13.323	ug/L
|	Cr	53	196.688	-0.00	-0.1247	0.030	23.925	ug/L
|	Mn	55	305.674	0.00	-0.0079	0.001	14.680	ug/L
|	Co	59	76.334	0.00	-0.0124	0.001	7.543	ug/L
|	Ni	60	23.334	0.00	-0.0231	0.002	8.412	ug/L
|	Cu	65	115.669	0.00	-0.0237	0.009	36.676	ug/L
|	Zn	66	261.673	0.00	-0.0047	0.020	415.720	ug/L
⌊>	Ge	72	374656.927	374656.93				ug/L
|	As	75	-156.800	0.00	0.0160	0.041	258.799	ug/L
|	Se	77	103.344	0.00	0.4124	0.422	102.253	ug/L
|	Se	82	8.383	-0.00	0.0033	0.121	3656.013	ug/L
⌊	Rb	85	11.333	-0.00				mg/L
	Y	89	214953.686	378.04				ug/L
	Rh	103	4.667	-4.00				ug/L
⌈	Mo	98	78.307	0.00	0.0310	0.005	17.341	ug/L
|	Ag	107	13.667	0.00	-0.0135	0.001	4.424	ug/L
|	Cd	114	8.744	-0.00	-0.0372	0.002	6.270	ug/L
⌊>	In	115	297965.389	297965.39				ug/L
|	Sn	118	762.029	-0.00	0.0100	0.003	25.717	ug/L
⌊	Sb	123	267.752	0.00	0.0978	0.007	7.260	ug/L
⌈	Ba	135	8.333	-0.00	-0.0160	0.002	10.662	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	380475.570	380475.57				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	17.334	0.00	0.0014	0.001	76.910	ug/L
|	Tl	205	23.336	0.00	0.0187	0.000	2.004	ug/L
|	Pb	206	341.009	-0.00	-0.0057	0.002	36.543	ug/L
|	Pb	207	321.342	0.00	0.0088	0.003	29.240	ug/L
|	Pb	208	1448.723	0.00	-0.0001	0.002	3165.783	ug/L
|	U	238	56.001	0.00	-0.0043	0.000	5.903	ug/L
⌊>	Bi	209	424645.577	424645.58				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 12:46:52
Page 1

Approved: November 23, 2010

⌈	Na	23	21839.348	0.04	-0.0062	0.000	2.414	mg/L
|	Mg	24	413.384	0.00	-0.0134	0.000	0.254	mg/L
|	K	39	421082.180	-0.08	-0.0110	0.001	13.122	mg/L
|	Ca	43	120.013	-0.00	0.0001	0.001	892.026	mg/L
|	Fe	54	51180.741	-0.01	-0.0076	0.003	34.147	mg/L
|	Fe	57	7910.586	0.00	-0.0049	0.001	15.106	mg/L
⌊>	Sc-1	45	279674.230	279674.23				mg/L
	Cl	35	20735.492	-1442.41				mg/L
	Kr	83	32.667	0.67				mg/L
	Br	81	10488.835	851.53				mg/L
	P	31	10630.993	106.76				mg/L
	S	34	211871.431	27128.94				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.135			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.328			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.170			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.860			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 12:46:52
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 12:46:52

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: PBW 35 WG348583-02

Sample Date/Time: Monday, November 22, 2010 12:51:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 22
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34576.349	0.02				ug/L
|	Be	9	4.000	-0.00	0.0209	0.007	31.520	ug/L
|	Al	27	2516.987	-0.00	-0.0781	0.050	64.624	ug/L
⌊>	Sc	45	276402.846	276402.85				ug/L
⌈	Ti	49	46.671	0.00	0.0746	0.036	48.043	ug/L
|	V	51	2786.581	-0.00	-0.0040	0.008	187.807	ug/L
|	Cr	52	8865.017	-0.00	-0.0291	0.041	141.387	ug/L
|	Cr	53	216.691	-0.00	-0.1022	0.018	17.547	ug/L
|	Mn	55	379.344	0.00	-0.0018	0.001	62.826	ug/L
|	Co	59	71.668	-0.00	-0.0129	0.001	5.393	ug/L
|	Ni	60	56.667	0.00	-0.0072	0.002	32.863	ug/L
|	Cu	65	116.669	0.00	-0.0231	0.004	16.416	ug/L
|	Zn	66	1186.082	0.00	0.8024	0.018	2.226	ug/L
|>	Ge	72	374504.234	374504.23				ug/L
|	As	75	-145.670	0.00	0.0298	0.067	225.542	ug/L
|	Se	77	113.345	0.00	0.5820	0.833	143.083	ug/L
|	Se	82	10.452	0.00	0.0315	0.076	239.526	ug/L
⌊	Rb	85	19.334	0.00				mg/L
	Y	89	219222.106	4646.46				ug/L
	Rh	103	7.667	-1.00				ug/L
⌈	Mo	98	29.530	0.00	0.0038	0.000	8.734	ug/L
|	Ag	107	15.000	0.00	-0.0131	0.002	12.078	ug/L
|	Cd	114	9.998	-0.00	-0.0357	0.003	8.431	ug/L
|>	In	115	293488.104	293488.10				ug/L
|	Sn	118	638.154	-0.00	-0.0244	0.010	41.935	ug/L
⌊	Sb	123	98.705	0.00	0.0413	0.003	6.216	ug/L
⌈	Ba	135	18.334	0.00	-0.0087	0.004	48.320	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	374997.864	374997.86				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	15.000	0.00	0.0010	0.001	68.198	ug/L
|	Tl	205	20.002	0.00	0.0185	0.001	3.476	ug/L
|	Pb	206	339.676	-0.00	-0.0059	0.006	100.693	ug/L
|	Pb	207	291.007	0.00	0.0024	0.005	216.518	ug/L
|	Pb	208	1404.387	0.00	-0.0020	0.002	111.494	ug/L
|	U	238	21.334	0.00	-0.0053	0.000	1.676	ug/L
⌊>	Bi	209	423875.570	423875.57				ug/L

Sample ID: PBW 35 WG348583-02
Report Date/Time: Monday, November 22, 2010 12:53:38
Page 1

Approved: November 23, 2010

⌈	Na	23	27276.553	0.06	-0.0049	0.000	0.901	mg/L
|	Mg	24	1233.533	0.00	-0.0131	0.000	0.166	mg/L
|	K	39	431996.235	-0.02	-0.0088	0.002	20.575	mg/L
|	Ca	43	156.684	0.00	0.0022	0.003	144.157	mg/L
|	Fe	54	52510.596	-0.00	-0.0036	0.004	121.824	mg/L
|	Fe	57	8364.334	0.00	-0.0025	0.002	65.410	mg/L
⌊>	Sc-1	45	276402.846	276402.85				mg/L
	Cl	35	20839.699	-1338.20				mg/L
	Kr	83	24.667	-7.33				mg/L
	Br	81	10063.731	426.42				mg/L
	P	31	10821.855	297.62				mg/L
	S	34	208813.069	24070.58				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.094			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.730			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.613			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.659			
⌈	Na	23					

Sample ID: PBW 35 WG348583-02
Report Date/Time: Monday, November 22, 2010 12:53:38
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 35 WG348583-02
Report Date/Time: Monday, November 22, 2010 12:53:38
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: LCSW 35 WG348583-03

Sample Date/Time: Monday, November 22, 2010 12:58:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 23
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34158.274	0.02				ug/L
|	Be	9	8450.903	0.03	26.7203	0.178	0.667	ug/L
|	Al	27	145061.506	0.51	24.9890	0.677	2.711	ug/L
⌊>	Sc	45	277394.919	277394.92				ug/L
⌈	Ti	49	70.007	0.00	0.1155	0.016	14.241	ug/L
|	V	51	222668.159	0.60	25.1319	0.444	1.766	ug/L
|	Cr	52	196870.372	0.51	25.5466	0.249	0.973	ug/L
|	Cr	53	22931.888	0.06	25.7926	0.302	1.172	ug/L
|	Mn	55	311107.242	0.84	26.0850	0.319	1.223	ug/L
|	Co	59	254889.606	0.69	26.1511	0.407	1.555	ug/L
|	Ni	60	54389.424	0.15	26.2466	0.550	2.097	ug/L
|	Cu	65	52516.730	0.14	26.5884	0.252	0.949	ug/L
|	Zn	66	29292.134	0.08	25.7036	0.074	0.288	ug/L
|>	Ge	72	369334.381	369334.38				ug/L
|	As	75	18451.264	0.05	24.5047	0.083	0.337	ug/L
|	Se	77	1570.281	0.00	25.1884	1.749	6.943	ug/L
|	Se	82	1838.206	0.00	25.0290	0.724	2.891	ug/L
⌊	Rb	85	17.000	0.00				mg/L
	Y	89	216351.077	1775.43				ug/L
	Rh	103	10.667	2.00				ug/L
⌈	Mo	98	37.083	0.00	0.0078	0.005	67.335	ug/L
|	Ag	107	91943.056	0.31	25.0137	0.214	0.857	ug/L
|	Cd	114	23520.160	0.08	24.9148	0.229	0.921	ug/L
|>	In	115	297946.590	297946.59				ug/L
|	Sn	118	631.087	-0.00	-0.0294	0.010	35.282	ug/L
⌊	Sb	123	73160.310	0.25	24.6369	0.563	2.287	ug/L
⌈	Ba	135	34632.885	0.09	24.5899	0.043	0.176	ug/L
|	Ce	140	36.670	0.00				ug/L
⌊>	Tb	159	380509.346	380509.35				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	152655.654	0.36	24.4009	0.176	0.721	ug/L
|	Tl	205	379573.718	0.90	24.3593	0.259	1.062	ug/L
|	Pb	206	131398.041	0.31	24.7608	0.414	1.671	ug/L
|	Pb	207	114963.534	0.27	24.6324	0.144	0.584	ug/L
|	Pb	208	534495.536	1.26	24.6937	0.232	0.941	ug/L
|	U	238	828494.288	1.95	25.5887	0.454	1.774	ug/L
⌊>	Bi	209	423910.199	423910.20				ug/L

Sample ID: LCSW 35 WG348583-03
Report Date/Time: Monday, November 22, 2010 13:00:22
Page 1

Approved: November 23, 2010

⌈	Na	23	22059.851	0.04	-0.0061	0.000	1.711	mg/L
|	Mg	24	470.058	0.00	-0.0134	0.000	0.116	mg/L
|	K	39	424078.176	-0.06	-0.0101	0.001	10.730	mg/L
|	Ca	43	160.017	0.00	0.0023	0.004	160.686	mg/L
|	Fe	54	51709.107	-0.00	-0.0057	0.003	59.997	mg/L
|	Fe	57	8724.678	0.00	-0.0011	0.001	49.468	mg/L
⌊>	Sc-1	45	277394.919	277394.92				mg/L
	Cl	35	20486.967	-1690.93				mg/L
	Kr	83	37.000	5.00				mg/L
	Br	81	9846.178	208.87				mg/L
	P	31	11607.402	1083.17				mg/L
	S	34	216666.159	31923.67				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.726			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.321			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.180			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.668			
⌈	Na	23					

Sample ID: LCSW 35 WG348583-03
Report Date/Time: Monday, November 22, 2010 13:00:22
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011042005 WG348583-01

Sample Date/Time: Monday, November 22, 2010 13:04:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 24
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32051.323	0.01				ug/L
|	Be	9	4.667	-0.00	0.0231	0.010	42.474	ug/L
|	Al	27	7903.165	0.02	0.8842	0.196	22.131	ug/L
⌊>	Sc	45	274088.834	274088.83				ug/L
⌈	Ti	49	186.687	0.00	0.3389	0.060	17.794	ug/L
|	V	51	2285.469	-0.00	-0.0385	0.031	80.070	ug/L
|	Cr	52	9416.193	0.00	0.1518	0.010	6.811	ug/L
|	Cr	53	2390.525	0.01	2.5692	0.108	4.194	ug/L
|	Mn	55	35575.531	0.10	3.1631	0.062	1.958	ug/L
|	Co	59	465.015	0.00	0.0309	0.001	4.144	ug/L
|	Ni	60	460.682	0.00	0.2040	0.016	7.969	ug/L
|	Cu	65	272.340	0.00	0.0665	0.006	8.569	ug/L
|	Zn	66	2553.685	0.01	2.1873	0.107	4.912	ug/L
|>	Ge	72	345130.300	345130.30				ug/L
|	As	75	5783.741	0.02	8.3601	0.737	8.812	ug/L
|	Se	77	250.028	0.00	3.2148	1.175	36.536	ug/L
|	Se	82	2169.015	0.01	31.6184	2.670	8.443	ug/L
⌊	Rb	85	1853.524	0.01				mg/L
	Y	89	204694.425	-9881.22				ug/L
	Rh	103	48.001	39.33				ug/L
⌈	Mo	98	94.344	0.00	0.0463	0.004	8.303	ug/L
|	Ag	107	42.001	0.00	-0.0044	0.002	55.033	ug/L
|	Cd	114	6.607	-0.00	-0.0387	0.006	15.352	ug/L
|>	In	115	266474.381	266474.38				ug/L
|	Sn	118	965.914	0.00	0.1056	0.035	32.687	ug/L
⌊	Sb	123	186.621	0.00	0.0779	0.008	10.455	ug/L
⌈	Ba	135	6523.860	0.02	4.9144	0.131	2.672	ug/L
|	Ce	140	203.356	0.00				ug/L
⌊>	Tb	159	357394.014	357394.01				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	37.667	0.00	0.0058	0.002	26.745	ug/L
|	Tl	205	63.340	0.00	0.0220	0.002	10.516	ug/L
|	Pb	206	389.011	0.00	0.0173	0.004	25.037	ug/L
|	Pb	207	346.676	0.00	0.0284	0.004	12.532	ug/L
|	Pb	208	1627.736	0.00	0.0225	0.001	4.559	ug/L
|	U	238	651.694	0.00	0.0179	0.000	2.235	ug/L
⌊>	Bi	209	356835.755	356835.75				ug/L

Sample ID: L1011042005 WG348583-01
Report Date/Time: Monday, November 22, 2010 13:07:05
Page 1

Approved: November 23, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	2453452.585	8.95	0.8780	0.009	0.988	mg/L
|	K	39	2667343.041	8.15	0.2937	0.011	3.904	mg/L
|	Ca	43	31288.670	0.11	1.6944	0.017	0.980	mg/L
|	Fe	54	57167.816	0.02	0.0069	0.003	48.216	mg/L
|	Fe	57	10142.828	0.01	0.0055	0.002	34.985	mg/L
⌊>	Sc-1	45	274088.834	274088.83				mg/L
	Cl	35	2771944.055	2749766.15				mg/L
	Kr	83	28.667	-3.33				mg/L
	Br	81	1247534.285	1237896.97				mg/L
	P	31	12737.445	2213.21				mg/L
	S	34	347627.180	162884.69				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.322			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.090			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.608			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.158			
⌈	Na	23					

Sample ID: L1011042005 WG348583-01
Report Date/Time: Monday, November 22, 2010 13:07:05
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011042005 WG348583-01
Report Date/Time: Monday, November 22, 2010 13:07:05
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011042006S WG348583-04

Sample Date/Time: Monday, November 22, 2010 13:11:39
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 25
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30429.569	0.01				ug/L
|	Be	9	781.364	0.00	2.5201	0.068	2.708	ug/L
|	Al	27	23126.713	0.08	3.6151	0.020	0.562	ug/L
⌊>	Sc	45	272702.163	272702.16				ug/L
⌈	Ti	49	233.360	0.00	0.4263	0.143	33.447	ug/L
|	V	51	24498.813	0.06	2.6904	0.016	0.604	ug/L
|	Cr	52	28060.942	0.06	2.8814	0.107	3.722	ug/L
|	Cr	53	4898.357	0.01	5.6541	0.290	5.133	ug/L
|	Mn	55	66963.465	0.19	6.0076	0.058	0.964	ug/L
|	Co	59	24789.947	0.07	2.7147	0.057	2.093	ug/L
|	Ni	60	5332.141	0.02	2.7342	0.034	1.245	ug/L
|	Cu	65	5000.300	0.01	2.6469	0.043	1.633	ug/L
|	Zn	66	4812.206	0.01	4.3457	0.052	1.195	ug/L
|>	Ge	72	343707.069	343707.07				ug/L
|	As	75	8631.302	0.03	12.4282	0.518	4.164	ug/L
|	Se	77	296.701	0.00	4.0717	0.744	18.279	ug/L
|	Se	82	2732.126	0.01	40.0503	1.399	3.492	ug/L
⌊	Rb	85	1880.196	0.01				mg/L
	Y	89	204459.645	-10116.00				ug/L
	Rh	103	61.334	52.67				ug/L
⌈	Mo	98	95.896	0.00	0.0492	0.004	7.555	ug/L
|	Ag	107	7896.862	0.03	2.4642	0.022	0.901	ug/L
|	Cd	114	2053.296	0.01	2.4686	0.055	2.243	ug/L
|>	In	115	258160.613	258160.61				ug/L
|	Sn	118	1299.418	0.00	0.2322	0.024	10.200	ug/L
⌊	Sb	123	6940.933	0.03	2.7039	0.034	1.252	ug/L
⌈	Ba	135	9897.663	0.03	7.6574	0.091	1.185	ug/L
|	Ce	140	270.031	0.00				ug/L
⌊>	Tb	159	348501.446	348501.45				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	12972.207	0.04	2.5037	0.061	2.447	ug/L
|	Tl	205	32582.926	0.09	2.5411	0.042	1.660	ug/L
|	Pb	206	11486.375	0.03	2.5518	0.019	0.741	ug/L
|	Pb	207	10063.829	0.03	2.5509	0.034	1.314	ug/L
|	Pb	208	47068.978	0.13	2.5668	0.015	0.574	ug/L
|	U	238	76008.924	0.22	2.8303	0.052	1.835	ug/L
⌊>	Bi	209	350940.330	350940.33				ug/L

Sample ID: L1011042006S WG348583-04
Report Date/Time: Monday, November 22, 2010 13:13:49
Page 1

Approved: November 23, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	2569053.142	9.42	0.9248	0.012	1.257	mg/L
|	K	39	2784446.032	8.62	0.3114	0.006	1.898	mg/L
|	Ca	43	32980.950	0.12	1.7960	0.063	3.508	mg/L
|	Fe	54	56882.909	0.02	0.0069	0.001	8.517	mg/L
|	Fe	57	9605.579	0.01	0.0034	0.002	73.939	mg/L
⌊>	Sc-1	45	272702.163	272702.16				mg/L
	Cl	35	2899388.277	2877210.37				mg/L
	Kr	83	32.667	0.67				mg/L
	Br	81	1520306.358	1510669.05				mg/L
	P	31	11541.336	1017.10				mg/L
	S	34	346709.456	161966.96				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.945			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.123			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.080			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		91.619			
⌈	Na	23					

Sample ID: L1011042006S WG348583-04
Report Date/Time: Monday, November 22, 2010 13:13:49
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011042006S WG348583-04
Report Date/Time: Monday, November 22, 2010 13:13:49
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011042007SD WG348583-05

Sample Date/Time: Monday, November 22, 2010 13:18:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30078.529	0.01				ug/L
|	Be	9	805.366	0.00	2.6336	0.095	3.617	ug/L
|	Al	27	23778.272	0.08	3.7957	0.275	7.256	ug/L
⌊>	Sc	45	268884.877	268884.88				ug/L
⌈	Ti	49	223.358	0.00	0.4116	0.072	17.570	ug/L
|	V	51	24703.181	0.07	2.7489	0.070	2.554	ug/L
|	Cr	52	28134.136	0.06	2.9365	0.041	1.400	ug/L
|	Cr	53	4854.997	0.01	5.6658	0.146	2.586	ug/L
|	Mn	55	64465.768	0.19	5.8454	0.065	1.112	ug/L
|	Co	59	24751.845	0.07	2.7406	0.069	2.518	ug/L
|	Ni	60	5351.152	0.02	2.7746	0.073	2.618	ug/L
|	Cu	65	5051.660	0.01	2.7049	0.024	0.892	ug/L
|	Zn	66	4706.155	0.01	4.2947	0.216	5.027	ug/L
|>	Ge	72	340039.767	340039.77				ug/L
|	As	75	9155.689	0.03	13.3097	0.192	1.446	ug/L
|	Se	77	373.378	0.00	5.5290	0.568	10.265	ug/L
|	Se	82	2903.834	0.01	43.0398	1.108	2.573	ug/L
⌊	Rb	85	1785.177	0.01				mg/L
	Y	89	199493.837	-15081.81				ug/L
	Rh	103	62.001	53.33				ug/L
⌈	Mo	98	84.937	0.00	0.0427	0.007	15.973	ug/L
|	Ag	107	7797.117	0.03	2.4622	0.021	0.872	ug/L
|	Cd	114	2042.083	0.01	2.4852	0.077	3.084	ug/L
|>	In	115	255083.489	255083.49				ug/L
|	Sn	118	1307.152	0.00	0.2406	0.026	10.750	ug/L
⌊	Sb	123	6877.051	0.03	2.7112	0.002	0.072	ug/L
⌈	Ba	135	9756.856	0.03	7.7229	0.181	2.346	ug/L
|	Ce	140	230.026	0.00				ug/L
⌊>	Tb	159	340697.871	340697.87				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	12924.476	0.04	2.5496	0.012	0.473	ug/L
|	Tl	205	31051.235	0.09	2.4759	0.024	0.954	ug/L
|	Pb	206	11328.860	0.03	2.5731	0.010	0.408	ug/L
|	Pb	207	10050.149	0.03	2.6051	0.028	1.092	ug/L
|	Pb	208	46926.868	0.13	2.6169	0.034	1.292	ug/L
|	U	238	75619.689	0.22	2.8781	0.051	1.775	ug/L
⌊>	Bi	209	343327.013	343327.01				ug/L

Sample ID: L1011042007SD WG348583-05
Report Date/Time: Monday, November 22, 2010 13:20:34
Page 1

Approved: November 23, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	2538044.088	9.44	0.9271	0.034	3.656	mg/L
|	K	39	2723900.523	8.55	0.3085	0.006	1.793	mg/L
|	Ca	43	32208.345	0.12	1.7785	0.013	0.718	mg/L
|	Fe	54	54597.740	0.01	0.0038	0.004	95.999	mg/L
|	Fe	57	9181.801	0.01	0.0021	0.002	109.199	mg/L
⌊>	Sc-1	45	268884.877	268884.88				mg/L
	Cl	35	2899487.447	2877309.55				mg/L
	Kr	83	33.667	1.67				mg/L
	Br	81	1614713.677	1605076.37				mg/L
	P	31	11520.659	996.43				mg/L
	S	34	345798.005	161055.51				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.975			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.025			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.861			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.631			
⌈	Na	23					

Sample ID: L1011042007SD WG348583-05
Report Date/Time: Monday, November 22, 2010 13:20:34
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011042007SD WG348583-05
Report Date/Time: Monday, November 22, 2010 13:20:34
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011042001

Sample Date/Time: Monday, November 22, 2010 13:25:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 27
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34242.057	0.02				ug/L
|	Be	9	6.000	0.00	0.0276	0.017	63.009	ug/L
|	Al	27	20220.467	0.06	3.1011	0.203	6.549	ug/L
⌊>	Sc	45	272274.691	272274.69				ug/L
⌈	Ti	49	2170.453	0.01	3.9394	0.165	4.178	ug/L
|	V	51	3245.471	0.00	0.0744	0.004	4.727	ug/L
|	Cr	52	10528.313	0.01	0.2966	0.027	9.160	ug/L
|	Cr	53	776.775	0.00	0.5913	0.082	13.895	ug/L
|	Mn	55	64002.821	0.18	5.6532	0.091	1.616	ug/L
|	Co	59	621.359	0.00	0.0473	0.002	5.250	ug/L
|	Ni	60	2431.320	0.01	1.2090	0.040	3.292	ug/L
|	Cu	65	1323.101	0.00	0.6295	0.002	0.370	ug/L
|	Zn	66	5219.414	0.01	4.6579	0.041	0.886	ug/L
|>	Ge	72	348993.561	348993.56				ug/L
|	As	75	813.438	0.00	1.3525	0.145	10.697	ug/L
|	Se	77	106.678	0.00	0.5970	0.095	15.841	ug/L
|	Se	82	369.443	0.00	5.2398	0.653	12.454	ug/L
⌊	Rb	85	1435.784	0.00				mg/L
	Y	89	197667.482	-16908.16				ug/L
	Rh	103	105.335	96.67				ug/L
⌈	Mo	98	209.753	0.00	0.1211	0.007	5.428	ug/L
|	Ag	107	16.334	0.00	-0.0121	0.000	3.576	ug/L
|	Cd	114	16.924	0.00	-0.0260	0.003	12.334	ug/L
|>	In	115	261879.381	261879.38				ug/L
|	Sn	118	978.981	0.00	0.1160	0.005	4.615	ug/L
⌊	Sb	123	53.870	0.00	0.0282	0.005	17.401	ug/L
⌈	Ba	135	755.369	0.00	0.5706	0.020	3.551	ug/L
|	Ce	140	86.676	0.00				ug/L
⌊>	Tb	159	344747.690	344747.69				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	31.000	0.00	0.0045	0.001	18.450	ug/L
|	Tl	205	46.671	0.00	0.0208	0.001	4.250	ug/L
|	Pb	206	348.343	0.00	0.0081	0.006	70.355	ug/L
|	Pb	207	281.007	0.00	0.0116	0.004	33.435	ug/L
|	Pb	208	1350.716	0.00	0.0073	0.003	42.625	ug/L
|	U	238	70362.063	0.20	2.5762	0.023	0.904	ug/L
⌊>	Bi	209	356824.466	356824.47				ug/L

Approved: November 23, 2010

⌈	Na	23	423603896.687	1556.05	93.8060	1.331	1.419	mg/L
|	Mg	24	72146023.872	265.08	26.3878	0.715	2.709	mg/L
|	K	39	6270370.577	21.45	0.7864	0.022	2.826	mg/L
|	Ca	43	325052.461	1.19	17.7798	0.113	0.636	mg/L
|	Fe	54	56516.158	0.02	0.0064	0.005	84.042	mg/L
|	Fe	57	21942.919	0.05	0.0573	0.003	5.994	mg/L
⌊>	Sc-1	45	272274.691	272274.69				mg/L
	Cl	35	314703.944	292526.04				mg/L
	Kr	83	27.000	-5.00				mg/L
	Br	81	204733.587	195096.28				mg/L
	P	31	10914.639	390.41				mg/L
	S	34	2597231.653	2412489.16				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.344			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.450			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.013			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.155			
⌈	Na	23					

Sample ID: L1011042001
Report Date/Time: Monday, November 22, 2010 13:27:19

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011042003

Sample Date/Time: Monday, November 22, 2010 13:33:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32519.544	0.01				ug/L
|	Be	9	16994.432	0.06	54.3032	0.947	1.745	ug/L
|	Al	27	319267.914	1.15	56.2313	1.514	2.693	ug/L
⌊>	Sc	45	274431.524	274431.52				ug/L
⌈	Ti	49	1610.291	0.00	2.8538	0.200	7.000	ug/L
|	V	51	470147.759	1.31	55.2299	0.350	0.633	ug/L
|	Cr	52	402535.451	1.10	55.3550	0.579	1.046	ug/L
|	Cr	53	47634.657	0.13	55.7840	1.635	2.931	ug/L
|	Mn	55	710695.347	1.99	61.6464	0.628	1.019	ug/L
|	Co	59	520831.175	1.46	55.2595	1.563	2.828	ug/L
|	Ni	60	111026.048	0.31	55.4250	0.327	0.590	ug/L
|	Cu	65	102954.985	0.29	53.9673	0.373	0.691	ug/L
|	Zn	66	61459.913	0.17	56.0262	0.475	0.848	ug/L
| >	Ge	72	357255.445	357255.45				ug/L
|	As	75	38016.887	0.11	51.9479	0.360	0.693	ug/L
|	Se	77	3127.468	0.01	53.2253	0.746	1.402	ug/L
|	Se	82	3710.840	0.01	52.3613	0.576	1.100	ug/L
⌊	Rb	85	778.038	0.00				mg/L
	Y	89	204119.630	-10456.02				ug/L
	Rh	103	88.668	80.00				ug/L
⌈	Mo	98	145.422	0.00	0.0775	0.013	16.216	ug/L
|	Ag	107	168688.718	0.63	50.8187	1.154	2.270	ug/L
|	Cd	114	44412.363	0.16	52.1278	0.510	0.978	ug/L
| >	In	115	269162.237	269162.24				ug/L
|	Sn	118	887.373	0.00	0.0764	0.010	12.668	ug/L
⌊	Sb	123	148085.984	0.55	55.1827	0.484	0.878	ug/L
⌈	Ba	135	69408.783	0.19	52.4581	1.586	3.023	ug/L
|	Ce	140	523.400	0.00				ug/L
⌊>	Tb	159	357745.648	357745.65				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	291277.306	0.79	53.5170	0.256	0.479	ug/L
|	Tl	205	716666.964	1.94	52.8431	0.396	0.750	ug/L
|	Pb	206	242198.328	0.66	52.5385	0.403	0.767	ug/L
|	Pb	207	213700.249	0.58	52.6971	0.321	0.610	ug/L
|	Pb	208	995799.042	2.70	52.9574	0.337	0.637	ug/L
|	U	238	1692048.419	4.59	60.0775	0.830	1.382	ug/L
⌊>	Bi	209	368799.537	368799.54				ug/L

Sample ID: L1011042003
Report Date/Time: Monday, November 22, 2010 13:35:38
Page 1

Approved: November 23, 2010

Na	23	305291515.494	1112.34	67.0546	0.729	1.087	mg/L
Mg	24	64717518.809	235.82	23.4740	0.224	0.956	mg/L
K	39	3327387.501	10.54	0.3823	0.004	1.057	mg/L
Ca	43	343787.062	1.25	18.6581	0.170	0.911	mg/L
Fe	54	59330.883	0.03	0.0112	0.003	30.096	mg/L
Fe	57	22791.647	0.05	0.0602	0.007	11.500	mg/L
Sc-1	45	274431.524	274431.52				mg/L
Cl	35	283988.111	261810.21				mg/L
Kr	83	26.334	-5.67				mg/L
Br	81	71233.647	61596.34				mg/L
P	31	11727.542	1203.31				mg/L
S	34	1972053.931	1787311.44				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		94.530			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		96.049			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		101.708			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		96.281			
Na	23					

Sample ID: L1011042003
Report Date/Time: Monday, November 22, 2010 13:35:38

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011042003

Sample Date/Time: Monday, November 22, 2010 13:43:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 30
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33623.317	0.02				ug/L
|	Be	9	6.000	0.00	0.0275	0.017	61.882	ug/L
|	Al	27	29660.628	0.10	4.7735	0.181	3.800	ug/L
⌊>	Sc	45	273233.054	273233.05				ug/L
⌈	Ti	49	1583.617	0.00	2.7912	0.155	5.546	ug/L
|	V	51	3497.888	0.00	0.0930	0.012	13.419	ug/L
|	Cr	52	10872.350	0.01	0.3020	0.026	8.753	ug/L
|	Cr	53	636.751	0.00	0.4013	0.134	33.397	ug/L
|	Mn	55	80129.574	0.22	6.8844	0.082	1.187	ug/L
|	Co	59	868.380	0.00	0.0715	0.004	5.595	ug/L
|	Ni	60	3139.524	0.01	1.5258	0.037	2.444	ug/L
|	Cu	65	1131.742	0.00	0.5094	0.013	2.484	ug/L
|	Zn	66	35526.691	0.10	32.1164	0.455	1.417	ug/L
|>	Ge	72	359163.138	359163.14				ug/L
|	As	75	171.327	0.00	0.4511	0.044	9.717	ug/L
|	Se	77	63.340	0.00	-0.2056	0.414	201.172	ug/L
|	Se	82	125.428	0.00	1.6546	0.101	6.129	ug/L
⌊	Rb	85	744.035	0.00				mg/L
	Y	89	200925.288	-13650.36				ug/L
	Rh	103	91.668	83.00				ug/L
⌈	Mo	98	138.605	0.00	0.0726	0.005	7.225	ug/L
|	Ag	107	32.334	0.00	-0.0075	0.001	17.630	ug/L
|	Cd	114	6.310	-0.00	-0.0391	0.006	16.022	ug/L
|>	In	115	271057.477	271057.48				ug/L
|	Sn	118	712.425	0.00	0.0163	0.009	54.023	ug/L
⌊	Sb	123	167.956	0.00	0.0697	0.003	4.231	ug/L
⌈	Ba	135	734.701	0.00	0.5364	0.024	4.388	ug/L
|	Ce	140	446.721	0.00				ug/L
⌊>	Tb	159	355809.253	355809.25				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	37.000	0.00	0.0053	0.000	6.587	ug/L
|	Tl	205	76.675	0.00	0.0228	0.001	3.701	ug/L
|	Pb	206	437.347	0.00	0.0237	0.004	15.640	ug/L
|	Pb	207	375.677	0.00	0.0314	0.004	13.464	ug/L
|	Pb	208	1775.747	0.00	0.0263	0.002	6.682	ug/L
|	U	238	102806.136	0.28	3.5957	0.034	0.947	ug/L
⌊>	Bi	209	373777.681	373777.68				ug/L

Approved: November 23, 2010

Na	23	305934933.325	1119.89	67.5098	1.763	2.612	mg/L
Mg	24	65772680.889	240.79	23.9691	0.760	3.170	mg/L
K	39	3301258.151	10.50	0.3807	0.002	0.425	mg/L
Ca	43	342621.289	1.25	18.6797	0.400	2.142	mg/L
Fe	54	58877.003	0.02	0.0108	0.002	15.040	mg/L
Fe	57	24749.751	0.06	0.0692	0.004	6.040	mg/L
> Sc-1	45	273233.054	273233.05				mg/L
Cl	35	283031.856	260853.95				mg/L
Kr	83	27.667	-4.33				mg/L
Br	81	70415.053	60777.74				mg/L
P	31	11224.327	700.09				mg/L
S	34	2017282.153	1832539.66				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		95.035			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		96.726			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		101.157			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		97.581			
Na	23					

Sample ID: L1011042003
Report Date/Time: Monday, November 22, 2010 13:45:42
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011042003
Report Date/Time: Monday, November 22, 2010 13:45:42
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011042003SDL WG349358-02

Sample Date/Time: Monday, November 22, 2010 13:50:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 31
Method File: C:\elandata\Method\6020a.mth
Sample Description: 50

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32787.002	0.01				ug/L
|	Be	9	5.333	-0.00	0.0248	0.008	31.430	ug/L
|	Al	27	19318.692	0.06	2.7979	0.162	5.801	ug/L
⌊>	Sc	45	283806.779	283806.78				ug/L
⌈	Ti	49	380.045	0.00	0.6337	0.127	19.996	ug/L
|	V	51	3397.284	0.00	0.0620	0.012	18.969	ug/L
|	Cr	52	10828.302	0.00	0.2234	0.033	14.660	ug/L
|	Cr	53	470.058	0.00	0.1788	0.025	14.180	ug/L
|	Mn	55	17950.944	0.05	1.4423	0.007	0.467	ug/L
|	Co	59	250.006	0.00	0.0050	0.002	34.034	ug/L
|	Ni	60	747.702	0.00	0.3195	0.008	2.420	ug/L
|	Cu	65	363.677	0.00	0.0993	0.007	6.677	ug/L
|	Zn	66	22799.859	0.06	19.5332	0.091	0.466	ug/L
|>	Ge	72	377210.351	377210.35				ug/L
|	As	75	-16.870	0.00	0.1974	0.026	13.246	ug/L
|	Se	77	46.671	-0.00	-0.5349	0.420	78.586	ug/L
|	Se	82	60.120	0.00	0.6955	0.017	2.502	ug/L
⌊	Rb	85	175.670	0.00				mg/L
	Y	89	212660.025	-1915.62				ug/L
	Rh	103	26.000	17.33				ug/L
⌈	Mo	98	39.525	0.00	0.0098	0.004	39.729	ug/L
|	Ag	107	17.667	0.00	-0.0123	0.000	3.371	ug/L
|	Cd	114	5.789	-0.00	-0.0403	0.008	20.214	ug/L
|>	In	115	290596.491	290596.49				ug/L
|	Sn	118	684.157	-0.00	-0.0083	0.004	52.537	ug/L
⌊	Sb	123	83.747	0.00	0.0365	0.002	5.076	ug/L
⌈	Ba	135	167.336	0.00	0.0984	0.013	12.979	ug/L
|	Ce	140	140.015	0.00				ug/L
⌊>	Tb	159	376186.047	376186.05				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	22.334	0.00	0.0024	0.001	32.816	ug/L
|	Tl	205	53.339	0.00	0.0208	0.002	11.328	ug/L
|	Pb	206	449.348	0.00	0.0188	0.005	29.135	ug/L
|	Pb	207	407.012	0.00	0.0313	0.003	9.875	ug/L
|	Pb	208	1795.414	0.00	0.0199	0.002	8.176	ug/L
|	U	238	21305.888	0.05	0.6819	0.009	1.379	ug/L
⌊>	Bi	209	405619.539	405619.54				ug/L

Approved: November 23, 2010

⌈	Na	23	64239328.072	226.46	13.6451	0.498	3.649	mg/L
|	Mg	24	13823716.689	48.74	4.8408	0.159	3.292	mg/L
|	K	39	1199032.074	2.64	0.0898	0.006	6.289	mg/L
|	Ca	43	73516.741	0.26	3.8579	0.239	6.208	mg/L
|	Fe	54	56765.810	0.01	0.0021	0.006	260.032	mg/L
|	Fe	57	13493.815	0.02	0.0180	0.003	15.525	mg/L
⌊>	Sc-1	45	283806.779	283806.78				mg/L
	Cl	35	78656.133	56478.23				mg/L
	Kr	83	24.667	-7.33				mg/L
	Br	81	35531.685	25894.38				mg/L
	P	31	12110.025	1585.79				mg/L
	S	34	735694.850	550952.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.810			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.698			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.951			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.893			
⌈	Na	23					

Sample ID: L1011042003SDL WG349358-02
Report Date/Time: Monday, November 22, 2010 13:52:28
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011042003SDL WG349358-02
Report Date/Time: Monday, November 22, 2010 13:52:28
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011043301

Sample Date/Time: Monday, November 22, 2010 13:57:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 32
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34392.475	0.01				ug/L
|	Be	9	6.667	0.00	0.0281	0.014	49.026	ug/L
|	Al	27	58202.363	0.19	9.1576	0.414	4.526	ug/L
⌊>	Sc	45	293357.517	293357.52				ug/L
⌈	Ti	49	70.007	0.00	0.1159	0.078	66.910	ug/L
|	V	51	5311.194	0.01	0.2940	0.011	3.797	ug/L
|	Cr	52	15530.541	0.02	0.9117	0.055	6.057	ug/L
|	Cr	53	1330.222	0.00	1.1836	0.047	3.956	ug/L
|	Mn	55	11035.198	0.03	0.9014	0.036	4.026	ug/L
|	Co	59	298.341	0.00	0.0107	0.000	2.510	ug/L
|	Ni	60	2060.233	0.01	0.9698	0.010	0.988	ug/L
|	Cu	65	1175.414	0.00	0.5206	0.018	3.453	ug/L
|	Zn	66	4927.597	0.01	4.1682	0.147	3.523	ug/L
|>	Ge	72	366217.147	366217.15				ug/L
|	As	75	-25.642	0.00	0.1849	0.039	21.165	ug/L
|	Se	77	80.008	0.00	0.0555	0.351	631.932	ug/L
|	Se	82	64.433	0.00	0.7773	0.216	27.815	ug/L
⌊	Rb	85	2561.020	0.01				mg/L
	Y	89	211818.969	-2756.68				ug/L
	Rh	103	21.334	12.67				ug/L
⌈	Mo	98	44.452	0.00	0.0127	0.001	10.817	ug/L
|	Ag	107	23.000	0.00	-0.0107	0.002	20.710	ug/L
|	Cd	114	14.114	0.00	-0.0311	0.012	37.945	ug/L
|>	In	115	288614.043	288614.04				ug/L
|	Sn	118	739.894	-0.00	0.0105	0.007	62.665	ug/L
⌊	Sb	123	95.414	0.00	0.0408	0.002	5.846	ug/L
⌈	Ba	135	34067.608	0.09	23.7709	0.392	1.647	ug/L
|	Ce	140	430.052	0.00				ug/L
⌊>	Tb	159	387221.498	387221.50				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	31.000	0.00	0.0037	0.000	11.903	ug/L
|	Tl	205	110.012	0.00	0.0244	0.001	4.595	ug/L
|	Pb	206	628.359	0.00	0.0516	0.006	11.213	ug/L
|	Pb	207	556.354	0.00	0.0624	0.008	12.350	ug/L
|	Pb	208	2589.160	0.00	0.0559	0.001	1.489	ug/L
|	U	238	1394.445	0.00	0.0382	0.002	5.136	ug/L
⌊>	Bi	209	413612.612	413612.61				ug/L

Sample ID: L1011043301
Report Date/Time: Monday, November 22, 2010 13:59:14
Page 1

Approved: November 23, 2010

Na	23	17245237.163	58.75	3.5336	0.061	1.725	mg/L	
Mg	24	6418297.568	21.88	2.1656	0.044	2.028	mg/L	
K	39	6309681.135	19.92	0.7298	0.008	1.097	mg/L	
Ca	43	89665.818	0.31	4.5478	0.061	1.347	mg/L	
Fe	54	99000.258	0.15	0.0802	0.004	5.426	mg/L	
Fe	57	15286.551	0.02	0.0234	0.003	12.327	mg/L	
Sc-1	45	293357.517	293357.52				mg/L	
Cl	35	147063.543	124885.64				mg/L	
Kr	83	27.000	-5.00				mg/L	
Br	81	38481.278	28843.97				mg/L	
P	31	20997.461	10473.23				mg/L	
S	34	239812.382	55069.89				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		96.902			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		102.991			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		110.088			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		107.980			
Na	23					

Sample ID: L1011043301
Report Date/Time: Monday, November 22, 2010 13:59:14

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011043301
Report Date/Time: Monday, November 22, 2010 13:59:14
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 22, 2010 14:08:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31165.188	0.01				ug/L
|	Be	9	16533.660	0.06	54.5668	0.883	1.617	ug/L
|	Al	27	286821.939	1.07	52.1324	0.139	0.267	ug/L
⌊>	Sc	45	265700.241	265700.24				ug/L
⌈	Ti	49	55770.716	0.15	98.2279	2.581	2.627	ug/L
|	V	51	441302.700	1.22	51.4212	1.072	2.085	ug/L
|	Cr	52	380176.740	1.03	51.8007	0.885	1.708	ug/L
|	Cr	53	45327.048	0.13	52.6437	0.824	1.564	ug/L
|	Mn	55	612960.410	1.70	52.7520	0.588	1.114	ug/L
|	Co	59	504987.966	1.40	53.1654	0.765	1.440	ug/L
|	Ni	60	106258.282	0.30	52.6340	0.755	1.434	ug/L
|	Cu	65	100210.986	0.28	52.1183	0.668	1.282	ug/L
|	Zn	66	56556.721	0.16	51.1415	1.031	2.016	ug/L
| >	Ge	72	360077.091	360077.09				ug/L
|	As	75	36967.516	0.10	50.1335	0.822	1.640	ug/L
|	Se	77	3090.787	0.01	52.1607	2.151	4.124	ug/L
|	Se	82	3709.461	0.01	51.9397	0.960	1.848	ug/L
⌊	Rb	85	1254.425	0.00				mg/L
	Y	89	202996.591	-11579.06				ug/L
	Rh	103	21.667	13.00				ug/L
⌈	Mo	98	161909.240	0.58	97.2803	0.315	0.323	ug/L
|	Ag	107	172649.167	0.62	50.2374	0.906	1.803	ug/L
|	Cd	114	45618.289	0.16	51.7052	0.820	1.585	ug/L
| >	In	115	278690.451	278690.45				ug/L
|	Sn	118	159957.044	0.57	51.3377	0.542	1.056	ug/L
⌊	Sb	123	145216.210	0.52	52.2624	0.152	0.291	ug/L
⌈	Ba	135	68299.129	0.19	50.2569	0.122	0.242	ug/L
|	Ce	140	150.016	0.00				ug/L
⌊>	Tb	159	367325.014	367325.01				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	300510.117	0.75	50.6776	0.430	0.849	ug/L
|	Tl	205	743512.923	1.85	50.3185	0.335	0.666	ug/L
|	Pb	206	253990.333	0.63	50.5646	0.675	1.335	ug/L
|	Pb	207	220434.922	0.55	49.8825	0.256	0.514	ug/L
|	Pb	208	1030689.249	2.56	50.2996	0.598	1.189	ug/L
|	U	238	1622914.880	4.04	52.8847	0.998	1.888	ug/L
⌊>	Bi	209	401845.852	401845.85				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 14:10:28
Page 1

Approved: November 23, 2010

Na	23	23695808.288	89.14	5.3661	0.106	1.981	mg/L
Mg	24	14405969.340	54.22	5.3867	0.094	1.741	mg/L
K	39	38389478.534	142.90	5.2841	0.055	1.040	mg/L
Ca	43	93914.991	0.35	5.2600	0.076	1.442	mg/L
Fe	54	2618394.631	9.66	5.4951	0.124	2.254	mg/L
Fe	57	1308424.759	4.90	5.8181	0.164	2.815	mg/L
> Sc-1	45	265700.241	265700.24				mg/L
Cl	35	22277.457	99.56				mg/L
Kr	83	31.667	-0.33				mg/L
Br	81	13854.260	4216.95				mg/L
P	31	11393.829	869.60				mg/L
S	34	220658.639	35916.15				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	102.842				
Cr	52	103.601				
Cr	53					
Mn	55	105.504				
Co	59	106.331				
Ni	60	105.268				
Cu	65	104.237				
Zn	66	102.283				
> Ge	72		95.277			
As	75	100.267				
Se	77					
Se	82	103.879				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.475				
Cd	114	103.410				
> In	115		99.449			
Sn	118					
Sb	123	104.525				
Ba	135	100.514				
Ce	140					
> Tb	159		104.431			
Ho	165					
Tl	203	101.355				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.599				
U	238	105.769				
> Bi	209		104.908			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 14:10:28

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 14:10:28

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 22, 2010 14:15:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34543.058	0.02				ug/L
|	Be	9	6.000	0.00	0.0273	0.011	40.368	ug/L
|	Al	27	2466.972	-0.00	-0.0822	0.023	28.347	ug/L
⌊>	Sc	45	273922.046	273922.05				ug/L
⌈	Ti	49	43.338	-0.00	0.0715	0.044	60.872	ug/L
|	V	51	2613.995	-0.00	-0.0116	0.003	22.105	ug/L
|	Cr	52	8442.313	-0.00	-0.0402	0.008	20.805	ug/L
|	Cr	53	310.036	0.00	0.0171	0.105	614.992	ug/L
|	Mn	55	312.008	0.00	-0.0063	0.001	17.373	ug/L
|	Co	59	64.668	-0.00	-0.0134	0.001	5.221	ug/L
|	Ni	60	23.000	0.00	-0.0228	0.002	6.820	ug/L
|	Cu	65	112.002	0.00	-0.0232	0.009	39.854	ug/L
|	Zn	66	254.006	0.00	-0.0023	0.012	497.395	ug/L
|>	Ge	72	359902.072	359902.07				ug/L
|	As	75	-124.197	0.00	0.0512	0.018	35.997	ug/L
|	Se	77	40.004	-0.00	-0.6157	0.165	26.812	ug/L
|	Se	82	15.435	0.00	0.1068	0.041	38.149	ug/L
⌊	Rb	85	10.000	-0.00				mg/L
	Y	89	210531.968	-4043.68				ug/L
	Rh	103	6.333	-2.33				ug/L
⌈	Mo	98	83.490	0.00	0.0357	0.005	14.420	ug/L
|	Ag	107	14.333	0.00	-0.0132	0.001	10.710	ug/L
|	Cd	114	12.168	-0.00	-0.0331	0.003	9.977	ug/L
|>	In	115	286665.379	286665.38				ug/L
|	Sn	118	752.828	0.00	0.0161	0.003	16.967	ug/L
⌊	Sb	123	269.584	0.00	0.1019	0.006	5.877	ug/L
⌈	Ba	135	9.667	-0.00	-0.0149	0.003	19.780	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	372545.853	372545.85				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	24.667	0.00	0.0026	0.001	23.635	ug/L
|	Tl	205	36.670	0.00	0.0196	0.001	4.936	ug/L
|	Pb	206	325.342	-0.00	-0.0081	0.002	27.387	ug/L
|	Pb	207	296.007	0.00	0.0040	0.003	74.479	ug/L
|	Pb	208	1322.047	-0.00	-0.0053	0.001	19.384	ug/L
|	U	238	68.334	0.00	-0.0039	0.000	9.823	ug/L
⌊>	Bi	209	420587.661	420587.66				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 14:17:11
Page 1

Approved: November 23, 2010

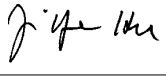
Na	23	21972.981	0.04	-0.0060	0.000	2.361	mg/L
Mg	24	333.372	0.00	-0.0134	0.000	0.190	mg/L
K	39	426973.930	-0.03	-0.0090	0.002	21.482	mg/L
Ca	43	143.349	0.00	0.0015	0.001	92.821	mg/L
Fe	54	50096.505	-0.01	-0.0075	0.008	100.951	mg/L
Fe	57	8270.913	0.00	-0.0026	0.001	45.736	mg/L
> Sc-1	45	273922.046	273922.05				mg/L
Cl	35	21992.159	-185.74				mg/L
Kr	83	26.667	-5.33				mg/L
Br	81	14659.406	5022.10				mg/L
P	31	11154.227	629.99				mg/L
S	34	209238.866	24496.37				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		95.231			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		102.295			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		105.916			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		109.801			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 14:17:11

Approved: November 23, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 14:17:11

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011042002

Sample Date/Time: Monday, November 22, 2010 14:21:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 32
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32134.913	0.02				ug/L
|	Be	9	3.333	-0.00	0.0191	0.004	20.360	ug/L
|	Al	27	20537.780	0.07	3.2379	0.255	7.868	ug/L
⌊>	Sc	45	266800.879	266800.88				ug/L
⌈	Ti	49	200.022	0.00	0.3866	0.052	13.484	ug/L
|	V	51	1436.483	-0.00	-0.1311	0.035	26.617	ug/L
|	Cr	52	9469.576	0.01	0.2482	0.010	3.897	ug/L
|	Cr	53	4551.493	0.01	5.5633	0.382	6.864	ug/L
|	Mn	55	260646.364	0.80	24.8890	0.284	1.142	ug/L
|	Co	59	582.023	0.00	0.0479	0.003	5.557	ug/L
|	Ni	60	1028.397	0.00	0.5318	0.019	3.517	ug/L
|	Cu	65	2283.284	0.01	1.2392	0.047	3.833	ug/L
|	Zn	66	142212.576	0.44	143.1948	1.748	1.221	ug/L
| >	Ge	72	324261.995	324261.99				ug/L
|	As	75	11274.600	0.04	17.1201	0.531	3.102	ug/L
|	Se	77	296.701	0.00	4.3911	1.377	31.348	ug/L
|	Se	82	4197.612	0.01	65.2803	1.845	2.827	ug/L
⌊	Rb	85	2638.374	0.01				mg/L
	Y	89	189243.091	-25332.56				ug/L
	Rh	103	166.336	157.67				ug/L
⌈	Mo	98	268.385	0.00	0.1713	0.012	6.874	ug/L
|	Ag	107	22.334	0.00	-0.0098	0.002	17.374	ug/L
|	Cd	114	7.962	-0.00	-0.0363	0.011	29.494	ug/L
| >	In	115	244002.919	244002.92				ug/L
|	Sn	118	1387.030	0.00	0.2921	0.075	25.637	ug/L
⌊	Sb	123	170.789	0.00	0.0778	0.003	4.259	ug/L
⌈	Ba	135	133049.684	0.38	102.6085	1.007	0.982	ug/L
|	Ce	140	173.352	0.00				ug/L
⌊>	Tb	159	350610.666	350610.67				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	31.000	0.00	0.0050	0.002	46.787	ug/L
|	Tl	205	93.343	0.00	0.0249	0.005	19.022	ug/L
|	Pb	206	810.708	0.00	0.1275	0.008	5.895	ug/L
|	Pb	207	687.030	0.00	0.1301	0.006	4.928	ug/L
|	Pb	208	3287.583	0.01	0.1293	0.003	2.698	ug/L
|	U	238	6359.752	0.02	0.2473	0.005	2.069	ug/L
⌊>	Bi	209	328875.988	328875.99				ug/L

Sample ID: L1011042002
Report Date/Time: Monday, November 22, 2010 14:23:56
Page 1

Approved: November 23, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	6017443.612	22.59	2.2368	0.128	5.726	mg/L
|	K	39	4022754.491	13.53	0.4929	0.039	7.958	mg/L
|	Ca	43	105915.195	0.40	5.9194	0.351	5.922	mg/L
|	Fe	54	52878.873	0.01	0.0012	0.007	548.806	mg/L
|	Fe	57	11587.869	0.02	0.0132	0.003	21.873	mg/L
⌊>	Sc-1	45	266800.879	266800.88				mg/L
	Cl	35	5247035.599	5224857.70				mg/L
	Kr	83	37.667	5.67				mg/L
	Br	81	2205716.807	2196079.50				mg/L
	P	31	11624.116	1099.88				mg/L
	S	34	222994.588	38252.10				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.800			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		87.071			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.680			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		85.858			
⌈	Na	23					

Sample ID: L1011042002
Report Date/Time: Monday, November 22, 2010 14:23:56
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011042004

Sample Date/Time: Monday, November 22, 2010 14:28:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 33
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38892.184	0.04				ug/L
|	Be	9	4.667	-0.00	0.0229	0.020	89.180	ug/L
|	Al	27	23477.557	0.08	3.6299	0.266	7.330	ug/L
⌊>	Sc	45	276163.706	276163.71				ug/L
⌈	Ti	49	3844.459	0.01	6.7466	0.359	5.320	ug/L
|	V	51	3313.686	0.00	0.0691	0.020	29.471	ug/L
|	Cr	52	12848.379	0.01	0.5694	0.011	2.013	ug/L
|	Cr	53	1160.183	0.00	1.0071	0.044	4.334	ug/L
|	Mn	55	2324.293	0.01	0.1665	0.003	1.626	ug/L
|	Co	59	435.681	0.00	0.0256	0.001	2.558	ug/L
|	Ni	60	1982.217	0.01	0.9451	0.069	7.270	ug/L
|	Cu	65	1696.495	0.00	0.7997	0.037	4.654	ug/L
|	Zn	66	4783.525	0.01	4.1010	0.026	0.627	ug/L
|>	Ge	72	360909.137	360909.14				ug/L
|	As	75	974.626	0.00	1.5330	0.208	13.577	ug/L
|	Se	77	976.812	0.00	15.5570	0.797	5.121	ug/L
|	Se	82	1432.504	0.00	19.9551	1.445	7.243	ug/L
⌊	Rb	85	1653.153	0.00				mg/L
	Y	89	202680.462	-11895.18				ug/L
	Rh	103	104.002	95.33				ug/L
⌈	Mo	98	183.236	0.00	0.0098	0.009	9.342	ug/L
|	Ag	107	16.334	0.00	-0.0123	0.001	10.198	ug/L
|	Cd	114	11.889	-0.00	-0.0326	0.006	17.939	ug/L
|>	In	115	271785.323	271785.32				ug/L
|	Sn	118	938.577	0.00	0.0904	0.002	1.970	ug/L
⌊	Sb	123	61.038	0.00	0.0301	0.002	5.424	ug/L
⌈	Ba	135	881.048	0.00	0.6477	0.010	1.470	ug/L
|	Ce	140	93.343	0.00				ug/L
⌊>	Tb	159	355788.377	355788.38				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	21.334	0.00	0.0027	0.000	9.139	ug/L
|	Tl	205	40.004	0.00	0.0202	0.002	9.777	ug/L
|	Pb	206	338.342	0.00	0.0056	0.002	39.654	ug/L
|	Pb	207	299.341	0.00	0.0161	0.006	36.883	ug/L
|	Pb	208	1388.719	0.00	0.0091	0.002	23.325	ug/L
|	U	238	116098.564	0.32	4.2398	0.097	2.288	ug/L
⌊>	Bi	209	358165.542	358165.54				ug/L

Sample ID: L1011042004
Report Date/Time: Monday, November 22, 2010 14:30:42
Page 1

Approved: November 23, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	102030892.905	369.48	36.7864	0.227	0.617	mg/L
|	K	39	5777279.453	19.33	0.7080	0.004	0.498	mg/L
|	Ca	43	294130.638	1.06	15.8629	0.059	0.374	mg/L
|	Fe	54	59193.479	0.02	0.0102	0.002	16.942	mg/L
|	Fe	57	22564.377	0.05	0.0587	0.005	9.214	mg/L
⌊>	Sc-1	45	276163.706	276163.71				mg/L
	Cl	35	357906.372	335728.47				mg/L
	Kr	83	32.667	0.67				mg/L
	Br	81	224092.045	214454.74				mg/L
	P	31	11074.802	550.57				mg/L
	S	34	4720639.379	4535896.89				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.497			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.985			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.152			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.505			
⌈	Na	23					

Sample ID: L1011042004
Report Date/Time: Monday, November 22, 2010 14:30:42
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011037801

Sample Date/Time: Monday, November 22, 2010 14:35:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 34
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38540.820	0.03				ug/L
|	Be	9	4.667	-0.00	0.0222	0.003	15.250	ug/L
|	Al	27	32937.568	0.10	5.0136	0.380	7.582	ug/L
⌊>	Sc	45	290527.776	290527.78				ug/L
⌈	Ti	49	3911.157	0.01	6.6291	0.239	3.607	ug/L
|	V	51	3600.085	0.00	0.0883	0.020	22.753	ug/L
|	Cr	52	11391.932	0.01	0.3118	0.006	1.816	ug/L
|	Cr	53	1153.515	0.00	0.9529	0.043	4.543	ug/L
|	Mn	55	260057.998	0.69	21.5333	0.473	2.198	ug/L
|	Co	59	877.381	0.00	0.0688	0.002	2.188	ug/L
|	Ni	60	3463.969	0.01	1.6191	0.089	5.474	ug/L
|	Cu	65	1788.511	0.00	0.8156	0.017	2.056	ug/L
|	Zn	66	2733.401	0.01	2.1579	0.059	2.734	ug/L
|>	Ge	72	373876.691	373876.69				ug/L
|	As	75	522.862	0.00	0.8988	0.154	17.095	ug/L
|	Se	77	120.013	0.00	0.6940	0.607	87.489	ug/L
|	Se	82	266.726	0.00	3.4939	0.310	8.868	ug/L
⌊	Rb	85	2770.412	0.01				mg/L
	Y	89	205388.944	-9186.70				ug/L
	Rh	103	128.335	119.67				ug/L
⌈	Mo	98	66.677	0.00	0.0263	0.004	14.179	ug/L
|	Ag	107	16.334	0.00	-0.0125	0.001	7.125	ug/L
|	Cd	114	17.100	0.00	-0.0274	0.003	11.135	ug/L
|>	In	115	284103.971	284103.97				ug/L
|	Sn	118	765.896	0.00	0.0224	0.006	27.351	ug/L
⌊	Sb	123	58.245	0.00	0.0281	0.001	2.716	ug/L
⌈	Ba	135	602.691	0.00	0.4179	0.007	1.697	ug/L
|	Ce	140	376.711	0.00				ug/L
⌊>	Tb	159	370561.774	370561.77				ug/L
⌈	Ho	165	36.670	0.00				ug/L
|	Tl	203	54.334	0.00	0.0085	0.002	25.568	ug/L
|	Tl	205	163.351	0.00	0.0291	0.006	18.890	ug/L
|	Pb	206	367.677	0.00	0.0093	0.006	68.937	ug/L
|	Pb	207	341.676	0.00	0.0237	0.003	12.515	ug/L
|	Pb	208	1513.393	0.00	0.0130	0.002	11.566	ug/L
|	U	238	80891.009	0.22	2.8475	0.017	0.602	ug/L
⌊>	Bi	209	371209.305	371209.30				ug/L

Sample ID: L1011037801
Report Date/Time: Monday, November 22, 2010 14:37:29
Page 1

Approved: November 23, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	127934301.912	440.49	43.8582	0.984	2.244	mg/L
|	K	39	8493644.158	27.66	1.0162	0.025	2.482	mg/L
|	Ca	43	346922.853	1.19	17.7892	0.369	2.074	mg/L
|	Fe	54	62729.579	0.02	0.0111	0.002	21.343	mg/L
|	Fe	57	26614.723	0.06	0.0705	0.006	8.428	mg/L
⌊>	Sc-1	45	290527.776	290527.78				mg/L
	Cl	35	737228.027	715050.12				mg/L
	Kr	83	32.334	0.33				mg/L
	Br	81	142244.782	132607.47				mg/L
	P	31	12589.933	2065.70				mg/L
	S	34	4013994.672	3829252.18				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.928			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.381			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.352			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.910			
⌈	Na	23					

Sample ID: L1011037801
Report Date/Time: Monday, November 22, 2010 14:37:29
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011037802

Sample Date/Time: Monday, November 22, 2010 14:42:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 35
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42005.169	0.04				ug/L
|	Be	9	6.000	0.00	0.0260	0.010	39.866	ug/L
|	Al	27	22191.377	0.07	3.1519	0.351	11.142	ug/L
⌊>	Sc	45	294885.630	294885.63				ug/L
⌈	Ti	49	2147.113	0.01	3.4587	0.239	6.908	ug/L
|	V	51	3550.666	0.00	0.0633	0.017	26.318	ug/L
|	Cr	52	11184.697	0.00	0.2110	0.024	11.210	ug/L
|	Cr	53	500.063	0.00	0.1905	0.094	49.378	ug/L
|	Mn	55	302490.185	0.77	23.8333	0.322	1.351	ug/L
|	Co	59	808.041	0.00	0.0578	0.003	4.331	ug/L
|	Ni	60	4188.253	0.01	1.8674	0.039	2.079	ug/L
|	Cu	65	1263.092	0.00	0.5212	0.012	2.305	ug/L
|	Zn	66	4517.732	0.01	3.5265	0.054	1.539	ug/L
|>	Ge	72	393004.250	393004.25				ug/L
|	As	75	125.415	0.00	0.3743	0.031	8.317	ug/L
|	Se	77	60.006	-0.00	-0.3575	0.563	157.584	ug/L
|	Se	82	122.081	0.00	1.4600	0.265	18.149	ug/L
⌊	Rb	85	2557.353	0.01				mg/L
	Y	89	216520.854	1945.21				ug/L
	Rh	103	198.004	189.34				ug/L
⌈	Mo	98	36.270	0.00	0.0069	0.002	27.448	ug/L
|	Ag	107	15.667	0.00	-0.0130	0.000	2.507	ug/L
|	Cd	114	13.570	-0.00	-0.0324	0.005	13.922	ug/L
|>	In	115	304176.955	304176.96				ug/L
|	Sn	118	708.558	-0.00	-0.0106	0.007	63.259	ug/L
⌊	Sb	123	43.746	0.00	0.0220	0.002	10.335	ug/L
⌈	Ba	135	650.694	0.00	0.4218	0.030	7.146	ug/L
|	Ce	140	110.012	0.00				ug/L
⌊>	Tb	159	396945.138	396945.14				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	30.000	0.00	0.0036	0.001	20.920	ug/L
|	Tl	205	60.006	0.00	0.0212	0.002	8.355	ug/L
|	Pb	206	350.676	0.00	-0.0007	0.003	470.497	ug/L
|	Pb	207	306.674	0.00	0.0089	0.001	12.925	ug/L
|	Pb	208	1364.383	0.00	-0.0009	0.002	197.167	ug/L
|	U	238	42070.073	0.10	1.3549	0.019	1.436	ug/L
⌊>	Bi	209	404811.714	404811.71				ug/L

Sample ID: L1011037802
Report Date/Time: Monday, November 22, 2010 14:44:13
Page 1

Approved: November 23, 2010

Na	23	318774602.534	1081.33	65.1849	1.846	2.832	mg/L
Mg	24	81925408.182	277.86	27.6611	0.585	2.114	mg/L
K	39	6497765.838	20.45	0.7493	0.001	0.143	mg/L
Ca	43	367284.997	1.24	18.5495	0.176	0.950	mg/L
Fe	54	63225.455	0.02	0.0102	0.004	38.332	mg/L
Fe	57	26410.972	0.06	0.0681	0.011	15.942	mg/L
Sc-1	45	294885.630	294885.63				mg/L
Cl	35	163224.034	141046.13				mg/L
Kr	83	29.334	-2.67				mg/L
Br	81	62606.771	52969.46				mg/L
P	31	12243.506	1719.27				mg/L
S	34	2537114.638	2352372.15				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		103.990			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		108.544			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		112.853			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		105.683			
Na	23					

Sample ID: L1011037802
Report Date/Time: Monday, November 22, 2010 14:44:13
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011037803

Sample Date/Time: Monday, November 22, 2010 14:48:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 36
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36366.048	0.02				ug/L
|	Be	9	3.333	-0.00	0.0179	0.007	36.733	ug/L
|	Al	27	20487.699	0.06	2.8256	0.182	6.443	ug/L
⌊>	Sc	45	298439.641	298439.64				ug/L
⌈	Ti	49	1423.578	0.00	2.3432	0.325	13.867	ug/L
|	V	51	3449.373	0.00	0.0602	0.008	12.973	ug/L
|	Cr	52	10865.009	0.00	0.1996	0.041	20.428	ug/L
|	Cr	53	520.067	0.00	0.2223	0.186	83.704	ug/L
|	Mn	55	155776.307	0.40	12.5180	0.397	3.174	ug/L
|	Co	59	685.364	0.00	0.0474	0.002	3.806	ug/L
|	Ni	60	2739.403	0.01	1.2363	0.062	4.980	ug/L
|	Cu	65	939.720	0.00	0.3763	0.017	4.543	ug/L
|	Zn	66	3247.560	0.01	2.5265	0.100	3.942	ug/L
|>	Ge	72	384874.187	384874.19				ug/L
|	As	75	64.817	0.00	0.3010	0.006	2.125	ug/L
|	Se	77	130.014	0.00	0.8015	0.996	124.200	ug/L
|	Se	82	176.755	0.00	2.2101	0.068	3.081	ug/L
⌊	Rb	85	907.050	0.00				mg/L
	Y	89	215203.305	627.66				ug/L
	Rh	103	122.002	113.34				ug/L
⌈	Mo	98	85.937	0.00	0.0354	0.001	2.745	ug/L
|	Ag	107	10.667	-0.00	-0.0143	0.001	6.173	ug/L
|	Cd	114	6.648	-0.00	-0.0394	0.007	17.361	ug/L
|>	In	115	296874.656	296874.66				ug/L
|	Sn	118	652.155	-0.00	-0.0225	0.005	22.382	ug/L
⌊	Sb	123	48.455	0.00	0.0240	0.002	10.100	ug/L
⌈	Ba	135	515.352	0.00	0.3355	0.028	8.224	ug/L
|	Ce	140	176.686	0.00				ug/L
⌊>	Tb	159	390177.359	390177.36				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	21.667	0.00	0.0022	0.000	15.604	ug/L
|	Tl	205	36.670	0.00	0.0196	0.001	6.985	ug/L
|	Pb	206	409.346	0.00	0.0108	0.003	26.409	ug/L
|	Pb	207	371.344	0.00	0.0232	0.002	7.983	ug/L
|	Pb	208	1689.740	0.00	0.0147	0.001	8.611	ug/L
|	U	238	53601.816	0.13	1.7239	0.028	1.631	ug/L
⌊>	Bi	209	405781.153	405781.15				ug/L

Sample ID: L1011037803
Report Date/Time: Monday, November 22, 2010 14:50:57
Page 1

Approved: November 23, 2010

⌈	Na	23	212368866.390	711.47	42.8861	0.377	0.879	mg/L
|	Mg	24	51369445.130	172.15	17.1321	0.144	0.838	mg/L
|	K	39	3945221.019	11.64	0.4230	0.009	2.124	mg/L
|	Ca	43	374203.090	1.25	18.6841	0.571	3.054	mg/L
|	Fe	54	62268.523	0.02	0.0070	0.007	105.420	mg/L
|	Fe	57	25207.611	0.06	0.0619	0.004	6.449	mg/L
⌊>	Sc-1	45	298439.641	298439.64				mg/L
	Cl	35	149794.942	127617.04				mg/L
	Kr	83	28.667	-3.33				mg/L
	Br	81	52660.964	43023.65				mg/L
	P	31	12531.885	2007.65				mg/L
	S	34	1757854.177	1573111.69				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.838			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.938			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.928			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.936			
⌈	Na	23					

Sample ID: L1011037803
Report Date/Time: Monday, November 22, 2010 14:50:57
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011037803
Report Date/Time: Monday, November 22, 2010 14:50:57
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011037804

Sample Date/Time: Monday, November 22, 2010 14:55:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 37
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37353.018	0.02				ug/L
|	Be	9	4.667	-0.00	0.0219	0.003	15.270	ug/L
|	Al	27	18967.994	0.05	2.5989	0.142	5.480	ug/L
⌊>	Sc	45	296515.222	296515.22				ug/L
⌈	Ti	49	2620.607	0.01	4.3675	0.342	7.823	ug/L
|	V	51	3145.333	0.00	0.0310	0.018	59.707	ug/L
|	Cr	52	11358.561	0.01	0.2818	0.007	2.453	ug/L
|	Cr	53	756.771	0.00	0.4914	0.121	24.556	ug/L
|	Mn	55	21877.794	0.06	1.7508	0.021	1.221	ug/L
|	Co	59	497.017	0.00	0.0294	0.002	6.633	ug/L
|	Ni	60	2487.334	0.01	1.1330	0.027	2.407	ug/L
|	Cu	65	1501.128	0.00	0.6588	0.013	1.959	ug/L
|	Zn	66	6399.111	0.02	5.2712	0.104	1.979	ug/L
|>	Ge	72	380236.796	380236.80				ug/L
|	As	75	135.037	0.00	0.3910	0.104	26.553	ug/L
|	Se	77	126.680	0.00	0.7686	0.340	44.180	ug/L
|	Se	82	173.746	0.00	2.1980	0.090	4.111	ug/L
⌊	Rb	85	1630.483	0.00				mg/L
	Y	89	211858.373	-2717.27				ug/L
	Rh	103	108.668	100.00				ug/L
⌈	Mo	98	84.161	0.00	0.0358	0.008	23.057	ug/L
|	Ag	107	16.667	0.00	-0.0125	0.001	11.006	ug/L
|	Cd	114	7.088	-0.00	-0.0387	0.004	9.344	ug/L
|>	In	115	289082.158	289082.16				ug/L
|	Sn	118	644.421	-0.00	-0.0196	0.006	32.714	ug/L
⌊	Sb	123	36.707	0.00	0.0203	0.003	12.429	ug/L
⌈	Ba	135	726.034	0.00	0.4945	0.011	2.130	ug/L
|	Ce	140	86.676	0.00				ug/L
⌊>	Tb	159	380343.529	380343.53				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	29.000	0.00	0.0037	0.001	22.400	ug/L
|	Tl	205	40.004	0.00	0.0200	0.001	6.907	ug/L
|	Pb	206	325.009	-0.00	-0.0027	0.004	146.194	ug/L
|	Pb	207	283.674	0.00	0.0066	0.002	35.328	ug/L
|	Pb	208	1335.716	0.00	0.0007	0.000	40.104	ug/L
|	U	238	52483.892	0.14	1.7703	0.024	1.351	ug/L
⌊>	Bi	209	386954.556	386954.56				ug/L

Sample ID: L1011037804
Report Date/Time: Monday, November 22, 2010 14:57:41
Page 1

Approved: November 23, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	54310777.769	183.18	18.2307	0.567	3.109	mg/L
|	K	39	5771841.234	17.88	0.6542	0.013	1.965	mg/L
|	Ca	43	338531.633	1.14	17.0040	0.191	1.123	mg/L
|	Fe	54	63227.083	0.02	0.0096	0.003	35.926	mg/L
|	Fe	57	25388.072	0.06	0.0633	0.002	3.720	mg/L
⌊>	Sc-1	45	296515.222	296515.22				mg/L
	Cl	35	401498.078	379320.18				mg/L
	Kr	83	29.667	-2.33				mg/L
	Br	81	71424.209	61786.90				mg/L
	P	31	12459.772	1935.54				mg/L
	S	34	3159737.320	2974994.83				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.611			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.158			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.133			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.021			
⌈	Na	23					

Sample ID: L1011037804
Report Date/Time: Monday, November 22, 2010 14:57:41
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011037805

Sample Date/Time: Monday, November 22, 2010 15:02:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37470.089	0.02				ug/L
|	Be	9	6.000	0.00	0.0260	0.000	0.837	ug/L
|	Al	27	57213.209	0.18	8.9558	0.096	1.069	ug/L
⌊>	Sc	45	294473.229	294473.23				ug/L
⌈	Ti	49	2347.179	0.01	3.9447	0.417	10.564	ug/L
|	V	51	3579.703	0.00	0.0829	0.014	17.224	ug/L
|	Cr	52	11405.282	0.01	0.3019	0.032	10.742	ug/L
|	Cr	53	646.752	0.00	0.3768	0.076	20.230	ug/L
|	Mn	55	4207.260	0.01	0.3130	0.003	1.072	ug/L
|	Co	59	434.014	0.00	0.0235	0.003	12.065	ug/L
|	Ni	60	2329.295	0.01	1.0690	0.021	1.956	ug/L
|	Cu	65	1347.438	0.00	0.5892	0.012	2.002	ug/L
|	Zn	66	7742.407	0.02	6.4875	0.127	1.953	ug/L
|>	Ge	72	376778.096	376778.10				ug/L
|	As	75	-7.923	0.00	0.2086	0.057	27.384	ug/L
|	Se	77	90.009	0.00	0.1815	0.439	242.182	ug/L
|	Se	82	76.442	0.00	0.9149	0.150	16.403	ug/L
⌊	Rb	85	1232.755	0.00				mg/L
	Y	89	212941.578	-1634.07				ug/L
	Rh	103	165.003	156.34				ug/L
⌈	Mo	98	127.349	0.00	0.0606	0.007	10.892	ug/L
|	Ag	107	19.334	0.00	-0.0118	0.000	3.376	ug/L
|	Cd	114	8.223	-0.00	-0.0375	0.009	24.299	ug/L
|>	In	115	289567.558	289567.56				ug/L
|	Sn	118	611.752	-0.00	-0.0300	0.005	15.949	ug/L
⌊	Sb	123	44.788	0.00	0.0231	0.003	11.909	ug/L
⌈	Ba	135	743.368	0.00	0.5018	0.006	1.250	ug/L
|	Ce	140	326.705	0.00				ug/L
⌊>	Tb	159	383780.894	383780.89				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	32.000	0.00	0.0042	0.000	11.108	ug/L
|	Tl	205	60.006	0.00	0.0214	0.001	5.662	ug/L
|	Pb	206	377.678	0.00	0.0071	0.004	59.738	ug/L
|	Pb	207	335.009	0.00	0.0177	0.007	37.872	ug/L
|	Pb	208	1532.728	0.00	0.0097	0.001	12.224	ug/L
|	U	238	23338.770	0.06	0.7733	0.012	1.561	ug/L
⌊>	Bi	209	392220.125	392220.13				ug/L

Sample ID: L1011037805
Report Date/Time: Monday, November 22, 2010 15:04:38
Page 1

Approved: November 23, 2010

⌈	Na	23	350628566.425	1190.82	71.7859	1.195	1.664	mg/L
|	Mg	24	86832185.215	294.89	29.3570	0.255	0.868	mg/L
|	K	39	6573693.739	20.74	0.7601	0.022	2.952	mg/L
|	Ca	43	341138.633	1.16	17.2548	0.273	1.580	mg/L
|	Fe	54	64772.425	0.03	0.0134	0.003	19.743	mg/L
|	Fe	57	26624.811	0.06	0.0690	0.006	8.117	mg/L
⌊>	Sc-1	45	294473.229	294473.23				mg/L
	Cl	35	211124.070	188946.17				mg/L
	Kr	83	26.000	-6.00				mg/L
	Br	81	38850.672	29213.36				mg/L
	P	31	13224.093	2699.86				mg/L
	S	34	2644025.005	2459282.51				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.696			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.331			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.110			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.395			
⌈	Na	23					

Sample ID: L1011037805
Report Date/Time: Monday, November 22, 2010 15:04:38

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011037805
Report Date/Time: Monday, November 22, 2010 15:04:38

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011042002

Sample Date/Time: Monday, November 22, 2010 15:10:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 32
Method File: C:\elandata\Method\6020a.mth
Sample Description: 50

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36332.583	0.02				ug/L
|	Be	9	4.000	-0.00	0.0203	0.016	79.452	ug/L
|	Al	27	4250.914	0.00	0.1918	0.104	53.987	ug/L
⌊>	Sc	45	290921.415	290921.41				ug/L
⌈	Ti	49	130.014	0.00	0.2130	0.058	27.160	ug/L
|	V	51	2600.407	-0.00	-0.0284	0.009	32.461	ug/L
|	Cr	52	10251.354	0.00	0.1410	0.009	6.116	ug/L
|	Cr	53	1770.335	0.00	1.6218	0.220	13.579	ug/L
|	Mn	55	59841.788	0.16	4.8659	0.042	0.862	ug/L
|	Co	59	185.004	0.00	-0.0017	0.001	39.308	ug/L
|	Ni	60	265.340	0.00	0.0908	0.008	8.868	ug/L
|	Cu	65	700.032	0.00	0.2651	0.001	0.408	ug/L
|	Zn	66	9944.709	0.03	8.3541	0.062	0.741	ug/L
|>	Ge	72	378724.727	378724.73				ug/L
|	As	75	2269.283	0.01	3.1317	0.302	9.648	ug/L
|	Se	77	180.020	0.00	1.6542	0.495	29.923	ug/L
|	Se	82	916.115	0.00	12.1095	1.180	9.744	ug/L
⌊	Rb	85	622.692	0.00				mg/L
	Y	89	216742.840	2167.19				ug/L
	Rh	103	39.334	30.67				ug/L
⌈	Mo	98	77.453	0.00	0.0314	0.004	12.041	ug/L
|	Ag	107	13.000	-0.00	-0.0136	0.001	5.249	ug/L
|	Cd	114	15.800	0.00	-0.0294	0.006	19.950	ug/L
|>	In	115	291803.886	291803.89				ug/L
|	Sn	118	588.951	-0.00	-0.0385	0.008	20.535	ug/L
⌊	Sb	123	52.495	0.00	0.0256	0.001	4.757	ug/L
⌈	Ba	135	29273.413	0.08	20.2985	0.464	2.288	ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	389632.595	389632.60				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	16.334	0.00	0.0014	0.000	29.397	ug/L
|	Tl	205	30.003	0.00	0.0192	0.001	5.970	ug/L
|	Pb	206	403.346	0.00	0.0101	0.006	60.943	ug/L
|	Pb	207	342.009	0.00	0.0172	0.006	33.772	ug/L
|	Pb	208	1606.401	0.00	0.0112	0.003	26.282	ug/L
|	U	238	1497.127	0.00	0.0426	0.001	1.907	ug/L
⌊>	Bi	209	403262.245	403262.25				ug/L

Sample ID: L1011042002
Report Date/Time: Monday, November 22, 2010 15:12:19
Page 1

Approved: November 23, 2010

⌈	Na	23	262267216.980	901.44	54.3395	0.745	1.371	mg/L
|	Mg	24	1819134.697	6.25	0.6093	0.014	2.313	mg/L
|	K	39	1403977.265	3.24	0.1120	0.005	4.514	mg/L
|	Ca	43	23466.516	0.08	1.1957	0.027	2.253	mg/L
|	Fe	54	54998.607	-0.00	-0.0042	0.002	43.936	mg/L
|	Fe	57	11137.319	0.01	0.0070	0.002	27.132	mg/L
⌊>	Sc-1	45	290921.415	290921.41				mg/L
	Cl	35	1308017.176	1285839.27				mg/L
	Kr	83	31.334	-0.67				mg/L
	Br	81	492207.020	482569.71				mg/L
	P	31	11150.254	626.02				mg/L
	S	34	248394.183	63651.69				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.211			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.129			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.774			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.278			
⌈	Na	23					

Sample ID: L1011042002
Report Date/Time: Monday, November 22, 2010 15:12:19
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 22, 2010 15:16:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32970.979	0.01				ug/L
|	Be	9	17317.654	0.06	53.4209	0.755	1.413	ug/L
|	Al	27	315208.159	1.10	53.5722	1.067	1.992	ug/L
⌊>	Sc	45	284250.266	284250.27				ug/L
⌈	Ti	49	56893.747	0.15	94.1800	1.628	1.729	ug/L
|	V	51	460087.430	1.19	50.3792	1.243	2.467	ug/L
|	Cr	52	401881.137	1.03	51.4534	0.459	0.892	ug/L
|	Cr	53	47373.356	0.12	51.7105	1.007	1.947	ug/L
|	Mn	55	643077.648	1.68	52.0168	1.361	2.616	ug/L
|	Co	59	525581.717	1.37	52.0030	0.511	0.982	ug/L
|	Ni	60	111677.038	0.29	51.9899	1.204	2.315	ug/L
|	Cu	65	105930.501	0.28	51.7777	0.213	0.412	ug/L
|	Zn	66	58708.754	0.15	49.8854	0.712	1.427	ug/L
| >	Ge	72	383110.494	383110.49				ug/L
|	As	75	38643.978	0.10	49.2583	0.980	1.990	ug/L
|	Se	77	3157.485	0.01	50.0016	5.664	11.327	ug/L
|	Se	82	3774.876	0.01	49.6655	0.664	1.336	ug/L
⌊	Rb	85	1274.427	0.00				mg/L
	Y	89	223240.023	8664.38				ug/L
	Rh	103	20.000	11.33				ug/L
⌈	Mo	98	169377.698	0.56	94.2660	2.894	3.070	ug/L
|	Ag	107	183648.402	0.61	49.4790	0.329	0.664	ug/L
|	Cd	114	46313.551	0.15	48.6114	0.314	0.646	ug/L
| >	In	115	300985.600	300985.60				ug/L
|	Sn	118	166094.708	0.55	49.3639	1.052	2.130	ug/L
⌊	Sb	123	148514.040	0.49	49.5046	1.165	2.353	ug/L
⌈	Ba	135	71578.001	0.18	48.7640	0.378	0.775	ug/L
|	Ce	140	206.689	0.00				ug/L
⌊>	Tb	159	396730.087	396730.09				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	308967.849	0.72	49.1176	0.728	1.481	ug/L
|	Tl	205	763860.067	1.79	48.7321	0.814	1.669	ug/L
|	Pb	206	261795.670	0.61	49.1322	1.099	2.237	ug/L
|	Pb	207	229995.573	0.54	49.0644	0.476	0.970	ug/L
|	Pb	208	1069819.614	2.51	49.2208	0.876	1.779	ug/L
|	U	238	1685640.039	3.95	51.7822	1.038	2.004	ug/L
⌊>	Bi	209	426313.419	426313.42				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 15:19:04
Page 1

Approved: November 23, 2010

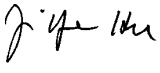
Na	23	25268152.075	88.85	5.3486	0.016	0.306	mg/L
Mg	24	15529470.934	54.64	5.4282	0.056	1.036	mg/L
K	39	40215891.578	139.92	5.1737	0.129	2.502	mg/L
Ca	43	97634.042	0.34	5.1116	0.077	1.514	mg/L
Fe	54	2705147.254	9.33	5.3033	0.117	2.216	mg/L
Fe	57	1335337.693	4.67	5.5500	0.261	4.697	mg/L
> Sc-1	45	284250.266	284250.27				mg/L
Cl	35	23585.114	1407.21				mg/L
Kr	83	25.000	-7.00				mg/L
Br	81	22931.665	13294.36				mg/L
P	31	11556.010	1031.78				mg/L
S	34	228838.107	44095.61				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	100.758				
Cr	52	102.907				
Cr	53					
Mn	55	104.034				
Co	59	104.006				
Ni	60	103.980				
Cu	65	103.555				
Zn	66	99.771				
> Ge	72		101.372			
As	75	98.517				
Se	77					
Se	82	99.331				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.958				
Cd	114	97.223				
> In	115		107.405			
Sn	118					
Sb	123	99.009				
Ba	135	97.528				
Ce	140					
> Tb	159		112.791			
Ho	165					
Tl	203	98.235				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.442				
U	238	103.564				
> Bi	209		111.296			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 15:19:04

Approved: November 23, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 15:19:04

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 22, 2010 15:23:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35128.378	0.02				ug/L
|	Be	9	4.000	-0.00	0.0204	0.007	32.232	ug/L
|	Al	27	2366.953	-0.00	-0.1211	0.089	73.402	ug/L
⌊>	Sc	45	290085.507	290085.51				ug/L
⌈	Ti	49	30.003	-0.00	0.0447	0.033	72.751	ug/L
|	V	51	2721.011	-0.00	-0.0194	0.003	14.204	ug/L
|	Cr	52	8856.008	-0.00	-0.0612	0.011	17.806	ug/L
|	Cr	53	380.045	0.00	0.0698	0.091	130.205	ug/L
|	Mn	55	310.341	0.00	-0.0082	0.001	13.775	ug/L
|	Co	59	76.001	0.00	-0.0127	0.001	8.492	ug/L
|	Ni	60	23.000	0.00	-0.0235	0.004	15.337	ug/L
|	Cu	65	141.336	0.00	-0.0125	0.008	64.156	ug/L
|	Zn	66	264.673	0.00	-0.0080	0.016	196.529	ug/L
|>	Ge	72	384359.908	384359.91				ug/L
|	As	75	-150.990	0.00	0.0284	0.046	161.072	ug/L
|	Se	77	100.011	0.00	0.3166	0.497	157.027	ug/L
|	Se	82	26.093	0.00	0.2329	0.151	64.888	ug/L
⌊	Rb	85	9.333	-0.00				mg/L
	Y	89	228660.861	14085.21				ug/L
	Rh	103	5.000	-3.67				ug/L
⌈	Mo	98	89.787	0.00	0.0358	0.008	23.425	ug/L
|	Ag	107	20.334	0.00	-0.0118	0.002	13.582	ug/L
|	Cd	114	14.243	0.00	-0.0319	0.008	25.523	ug/L
|>	In	115	307660.467	307660.47				ug/L
|	Sn	118	710.825	-0.00	-0.0123	0.005	40.129	ug/L
⌊	Sb	123	252.460	0.00	0.0898	0.011	12.150	ug/L
⌈	Ba	135	8.000	-0.00	-0.0165	0.001	4.162	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	397901.501	397901.50				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	24.667	0.00	0.0024	0.001	26.088	ug/L
|	Tl	205	53.339	0.00	0.0205	0.003	12.510	ug/L
|	Pb	206	335.009	-0.00	-0.0094	0.001	11.622	ug/L
|	Pb	207	321.008	0.00	0.0059	0.007	123.581	ug/L
|	Pb	208	1409.387	-0.00	-0.0045	0.003	67.758	ug/L
|	U	238	70.334	0.00	-0.0039	0.000	6.688	ug/L
⌊>	Bi	209	442850.125	442850.12				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 15:25:47
Page 1

Approved: November 23, 2010

⌈	Na	23	33766.982	0.08	-0.0038	0.000	12.758	mg/L
|	Mg	24	576.741	0.00	-0.0134	0.000	0.206	mg/L
|	K	39	425291.952	-0.12	-0.0124	0.001	11.356	mg/L
|	Ca	43	146.682	0.00	0.0013	0.002	176.833	mg/L
|	Fe	54	52091.878	-0.01	-0.0095	0.004	44.546	mg/L
|	Fe	57	8354.324	0.00	-0.0043	0.001	26.482	mg/L
⌊>	Sc-1	45	290085.507	290085.51				mg/L
	Cl	35	22190.597	12.70				mg/L
	Kr	83	27.667	-4.33				mg/L
	Br	81	20710.090	11072.78				mg/L
	P	31	11050.162	525.93				mg/L
	S	34	221250.352	36507.86				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.702			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.787			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		113.124			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		115.613			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 15:25:47
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 15:25:47

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QCMRL WG349360-03

Sample Date/Time: Monday, November 22, 2010 15:31:29
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 58
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33088.010	0.00				ug/L
|	Be	9	2.667	-0.00	0.0159	0.009	56.139	ug/L
|	Al	27	2633.686	-0.00	-0.0953	0.072	75.014	ug/L
⌊>	Sc	45	301925.223	301925.22				ug/L
⌈	Ti	49	46.671	-0.00	0.0728	0.051	70.488	ug/L
|	V	51	4842.844	0.01	0.2144	0.007	3.402	ug/L
|	Cr	52	12455.210	0.01	0.4111	0.017	4.033	ug/L
|	Cr	53	800.112	0.00	0.5316	0.086	16.179	ug/L
|	Mn	55	3818.434	0.01	0.2753	0.012	4.215	ug/L
|	Co	59	2322.960	0.01	0.2093	0.008	4.021	ug/L
|	Ni	60	2078.570	0.01	0.9323	0.040	4.257	ug/L
|	Cu	65	1019.062	0.00	0.4164	0.027	6.603	ug/L
|	Zn	66	5987.519	0.01	4.8685	0.179	3.675	ug/L
| >	Ge	72	383886.491	383886.49				ug/L
|	As	75	-44.829	0.00	0.1624	0.013	7.968	ug/L
|	Se	77	73.341	0.00	-0.1156	0.502	433.969	ug/L
|	Se	82	28.676	0.00	0.2674	0.058	21.553	ug/L
⌊	Rb	85	12.667	-0.00				mg/L
	Y	89	228374.877	13799.23				ug/L
	Rh	103	5.667	-3.00				ug/L
⌈	Mo	98	34.598	0.00	0.0058	0.001	18.643	ug/L
|	Ag	107	803.707	0.00	0.1953	0.002	1.219	ug/L
|	Cd	114	122.183	0.00	0.0795	0.018	22.693	ug/L
| >	In	115	306759.400	306759.40				ug/L
|	Sn	118	597.885	-0.00	-0.0447	0.004	8.235	ug/L
⌊	Sb	123	660.609	0.00	0.2236	0.005	2.312	ug/L
⌈	Ba	135	545.687	0.00	0.3558	0.033	9.367	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	390685.496	390685.50				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	282.007	0.00	0.0422	0.000	0.903	ug/L
|	Tl	205	666.756	0.00	0.0585	0.003	5.349	ug/L
|	Pb	206	1443.119	0.00	0.1934	0.004	1.904	ug/L
|	Pb	207	1294.097	0.00	0.2085	0.008	3.946	ug/L
|	Pb	208	5895.412	0.01	0.1968	0.005	2.783	ug/L
|	U	238	7067.567	0.02	0.2050	0.001	0.431	ug/L
⌊>	Bi	209	438759.478	438759.48				ug/L

Sample ID: QCMRL WG349360-03
Report Date/Time: Monday, November 22, 2010 15:33:41
Page 1

Approved: November 23, 2010

⌈	Na	23	32960.870	0.07	-0.0043	0.000	4.502	mg/L
|	Mg	24	560.072	0.00	-0.0134	0.000	0.201	mg/L
|	K	39	438915.241	-0.13	-0.0129	0.002	11.646	mg/L
|	Ca	43	143.349	-0.00	0.0008	0.002	256.264	mg/L
|	Fe	54	54306.225	-0.01	-0.0094	0.004	41.731	mg/L
|	Fe	57	8657.949	0.00	-0.0044	0.002	42.665	mg/L
⌊>	Sc-1	45	301925.223	301925.22				mg/L
	Cl	35	21947.392	-230.51				mg/L
	Kr	83	37.334	5.33				mg/L
	Br	81	17219.484	7582.17				mg/L
	P	31	11417.206	892.97				mg/L
	S	34	221817.990	37075.50				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.577			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.466			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.073			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		114.545			
⌈	Na	23					

Sample ID: QCMRL WG349360-03
Report Date/Time: Monday, November 22, 2010 15:33:41
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QCMRL WG349360-03
Report Date/Time: Monday, November 22, 2010 15:33:41
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: PBW 75 WG349181-02

Sample Date/Time: Monday, November 22, 2010 15:38:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 59
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33656.861	0.01				ug/L
|	Be	9	4.000	-0.00	0.0200	0.006	32.179	ug/L
|	Al	27	3183.841	0.00	-0.0045	0.032	714.805	ug/L
⌊>	Sc	45	300556.494	300556.49				ug/L
⌈	Ti	49	50.005	0.00	0.0781	0.033	41.924	ug/L
|	V	51	2896.862	0.00	0.0014	0.001	95.566	ug/L
|	Cr	52	9256.041	0.00	-0.0036	0.011	317.645	ug/L
|	Cr	53	243.361	-0.00	-0.0780	0.018	23.667	ug/L
|	Mn	55	430.680	0.00	0.0017	0.001	86.374	ug/L
|	Co	59	75.001	0.00	-0.0127	0.002	12.392	ug/L
|	Ni	60	101.002	0.00	0.0129	0.003	20.741	ug/L
|	Cu	65	140.669	0.00	-0.0126	0.001	10.137	ug/L
|	Zn	66	1592.810	0.00	1.1283	0.056	4.941	ug/L
|>	Ge	72	382659.567	382659.57				ug/L
|	As	75	-134.476	0.00	0.0482	0.038	78.990	ug/L
|	Se	77	73.341	0.00	-0.1119	0.344	307.715	ug/L
|	Se	82	23.792	0.00	0.2040	0.106	52.130	ug/L
⌊	Rb	85	14.667	0.00				mg/L
	Y	89	224923.695	10348.05				ug/L
	Rh	103	4.000	-4.67				ug/L
⌈	Mo	98	28.416	0.00	0.0026	0.004	147.521	ug/L
|	Ag	107	13.667	-0.00	-0.0136	0.001	6.056	ug/L
|	Cd	114	0.935	-0.00	-0.0455	0.001	1.618	ug/L
|>	In	115	304053.021	304053.02				ug/L
|	Sn	118	569.616	-0.00	-0.0515	0.008	15.666	ug/L
⌊	Sb	123	67.912	0.00	0.0300	0.001	4.964	ug/L
⌈	Ba	135	17.334	0.00	-0.0100	0.002	18.809	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	392499.286	392499.29				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	13.333	0.00	0.0007	0.000	13.812	ug/L
|	Tl	205	43.338	0.00	0.0199	0.001	6.444	ug/L
|	Pb	206	331.675	-0.00	-0.0095	0.002	22.654	ug/L
|	Pb	207	314.675	0.00	0.0052	0.002	43.789	ug/L
|	Pb	208	1406.053	-0.00	-0.0041	0.002	44.445	ug/L
|	U	238	12.000	-0.00	-0.0056	0.000	0.952	ug/L
⌊>	Bi	209	438572.398	438572.40				ug/L

Sample ID: PBW 75 WG349181-02
Report Date/Time: Monday, November 22, 2010 15:40:31
Page 1

Approved: November 23, 2010

Na	23	31599.676	0.06	-0.0045	0.000	5.405	mg/L	
Mg	24	713.430	0.00	-0.0133	0.000	0.041	mg/L	
K	39	445672.028	-0.10	-0.0117	0.003	26.662	mg/L	
Ca	43	120.013	-0.00	-0.0004	0.002	412.216	mg/L	
Fe	54	54017.744	-0.01	-0.0094	0.004	42.338	mg/L	
Fe	57	8364.338	-0.00	-0.0054	0.003	56.283	mg/L	
Sc-1	45	300556.494	300556.49				mg/L	
Cl	35	22189.258	11.36				mg/L	
Kr	83	24.000	-8.00				mg/L	
Br	81	16024.833	6387.52				mg/L	
P	31	11261.677	737.44				mg/L	
S	34	221708.968	36966.48				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.252			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		108.500			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		111.589			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		114.496			
Na	23					

Sample ID: PBW 75 WG349181-02
Report Date/Time: Monday, November 22, 2010 15:40:31
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 75 WG349181-02
Report Date/Time: Monday, November 22, 2010 15:40:31
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: F BLANK WG349144-01

Sample Date/Time: Monday, November 22, 2010 15:45:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 60
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31433.009	-0.00				ug/L
|	Be	9	3.333	-0.00	0.0178	0.003	18.765	ug/L
|	Al	27	3200.532	0.00	-0.0062	0.131	2100.632	ug/L
⌊>	Sc	45	303332.076	303332.08				ug/L
⌈	Ti	49	33.337	-0.00	0.0499	0.019	38.056	ug/L
|	V	51	2899.553	0.00	-0.0026	0.006	242.497	ug/L
|	Cr	52	9166.624	-0.00	-0.0311	0.008	25.094	ug/L
|	Cr	53	260.029	-0.00	-0.0636	0.010	15.378	ug/L
|	Mn	55	378.011	0.00	-0.0030	0.002	53.026	ug/L
|	Co	59	83.335	0.00	-0.0120	0.000	3.548	ug/L
|	Ni	60	38.334	0.00	-0.0166	0.002	13.501	ug/L
|	Cu	65	127.669	0.00	-0.0198	0.003	17.703	ug/L
|	Zn	66	1535.800	0.00	1.0621	0.014	1.344	ug/L
| >	Ge	72	387755.645	387755.65				ug/L
|	As	75	-138.431	0.00	0.0456	0.022	47.955	ug/L
|	Se	77	70.007	0.00	-0.1826	0.275	150.804	ug/L
|	Se	82	12.076	0.00	0.0478	0.053	111.054	ug/L
⌊	Rb	85	10.667	-0.00				mg/L
	Y	89	226976.115	12400.47				ug/L
	Rh	103	4.000	-4.67				ug/L
⌈	Mo	98	24.603	0.00	0.0005	0.001	212.667	ug/L
|	Ag	107	12.667	-0.00	-0.0138	0.000	0.979	ug/L
|	Cd	114	11.205	-0.00	-0.0348	0.003	9.592	ug/L
| >	In	115	304084.411	304084.41				ug/L
|	Sn	118	530.414	-0.00	-0.0631	0.003	5.201	ug/L
⌊	Sb	123	39.662	0.00	0.0207	0.002	9.075	ug/L
⌈	Ba	135	9.667	-0.00	-0.0152	0.001	6.527	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	389548.389	389548.39				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	13.000	0.00	0.0007	0.001	88.635	ug/L
|	Tl	205	26.669	0.00	0.0189	0.001	3.844	ug/L
|	Pb	206	365.010	-0.00	-0.0028	0.003	121.437	ug/L
|	Pb	207	312.341	0.00	0.0054	0.006	112.080	ug/L
|	Pb	208	1423.054	0.00	-0.0027	0.001	42.600	ug/L
|	U	238	9.333	-0.00	-0.0057	0.000	0.838	ug/L
⌊>	Bi	209	434639.100	434639.10				ug/L

Approved: November 23, 2010

Na	23	29128.613	0.06	-0.0051	0.000	2.750	mg/L
Mg	24	586.743	0.00	-0.0134	0.000	0.050	mg/L
K	39	447164.231	-0.11	-0.0122	0.001	8.361	mg/L
Ca	43	120.013	-0.00	-0.0004	0.000	15.457	mg/L
Fe	54	55478.463	-0.01	-0.0077	0.004	50.181	mg/L
Fe	57	8781.399	0.00	-0.0041	0.001	12.788	mg/L
Sc-1	45	303332.076	303332.08				mg/L
Cl	35	22057.634	-120.27				mg/L
Kr	83	29.667	-2.33				mg/L
Br	81	14836.335	5199.03				mg/L
P	31	11204.277	680.04				mg/L
S	34	223939.288	39196.80				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		102.601			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		108.511			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		110.750			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		113.469			
Na	23					

Sample ID: F BLANK WG349144-01
Report Date/Time: Monday, November 22, 2010 15:47:16
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: F BLANK WG349144-01
Report Date/Time: Monday, November 22, 2010 15:47:16
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: LCSW 75 WG349181-03

Sample Date/Time: Monday, November 22, 2010 15:51:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 61
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31917.605	0.00				ug/L
|	Be	9	8477.592	0.03	25.1109	0.974	3.880	ug/L
|	Al	27	160308.968	0.53	25.8783	1.037	4.008	ug/L
⌊>	Sc	45	296311.335	296311.34				ug/L
⌈	Ti	49	76.675	0.00	0.1213	0.009	7.740	ug/L
|	V	51	245036.665	0.63	26.4761	0.328	1.239	ug/L
|	Cr	52	218403.524	0.54	27.1904	0.265	0.976	ug/L
|	Cr	53	25160.835	0.06	27.0926	1.219	4.501	ug/L
|	Mn	55	334720.602	0.87	26.8522	0.368	1.371	ug/L
|	Co	59	276168.977	0.72	27.1089	0.124	0.458	ug/L
|	Ni	60	57758.919	0.15	26.6681	0.364	1.366	ug/L
|	Cu	65	55583.641	0.14	26.9247	0.497	1.846	ug/L
|	Zn	66	30506.433	0.08	25.6120	0.121	0.474	ug/L
|>	Ge	72	386009.904	386009.90				ug/L
|	As	75	19329.306	0.05	24.5615	0.700	2.852	ug/L
|	Se	77	1673.641	0.00	25.7009	2.410	9.377	ug/L
|	Se	82	1915.905	0.00	24.9638	0.651	2.607	ug/L
⌊	Rb	85	28.000	0.00				mg/L
	Y	89	221523.087	6947.44				ug/L
	Rh	103	10.333	1.67				ug/L
⌈	Mo	98	35.895	0.00	0.0066	0.003	43.615	ug/L
|	Ag	107	98036.609	0.32	25.9724	0.105	0.404	ug/L
|	Cd	114	24271.171	0.08	25.0429	0.821	3.276	ug/L
|>	In	115	305964.744	305964.74				ug/L
|	Sn	118	582.817	-0.00	-0.0487	0.002	4.054	ug/L
⌊	Sb	123	76677.543	0.25	25.1437	0.496	1.972	ug/L
⌈	Ba	135	35746.807	0.09	24.7664	0.388	1.568	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	390002.806	390002.81				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	161541.702	0.37	25.1867	0.351	1.392	ug/L
|	Tl	205	397555.114	0.91	24.8849	0.444	1.784	ug/L
|	Pb	206	135948.587	0.31	24.9871	0.213	0.851	ug/L
|	Pb	207	118889.802	0.27	24.8471	0.343	1.379	ug/L
|	Pb	208	551918.783	1.27	24.8712	0.256	1.031	ug/L
|	U	238	848572.878	1.95	25.5615	0.240	0.937	ug/L
⌊>	Bi	209	434613.687	434613.69				ug/L

Sample ID: LCSW 75 WG349181-03
Report Date/Time: Monday, November 22, 2010 15:54:01
Page 1

Approved: November 23, 2010

⌈	Na	23	50750.361	0.13	-0.0005	0.001	120.200	mg/L
|	Mg	24	1997.066	0.01	-0.0129	0.000	0.266	mg/L
|	K	39	463154.819	-0.02	-0.0088	0.002	17.333	mg/L
|	Ca	43	216.691	0.00	0.0046	0.002	49.701	mg/L
|	Fe	54	55239.415	-0.00	-0.0056	0.004	64.018	mg/L
|	Fe	57	8684.651	0.00	-0.0036	0.003	96.409	mg/L
⌊>	Sc-1	45	296311.335	296311.34				mg/L
	Cl	35	22107.745	-70.16				mg/L
	Kr	83	35.000	3.00				mg/L
	Br	81	12851.588	3214.28				mg/L
	P	31	11385.161	860.93				mg/L
	S	34	222623.729	37881.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.139			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.182			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.879			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		113.463			
⌈	Na	23					

Sample ID: LCSW 75 WG349181-03
Report Date/Time: Monday, November 22, 2010 15:54:01
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011054403 WG349181-06

Sample Date/Time: Monday, November 22, 2010 15:58:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 62
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34342.301	0.01				ug/L
|	Be	9	5.333	-0.00	0.0240	0.009	37.955	ug/L
|	Al	27	182219.292	0.61	29.6519	6.276	21.164	ug/L
⌊>	Sc	45	295160.084	295160.08				ug/L
⌈	Ti	49	1203.527	0.00	2.0266	0.312	15.404	ug/L
|	V	51	3942.428	0.00	0.1249	0.009	6.911	ug/L
|	Cr	52	14496.311	0.01	0.7200	0.022	3.010	ug/L
|	Cr	53	720.098	0.00	0.4613	0.023	4.878	ug/L
|	Mn	55	54800.317	0.15	4.4908	0.065	1.445	ug/L
|	Co	59	671.696	0.00	0.0477	0.004	8.056	ug/L
|	Ni	60	3536.663	0.01	1.6465	0.116	7.038	ug/L
|	Cu	65	1144.077	0.00	0.4899	0.019	3.974	ug/L
|	Zn	66	3124.519	0.01	2.4875	0.038	1.547	ug/L
|>	Ge	72	375569.482	375569.48				ug/L
|	As	75	-68.324	0.00	0.1305	0.090	68.888	ug/L
|	Se	77	83.342	0.00	0.0771	0.393	509.918	ug/L
|	Se	82	27.108	0.00	0.2547	0.271	106.480	ug/L
⌊	Rb	85	911.384	0.00				mg/L
	Y	89	219012.447	4436.80				ug/L
	Rh	103	66.334	57.67				ug/L
⌈	Mo	98	356.795	0.00	0.1865	0.005	2.628	ug/L
|	Ag	107	25.334	0.00	-0.0103	0.002	20.055	ug/L
|	Cd	114	14.381	0.00	-0.0313	0.003	10.092	ug/L
|>	In	115	299464.032	299464.03				ug/L
|	Sn	118	675.890	-0.00	-0.0171	0.002	11.533	ug/L
⌊	Sb	123	579.102	0.00	0.2016	0.014	7.067	ug/L
⌈	Ba	135	8532.391	0.02	5.8971	0.165	2.799	ug/L
|	Ce	140	503.396	0.00				ug/L
⌊>	Tb	159	389941.914	389941.91				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	24.334	0.00	0.0027	0.001	26.953	ug/L
|	Tl	205	46.671	0.00	0.0203	0.001	6.955	ug/L
|	Pb	206	516.685	0.00	0.0316	0.007	20.835	ug/L
|	Pb	207	410.013	0.00	0.0316	0.004	14.225	ug/L
|	Pb	208	2052.772	0.00	0.0319	0.002	7.768	ug/L
|	U	238	1747.504	0.00	0.0502	0.002	3.839	ug/L
⌊>	Bi	209	407286.464	407286.46				ug/L

Approved: November 23, 2010

⌈	Na	23	80443621.736	272.57	16.4250	0.443	2.700	mg/L
|	Mg	24	4408859.613	14.94	1.4745	0.029	1.986	mg/L
|	K	39	3116539.965	8.97	0.3243	0.002	0.701	mg/L
|	Ca	43	552440.790	1.87	27.8759	0.389	1.396	mg/L
|	Fe	54	110705.956	0.18	0.1016	0.001	0.638	mg/L
|	Fe	57	36359.620	0.10	0.1080	0.004	4.151	mg/L
⌊>	Sc-1	45	295160.084	295160.08				mg/L
	Cl	35	65615.242	43437.34				mg/L
	Kr	83	26.000	-6.00				mg/L
	Br	81	15889.954	6252.64				mg/L
	P	31	22021.174	11496.94				mg/L
	S	34	1167341.380	982598.89				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.376			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.862			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.861			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		106.329			
⌈	Na	23					

Sample ID: L1011054403 WG349181-06
Report Date/Time: Monday, November 22, 2010 16:00:46
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011054403 WG349181-06
Report Date/Time: Monday, November 22, 2010 16:00:46
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011054404S WG349181-07

Sample Date/Time: Monday, November 22, 2010 16:05:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 63
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	33054.656	0.01				ug/L
|	Be	9	7825.729	0.03	23.5640	1.006	4.270	ug/L
|	Al	27	239434.064	0.81	39.5492	0.478	1.209	ug/L
⌊>	Sc	45	291419.500	291419.50				ug/L
⌜	Ti	49	913.467	0.00	1.5579	0.264	16.934	ug/L
|	V	51	243096.626	0.65	27.3636	0.204	0.746	ug/L
|	Cr	52	213498.521	0.55	27.7007	0.225	0.811	ug/L
|	Cr	53	25144.112	0.07	28.2047	0.923	3.274	ug/L
|	Mn	55	573445.602	1.55	47.9290	0.658	1.373	ug/L
|	Co	59	269277.521	0.73	27.5269	0.522	1.895	ug/L
|	Ni	60	62205.498	0.17	29.9129	0.198	0.661	ug/L
|	Cu	65	52604.220	0.14	26.5352	0.573	2.161	ug/L
|	Zn	66	28935.769	0.08	25.2943	0.425	1.680	ug/L
|>	Ge	72	370686.833	370686.83				ug/L
|	As	75	17780.804	0.05	23.5374	0.230	0.977	ug/L
|	Se	77	1503.598	0.00	23.9685	2.783	11.610	ug/L
|	Se	82	1577.964	0.00	21.3948	0.491	2.295	ug/L
⌊	Rb	85	1223.420	0.00				mg/L
	Y	89	211409.045	-3166.60				ug/L
	Rh	103	74.334	65.67				ug/L
⌜	Mo	98	170.642	0.00	0.0831	0.012	14.505	ug/L
|	Ag	107	86573.350	0.29	23.5887	0.156	0.660	ug/L
|	Cd	114	22809.539	0.08	24.1938	0.232	0.959	ug/L
|>	In	115	297500.824	297500.82				ug/L
|	Sn	118	729.093	-0.00	0.0004	0.008	2092.907	ug/L
⌊	Sb	123	73694.983	0.25	24.8500	0.104	0.417	ug/L
⌜	Ba	135	45367.487	0.12	31.4334	0.559	1.779	ug/L
|	Ce	140	603.412	0.00				ug/L
⌊>	Tb	159	390003.880	390003.88				ug/L
⌜	Ho	165	16.668	0.00				ug/L
|	Tl	203	156057.898	0.38	26.0280	0.278	1.068	ug/L
|	Tl	205	386244.437	0.95	25.8624	0.330	1.276	ug/L
|	Pb	206	132673.638	0.33	26.0929	0.233	0.893	ug/L
|	Pb	207	114178.957	0.28	25.5313	0.174	0.681	ug/L
|	Pb	208	536588.199	1.32	25.8727	0.242	0.933	ug/L
|	U	238	867604.611	2.14	27.9637	0.390	1.394	ug/L
⌊>	Bi	209	406242.084	406242.08				ug/L

Approved: November 23, 2010

⌈	Na	23	90306629.683	310.01	18.6821	0.856	4.581	mg/L
|	Mg	24	5205121.720	17.86	1.7656	0.043	2.436	mg/L
|	K	39	3136713.169	9.18	0.3319	0.006	1.712	mg/L
|	Ca	43	610276.611	2.09	31.2000	0.539	1.728	mg/L
|	Fe	54	101722.079	0.16	0.0869	0.007	8.085	mg/L
|	Fe	57	38311.017	0.10	0.1176	0.015	12.749	mg/L
⌊>	Sc-1	45	291419.500	291419.50				mg/L
	Cl	35	92452.752	70274.85				mg/L
	Kr	83	20.667	-11.33				mg/L
	Br	81	15082.701	5445.39				mg/L
	P	31	21356.788	10832.55				mg/L
	S	34	1339084.788	1154342.30				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.084			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.162			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.879			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		106.056			
⌈	Na	23					

Sample ID: L1011054404S WG349181-07
Report Date/Time: Monday, November 22, 2010 16:07:48
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011054404S WG349181-07
Report Date/Time: Monday, November 22, 2010 16:07:48
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011054405SD WG349181-08

Sample Date/Time: Monday, November 22, 2010 16:12:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 64
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33606.558	0.01				ug/L
|	Be	9	7913.797	0.03	24.0707	0.953	3.960	ug/L
|	Al	27	180005.825	0.61	29.9236	1.117	3.734	ug/L
⌊>	Sc	45	288679.014	288679.01				ug/L
⌈	Ti	49	670.089	0.00	1.1562	0.051	4.434	ug/L
|	V	51	238429.339	0.64	27.1687	0.475	1.749	ug/L
|	Cr	52	210740.677	0.55	27.6816	0.165	0.598	ug/L
|	Cr	53	23493.251	0.06	26.6665	0.592	2.221	ug/L
|	Mn	55	486222.136	1.33	41.1416	0.585	1.422	ug/L
|	Co	59	271068.158	0.74	28.0542	0.173	0.618	ug/L
|	Ni	60	58091.492	0.16	28.2806	0.242	0.857	ug/L
|	Cu	65	52017.474	0.14	26.5646	0.316	1.188	ug/L
|	Zn	66	27648.111	0.07	24.4629	0.177	0.724	ug/L
|>	Ge	72	366129.437	366129.44				ug/L
|	As	75	17555.914	0.05	23.5301	0.724	3.078	ug/L
|	Se	77	1510.266	0.00	24.3977	2.588	10.606	ug/L
|	Se	82	1583.868	0.00	21.7434	0.719	3.308	ug/L
⌊	Rb	85	1074.068	0.00				mg/L
	Y	89	214630.967	55.32				ug/L
	Rh	103	61.667	53.00				ug/L
⌈	Mo	98	183.675	0.00	0.0904	0.010	10.658	ug/L
|	Ag	107	86672.190	0.29	23.6610	0.320	1.351	ug/L
|	Cd	114	22489.423	0.08	23.9034	0.371	1.553	ug/L
|>	In	115	296965.578	296965.58				ug/L
|	Sn	118	642.821	-0.00	-0.0253	0.003	12.993	ug/L
⌊	Sb	123	73474.468	0.25	24.8243	0.358	1.440	ug/L
⌈	Ba	135	42718.814	0.11	30.1426	0.529	1.756	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	383034.547	383034.55				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	156527.137	0.38	25.8695	0.229	0.885	ug/L
|	Tl	205	385277.313	0.94	25.5642	0.525	2.055	ug/L
|	Pb	206	130788.082	0.32	25.4849	0.453	1.777	ug/L
|	Pb	207	115431.222	0.28	25.5747	0.290	1.133	ug/L
|	Pb	208	535449.648	1.30	25.5801	0.341	1.333	ug/L
|	U	238	866067.380	2.11	27.6574	0.512	1.850	ug/L
⌊>	Bi	209	410001.508	410001.51				ug/L

Sample ID: L1011054405SD WG349181-08
Report Date/Time: Monday, November 22, 2010 16:14:34
Page 1

Approved: November 23, 2010

⌈	Na	23	75718393.968	262.50	15.8179	0.579	3.661	mg/L
|	Mg	24	4463958.345	15.48	1.5281	0.058	3.807	mg/L
|	K	39	3231856.113	9.63	0.3484	0.021	6.022	mg/L
|	Ca	43	491784.621	1.70	25.3970	0.954	3.756	mg/L
|	Fe	54	94729.304	0.14	0.0752	0.010	13.687	mg/L
|	Fe	57	29727.140	0.07	0.0839	0.002	1.810	mg/L
⌊>	Sc-1	45	288679.014	288679.01				mg/L
	Cl	35	86347.874	64169.97				mg/L
	Kr	83	32.000	-0.00				mg/L
	Br	81	14587.966	4950.66				mg/L
	P	31	17771.818	7247.58				mg/L
	S	34	1020907.785	836165.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.878			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.971			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.898			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		107.037			
⌈	Na	23					

Sample ID: L1011054405SD WG349181-08
Report Date/Time: Monday, November 22, 2010 16:14:34
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011054405SD WG349181-08
Report Date/Time: Monday, November 22, 2010 16:14:34
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011054401

Sample Date/Time: Monday, November 22, 2010 16:19:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 65
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34626.615	0.01				ug/L
|	Be	9	4.000	-0.00	0.0201	0.006	29.317	ug/L
|	Al	27	51113.950	0.17	8.0124	0.671	8.379	ug/L
⌊>	Sc	45	292414.542	292414.54				ug/L
⌈	Ti	49	1320.222	0.00	2.2461	0.458	20.381	ug/L
|	V	51	3478.967	0.00	0.0770	0.008	10.050	ug/L
|	Cr	52	13794.982	0.01	0.6460	0.016	2.493	ug/L
|	Cr	53	656.754	0.00	0.3985	0.036	9.115	ug/L
|	Mn	55	255430.188	0.69	21.2822	0.018	0.084	ug/L
|	Co	59	1138.410	0.00	0.0960	0.005	5.063	ug/L
|	Ni	60	5249.432	0.01	2.4871	0.112	4.508	ug/L
|	Cu	65	1221.420	0.00	0.5351	0.006	1.100	ug/L
|	Zn	66	2249.942	0.01	1.7476	0.056	3.211	ug/L
|>	Ge	72	371545.253	371545.25				ug/L
|	As	75	-82.722	0.00	0.1112	0.068	61.417	ug/L
|	Se	77	53.339	-0.00	-0.4121	0.196	47.625	ug/L
|	Se	82	25.108	0.00	0.2322	0.061	26.073	ug/L
⌊	Rb	85	1496.460	0.00				mg/L
	Y	89	214974.790	399.14				ug/L
	Rh	103	83.668	75.00				ug/L
⌈	Mo	98	278.239	0.00	0.1420	0.003	1.882	ug/L
|	Ag	107	41.667	0.00	-0.0060	0.002	33.664	ug/L
|	Cd	114	31.948	0.00	-0.0129	0.008	62.029	ug/L
|>	In	115	300592.470	300592.47				ug/L
|	Sn	118	705.625	-0.00	-0.0090	0.003	33.252	ug/L
⌊	Sb	123	520.762	0.00	0.1814	0.012	6.756	ug/L
⌈	Ba	135	9559.997	0.02	6.5331	0.127	1.950	ug/L
|	Ce	140	93.343	0.00				ug/L
⌊>	Tb	159	394415.569	394415.57				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	39.334	0.00	0.0052	0.000	7.200	ug/L
|	Tl	205	120.013	0.00	0.0252	0.002	7.276	ug/L
|	Pb	206	425.347	0.00	0.0134	0.001	10.072	ug/L
|	Pb	207	383.011	0.00	0.0254	0.002	8.015	ug/L
|	Pb	208	1743.411	0.00	0.0168	0.002	9.638	ug/L
|	U	238	2594.029	0.01	0.0773	0.003	3.498	ug/L
⌊>	Bi	209	408096.626	408096.63				ug/L

Approved: November 23, 2010

Na	23	81759144.818	279.60	16.8489	0.423	2.509	mg/L	
Mg	24	5741095.706	19.64	1.9422	0.028	1.424	mg/L	
K	39	3901637.575	11.76	0.4275	0.009	1.990	mg/L	
Ca	43	847654.586	2.90	43.1951	1.116	2.584	mg/L	
Fe	54	114596.419	0.20	0.1112	0.003	2.644	mg/L	
Fe	57	48130.519	0.14	0.1573	0.012	7.892	mg/L	
> Sc-1	45	292414.542	292414.54				mg/L	
Cl	35	64625.509	42447.61				mg/L	
Kr	83	26.000	-6.00				mg/L	
Br	81	14625.355	4988.05				mg/L	
P	31	23361.292	12837.06				mg/L	
S	34	1598556.863	1413814.37				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		98.311			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		107.265			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		112.133			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		106.540			
Na	23					

Sample ID: L1011054401
Report Date/Time: Monday, November 22, 2010 16:21:20
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011054401
Report Date/Time: Monday, November 22, 2010 16:21:20
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011054401PS WG349360-01

Sample Date/Time: Monday, November 22, 2010 16:25:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 66
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32703.472	0.01				ug/L
|	Be	9	16215.810	0.06	48.9024	0.495	1.012	ug/L
|	Al	27	328373.775	1.12	54.5579	0.459	0.840	ug/L
⌊>	Sc	45	290767.835	290767.84				ug/L
⌈	Ti	49	1090.169	0.00	1.9176	0.254	13.271	ug/L
|	V	51	491135.913	1.36	57.3043	0.297	0.518	ug/L
|	Cr	52	426832.149	1.16	58.3521	0.435	0.746	ug/L
|	Cr	53	50478.815	0.14	58.7282	1.620	2.759	ug/L
|	Mn	55	929064.269	2.58	80.0340	0.692	0.865	ug/L
|	Co	59	550958.679	1.53	58.0493	0.639	1.100	ug/L
|	Ni	60	120001.631	0.33	59.4902	0.195	0.327	ug/L
|	Cu	65	106491.568	0.30	55.4312	0.688	1.242	ug/L
|	Zn	66	51451.545	0.14	46.5374	0.306	0.658	ug/L
| >	Ge	72	359768.003	359768.00				ug/L
|	As	75	35802.765	0.10	48.5966	0.611	1.257	ug/L
|	Se	77	2733.981	0.01	46.0433	2.618	5.686	ug/L
|	Se	82	3072.587	0.01	43.0317	0.266	0.619	ug/L
⌊	Rb	85	1505.795	0.00				mg/L
	Y	89	213334.432	-1241.21				ug/L
	Rh	103	95.335	86.67				ug/L
⌈	Mo	98	303.829	0.00	0.1600	0.009	5.500	ug/L
|	Ag	107	175800.775	0.60	48.4565	0.610	1.259	ug/L
|	Cd	114	46221.536	0.16	49.6346	1.239	2.495	ug/L
| >	In	115	294198.482	294198.48				ug/L
|	Sn	118	831.901	0.00	0.0342	0.007	20.400	ug/L
⌊	Sb	123	150244.890	0.51	51.2325	1.077	2.102	ug/L
⌈	Ba	135	82447.308	0.21	57.7660	1.062	1.838	ug/L
|	Ce	140	83.342	0.00				ug/L
⌊>	Tb	159	385904.613	385904.61				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	322520.769	0.81	55.0812	0.069	0.126	ug/L
|	Tl	205	804021.570	2.03	55.1064	0.400	0.727	ug/L
|	Pb	206	270587.358	0.68	54.5631	0.572	1.048	ug/L
|	Pb	207	236627.504	0.60	54.2393	0.269	0.496	ug/L
|	Pb	208	1092843.439	2.75	54.0253	0.665	1.230	ug/L
|	U	238	1782852.587	4.49	58.8356	0.454	0.772	ug/L
⌊>	Bi	209	396774.706	396774.71				ug/L

Sample ID: L1011054401PS WG349360-01
Report Date/Time: Monday, November 22, 2010 16:28:07
Page 1

Approved: November 23, 2010

⌈	Na	23	79151321.803	272.17	16.4009	0.044	0.267	mg/L
|	Mg	24	5614283.198	19.31	1.9094	0.020	1.042	mg/L
|	K	39	3801626.130	11.49	0.4175	0.008	1.839	mg/L
|	Ca	43	819689.691	2.82	41.9937	0.609	1.449	mg/L
|	Fe	54	108338.144	0.18	0.1002	0.002	2.128	mg/L
|	Fe	57	39766.567	0.11	0.1243	0.017	13.371	mg/L
⌊>	Sc-1	45	290767.835	290767.84				mg/L
	Cl	35	62641.588	40463.69				mg/L
	Kr	83	29.667	-2.33				mg/L
	Br	81	12242.157	2604.85				mg/L
	P	31	21588.612	11064.38				mg/L
	S	34	1532917.886	1348175.39				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.195			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.983			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.714			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.584			
⌈	Na	23					

Sample ID: L1011054401PS WG349360-01
Report Date/Time: Monday, November 22, 2010 16:28:07
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011054401PS WG349360-01
Report Date/Time: Monday, November 22, 2010 16:28:07
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011054401SDL WG349360-02

Sample Date/Time: Monday, November 22, 2010 16:32:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 67
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32720.133	0.01				ug/L
|	Be	9	4.000	-0.00	0.0204	0.006	30.618	ug/L
|	Al	27	10188.538	0.03	1.2122	0.110	9.049	ug/L
⌊>	Sc	45	286548.030	286548.03				ug/L
⌈	Ti	49	260.029	0.00	0.4454	0.074	16.640	ug/L
|	V	51	3000.294	0.00	0.0279	0.009	33.091	ug/L
|	Cr	52	10178.947	0.00	0.1786	0.019	10.881	ug/L
|	Cr	53	326.705	0.00	0.0301	0.036	118.507	ug/L
|	Mn	55	51610.027	0.14	4.3396	0.067	1.544	ug/L
|	Co	59	267.006	0.00	0.0075	0.001	17.708	ug/L
|	Ni	60	1094.404	0.00	0.4994	0.020	4.085	ug/L
|	Cu	65	384.011	0.00	0.1152	0.005	4.169	ug/L
|	Zn	66	1264.759	0.00	0.8971	0.015	1.624	ug/L
|>	Ge	72	365968.134	365968.13				ug/L
|	As	75	-102.730	0.00	0.0827	0.026	30.922	ug/L
|	Se	77	66.674	0.00	-0.1780	0.768	431.502	ug/L
|	Se	82	14.110	0.00	0.0847	0.111	130.887	ug/L
⌊	Rb	85	319.342	0.00				mg/L
	Y	89	216483.865	1908.22				ug/L
	Rh	103	25.667	17.00				ug/L
⌈	Mo	98	55.562	0.00	0.0179	0.001	5.596	ug/L
|	Ag	107	30.000	0.00	-0.0091	0.002	25.087	ug/L
|	Cd	114	19.786	0.00	-0.0256	0.007	29.276	ug/L
|>	In	115	300387.316	300387.32				ug/L
|	Sn	118	533.748	-0.00	-0.0602	0.002	3.623	ug/L
⌊	Sb	123	309.754	0.00	0.1110	0.005	4.701	ug/L
⌈	Ba	135	1898.866	0.00	1.2785	0.035	2.771	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	394867.672	394867.67				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	29.334	0.00	0.0032	0.001	44.701	ug/L
|	Tl	205	53.339	0.00	0.0205	0.002	10.555	ug/L
|	Pb	206	384.345	0.00	0.0014	0.000	17.644	ug/L
|	Pb	207	317.008	0.00	0.0069	0.005	73.080	ug/L
|	Pb	208	1481.058	0.00	0.0004	0.001	278.199	ug/L
|	U	238	560.688	0.00	0.0111	0.001	9.944	ug/L
⌊>	Bi	209	431057.301	431057.30				ug/L

Sample ID: L1011054401SDL WG349360-02
Report Date/Time: Monday, November 22, 2010 16:34:54
Page 1

Approved: November 23, 2010

Na	23	16297186.260	56.84	3.4183	0.053	1.538	mg/L	
Mg	24	1507392.246	5.26	0.5103	0.003	0.682	mg/L	
K	39	1282718.884	2.89	0.0990	0.001	1.012	mg/L	
Ca	43	171569.662	0.60	8.9151	0.101	1.130	mg/L	
Fe	54	65887.535	0.04	0.0191	0.001	4.924	mg/L	
Fe	57	16124.602	0.03	0.0284	0.000	0.930	mg/L	
> Sc-1	45	286548.030	286548.03				mg/L	
Cl	35	29775.597	7597.70				mg/L	
Kr	83	25.667	-6.33				mg/L	
Br	81	11441.877	1804.57				mg/L	
P	31	14543.235	4019.00				mg/L	
S	34	522340.856	337598.36				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		96.836			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		107.192			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		112.262			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		112.534			
Na	23					

Sample ID: L1011054401SDL WG349360-02
Report Date/Time: Monday, November 22, 2010 16:34:54
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 22, 2010 16:39:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32302.190	0.02				ug/L
|	Be	9	16442.177	0.06	53.8254	1.141	2.120	ug/L
|	Al	27	292191.030	1.08	52.6838	0.692	1.313	ug/L
⌊>	Sc	45	267873.757	267873.76				ug/L
⌈	Ti	49	55147.214	0.15	96.7100	2.577	2.665	ug/L
|	V	51	435310.769	1.20	50.4934	0.282	0.559	ug/L
|	Cr	52	380735.275	1.03	51.6460	0.562	1.088	ug/L
|	Cr	53	44530.112	0.12	51.4908	1.742	3.383	ug/L
|	Mn	55	604379.566	1.67	51.7862	0.424	0.818	ug/L
|	Co	59	495507.503	1.37	51.9395	0.262	0.505	ug/L
|	Ni	60	103612.511	0.29	51.0990	1.095	2.142	ug/L
|	Cu	65	96942.011	0.27	50.1974	0.864	1.721	ug/L
|	Zn	66	54686.342	0.15	49.2234	0.514	1.045	ug/L
|>	Ge	72	361614.017	361614.02				ug/L
|	As	75	35800.166	0.10	48.3453	0.882	1.823	ug/L
|	Se	77	2994.082	0.01	50.2725	2.571	5.114	ug/L
|	Se	82	3598.075	0.01	50.1556	1.064	2.122	ug/L
⌊	Rb	85	1194.083	0.00				mg/L
	Y	89	210154.251	-4421.39				ug/L
	Rh	103	17.334	8.67				ug/L
⌈	Mo	98	162697.677	0.56	93.8064	0.755	0.805	ug/L
|	Ag	107	178704.869	0.62	49.8999	0.998	2.001	ug/L
|	Cd	114	44829.515	0.15	48.7644	1.084	2.224	ug/L
|>	In	115	290424.296	290424.30				ug/L
|	Sn	118	160078.720	0.55	49.2933	0.369	0.748	ug/L
⌊	Sb	123	143483.704	0.49	49.5536	0.439	0.886	ug/L
⌈	Ba	135	67884.664	0.18	48.1973	0.982	2.038	ug/L
|	Ce	140	136.681	0.00				ug/L
⌊>	Tb	159	380775.075	380775.08				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	309514.578	0.74	50.1872	0.953	1.899	ug/L
|	Tl	205	755946.894	1.81	49.1959	1.618	3.288	ug/L
|	Pb	206	256878.765	0.61	49.1707	1.187	2.414	ug/L
|	Pb	207	226437.247	0.54	49.2719	0.690	1.399	ug/L
|	Pb	208	1045237.897	2.50	49.0455	0.660	1.346	ug/L
|	U	238	1664014.190	3.98	52.1305	0.538	1.032	ug/L
⌊>	Bi	209	417958.395	417958.39				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 16:41:39
Page 1

Approved: November 23, 2010

Na	23	23622040.638	88.14	5.3058	0.086	1.623	mg/L
Mg	24	14133978.078	52.76	5.2416	0.019	0.358	mg/L
K	39	38407709.517	141.80	5.2432	0.155	2.963	mg/L
Ca	43	91818.772	0.34	5.1005	0.042	0.821	mg/L
Fe	54	2623516.300	9.60	5.4602	0.047	0.858	mg/L
Fe	57	1275685.675	4.73	5.6251	0.159	2.820	mg/L
Sc-1	45	267873.757	267873.76				mg/L
Cl	35	20737.481	-1440.42				mg/L
Kr	83	33.000	1.00				mg/L
Br	81	10025.023	387.71				mg/L
P	31	10485.497	-38.74				mg/L
S	34	211384.704	26642.21				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	100.987				
Cr	52	103.292				
Cr	53					
Mn	55	103.572				
Co	59	103.879				
Ni	60	102.198				
Cu	65	100.395				
Zn	66	98.447				
Ge	72		95.684			
As	75	96.691				
Se	77					
Se	82	100.311				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.800				
Cd	114	97.529				
In	115		103.637			
Sn	118					
Sb	123	99.107				
Ba	135	96.395				
Ce	140					
Tb	159		108.255			
Ho	165					
Tl	203	100.374				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.091				
U	238	104.261				
Bi	209		109.115			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 16:41:39

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 16:41:39

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 22, 2010 16:46:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33188.462	0.02				ug/L
|	Be	9	4.000	-0.00	0.0208	0.011	52.228	ug/L
|	Al	27	2767.067	0.00	-0.0304	0.134	441.232	ug/L
⌊>	Sc	45	275253.748	275253.75				ug/L
⌈	Ti	49	36.670	-0.00	0.0579	0.040	68.195	ug/L
|	V	51	2573.080	-0.00	-0.0263	0.005	20.793	ug/L
|	Cr	52	8186.765	-0.00	-0.1135	0.016	13.825	ug/L
|	Cr	53	206.689	-0.00	-0.1120	0.013	11.482	ug/L
|	Mn	55	314.675	0.00	-0.0070	0.001	7.385	ug/L
|	Co	59	75.001	0.00	-0.0125	0.000	2.769	ug/L
|	Ni	60	26.667	0.00	-0.0214	0.001	5.395	ug/L
|	Cu	65	120.002	0.00	-0.0210	0.004	20.181	ug/L
|	Zn	66	318.342	0.00	0.0465	0.009	18.987	ug/L
|>	Ge	72	372147.283	372147.28				ug/L
|	As	75	-190.954	-0.00	-0.0305	0.054	177.210	ug/L
|	Se	77	53.339	-0.00	-0.4143	0.510	123.049	ug/L
|	Se	82	-1.223	-0.00	-0.1263	0.096	75.705	ug/L
⌊	Rb	85	11.333	-0.00				mg/L
	Y	89	219794.577	5218.93				ug/L
	Rh	103	5.667	-3.00				ug/L
⌈	Mo	98	96.453	0.00	0.0402	0.013	32.251	ug/L
|	Ag	107	13.000	-0.00	-0.0137	0.001	8.112	ug/L
|	Cd	114	13.690	0.00	-0.0323	0.006	18.684	ug/L
|>	In	115	303792.456	303792.46				ug/L
|	Sn	118	620.286	-0.00	-0.0363	0.008	21.975	ug/L
⌊	Sb	123	297.213	0.00	0.1058	0.012	11.729	ug/L
⌈	Ba	135	11.333	-0.00	-0.0142	0.002	11.566	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	393891.575	393891.58				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	21.334	0.00	0.0019	0.001	29.824	ug/L
|	Tl	205	50.005	0.00	0.0203	0.002	8.176	ug/L
|	Pb	206	362.010	-0.00	-0.0043	0.004	99.535	ug/L
|	Pb	207	299.341	0.00	0.0018	0.004	216.112	ug/L
|	Pb	208	1429.388	-0.00	-0.0034	0.001	42.414	ug/L
|	U	238	69.001	0.00	-0.0039	0.001	17.093	ug/L
⌊>	Bi	209	440913.033	440913.03				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 16:48:23
Page 1

Approved: November 23, 2010

⌈	Na	23	18916.437	0.03	-0.0067	0.000	0.732	mg/L
|	Mg	24	343.374	0.00	-0.0134	0.000	0.173	mg/L
|	K	39	414171.114	-0.08	-0.0110	0.001	7.097	mg/L
|	Ca	43	106.678	-0.00	-0.0005	0.002	463.572	mg/L
|	Fe	54	50515.752	-0.01	-0.0073	0.001	11.979	mg/L
|	Fe	57	8050.712	0.00	-0.0038	0.000	12.677	mg/L
⌊>	Sc-1	45	275253.748	275253.75				mg/L
	Cl	35	20055.427	-2122.47				mg/L
	Kr	83	25.667	-6.33				mg/L
	Br	81	10805.837	1168.53				mg/L
	P	31	11387.819	863.59				mg/L
	S	34	215136.905	30394.41				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.471			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.407			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.984			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		115.107			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 16:48:23

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 16:48:23

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011060801 WG349181-01

Sample Date/Time: Monday, November 22, 2010 16:52:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 68
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36449.834	0.02				ug/L
|	Be	9	9.333	0.00	0.0353	0.004	10.970	ug/L
|	Al	27	953639.249	3.15	153.3811	9.249	6.030	ug/L
⌊>	Sc	45	302371.278	302371.28				ug/L
⌈	Ti	49	3641.029	0.01	6.1505	0.507	8.246	ug/L
|	V	51	14345.057	0.03	1.2954	0.036	2.755	ug/L
|	Cr	52	21558.429	0.03	1.6660	0.028	1.704	ug/L
|	Cr	53	1807.011	0.00	1.6804	0.169	10.032	ug/L
|	Mn	55	1139004.800	3.03	94.0524	1.918	2.040	ug/L
|	Co	59	3474.972	0.01	0.3309	0.006	1.741	ug/L
|	Ni	60	15868.409	0.04	7.5098	0.037	0.492	ug/L
|	Cu	65	1440.118	0.00	0.6380	0.018	2.805	ug/L
|	Zn	66	2590.028	0.01	2.0236	0.030	1.481	ug/L
|>	Ge	72	375351.416	375351.42				ug/L
|	As	75	655.596	0.00	1.0689	0.102	9.507	ug/L
|	Se	77	46.671	-0.00	-0.5301	0.264	49.711	ug/L
|	Se	82	22.137	0.00	0.1897	0.154	80.976	ug/L
⌊	Rb	85	10633.090	0.03				mg/L
	Y	89	222125.649	7550.00				ug/L
	Rh	103	9.000	0.33				ug/L
⌈	Mo	98	1597.185	0.01	0.8382	0.017	2.082	ug/L
|	Ag	107	26.000	0.00	-0.0105	0.002	20.379	ug/L
|	Cd	114	137.504	0.00	0.0919	0.013	14.671	ug/L
|>	In	115	314230.924	314230.92				ug/L
|	Sn	118	726.560	-0.00	-0.0119	0.011	90.046	ug/L
⌊	Sb	123	3454.335	0.01	1.1104	0.022	1.972	ug/L
⌈	Ba	135	5986.185	0.01	3.9336	0.070	1.790	ug/L
|	Ce	140	11431.009	0.03				ug/L
⌊>	Tb	159	409221.922	409221.92				ug/L
⌈	Ho	165	146.682	0.00				ug/L
|	Tl	203	73.334	0.00	0.0102	0.001	13.307	ug/L
|	Tl	205	126.680	0.00	0.0252	0.001	5.253	ug/L
|	Pb	206	1029.730	0.00	0.1214	0.003	2.519	ug/L
|	Pb	207	852.712	0.00	0.1200	0.008	6.979	ug/L
|	Pb	208	3912.668	0.01	0.1112	0.002	1.671	ug/L
|	U	238	1423.116	0.00	0.0373	0.002	4.606	ug/L
⌊>	Bi	209	430980.354	430980.35				ug/L

Approved: November 23, 2010

Na	23	34580634.786	114.36	6.8864	0.205	2.982	mg/L	
Mg	24	17131349.118	56.67	5.6310	0.135	2.391	mg/L	
K	39	7466105.546	23.11	0.8478	0.021	2.483	mg/L	
Ca	43	280460.002	0.93	13.8154	0.257	1.857	mg/L	
Fe	54	258963.425	0.67	0.3756	0.010	2.692	mg/L	
Fe	57	86743.678	0.26	0.3029	0.021	7.029	mg/L	
Sc-1	45	302371.278	302371.28				mg/L	
Cl	35	60759.365	38581.46				mg/L	
Kr	83	22.667	-9.33				mg/L	
Br	81	13020.472	3383.16				mg/L	
P	31	171529.336	161005.10				mg/L	
S	34	242183.102	57440.61				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		99.319			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		112.132			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		116.343			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		112.514			
Na	23					

Sample ID: L1011060801 WG349181-01
Report Date/Time: Monday, November 22, 2010 16:55:10
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011060801 WG349181-01
Report Date/Time: Monday, November 22, 2010 16:55:10
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011060803S WG349181-04

Sample Date/Time: Monday, November 22, 2010 16:59:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 69
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38373.615	0.03				ug/L
|	Be	9	8318.125	0.03	25.2396	0.678	2.687	ug/L
|	Al	27	1291236.617	4.46	217.3595	8.253	3.797	ug/L
⌊>	Sc	45	289173.213	289173.21				ug/L
⌈	Ti	49	3330.889	0.01	5.6614	0.310	5.482	ug/L
|	V	51	249085.549	0.66	27.8752	0.141	0.507	ug/L
|	Cr	52	222482.266	0.57	28.7363	0.253	0.882	ug/L
|	Cr	53	25237.693	0.07	28.1389	0.918	3.262	ug/L
|	Mn	55	1453449.967	3.90	120.8138	0.764	0.632	ug/L
|	Co	59	272652.233	0.73	27.7060	0.425	1.535	ug/L
|	Ni	60	69292.949	0.19	33.1269	0.421	1.271	ug/L
|	Cu	65	53739.553	0.14	26.9471	0.310	1.150	ug/L
|	Zn	66	28686.373	0.08	24.9241	0.100	0.402	ug/L
|>	Ge	72	372910.719	372910.72				ug/L
|	As	75	18470.557	0.05	24.2975	0.393	1.617	ug/L
|	Se	77	1420.244	0.00	22.4172	2.392	10.669	ug/L
|	Se	82	1629.893	0.00	21.9713	0.351	1.599	ug/L
⌊	Rb	85	10690.819	0.03				mg/L
	Y	89	223281.045	8705.40				ug/L
	Rh	103	19.000	10.33				ug/L
⌈	Mo	98	1494.465	0.00	0.7931	0.008	0.960	ug/L
|	Ag	107	92912.569	0.30	24.2630	0.267	1.102	ug/L
|	Cd	114	22942.593	0.07	23.3242	0.403	1.729	ug/L
|>	In	115	310425.619	310425.62				ug/L
|	Sn	118	722.026	-0.00	-0.0109	0.006	54.885	ug/L
⌊	Sb	123	76190.583	0.25	24.6228	0.216	0.879	ug/L
⌈	Ba	135	42226.403	0.11	28.5337	0.778	2.726	ug/L
|	Ce	140	11344.254	0.03				ug/L
⌊>	Tb	159	399950.243	399950.24				ug/L
⌈	Ho	165	160.017	0.00				ug/L
|	Tl	203	162211.050	0.38	25.7132	0.250	0.973	ug/L
|	Tl	205	400256.940	0.94	25.4698	0.226	0.889	ug/L
|	Pb	206	136209.162	0.32	25.4549	0.369	1.448	ug/L
|	Pb	207	120855.466	0.28	25.6813	0.106	0.412	ug/L
|	Pb	208	558701.540	1.30	25.5989	0.133	0.521	ug/L
|	U	238	912363.157	2.13	27.9448	0.415	1.485	ug/L
⌊>	Bi	209	427475.442	427475.44				ug/L

Sample ID: L1011060803S WG349181-04
Report Date/Time: Monday, November 22, 2010 17:01:58
Page 1

Approved: November 23, 2010

Na	23	34107975.402	117.93	7.1017	0.090	1.268	mg/L
Mg	24	16970067.868	58.71	5.8342	0.177	3.041	mg/L
K	39	8073787.722	26.34	0.9674	0.020	2.019	mg/L
Ca	43	287473.880	0.99	14.8029	0.460	3.110	mg/L
Fe	54	275554.451	0.76	0.4306	0.015	3.505	mg/L
Fe	57	90362.285	0.28	0.3334	0.019	5.734	mg/L
> Sc-1	45	289173.213	289173.21				mg/L
Cl	35	94028.061	71850.16				mg/L
Kr	83	30.000	-2.00				mg/L
Br	81	13416.327	3779.02				mg/L
P	31	166588.170	156063.94				mg/L
S	34	245403.122	60660.63				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		98.673			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		110.774			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		113.707			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		111.599			
Na	23					

Sample ID: L1011060803S WG349181-04
Report Date/Time: Monday, November 22, 2010 17:01:58
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011060803S WG349181-04
Report Date/Time: Monday, November 22, 2010 17:01:58
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011060805SD WG349181-05

Sample Date/Time: Monday, November 22, 2010 17:06:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 70
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35981.502	0.02				ug/L
|	Be	9	8053.242	0.03	25.4489	0.659	2.589	ug/L
|	Al	27	1021660.794	3.67	178.9849	2.168	1.211	ug/L
⌊>	Sc	45	277670.755	277670.75				ug/L
⌈	Ti	49	2650.616	0.01	4.6344	0.105	2.274	ug/L
|	V	51	237629.057	0.65	27.3608	0.391	1.429	ug/L
|	Cr	52	211302.238	0.56	28.0600	0.192	0.684	ug/L
|	Cr	53	24432.299	0.07	28.0358	1.381	4.926	ug/L
|	Mn	55	1396770.984	3.85	119.4804	2.227	1.864	ug/L
|	Co	59	266266.439	0.73	27.8426	0.211	0.757	ug/L
|	Ni	60	66228.590	0.18	32.5822	0.420	1.289	ug/L
|	Cu	65	51873.388	0.14	26.7660	0.145	0.542	ug/L
|	Zn	66	32126.181	0.09	28.7608	0.435	1.514	ug/L
|>	Ge	72	362370.091	362370.09				ug/L
|	As	75	18287.815	0.05	24.7526	0.192	0.777	ug/L
|	Se	77	1473.589	0.00	24.0271	0.771	3.209	ug/L
|	Se	82	1546.226	0.00	21.4453	0.120	0.561	ug/L
⌊	Rb	85	9467.908	0.03				mg/L
	Y	89	208985.213	-5590.43				ug/L
	Rh	103	18.334	9.67				ug/L
⌈	Mo	98	1424.641	0.00	0.7719	0.017	2.258	ug/L
|	Ag	107	88706.977	0.29	23.6531	0.483	2.040	ug/L
|	Cd	114	22544.479	0.07	23.4057	0.556	2.377	ug/L
|>	In	115	304043.000	304043.00				ug/L
|	Sn	118	610.419	-0.00	-0.0394	0.007	17.234	ug/L
⌊	Sb	123	75810.286	0.25	25.0173	0.390	1.560	ug/L
⌈	Ba	135	41196.439	0.11	28.4111	0.712	2.505	ug/L
|	Ce	140	9525.490	0.02				ug/L
⌊>	Tb	159	391879.106	391879.11				ug/L
⌈	Ho	165	140.015	0.00				ug/L
|	Tl	203	160423.500	0.39	26.1702	0.291	1.113	ug/L
|	Tl	205	391987.346	0.94	25.6719	0.437	1.701	ug/L
|	Pb	206	135485.661	0.33	26.0575	0.093	0.358	ug/L
|	Pb	207	118905.277	0.29	26.0037	0.318	1.224	ug/L
|	Pb	208	551527.610	1.32	26.0062	0.100	0.385	ug/L
|	U	238	894195.409	2.15	28.1836	0.143	0.508	ug/L
⌊>	Bi	209	415389.851	415389.85				ug/L

Approved: November 23, 2010

Na	23	33493244.990	120.66	7.2661	0.300	4.134	mg/L	
Mg	24	16292139.899	58.69	5.8319	0.211	3.626	mg/L	
K	39	7454037.878	25.27	0.9277	0.019	1.994	mg/L	
Ca	43	266217.775	0.96	14.2792	0.088	0.618	mg/L	
Fe	54	221983.826	0.61	0.3433	0.011	3.188	mg/L	
Fe	57	73322.031	0.24	0.2756	0.013	4.681	mg/L	
> Sc-1	45	277670.755	277670.75				mg/L	
Cl	35	103173.534	80995.63				mg/L	
Kr	83	28.334	-3.67				mg/L	
Br	81	12141.366	2504.06				mg/L	
P	31	165472.672	154948.44				mg/L	
S	34	234303.617	49561.13				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		95.884			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		108.496			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		111.412			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		108.444			
Na	23					

Sample ID: L1011060805SD WG349181-05
Report Date/Time: Monday, November 22, 2010 17:08:46
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011060805SD WG349181-05
Report Date/Time: Monday, November 22, 2010 17:08:46
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011060807

Sample Date/Time: Monday, November 22, 2010 17:13:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 71
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35362.529	0.02				ug/L
|	Be	9	6.000	0.00	0.0266	0.006	23.313	ug/L
|	Al	27	693095.789	2.42	118.0621	4.992	4.228	ug/L
⌊>	Sc	45	285176.098	285176.10				ug/L
⌈	Ti	49	2924.116	0.01	5.1294	2.368	46.157	ug/L
|	V	51	12969.199	0.03	1.2013	0.033	2.754	ug/L
|	Cr	52	18803.184	0.03	1.4024	0.052	3.699	ug/L
|	Cr	53	1506.931	0.00	1.4149	0.046	3.237	ug/L
|	Mn	55	1067662.964	2.96	91.8467	1.337	1.456	ug/L
|	Co	59	2977.140	0.01	0.2931	0.004	1.285	ug/L
|	Ni	60	11108.611	0.03	5.4679	0.078	1.430	ug/L
|	Cu	65	1104.072	0.00	0.4933	0.026	5.365	ug/L
|	Zn	66	1877.195	0.00	1.4711	0.083	5.646	ug/L
|>	Ge	72	360318.540	360318.54				ug/L
|	As	75	592.762	0.00	1.0194	0.102	9.988	ug/L
|	Se	77	66.674	0.00	-0.1563	0.348	222.915	ug/L
|	Se	82	14.105	0.00	0.0888	0.186	209.430	ug/L
⌊	Rb	85	9270.055	0.03				mg/L
	Y	89	207212.139	-7363.51				ug/L
	Rh	103	6.667	-2.00				ug/L
⌈	Mo	98	1528.918	0.01	0.8507	0.024	2.832	ug/L
|	Ag	107	32.000	0.00	-0.0085	0.001	14.737	ug/L
|	Cd	114	122.275	0.00	0.0840	0.019	22.167	ug/L
|>	In	115	296424.269	296424.27				ug/L
|	Sn	118	627.753	-0.00	-0.0296	0.002	6.753	ug/L
⌊	Sb	123	3158.444	0.01	1.0762	0.030	2.791	ug/L
⌈	Ba	135	5270.775	0.01	3.6521	0.092	2.509	ug/L
|	Ce	140	7747.117	0.02				ug/L
⌊>	Tb	159	388051.316	388051.32				ug/L
⌈	Ho	165	126.680	0.00				ug/L
|	Tl	203	71.001	0.00	0.0101	0.001	6.658	ug/L
|	Tl	205	183.353	0.00	0.0291	0.001	4.734	ug/L
|	Pb	206	818.042	0.00	0.0868	0.008	9.684	ug/L
|	Pb	207	671.696	0.00	0.0863	0.006	6.453	ug/L
|	Pb	208	3205.902	0.00	0.0837	0.003	3.788	ug/L
|	U	238	1336.103	0.00	0.0359	0.001	2.976	ug/L
⌊>	Bi	209	417787.879	417787.88				ug/L

Sample ID: L1011060807
Report Date/Time: Monday, November 22, 2010 17:15:31
Page 1

Approved: November 23, 2010

Na	23	33648976.694	117.97	7.1038	0.222	3.119	mg/L	
Mg	24	15716721.199	55.13	5.4770	0.227	4.139	mg/L	
K	39	6983735.484	22.91	0.8402	0.016	1.910	mg/L	
Ca	43	264434.313	0.93	13.8111	0.387	2.802	mg/L	
Fe	54	203725.267	0.52	0.2947	0.012	4.052	mg/L	
Fe	57	64721.953	0.20	0.2314	0.007	3.215	mg/L	
> Sc-1	45	285176.098	285176.10				mg/L	
Cl	35	70195.521	48017.62				mg/L	
Kr	83	26.334	-5.67				mg/L	
Br	81	13863.604	4226.29				mg/L	
P	31	167971.860	157447.63				mg/L	
S	34	230846.874	46104.38				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		95.341			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		105.778			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		110.324			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		109.070			
Na	23					

Sample ID: L1011060807
Report Date/Time: Monday, November 22, 2010 17:15:31

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011060809

Sample Date/Time: Monday, November 22, 2010 17:20:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 72
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34927.561	0.02				ug/L
|	Be	9	6.000	0.00	0.0268	0.022	80.916	ug/L
|	Al	27	138334.723	0.49	23.8252	0.312	1.309	ug/L
⌊>	Sc	45	277265.218	277265.22				ug/L
⌈	Ti	49	296.701	0.00	0.5135	0.250	48.680	ug/L
|	V	51	2707.139	0.00	-0.0032	0.005	152.543	ug/L
|	Cr	52	16630.319	0.02	1.0836	0.000	0.028	ug/L
|	Cr	53	1183.522	0.00	1.0267	0.063	6.162	ug/L
|	Mn	55	16393.257	0.04	1.3683	0.039	2.865	ug/L
|	Co	59	224.005	0.00	0.0033	0.001	35.728	ug/L
|	Ni	60	3736.402	0.01	1.8045	0.065	3.609	ug/L
|	Cu	65	1327.768	0.00	0.6053	0.032	5.367	ug/L
|	Zn	66	3799.093	0.01	3.1918	0.029	0.899	ug/L
|>	Ge	72	362780.402	362780.40				ug/L
|	As	75	-72.095	0.00	0.1223	0.051	41.632	ug/L
|	Se	77	76.675	0.00	0.0071	0.339	4745.922	ug/L
|	Se	82	25.795	0.00	0.2502	0.110	43.774	ug/L
⌊	Rb	85	247.672	0.00				mg/L
	Y	89	213601.683	-973.96				ug/L
	Rh	103	6.333	-2.33				ug/L
⌈	Mo	98	61.489	0.00	0.0208	0.004	18.063	ug/L
|	Ag	107	25.667	0.00	-0.0104	0.002	17.750	ug/L
|	Cd	114	24.748	0.00	-0.0207	0.003	15.568	ug/L
|>	In	115	304051.421	304051.42				ug/L
|	Sn	118	642.954	-0.00	-0.0299	0.002	7.517	ug/L
⌊	Sb	123	79.707	0.00	0.0339	0.001	3.790	ug/L
⌈	Ba	135	760.370	0.00	0.4999	0.017	3.324	ug/L
|	Ce	140	490.061	0.00				ug/L
⌊>	Tb	159	393963.723	393963.72				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	15.000	0.00	0.0010	0.001	58.226	ug/L
|	Tl	205	23.336	0.00	0.0187	0.001	5.232	ug/L
|	Pb	206	487.683	0.00	0.0211	0.005	23.081	ug/L
|	Pb	207	417.346	0.00	0.0286	0.004	15.296	ug/L
|	Pb	208	1972.097	0.00	0.0234	0.001	4.248	ug/L
|	U	238	73.001	0.00	-0.0038	0.000	12.404	ug/L
⌊>	Bi	209	428364.439	428364.44				ug/L

Sample ID: L1011060809
Report Date/Time: Monday, November 22, 2010 17:22:16
Page 1

Approved: November 23, 2010

⌈	Na	23	1190214.932	4.26	0.2484	0.013	5.199	mg/L
|	Mg	24	834269.614	3.01	0.2867	0.017	6.086	mg/L
|	K	39	1493882.731	3.81	0.1332	0.012	8.743	mg/L
|	Ca	43	10636.718	0.04	0.5662	0.027	4.819	mg/L
|	Fe	54	106170.330	0.19	0.1064	0.009	8.326	mg/L
|	Fe	57	13730.795	0.02	0.0205	0.004	18.981	mg/L
⌊>	Sc-1	45	277265.218	277265.22				mg/L
	Cl	35	51513.036	29335.13				mg/L
	Kr	83	23.667	-8.33				mg/L
	Br	81	20384.090	10746.78				mg/L
	P	31	22155.189	11630.96				mg/L
	S	34	217586.816	32844.32				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.992			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.499			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		112.005			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		111.831			
⌈	Na	23					

Sample ID: L1011060809
Report Date/Time: Monday, November 22, 2010 17:22:16
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011060809
Report Date/Time: Monday, November 22, 2010 17:22:16
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011060811

Sample Date/Time: Monday, November 22, 2010 17:26:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 73
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	103938.139	0.02				ug/L
|	Be	9	1775.491	0.00	1.9573	0.032	1.618	ug/L
|	Al	27	375448593.315	470.25	22937.1498	622.479	2.714	ug/L
⌊>	Sc	45	798582.586	798582.59				ug/L
⌜	Ti	49	420531.681	1.42	900.6130	7.803	0.866	ug/L
|	V	51	1590985.990	5.37	226.4623	1.638	0.723	ug/L
|	Cr	52	1370271.263	4.60	231.1183	0.811	0.351	ug/L
|	Cr	53	160591.846	0.54	227.9399	1.581	0.693	ug/L
|	Mn	55	15367915.125	51.90	1609.0373	15.251	0.948	ug/L
|	Co	59	508723.002	1.72	65.1225	0.315	0.484	ug/L
|	Ni	60	279348.509	0.94	168.3082	0.738	0.439	ug/L
|	Cu	65	160451.605	0.54	101.5407	0.681	0.670	ug/L
|	Zn	66	124135.639	0.42	136.8561	0.179	0.131	ug/L
|>	Ge	72	296127.203	296127.20				ug/L
|	As	75	40806.065	0.14	67.2056	0.530	0.789	ug/L
|	Se	77	193.355	0.00	2.7621	0.863	31.243	ug/L
|	Se	82	-43.999	-0.00	-0.8601	0.103	11.950	ug/L
⌊	Rb	85	714325.804	2.41				mg/L
	Y	89	849595.797	635020.15				ug/L
	Rh	103	97.001	88.33				ug/L
⌜	Mo	98	5276.249	0.03	4.4925	0.107	2.376	ug/L
|	Ag	107	1003.394	0.01	0.3978	0.014	3.593	ug/L
|	Cd	114	646.867	0.00	0.9962	0.085	8.540	ug/L
|>	In	115	196123.977	196123.98				ug/L
|	Sn	118	4424.446	0.02	1.8068	0.055	3.036	ug/L
⌊	Sb	123	5042.015	0.03	2.5859	0.068	2.627	ug/L
⌜	Ba	135	189300.843	0.65	174.8601	0.601	0.344	ug/L
|	Ce	140	4069138.683	13.90				ug/L
⌊>	Tb	159	292705.653	292705.65				ug/L
⌜	Ho	165	47359.956	0.22				ug/L
|	Tl	203	2693.723	0.01	0.8611	0.015	1.731	ug/L
|	Tl	205	6526.117	0.03	0.8555	0.032	3.782	ug/L
|	Pb	206	140062.111	0.66	52.9424	0.041	0.077	ug/L
|	Pb	207	107091.782	0.51	46.0108	0.053	0.115	ug/L
|	Pb	208	522545.486	2.47	48.4175	0.064	0.131	ug/L
|	U	238	105983.074	0.50	6.5517	0.072	1.102	ug/L
⌊>	Bi	209	211640.232	211640.23				ug/L

Sample ID: L1011060811
Report Date/Time: Monday, November 22, 2010 17:29:02
Page 1

Approved: November 23, 2010

⌈	Na	23	29747487.679	37.22	2.2355	0.060	2.681	mg/L
|	Mg	24	S	S	S	S	S	mg/L
|	K	39	136627960.191	169.53	6.2702	0.114	1.817	mg/L
|	Ca	43	6949951.952	8.70	129.6811	3.001	2.314	mg/L
|	Fe	54	56752488.480	70.89	40.3274	0.819	2.030	mg/L
|	Fe	57	24602881.058	30.78	36.6035	0.670	1.831	mg/L
⌊>	Sc-1	45	798582.586	798582.59				mg/L
	Cl	35	81381.137	59203.24				mg/L
	Kr	83	229.672	197.67				mg/L
	Br	81	10259.927	622.62				mg/L
	P	31	884655.358	874131.12				mg/L
	S	34	199527.601	14785.11				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		78.356			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		69.986			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		83.217			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		55.252			
⌈	Na	23					

Sample ID: L1011060811
Report Date/Time: Monday, November 22, 2010 17:29:02
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
V 51 Upper, S, EEE	V	51	
Cr 52 Upper, S, EEE	Cr	52	
Mn 55 Upper, S, EEE	Mn	55	
Ni 60 Upper, S, EEE	Ni	60	
Cu 65 Upper, S, EEE	Cu	65	
Zn 66 Upper, S, EEE	Zn	66	
Se 82 Lower	Se	82	
Ba 135 Upper, S, EEE	Ba	135	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011060813

Sample Date/Time: Monday, November 22, 2010 17:33:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 74
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30011.883	0.00				ug/L
|	Be	9	6.667	0.00	0.0284	0.018	64.956	ug/L
|	Al	27	51182.511	0.17	8.3270	1.595	19.151	ug/L
⌊>	Sc	45	283207.052	283207.05				ug/L
⌈	Ti	49	120.013	0.00	0.1997	0.002	1.033	ug/L
|	V	51	3101.795	0.00	0.0335	0.010	29.114	ug/L
|	Cr	52	10314.087	0.00	0.1727	0.031	18.127	ug/L
|	Cr	53	360.043	0.00	0.0609	0.048	78.682	ug/L
|	Mn	55	2636.709	0.01	0.1865	0.023	12.205	ug/L
|	Co	59	138.002	0.00	-0.0061	0.001	18.216	ug/L
|	Ni	60	259.673	0.00	0.0903	0.007	7.576	ug/L
|	Cu	65	334.342	0.00	0.0869	0.011	13.170	ug/L
|	Zn	66	1522.798	0.00	1.1042	0.025	2.250	ug/L
|>	Ge	72	372392.497	372392.50				ug/L
|	As	75	-150.210	0.00	0.0232	0.063	269.422	ug/L
|	Se	77	76.675	0.00	-0.0213	0.497	2331.857	ug/L
|	Se	82	14.113	0.00	0.0818	0.051	62.954	ug/L
⌊	Rb	85	109.668	0.00				mg/L
	Y	89	224859.782	10284.14				ug/L
	Rh	103	5.667	-3.00				ug/L
⌈	Mo	98	24.973	0.00	0.0009	0.001	64.477	ug/L
|	Ag	107	23.000	0.00	-0.0110	0.001	4.915	ug/L
|	Cd	114	14.510	0.00	-0.0311	0.004	11.753	ug/L
|>	In	115	299521.570	299521.57				ug/L
|	Sn	118	1070.591	0.00	0.1013	0.004	3.811	ug/L
⌊	Sb	123	75.747	0.00	0.0329	0.002	6.658	ug/L
⌈	Ba	135	109.335	0.00	0.0557	0.007	12.902	ug/L
|	Ce	140	350.041	0.00				ug/L
⌊>	Tb	159	380754.171	380754.17				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	18.000	0.00	0.0016	0.000	16.468	ug/L
|	Tl	205	36.670	0.00	0.0196	0.001	5.019	ug/L
|	Pb	206	419.346	0.00	0.0109	0.002	14.166	ug/L
|	Pb	207	367.344	0.00	0.0205	0.001	7.091	ug/L
|	Pb	208	1703.075	0.00	0.0136	0.002	13.529	ug/L
|	U	238	34.334	0.00	-0.0049	0.000	0.855	ug/L
⌊>	Bi	209	414978.867	414978.87				ug/L

Sample ID: L1011060813
Report Date/Time: Monday, November 22, 2010 17:35:48
Page 1

Approved: November 23, 2010

Na	23	143294.158	0.47	0.0197	0.001	7.305	mg/L
Mg	24	134266.837	0.47	0.0338	0.007	21.149	mg/L
K	39	498846.746	0.18	-0.0015	0.003	209.278	mg/L
Ca	43	1453.585	0.00	0.0704	0.010	14.001	mg/L
Fe	54	97750.236	0.15	0.0847	0.006	7.353	mg/L
Fe	57	10293.000	0.01	0.0048	0.004	79.676	mg/L
Sc-1	45	283207.052	283207.05				mg/L
Cl	35	42860.322	20682.42				mg/L
Kr	83	25.334	-6.67				mg/L
Br	81	11269.013	1631.70				mg/L
P	31	18568.048	8043.81				mg/L
S	34	202583.739	17841.25				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		98.536			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		106.883			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		108.249			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		108.337			
Na	23					

Sample ID: L1011060813
Report Date/Time: Monday, November 22, 2010 17:35:48
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011060813
Report Date/Time: Monday, November 22, 2010 17:35:48
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 22, 2010 17:40:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28072.994	-0.00				ug/L
|	Be	9	15554.110	0.06	49.5946	2.933	5.914	ug/L
|	Al	27	303350.926	1.09	53.3161	3.052	5.724	ug/L
|>	Sc	45	275205.683	275205.68				ug/L
⌈	Ti	49	57571.005	0.16	101.5468	2.279	2.244	ug/L
|	V	51	447862.121	1.24	52.2611	0.939	1.797	ug/L
|	Cr	52	389284.659	1.06	53.1482	1.095	2.061	ug/L
|	Cr	53	45836.066	0.13	53.3241	1.483	2.781	ug/L
|	Mn	55	623057.642	1.73	53.7003	1.289	2.399	ug/L
|	Co	59	495706.432	1.38	52.2553	0.564	1.080	ug/L
|	Ni	60	106119.171	0.30	52.6374	0.962	1.827	ug/L
|	Cu	65	100805.922	0.28	52.4990	0.589	1.121	ug/L
|	Zn	66	55933.221	0.15	50.6474	1.249	2.466	ug/L
|>	Ge	72	359622.960	359622.96				ug/L
|	As	75	37021.391	0.10	50.2724	1.165	2.317	ug/L
|	Se	77	3047.437	0.01	51.4602	1.866	3.627	ug/L
|	Se	82	3579.799	0.01	50.2040	2.184	4.351	ug/L
⌊	Rb	85	1217.086	0.00				mg/L
	Y	89	214197.947	-377.70				ug/L
	Rh	103	22.000	13.33				ug/L
⌈	Mo	98	167915.550	0.59	98.2550	2.372	2.414	ug/L
|	Ag	107	179846.192	0.63	50.9682	1.720	3.375	ug/L
|	Cd	114	45051.512	0.16	49.7395	1.560	3.136	ug/L
|>	In	115	286253.543	286253.54				ug/L
|	Sn	118	159651.467	0.56	49.8917	0.926	1.856	ug/L
⌊	Sb	123	142602.868	0.50	49.9899	1.685	3.371	ug/L
⌈	Ba	135	66162.851	0.18	48.7731	0.322	0.661	ug/L
|	Ce	140	120.013	0.00				ug/L
|>	Tb	159	366647.324	366647.32				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	296878.941	0.75	50.7531	0.648	1.277	ug/L
|	Tl	205	732533.303	1.85	50.2583	0.361	0.719	ug/L
|	Pb	206	246659.597	0.62	49.7816	0.131	0.263	ug/L
|	Pb	207	214978.375	0.54	49.3257	0.234	0.475	ug/L
|	Pb	208	995718.716	2.51	49.2683	0.351	0.713	ug/L
|	U	238	1549077.388	3.91	51.1752	0.373	0.729	ug/L
|>	Bi	209	396346.929	396346.93				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 17:42:33
Page 1

Approved: November 23, 2010

⌈	Na	23	23881593.479	86.83	5.2268	0.236	4.514	mg/L
|	Mg	24	14388201.067	52.34	5.1991	0.231	4.439	mg/L
|	K	39	38585047.263	138.74	5.1298	0.171	3.325	mg/L
|	Ca	43	95018.795	0.35	5.1415	0.158	3.067	mg/L
|	Fe	54	2635801.090	9.40	5.3436	0.309	5.791	mg/L
|	Fe	57	1290682.962	4.67	5.5434	0.248	4.483	mg/L
⌊>	Sc-1	45	275205.683	275205.68				mg/L
	Cl	35	20016.684	-2161.22				mg/L
	Kr	83	25.334	-6.67				mg/L
	Br	81	9954.953	317.64				mg/L
	P	31	10400.763	-123.47				mg/L
	S	34	204399.789	19657.30				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	104.522				
|	Cr	52	106.296				
|	Cr	53					
|	Mn	55	107.401				
|	Co	59	104.511				
|	Ni	60	105.275				
|	Cu	65	104.998				
|	Zn	66	101.295				
|>	Ge	72		95.157			
|	As	75	100.545				
|	Se	77					
|	Se	82	100.408				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	101.936				
|	Cd	114	99.479				
|>	In	115		102.148			
|	Sn	118					
⌊	Sb	123	99.980				
⌈	Ba	135	97.546				
|	Ce	140					
⌊>	Tb	159		104.239			
⌈	Ho	165					
|	Tl	203	101.506				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	98.537				
|	U	238	102.350				
⌊>	Bi	209		103.473			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 17:42:33

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 17:42:33

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 22, 2010 17:47:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32084.825	0.01				ug/L
|	Be	9	3.333	-0.00	0.0185	0.009	50.856	ug/L
|	Al	27	3167.168	0.00	0.0347	0.033	94.856	ug/L
⌊>	Sc	45	278014.346	278014.35				ug/L
⌈	Ti	49	53.339	0.00	0.0887	0.044	50.139	ug/L
|	V	51	2692.276	-0.00	-0.0044	0.019	424.048	ug/L
|	Cr	52	8545.736	-0.00	-0.0336	0.043	126.422	ug/L
|	Cr	53	196.688	-0.00	-0.1172	0.016	13.682	ug/L
|	Mn	55	337.676	0.00	-0.0043	0.001	33.201	ug/L
|	Co	59	81.001	0.00	-0.0117	0.002	16.602	ug/L
|	Ni	60	17.334	-0.00	-0.0256	0.003	13.044	ug/L
|	Cu	65	95.001	0.00	-0.0324	0.007	21.541	ug/L
|	Zn	66	284.340	0.00	0.0234	0.024	101.609	ug/L
|>	Ge	72	362405.758	362405.76				ug/L
|	As	75	-107.669	0.00	0.0749	0.023	30.673	ug/L
|	Se	77	63.340	0.00	-0.2243	0.584	260.163	ug/L
|	Se	82	15.090	0.00	0.0994	0.112	112.736	ug/L
⌊	Rb	85	20.334	0.00				mg/L
	Y	89	222003.044	7427.40				ug/L
	Rh	103	6.333	-2.33				ug/L
⌈	Mo	98	96.673	0.00	0.0421	0.009	21.326	ug/L
|	Ag	107	10.667	-0.00	-0.0143	0.000	2.861	ug/L
|	Cd	114	9.071	-0.00	-0.0367	0.004	11.989	ug/L
|>	In	115	293593.583	293593.58				ug/L
|	Sn	118	847.636	0.00	0.0396	0.010	24.581	ug/L
⌊	Sb	123	276.212	0.00	0.1019	0.006	5.762	ug/L
⌈	Ba	135	12.333	-0.00	-0.0129	0.001	9.181	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	368181.203	368181.20				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	20.000	0.00	0.0019	0.001	33.445	ug/L
|	Tl	205	20.002	0.00	0.0185	0.001	6.142	ug/L
|	Pb	206	349.343	-0.00	-0.0033	0.003	93.149	ug/L
|	Pb	207	316.675	0.00	0.0087	0.002	20.727	ug/L
|	Pb	208	1402.052	0.00	-0.0013	0.002	119.438	ug/L
|	U	238	50.667	0.00	-0.0044	0.000	4.729	ug/L
⌊>	Bi	209	419095.949	419095.95				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 17:49:16
Page 1

Approved: November 23, 2010

Na	23	14642.176	0.01	-0.0077	0.000	0.962	mg/L
Mg	24	976.812	0.00	-0.0132	0.000	0.162	mg/L
K	39	406689.453	-0.12	-0.0125	0.002	13.661	mg/L
Ca	43	160.017	0.00	0.0023	0.001	40.187	mg/L
Fe	54	52579.874	-0.00	-0.0041	0.002	53.664	mg/L
Fe	57	7733.771	-0.00	-0.0054	0.002	40.730	mg/L
Sc-1	45	278014.346	278014.35				mg/L
Cl	35	18687.448	-3490.45				mg/L
Kr	83	28.000	-4.00				mg/L
Br	81	9771.441	134.13				mg/L
P	31	10746.479	222.25				mg/L
S	34	197824.940	13082.45				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		95.893			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		104.767			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		104.675			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		109.412			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 17:49:16

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 17:49:16

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011061201

Sample Date/Time: Monday, November 22, 2010 17:53:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 75
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33656.564	0.01				ug/L
|	Be	9	3.333	-0.00	0.0186	0.010	51.805	ug/L
|	Al	27	19836.370	0.06	2.8792	0.170	5.908	ug/L
⌊>	Sc	45	284457.339	284457.34				ug/L
⌈	Ti	49	710.096	0.00	1.2294	0.052	4.261	ug/L
|	V	51	3168.387	0.00	0.0485	0.008	17.418	ug/L
|	Cr	52	10094.195	0.00	0.1715	0.035	20.427	ug/L
|	Cr	53	263.364	0.00	-0.0421	0.170	402.498	ug/L
|	Mn	55	16179.240	0.04	1.3421	0.014	1.040	ug/L
|	Co	59	249.006	0.00	0.0057	0.001	18.141	ug/L
|	Ni	60	1102.405	0.00	0.5052	0.018	3.583	ug/L
|	Cu	65	445.348	0.00	0.1474	0.005	3.401	ug/L
|	Zn	66	43331.112	0.12	38.6173	0.536	1.388	ug/L
|>	Ge	72	364786.744	364786.74				ug/L
|	As	75	-11.829	0.00	0.2033	0.011	5.223	ug/L
|	Se	77	83.342	0.00	0.1145	0.243	211.991	ug/L
|	Se	82	61.433	0.00	0.7412	0.013	1.775	ug/L
⌊	Rb	85	953.722	0.00				mg/L
	Y	89	207474.287	-7101.36				ug/L
	Rh	103	57.667	49.00				ug/L
⌈	Mo	98	146.751	0.00	0.0739	0.009	12.057	ug/L
|	Ag	107	24.000	0.00	-0.0103	0.001	5.515	ug/L
|	Cd	114	16.211	0.00	-0.0284	0.007	25.925	ug/L
|>	In	115	282630.604	282630.60				ug/L
|	Sn	118	701.758	-0.00	0.0032	0.004	111.436	ug/L
⌊	Sb	123	107.622	0.00	0.0458	0.002	4.800	ug/L
⌈	Ba	135	858.379	0.00	0.6217	0.030	4.877	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	360593.841	360593.84				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	21.000	0.00	0.0023	0.001	35.637	ug/L
|	Tl	205	60.006	0.00	0.0214	0.001	3.329	ug/L
|	Pb	206	482.350	0.00	0.0288	0.003	9.839	ug/L
|	Pb	207	398.345	0.00	0.0327	0.004	11.783	ug/L
|	Pb	208	1906.091	0.00	0.0287	0.002	8.527	ug/L
|	U	238	5622.970	0.01	0.1824	0.002	1.115	ug/L
⌊>	Bi	209	390966.445	390966.45				ug/L

Sample ID: L1011061201
Report Date/Time: Monday, November 22, 2010 17:56:03
Page 1

Approved: November 23, 2010

⌈	Na	23	128276478.141	451.05	27.1854	0.507	1.866	mg/L
|	Mg	24	15950442.334	56.08	5.5720	0.072	1.301	mg/L
|	K	39	3012592.285	9.01	0.3255	0.005	1.390	mg/L
|	Ca	43	170445.089	0.60	8.9193	0.108	1.208	mg/L
|	Fe	54	60170.114	0.02	0.0086	0.005	60.879	mg/L
|	Fe	57	14114.746	0.02	0.0205	0.006	28.014	mg/L
⌊>	Sc-1	45	284457.339	284457.34				mg/L
	Cl	35	168024.428	145846.53				mg/L
	Kr	83	27.000	-5.00				mg/L
	Br	81	29553.623	19916.31				mg/L
	P	31	11698.851	1174.62				mg/L
	S	34	1088775.753	904033.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.523			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.855			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.518			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.068			
⌈	Na	23					

Sample ID: L1011061201
Report Date/Time: Monday, November 22, 2010 17:56:03
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011061202

Sample Date/Time: Monday, November 22, 2010 18:00:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 76
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32586.345	0.01				ug/L
|	Be	9	5.333	-0.00	0.0246	0.018	71.382	ug/L
|	Al	27	29311.113	0.09	4.5470	1.084	23.845	ug/L
⌊>	Sc	45	281336.927	281336.93				ug/L
⌈	Ti	49	1626.962	0.00	2.8283	0.191	6.746	ug/L
|	V	51	3200.236	0.00	0.0526	0.005	9.781	ug/L
|	Cr	52	10323.430	0.00	0.2046	0.009	4.395	ug/L
|	Cr	53	483.393	0.00	0.2131	0.074	34.686	ug/L
|	Mn	55	2453.992	0.01	0.1757	0.007	4.163	ug/L
|	Co	59	409.346	0.00	0.0224	0.004	16.107	ug/L
|	Ni	60	2292.619	0.01	1.0888	0.013	1.152	ug/L
|	Cu	65	820.375	0.00	0.3408	0.008	2.298	ug/L
|	Zn	66	43859.745	0.12	39.1368	0.321	0.821	ug/L
|>	Ge	72	364338.898	364338.90				ug/L
|	As	75	2.491	0.00	0.2226	0.097	43.630	ug/L
|	Se	77	123.347	0.00	0.8024	0.811	101.112	ug/L
|	Se	82	124.759	0.00	1.6207	0.219	13.536	ug/L
⌊	Rb	85	513.018	0.00				mg/L
	Y	89	212076.604	-2499.04				ug/L
	Rh	103	110.668	102.00				ug/L
⌈	Mo	98	68.453	0.00	0.0274	0.004	13.009	ug/L
|	Ag	107	13.667	0.00	-0.0133	0.000	1.330	ug/L
|	Cd	114	11.796	-0.00	-0.0333	0.006	19.153	ug/L
|>	In	115	283195.810	283195.81				ug/L
|	Sn	118	660.288	-0.00	-0.0103	0.009	83.432	ug/L
⌊	Sb	123	79.663	0.00	0.0358	0.003	7.171	ug/L
⌈	Ba	135	513.018	0.00	0.3582	0.028	7.804	ug/L
|	Ce	140	140.015	0.00				ug/L
⌊>	Tb	159	364910.916	364910.92				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	15.000	0.00	0.0013	0.002	157.783	ug/L
|	Tl	205	36.670	0.00	0.0198	0.001	5.471	ug/L
|	Pb	206	426.680	0.00	0.0185	0.003	15.069	ug/L
|	Pb	207	364.010	0.00	0.0258	0.004	15.676	ug/L
|	Pb	208	1742.412	0.00	0.0216	0.002	9.408	ug/L
|	U	238	69230.529	0.18	2.3431	0.037	1.570	ug/L
⌊>	Bi	209	385934.514	385934.51				ug/L

Approved: November 23, 2010

⌈	Na	23	223558325.959	794.74	47.9065	0.822	1.716	mg/L
|	Mg	24	50493332.573	179.52	17.8661	0.507	2.837	mg/L
|	K	39	3059153.802	9.29	0.3360	0.009	2.707	mg/L
|	Ca	43	353785.328	1.26	18.7296	0.052	0.280	mg/L
|	Fe	54	59133.961	0.02	0.0078	0.000	3.653	mg/L
|	Fe	57	25932.857	0.06	0.0711	0.002	2.990	mg/L
⌊>	Sc-1	45	281336.927	281336.93				mg/L
	Cl	35	184082.282	161904.38				mg/L
	Kr	83	28.000	-4.00				mg/L
	Br	81	38613.096	28975.79				mg/L
	P	31	12164.087	1639.85				mg/L
	S	34	1725851.520	1541109.03				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.405			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.057			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.745			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.754			
⌈	Na	23					

Sample ID: L1011061202
Report Date/Time: Monday, November 22, 2010 18:02:49
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062702

Sample Date/Time: Monday, November 22, 2010 18:07:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 77
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31666.742	0.01				ug/L
|	Be	9	2.667	-0.00	0.0165	0.003	20.636	ug/L
|	Al	27	90441.147	0.32	15.4364	0.911	5.904	ug/L
⌊>	Sc	45	276556.757	276556.76				ug/L
⌈	Ti	49	753.437	0.00	1.4028	0.106	7.546	ug/L
|	V	51	3020.487	0.00	0.0573	0.015	26.928	ug/L
|	Cr	52	10892.706	0.01	0.3928	0.020	5.180	ug/L
|	Cr	53	1730.323	0.00	1.7993	0.087	4.845	ug/L
|	Mn	55	3222436.922	9.49	294.2395	1.030	0.350	ug/L
|	Co	59	3187.540	0.01	0.3358	0.005	1.479	ug/L
|	Ni	60	10408.186	0.03	5.4362	0.103	1.900	ug/L
|	Cu	65	905.717	0.00	0.4188	0.005	1.086	ug/L
|	Zn	66	2035.894	0.01	1.7279	0.067	3.856	ug/L
|>	Ge	72	339522.261	339522.26				ug/L
|	As	75	469.131	0.00	0.8907	0.048	5.395	ug/L
|	Se	77	166.685	0.00	1.7509	0.692	39.536	ug/L
|	Se	82	244.768	0.00	3.5318	0.209	5.931	ug/L
⌊	Rb	85	2513.008	0.01				mg/L
	Y	89	196777.074	-17798.57				ug/L
	Rh	103	135.669	127.00				ug/L
⌈	Mo	98	376.687	0.00	0.2186	0.004	2.010	ug/L
|	Ag	107	35.000	0.00	-0.0068	0.008	119.166	ug/L
|	Cd	114	46.456	0.00	0.0072	0.025	340.372	ug/L
|>	In	115	272397.432	272397.43				ug/L
|	Sn	118	2450.967	0.01	0.5884	0.010	1.711	ug/L
⌊	Sb	123	102.162	0.00	0.0452	0.003	6.248	ug/L
⌈	Ba	135	27917.864	0.08	21.1902	0.479	2.262	ug/L
|	Ce	140	570.074	0.00				ug/L
⌊>	Tb	159	355962.859	355962.86				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	45.334	0.00	0.0072	0.001	14.728	ug/L
|	Tl	205	123.347	0.00	0.0266	0.004	14.584	ug/L
|	Pb	206	336.342	0.00	0.0053	0.003	48.517	ug/L
|	Pb	207	298.341	0.00	0.0158	0.007	42.919	ug/L
|	Pb	208	1356.383	0.00	0.0074	0.002	30.596	ug/L
|	U	238	64095.063	0.18	2.3401	0.020	0.835	ug/L
⌊>	Bi	209	357757.947	357757.95				ug/L

Sample ID: L1011062702
Report Date/Time: Monday, November 22, 2010 18:09:36
Page 1

Approved: November 23, 2010

⌈	Na	23	248592880.478	899.11	54.1988	1.214	2.239	mg/L
|	Mg	24	52148515.578	188.67	18.7776	0.685	3.651	mg/L
|	K	39	8059208.115	27.57	1.0130	0.036	3.577	mg/L
|	Ca	43	1133240.051	4.10	61.0663	1.469	2.405	mg/L
|	Fe	54	103603.424	0.18	0.1014	0.003	2.807	mg/L
|	Fe	57	56706.311	0.18	0.2052	0.008	3.839	mg/L
⌊>	Sc-1	45	276556.757	276556.76				mg/L
	Cl	35	1469649.807	1447471.90				mg/L
	Kr	83	27.334	-4.67				mg/L
	Br	81	133090.751	123453.44				mg/L
	P	31	18573.962	8049.73				mg/L
	S	34	972470.675	787728.18				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.838			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.204			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.201			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.398			
⌈	Na	23					

Sample ID: L1011062702
Report Date/Time: Monday, November 22, 2010 18:09:36
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062704

Sample Date/Time: Monday, November 22, 2010 18:14:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 78
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31265.564	0.02				ug/L
|	Be	9	8.000	0.00	0.0353	0.007	20.461	ug/L
|	Al	27	78735.242	0.29	14.3101	5.281	36.904	ug/L
⌊>	Sc	45	258704.633	258704.63				ug/L
⌈	Ti	49	603.412	0.00	1.1710	0.140	11.985	ug/L
|	V	51	2309.722	-0.00	-0.0185	0.029	155.643	ug/L
|	Cr	52	9891.323	0.01	0.3079	0.042	13.694	ug/L
|	Cr	53	2437.209	0.01	2.8071	0.268	9.550	ug/L
|	Mn	55	1540745.410	4.73	146.7254	3.454	2.354	ug/L
|	Co	59	3796.092	0.01	0.4220	0.009	2.146	ug/L
|	Ni	60	10819.959	0.03	5.8980	0.031	0.520	ug/L
|	Cu	65	540.353	0.00	0.2298	0.016	6.983	ug/L
|	Zn	66	1984.217	0.01	1.7606	0.022	1.274	ug/L
|>	Ge	72	325480.002	325480.00				ug/L
|	As	75	1136.230	0.00	1.9162	0.123	6.396	ug/L
|	Se	77	186.687	0.00	2.2638	0.654	28.887	ug/L
|	Se	82	419.144	0.00	6.3956	0.310	4.846	ug/L
⌊	Rb	85	7243.695	0.02				mg/L
	Y	89	190567.960	-24007.69				ug/L
	Rh	103	452.348	443.68				ug/L
⌈	Mo	98	334.392	0.00	0.2049	0.015	7.096	ug/L
|	Ag	107	21.667	0.00	-0.0104	0.001	10.975	ug/L
|	Cd	114	16.751	0.00	-0.0258	0.012	46.326	ug/L
|>	In	115	256817.942	256817.94				ug/L
|	Sn	118	809.899	0.00	0.0636	0.014	21.339	ug/L
⌊	Sb	123	117.538	0.00	0.0535	0.002	4.382	ug/L
⌈	Ba	135	51532.972	0.15	40.1964	0.607	1.509	ug/L
|	Ce	140	590.077	0.00				ug/L
⌊>	Tb	159	346490.033	346490.03				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	40.334	0.00	0.0066	0.000	3.121	ug/L
|	Tl	205	113.345	0.00	0.0262	0.004	14.321	ug/L
|	Pb	206	785.039	0.00	0.1138	0.006	5.668	ug/L
|	Pb	207	656.695	0.00	0.1146	0.005	4.208	ug/L
|	Pb	208	3027.875	0.01	0.1067	0.000	0.458	ug/L
|	U	238	32335.518	0.09	1.2316	0.016	1.290	ug/L
⌊>	Bi	209	342172.813	342172.81				ug/L

Sample ID: L1011062704
Report Date/Time: Monday, November 22, 2010 18:16:24
Page 1

Approved: November 23, 2010

Na	23	384166891.645	1485.43	89.5483	2.399	2.679	mg/L
Mg	24	45527783.559	176.05	17.5203	0.582	3.322	mg/L
K	39	10623950.082	39.50	1.4548	0.054	3.688	mg/L
Ca	43	1186814.029	4.59	68.3642	1.615	2.362	mg/L
Fe	54	163945.401	0.44	0.2489	0.016	6.246	mg/L
Fe	57	85053.078	0.30	0.3526	0.028	7.868	mg/L
> Sc-1	45	258704.633	258704.63				mg/L
Cl	35	2254149.219	2231971.32				mg/L
Kr	83	23.334	-8.67				mg/L
Br	81	252558.871	242921.56				mg/L
P	31	16667.880	6143.65				mg/L
S	34	773453.378	588710.89				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		86.123			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		91.644			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		98.508			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		89.330			
Na	23					

Sample ID: L1011062704
Report Date/Time: Monday, November 22, 2010 18:16:24

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062706

Sample Date/Time: Monday, November 22, 2010 18:20:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 79
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33138.209	0.02				ug/L
|	Be	9	2.667	-0.00	0.0166	0.010	59.368	ug/L
|	Al	27	44967.901	0.15	7.4339	0.276	3.711	ug/L
⌊>	Sc	45	275515.725	275515.72				ug/L
⌈	Ti	49	513.398	0.00	0.9333	0.131	14.016	ug/L
|	V	51	2768.888	0.00	0.0187	0.013	68.365	ug/L
|	Cr	52	9823.588	0.00	0.2035	0.008	3.943	ug/L
|	Cr	53	906.799	0.00	0.7537	0.207	27.428	ug/L
|	Mn	55	11353405.738	32.72	1014.5154	6.312	0.622	ug/L
|	Co	59	7702.710	0.02	0.8216	0.009	1.056	ug/L
|	Ni	60	10259.697	0.03	5.2428	0.102	1.945	ug/L
|	Cu	65	613.025	0.00	0.2498	0.006	2.314	ug/L
|	Zn	66	2094.907	0.01	1.7413	0.012	0.661	ug/L
|>	Ge	72	346966.615	346966.61				ug/L
|	As	75	341.492	0.00	0.6978	0.057	8.174	ug/L
|	Se	77	70.007	0.00	-0.0478	0.485	1014.243	ug/L
|	Se	82	91.802	0.00	1.2275	0.123	10.018	ug/L
⌊	Rb	85	1809.182	0.01				mg/L
	Y	89	208263.406	-6312.24				ug/L
	Rh	103	39.334	30.67				ug/L
⌈	Mo	98	273.605	0.00	0.1472	0.006	4.396	ug/L
|	Ag	107	17.334	0.00	-0.0123	0.002	13.699	ug/L
|	Cd	114	22.010	0.00	-0.0221	0.017	77.519	ug/L
|>	In	115	285950.451	285950.45				ug/L
|	Sn	118	770.563	0.00	0.0223	0.005	22.232	ug/L
⌊	Sb	123	106.831	0.00	0.0451	0.007	14.939	ug/L
⌈	Ba	135	34500.090	0.09	24.9812	0.262	1.049	ug/L
|	Ce	140	640.085	0.00				ug/L
⌊>	Tb	159	373143.915	373143.92				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	39.000	0.00	0.0055	0.001	21.032	ug/L
|	Tl	205	96.677	0.00	0.0241	0.003	12.021	ug/L
|	Pb	206	410.346	0.00	0.0160	0.003	20.491	ug/L
|	Pb	207	360.677	0.00	0.0259	0.003	11.839	ug/L
|	Pb	208	1662.405	0.00	0.0184	0.002	13.485	ug/L
|	U	238	26965.577	0.07	0.9184	0.006	0.693	ug/L
⌊>	Bi	209	381989.696	381989.70				ug/L

Sample ID: L1011062706
Report Date/Time: Monday, November 22, 2010 18:23:11
Page 1

Approved: November 23, 2010

⌈	Na	23	75770304.536	275.38	16.5942	0.822	4.951	mg/L
|	Mg	24	44770581.755	162.73	16.1940	0.754	4.655	mg/L
|	K	39	4296840.749	14.04	0.5120	0.038	7.375	mg/L
|	Ca	43	902422.531	3.28	48.8428	1.895	3.880	mg/L
|	Fe	54	664663.686	2.22	1.2627	0.065	5.187	mg/L
|	Fe	57	282156.772	1.00	1.1807	0.045	3.788	mg/L
⌊>	Sc-1	45	275515.725	275515.72				mg/L
	Cl	35	570436.119	548258.22				mg/L
	Kr	83	23.000	-9.00				mg/L
	Br	81	50595.008	40957.70				mg/L
	P	31	19967.932	9443.70				mg/L
	S	34	722273.780	537531.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.808			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.040			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.086			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.724			
⌈	Na	23					

Sample ID: L1011062706
Report Date/Time: Monday, November 22, 2010 18:23:11
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062707

Sample Date/Time: Monday, November 22, 2010 18:27:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 80
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33338.872	0.02				ug/L
|	Be	9	6.667	0.00	0.0298	0.017	55.709	ug/L
|	Al	27	348332.419	1.27	61.8889	0.852	1.376	ug/L
⌊>	Sc	45	272205.505	272205.51				ug/L
⌈	Ti	49	943.474	0.00	1.7769	0.452	25.428	ug/L
|	V	51	3789.095	0.00	0.1589	0.010	6.413	ug/L
|	Cr	52	12353.082	0.01	0.6317	0.008	1.330	ug/L
|	Cr	53	1180.188	0.00	1.1357	0.046	4.071	ug/L
|	Mn	55	3884720.411	11.59	359.2256	7.028	1.956	ug/L
|	Co	59	2445.657	0.01	0.2564	0.008	3.252	ug/L
|	Ni	60	6549.878	0.02	3.4524	0.122	3.535	ug/L
|	Cu	65	8036.976	0.02	4.4139	0.061	1.379	ug/L
|	Zn	66	12595.720	0.04	12.0524	0.138	1.145	ug/L
|>	Ge	72	335303.355	335303.36				ug/L
|	As	75	205.249	0.00	0.5168	0.038	7.319	ug/L
|	Se	77	103.344	0.00	0.6140	0.225	36.676	ug/L
|	Se	82	75.445	0.00	1.0277	0.237	23.101	ug/L
⌊	Rb	85	6564.220	0.02				mg/L
	Y	89	197973.893	-16601.75				ug/L
	Rh	103	75.668	67.00				ug/L
⌈	Mo	98	344.685	0.00	0.1959	0.023	11.667	ug/L
|	Ag	107	620.692	0.00	0.1649	0.013	7.897	ug/L
|	Cd	114	13.626	0.00	-0.0310	0.011	33.972	ug/L
|>	In	115	276502.109	276502.11				ug/L
|	Sn	118	3505.681	0.01	0.9192	0.013	1.369	ug/L
⌊	Sb	123	98.290	0.00	0.0432	0.003	6.870	ug/L
⌈	Ba	135	50187.803	0.14	37.3652	0.592	1.585	ug/L
|	Ce	140	1910.374	0.01				ug/L
⌊>	Tb	159	363011.411	363011.41				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	37.000	0.00	0.0054	0.001	24.287	ug/L
|	Tl	205	63.340	0.00	0.0218	0.000	2.098	ug/L
|	Pb	206	3945.818	0.01	0.7778	0.021	2.643	ug/L
|	Pb	207	3336.590	0.01	0.7547	0.019	2.494	ug/L
|	Pb	208	15519.548	0.04	0.7504	0.010	1.371	ug/L
|	U	238	56951.625	0.15	1.9942	0.003	0.150	ug/L
⌊>	Bi	209	372848.374	372848.37				ug/L

Sample ID: L1011062707
Report Date/Time: Monday, November 22, 2010 18:29:59
Page 1

Approved: November 23, 2010

⌈	Na	23	58041479.449	213.14	12.8420	0.402	3.127	mg/L
|	Mg	24	47366116.459	174.01	17.3170	0.059	0.343	mg/L
|	K	39	3747295.729	12.18	0.4431	0.010	2.156	mg/L
|	Ca	43	959384.012	3.52	52.5088	1.196	2.278	mg/L
|	Fe	54	213610.593	0.59	0.3347	0.006	1.854	mg/L
|	Fe	57	100610.686	0.34	0.4009	0.010	2.406	mg/L
⌊>	Sc-1	45	272205.505	272205.51				mg/L
	Cl	35	556575.749	534397.85				mg/L
	Kr	83	25.667	-6.33				mg/L
	Br	81	41437.008	31799.70				mg/L
	P	31	18813.829	8289.60				mg/L
	S	34	568032.411	383289.92				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.722			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.668			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.205			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.338			
⌈	Na	23					

Sample ID: L1011062707
Report Date/Time: Monday, November 22, 2010 18:29:59
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062709

Sample Date/Time: Monday, November 22, 2010 18:34:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 81
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29844.484	0.02				ug/L
|	Be	9	3.333	-0.00	0.0201	0.011	54.702	ug/L
|	Al	27	37403.282	0.15	7.1063	0.332	4.675	ug/L
⌊>	Sc	45	239230.492	239230.49				ug/L
⌈	Ti	49	230.026	0.00	0.5054	0.142	28.001	ug/L
|	V	51	473.241	-0.01	-0.2485	0.064	25.666	ug/L
|	Cr	52	24742.487	0.06	3.1214	0.060	1.931	ug/L
|	Cr	53	6476.079	0.02	9.1781	0.402	4.375	ug/L
|	Mn	55	3455.632	0.01	0.3411	0.005	1.378	ug/L
|	Co	59	2529.345	0.01	0.3148	0.005	1.530	ug/L
|	Ni	60	10108.542	0.04	6.2676	0.159	2.540	ug/L
|	Cu	65	833.710	0.00	0.4647	0.025	5.419	ug/L
|	Zn	66	1658.821	0.01	1.6619	0.047	2.821	ug/L
| >	Ge	72	286303.774	286303.77				ug/L
|	As	75	1547.469	0.01	2.8460	0.091	3.186	ug/L
|	Se	77	366.710	0.00	6.6801	1.389	20.790	ug/L
|	Se	82	502.390	0.00	8.7552	0.106	1.215	ug/L
⌊	Rb	85	69303.355	0.24				mg/L
	Y	89	177003.732	-37571.91				ug/L
	Rh	103	154.003	145.34				ug/L
⌈	Mo	98	17455.414	0.07	12.3360	0.285	2.311	ug/L
|	Ag	107	24.000	0.00	-0.0090	0.001	14.252	ug/L
|	Cd	114	34.350	0.00	-0.0006	0.006	961.794	ug/L
| >	In	115	236734.140	236734.14				ug/L
|	Sn	118	1018.719	0.00	0.1668	0.016	9.525	ug/L
⌊	Sb	123	69.537	0.00	0.0370	0.000	1.066	ug/L
⌈	Ba	135	310328.367	1.00	270.5086	0.865	0.320	ug/L
|	Ce	140	220.024	0.00				ug/L
⌊>	Tb	159	310191.221	310191.22				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	18.667	0.00	0.0031	0.001	39.226	ug/L
|	Tl	205	36.670	0.00	0.0207	0.001	7.128	ug/L
|	Pb	206	487.683	0.00	0.0668	0.011	15.845	ug/L
|	Pb	207	398.345	0.00	0.0669	0.005	7.265	ug/L
|	Pb	208	1889.089	0.00	0.0628	0.001	2.162	ug/L
|	U	238	108.335	0.00	-0.0010	0.001	64.228	ug/L
⌊>	Bi	209	285640.368	285640.37				ug/L

Sample ID: L1011062709
Report Date/Time: Monday, November 22, 2010 18:36:48
Page 1

Approved: November 23, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	168579.283	0.70	0.0567	0.003	4.914	mg/L
|	K	39	39183354.984	162.28	6.0019	0.153	2.553	mg/L
|	Ca	43	1872314.506	7.84	116.8606	10.283	8.799	mg/L
|	Fe	54	83015.602	0.16	0.0859	0.010	11.326	mg/L
|	Fe	57	92168.704	0.36	0.4201	0.020	4.710	mg/L
⌊>	Sc-1	45	239230.492	239230.49				mg/L
	Cl	35	5494615.165	5472437.26				mg/L
	Kr	83	34.000	2.00				mg/L
	Br	81	286388.785	276751.48				mg/L
	P	31	15902.737	5378.50				mg/L
	S	34	193125.857	8383.37				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		75.756			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		84.477			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		88.188			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		74.571			
⌈	Na	23					

Sample ID: L1011062709
Report Date/Time: Monday, November 22, 2010 18:36:48
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ba 135 Upper, S, EEE	Ba	135	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062711

Sample Date/Time: Monday, November 22, 2010 18:41:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 82
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33589.735	0.02				ug/L
|	Be	9	6.667	0.00	0.0295	0.010	35.401	ug/L
|	Al	27	34175.181	0.11	5.4767	0.095	1.737	ug/L
⌊>	Sc	45	277728.948	277728.95				ug/L
⌈	Ti	49	503.396	0.00	0.9190	0.097	10.609	ug/L
|	V	51	3211.549	0.00	0.0740	0.020	26.923	ug/L
|	Cr	52	10070.170	0.01	0.2452	0.031	12.608	ug/L
|	Cr	53	896.797	0.00	0.7473	0.093	12.436	ug/L
|	Mn	55	86040.087	0.25	7.6875	0.104	1.348	ug/L
|	Co	59	5109.690	0.01	0.5406	0.009	1.672	ug/L
|	Ni	60	6483.166	0.02	3.3140	0.049	1.489	ug/L
|	Cu	65	2073.569	0.01	1.0439	0.006	0.598	ug/L
|	Zn	66	15782.603	0.05	14.7040	0.115	0.784	ug/L
|>	Ge	72	345555.882	345555.88				ug/L
|	As	75	64.595	0.00	0.3097	0.046	14.948	ug/L
|	Se	77	90.009	0.00	0.3152	0.473	150.058	ug/L
|	Se	82	67.485	0.00	0.8779	0.201	22.925	ug/L
⌊	Rb	85	907.050	0.00				mg/L
	Y	89	203759.596	-10816.05				ug/L
	Rh	103	59.667	51.00				ug/L
⌈	Mo	98	204.863	0.00	0.1066	0.013	12.139	ug/L
|	Ag	107	16.334	0.00	-0.0126	0.001	8.214	ug/L
|	Cd	114	-6.296	-0.00	-0.0535	0.020	37.024	ug/L
|>	In	115	286990.454	286990.45				ug/L
|	Sn	118	8473.856	0.03	2.4325	0.014	0.581	ug/L
⌊	Sb	123	117.039	0.00	0.0485	0.004	7.923	ug/L
⌈	Ba	135	66765.810	0.18	48.9103	0.403	0.823	ug/L
|	Ce	140	693.427	0.00				ug/L
⌊>	Tb	159	368986.499	368986.50				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	19.334	0.00	0.0020	0.001	41.613	ug/L
|	Tl	205	30.003	0.00	0.0193	0.001	3.543	ug/L
|	Pb	206	576.022	0.00	0.0508	0.004	7.576	ug/L
|	Pb	207	493.684	0.00	0.0576	0.002	2.999	ug/L
|	Pb	208	2238.453	0.00	0.0480	0.002	4.652	ug/L
|	U	238	38388.928	0.10	1.3101	0.014	1.084	ug/L
⌊>	Bi	209	381997.502	381997.50				ug/L

Sample ID: L1011062711
Report Date/Time: Monday, November 22, 2010 18:43:37
Page 1

Approved: November 23, 2010

Na	23	62139682.197	224.12	13.5035	0.643	4.761	mg/L
Mg	24	63324759.534	228.39	22.7332	0.968	4.257	mg/L
K	39	4993968.687	16.42	0.6001	0.023	3.846	mg/L
Ca	43	972370.468	3.50	52.1769	0.674	1.292	mg/L
Fe	54	94074.998	0.15	0.0813	0.010	11.979	mg/L
Fe	57	43321.295	0.13	0.1474	0.011	7.598	mg/L
> Sc-1	45	277728.948	277728.95				mg/L
Cl	35	315316.041	293138.14				mg/L
Kr	83	21.000	-11.00				mg/L
Br	81	41447.736	31810.43				mg/L
P	31	19449.580	8925.35				mg/L
S	34	713552.256	528809.76				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		91.435			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		102.411			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		104.904			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		99.727			
Na	23					

Sample ID: L1011062711
Report Date/Time: Monday, November 22, 2010 18:43:37

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062901

Sample Date/Time: Monday, November 22, 2010 18:48:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 83
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35178.441	0.02				ug/L
|	Be	9	4.667	-0.00	0.0231	0.004	18.485	ug/L
|	Al	27	84421.874	0.30	14.4849	1.112	7.676	ug/L
⌊>	Sc	45	274862.377	274862.38				ug/L
⌈	Ti	49	430.053	0.00	0.7911	0.196	24.821	ug/L
|	V	51	1113.109	-0.00	-0.1809	0.032	17.486	ug/L
|	Cr	52	13641.771	0.02	0.7849	0.010	1.264	ug/L
|	Cr	53	7393.472	0.02	8.7578	0.250	2.859	ug/L
|	Mn	55	49022.711	0.14	4.4118	0.035	0.797	ug/L
|	Co	59	812.041	0.00	0.0699	0.002	3.392	ug/L
|	Ni	60	1940.875	0.01	0.9786	0.015	1.528	ug/L
|	Cu	65	749.036	0.00	0.3292	0.006	1.872	ug/L
|	Zn	66	8659.168	0.02	8.0478	0.062	0.775	ug/L
|>	Ge	72	341949.103	341949.10				ug/L
|	As	75	728.654	0.00	1.2541	0.086	6.860	ug/L
|	Se	77	323.371	0.00	4.5740	1.469	32.112	ug/L
|	Se	82	309.757	0.00	4.4665	0.012	0.271	ug/L
⌊	Rb	85	5597.289	0.02				mg/L
	Y	89	201075.015	-13500.63				ug/L
	Rh	103	41.667	33.00				ug/L
⌈	Mo	98	453.243	0.00	0.2608	0.008	3.191	ug/L
|	Ag	107	22.334	0.00	-0.0107	0.001	13.574	ug/L
|	Cd	114	15.800	0.00	-0.0284	0.006	22.809	ug/L
|>	In	115	277258.709	277258.71				ug/L
|	Sn	118	1019.785	0.00	0.1107	0.009	7.913	ug/L
⌊	Sb	123	258.794	0.00	0.1014	0.013	13.018	ug/L
⌈	Ba	135	21452.542	0.06	15.7502	0.225	1.431	ug/L
|	Ce	140	553.404	0.00				ug/L
⌊>	Tb	159	367826.844	367826.84				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	26.334	0.00	0.0036	0.001	38.531	ug/L
|	Tl	205	43.338	0.00	0.0205	0.002	7.876	ug/L
|	Pb	206	505.685	0.00	0.0435	0.005	10.670	ug/L
|	Pb	207	455.348	0.00	0.0562	0.002	3.495	ug/L
|	Pb	208	2083.440	0.00	0.0477	0.002	4.074	ug/L
|	U	238	400.679	0.00	0.0087	0.001	8.623	ug/L
⌊>	Bi	209	356643.543	356643.54				ug/L

Sample ID: L1011062901
Report Date/Time: Monday, November 22, 2010 18:50:22
Page 1

Approved: November 23, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	58033914.438	211.20	21.0219	0.396	1.884	mg/L
|	K	39	7254817.774	24.81	0.9109	0.012	1.337	mg/L
|	Ca	43	60622.681	0.22	3.2810	0.094	2.863	mg/L
|	Fe	54	203466.578	0.55	0.3094	0.006	1.846	mg/L
|	Fe	57	54684.794	0.17	0.1983	0.015	7.599	mg/L
⌊>	Sc-1	45	274862.377	274862.38				mg/L
	Cl	35	3431091.798	3408913.90				mg/L
	Kr	83	29.000	-3.00				mg/L
	Br	81	175365.158	165727.85				mg/L
	P	31	94233.273	83709.04				mg/L
	S	34	528975.027	344232.54				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.480			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.938			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.574			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.107			
⌈	Na	23					

Sample ID: L1011062901
Report Date/Time: Monday, November 22, 2010 18:50:22
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011062901
Report Date/Time: Monday, November 22, 2010 18:50:22
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062902

Sample Date/Time: Monday, November 22, 2010 18:54:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 84
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32252.072	0.01				ug/L
|	Be	9	2.667	-0.00	0.0167	0.004	22.874	ug/L
|	Al	27	42423.155	0.15	7.0642	0.271	3.840	ug/L
⌊>	Sc	45	272926.173	272926.17				ug/L
⌈	Ti	49	406.716	0.00	0.7740	0.162	20.904	ug/L
|	V	51	1229.990	-0.00	-0.1610	0.051	31.600	ug/L
|	Cr	52	12742.241	0.01	0.7116	0.039	5.525	ug/L
|	Cr	53	6966.457	0.02	8.4957	0.083	0.972	ug/L
|	Mn	55	33931.477	0.10	3.1396	0.040	1.289	ug/L
|	Co	59	697.365	0.00	0.0596	0.004	6.403	ug/L
|	Ni	60	1733.834	0.01	0.8988	0.004	0.478	ug/L
|	Cu	65	710.366	0.00	0.3204	0.012	3.830	ug/L
|	Zn	66	3944.484	0.01	3.6571	0.073	1.983	ug/L
|>	Ge	72	331636.459	331636.46				ug/L
|	As	75	872.159	0.00	1.4965	0.117	7.807	ug/L
|	Se	77	336.706	0.00	5.0181	0.070	1.400	ug/L
|	Se	82	363.751	0.00	5.4288	0.491	9.043	ug/L
⌊	Rb	85	5213.077	0.02				mg/L
	Y	89	193547.850	-21027.80				ug/L
	Rh	103	32.000	23.33				ug/L
⌈	Mo	98	454.987	0.00	0.2764	0.017	6.118	ug/L
|	Ag	107	10.667	-0.00	-0.0139	0.001	7.210	ug/L
|	Cd	114	17.788	0.00	-0.0252	0.010	40.705	ug/L
|>	In	115	263338.141	263338.14				ug/L
|	Sn	118	978.848	0.00	0.1140	0.016	14.177	ug/L
⌊	Sb	123	276.878	0.00	0.1130	0.005	4.402	ug/L
⌈	Ba	135	19670.524	0.06	15.2619	0.167	1.091	ug/L
|	Ce	140	263.363	0.00				ug/L
⌊>	Tb	159	348039.643	348039.64				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	27.667	0.00	0.0041	0.001	23.552	ug/L
|	Tl	205	70.007	0.00	0.0227	0.002	7.012	ug/L
|	Pb	206	341.343	0.00	0.0095	0.003	30.694	ug/L
|	Pb	207	291.007	0.00	0.0170	0.002	11.415	ug/L
|	Pb	208	1353.383	0.00	0.0103	0.001	14.270	ug/L
|	U	238	391.345	0.00	0.0089	0.001	12.331	ug/L
⌊>	Bi	209	343728.732	343728.73				ug/L

Sample ID: L1011062902
Report Date/Time: Monday, November 22, 2010 18:57:07
Page 1

Approved: November 23, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	55043377.349	201.84	20.0890	0.859	4.274	mg/L
|	K	39	6852803.877	23.54	0.8637	0.031	3.542	mg/L
|	Ca	43	54795.216	0.20	2.9856	0.044	1.481	mg/L
|	Fe	54	188332.709	0.50	0.2810	0.009	3.149	mg/L
|	Fe	57	52308.374	0.16	0.1894	0.004	2.263	mg/L
⌊>	Sc-1	45	272926.173	272926.17				mg/L
	Cl	35	3272855.085	3250677.18				mg/L
	Kr	83	30.000	-2.00				mg/L
	Br	81	219237.449	209600.14				mg/L
	P	31	89068.987	78544.75				mg/L
	S	34	523687.493	338945.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.752			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.971			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.949			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.736			
⌈	Na	23					

Sample ID: L1011062902
Report Date/Time: Monday, November 22, 2010 18:57:07

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 22, 2010 19:01:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27705.208	0.00				ug/L
|	Be	9	14966.527	0.06	51.3639	1.831	3.564	ug/L
|	Al	27	290682.415	1.13	54.9407	0.605	1.100	ug/L
|>	Sc	45	255644.012	255644.01				ug/L
⌈	Ti	49	53310.384	0.16	98.8054	2.125	2.151	ug/L
|	V	51	417536.448	1.21	51.1836	0.447	0.874	ug/L
|	Cr	52	363138.036	1.04	52.0702	1.151	2.210	ug/L
|	Cr	53	43314.599	0.13	52.9415	0.944	1.783	ug/L
|	Mn	55	576510.857	1.68	52.2044	0.723	1.386	ug/L
|	Co	59	465040.713	1.36	51.5082	0.524	1.017	ug/L
|	Ni	60	98002.191	0.29	51.0747	0.453	0.886	ug/L
|	Cu	65	93166.952	0.27	50.9796	0.024	0.047	ug/L
|	Zn	66	52191.703	0.15	49.6448	0.233	0.469	ug/L
|>	Ge	72	342207.566	342207.57				ug/L
|	As	75	34550.969	0.10	49.2987	0.445	0.904	ug/L
|	Se	77	2830.684	0.01	50.2306	1.602	3.190	ug/L
|	Se	82	3437.069	0.01	50.6283	0.334	0.659	ug/L
⌊	Rb	85	1098.405	0.00				mg/L
	Y	89	198643.274	-15932.37				ug/L
	Rh	103	14.667	6.00				ug/L
⌈	Mo	98	153602.703	0.57	95.2014	0.138	0.145	ug/L
|	Ag	107	165819.861	0.61	49.7709	0.434	0.871	ug/L
|	Cd	114	42092.374	0.16	49.2142	0.724	1.471	ug/L
|>	In	115	270161.686	270161.69				ug/L
|	Sn	118	149697.758	0.55	49.5579	0.664	1.339	ug/L
⌊	Sb	123	134300.708	0.50	49.8646	0.826	1.657	ug/L
⌈	Ba	135	62384.289	0.18	48.7514	1.056	2.166	ug/L
|	Ce	140	146.682	0.00				ug/L
|>	Tb	159	345936.022	345936.02				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	283305.275	0.75	50.5675	0.373	0.738	ug/L
|	Tl	205	685883.919	1.81	49.1309	0.694	1.413	ug/L
|	Pb	206	233926.155	0.62	49.2886	0.343	0.695	ug/L
|	Pb	207	205721.594	0.54	49.2776	0.827	1.677	ug/L
|	Pb	208	951346.814	2.50	49.1418	0.372	0.758	ug/L
|	U	238	1492625.697	3.93	51.4791	0.702	1.364	ug/L
|>	Bi	209	379640.504	379640.50				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 19:03:53
Page 1

Approved: November 23, 2010

Na	23	22850212.454	89.34	5.3776	0.054	1.008	mg/L
Mg	24	13789546.933	53.95	5.3597	0.068	1.266	mg/L
K	39	36417217.624	140.88	5.2092	0.067	1.284	mg/L
Ca	43	89551.748	0.35	5.2127	0.142	2.724	mg/L
Fe	54	2471477.368	9.48	5.3904	0.144	2.675	mg/L
Fe	57	1202066.183	4.68	5.5568	0.263	4.737	mg/L
> Sc-1	45	255644.012	255644.01				mg/L
Cl	35	28303.337	6125.43				mg/L
Kr	83	26.667	-5.33				mg/L
Br	81	23671.369	14034.06				mg/L
P	31	9615.979	-908.25				mg/L
S	34	188456.026	3713.53				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	102.367				
Cr	52	104.140				
Cr	53					
Mn	55	104.409				
Co	59	103.016				
Ni	60	102.149				
Cu	65	101.959				
Zn	66	99.290				
> Ge	72		90.549			
As	75	98.597				
Se	77					
Se	82	101.257				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.542				
Cd	114	98.428				
> In	115		96.406			
Sn	118					
Sb	123	99.729				
Ba	135	97.503				
Ce	140					
> Tb	159		98.351			
Ho	165					
Tl	203	101.135				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.284				
U	238	102.958				
> Bi	209		99.111			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 19:03:53

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 19:03:53
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 22, 2010 19:08:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33974.350	0.02				ug/L
|	Be	9	2.667	-0.00	0.0166	0.007	44.117	ug/L
|	Al	27	2416.962	-0.00	-0.1000	0.049	48.733	ug/L
⌊>	Sc	45	279434.817	279434.82				ug/L
⌈	Ti	49	60.006	0.00	0.1006	0.017	17.201	ug/L
|	V	51	2514.693	-0.00	-0.0246	0.012	46.920	ug/L
|	Cr	52	8326.883	-0.00	-0.0618	0.029	47.652	ug/L
|	Cr	53	536.735	0.00	0.2788	0.121	43.551	ug/L
|	Mn	55	317.675	0.00	-0.0060	0.001	18.563	ug/L
|	Co	59	60.334	-0.00	-0.0138	0.001	5.889	ug/L
|	Ni	60	25.000	0.00	-0.0219	0.003	13.685	ug/L
|	Cu	65	95.001	0.00	-0.0322	0.003	9.804	ug/L
|	Zn	66	281.673	0.00	0.0216	0.008	37.501	ug/L
|>	Ge	72	361585.021	361585.02				ug/L
|	As	75	-143.881	0.00	0.0258	0.056	216.687	ug/L
|	Se	77	33.337	-0.00	-0.7327	0.098	13.324	ug/L
|	Se	82	10.757	0.00	0.0407	0.064	158.270	ug/L
⌊	Rb	85	10.667	-0.00				mg/L
	Y	89	214494.187	-81.46				ug/L
	Rh	103	5.667	-3.00				ug/L
⌈	Mo	98	100.896	0.00	0.0450	0.009	19.752	ug/L
|	Ag	107	16.000	0.00	-0.0128	0.001	4.006	ug/L
|	Cd	114	8.449	-0.00	-0.0374	0.013	34.761	ug/L
|>	In	115	291815.668	291815.67				ug/L
|	Sn	118	792.298	0.00	0.0242	0.006	26.646	ug/L
⌊	Sb	123	286.212	0.00	0.1060	0.022	20.696	ug/L
⌈	Ba	135	8.667	-0.00	-0.0157	0.002	10.397	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	373940.164	373940.16				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	15.000	0.00	0.0011	0.000	45.220	ug/L
|	Tl	205	20.002	0.00	0.0185	0.001	3.523	ug/L
|	Pb	206	322.675	-0.00	-0.0076	0.000	3.638	ug/L
|	Pb	207	280.007	0.00	0.0015	0.006	386.793	ug/L
|	Pb	208	1344.717	0.00	-0.0032	0.001	42.132	ug/L
|	U	238	58.001	0.00	-0.0041	0.000	11.355	ug/L
⌊>	Bi	209	413677.591	413677.59				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 19:10:36
Page 1

Approved: November 23, 2010

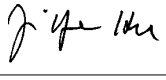
⌈	Na	23	40191.293	0.10	-0.0022	0.000	5.195	mg/L
|	Mg	24	616.748	0.00	-0.0133	0.000	0.224	mg/L
|	K	39	399722.871	-0.15	-0.0138	0.002	12.003	mg/L
|	Ca	43	120.013	-0.00	0.0001	0.002	1812.508	mg/L
|	Fe	54	51041.230	-0.01	-0.0078	0.003	34.735	mg/L
|	Fe	57	7623.671	-0.00	-0.0061	0.002	31.990	mg/L
⌊>	Sc-1	45	279434.817	279434.82				mg/L
	Cl	35	22977.037	799.13				mg/L
	Kr	83	28.000	-4.00				mg/L
	Br	81	17775.118	8137.81				mg/L
	P	31	10641.731	117.50				mg/L
	S	34	198920.630	14178.14				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.676			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.133			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.312			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		107.997			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 19:10:36
Page 2

Approved: November 23, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 19:10:36

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: PBS 54 WG349196-02

Sample Date/Time: Monday, November 22, 2010 19:15:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 85
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30212.392	0.00				ug/L
|	Be	9	7.333	0.00	0.0312	0.014	46.275	ug/L
|	Al	27	3300.551	0.00	0.0577	0.081	139.890	ug/L
⌊>	Sc	45	277994.642	277994.64				ug/L
⌈	Ti	49	33.337	-0.00	0.0532	0.011	20.070	ug/L
|	V	51	2591.216	-0.00	-0.0191	0.012	65.224	ug/L
|	Cr	52	8501.364	-0.00	-0.0512	0.017	34.076	ug/L
|	Cr	53	363.376	0.00	0.0718	0.072	100.830	ug/L
|	Mn	55	384.011	0.00	-0.0006	0.002	321.868	ug/L
|	Co	59	60.001	-0.00	-0.0140	0.001	3.652	ug/L
|	Ni	60	54.667	0.00	-0.0076	0.004	54.652	ug/L
|	Cu	65	97.668	0.00	-0.0314	0.005	16.811	ug/L
|	Zn	66	1130.409	0.00	0.7776	0.036	4.638	ug/L
|>	Ge	72	365830.142	365830.14				ug/L
|	As	75	-168.857	-0.00	-0.0057	0.064	1116.854	ug/L
|	Se	77	66.674	0.00	-0.1688	0.711	421.478	ug/L
|	Se	82	12.736	0.00	0.0645	0.255	394.296	ug/L
⌊	Rb	85	13.333	0.00				mg/L
	Y	89	213527.273	-1048.37				ug/L
	Rh	103	5.667	-3.00				ug/L
⌈	Mo	98	34.009	0.00	0.0062	0.004	59.918	ug/L
|	Ag	107	11.333	-0.00	-0.0141	0.001	6.026	ug/L
|	Cd	114	5.492	-0.00	-0.0406	0.005	12.046	ug/L
|>	In	115	295660.545	295660.54				ug/L
|	Sn	118	674.823	-0.00	-0.0148	0.001	6.868	ug/L
⌊	Sb	123	88.705	0.00	0.0377	0.001	3.980	ug/L
⌈	Ba	135	16.667	0.00	-0.0098	0.003	27.647	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	369621.465	369621.46				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	10.333	-0.00	0.0003	0.000	33.342	ug/L
|	Tl	205	20.002	0.00	0.0185	0.001	6.158	ug/L
|	Pb	206	341.676	-0.00	-0.0043	0.002	37.582	ug/L
|	Pb	207	274.007	-0.00	-0.0002	0.007	4259.054	ug/L
|	Pb	208	1346.717	-0.00	-0.0035	0.003	88.321	ug/L
|	U	238	17.667	0.00	-0.0054	0.000	1.926	ug/L
⌊>	Bi	209	416524.361	416524.36				ug/L

Sample ID: PBS 54 WG349196-02
Report Date/Time: Monday, November 22, 2010 19:17:22
Page 1

Approved: November 23, 2010

Na	23	39056.698	0.10	-0.0024	0.000	1.753	mg/L
Mg	24	1353.561	0.00	-0.0131	0.000	0.294	mg/L
K	39	409357.588	-0.11	-0.0122	0.001	5.797	mg/L
Ca	43	130.014	-0.00	0.0007	0.001	209.795	mg/L
Fe	54	51508.867	-0.01	-0.0063	0.004	63.871	mg/L
Fe	57	7723.759	-0.00	-0.0055	0.002	27.689	mg/L
> Sc-1	45	277994.642	277994.64				mg/L
Cl	35	22435.807	257.91				mg/L
Kr	83	30.334	-1.67				mg/L
Br	81	15221.578	5584.27				mg/L
P	31	10540.893	16.66				mg/L
S	34	211085.805	26343.31				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		96.799			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		105.505			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		105.084			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		108.740			
Na	23					

Sample ID: PBS 54 WG349196-02
Report Date/Time: Monday, November 22, 2010 19:17:22
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 54 WG349196-02
Report Date/Time: Monday, November 22, 2010 19:17:22
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: LCSS 54 WG349196-03

Sample Date/Time: Monday, November 22, 2010 19:21:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 86
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30747.208	0.00				ug/L
|	Be	9	8322.799	0.03	26.0407	1.171	4.499	ug/L
|	Al	27	144537.404	0.51	24.6361	1.111	4.510	ug/L
⌊>	Sc	45	280411.695	280411.69				ug/L
⌈	Ti	49	50.005	0.00	0.0820	0.016	19.685	ug/L
|	V	51	226988.859	0.61	25.9137	0.528	2.036	ug/L
|	Cr	52	203640.723	0.53	26.7725	0.235	0.878	ug/L
|	Cr	53	22106.644	0.06	25.1423	1.438	5.720	ug/L
|	Mn	55	318055.963	0.87	26.9650	0.425	1.577	ug/L
|	Co	59	258974.538	0.71	26.8636	0.289	1.076	ug/L
|	Ni	60	54597.862	0.15	26.6421	0.604	2.268	ug/L
|	Cu	65	51739.393	0.14	26.4796	0.188	0.711	ug/L
|	Zn	66	28507.201	0.08	25.2869	0.275	1.088	ug/L
|>	Ge	72	365325.680	365325.68				ug/L
|	As	75	18092.397	0.05	24.2989	0.477	1.964	ug/L
|	Se	77	1633.630	0.00	26.5752	2.280	8.580	ug/L
|	Se	82	1779.926	0.00	24.5102	0.711	2.901	ug/L
⌊	Rb	85	15.667	0.00				mg/L
	Y	89	215382.847	807.20				ug/L
	Rh	103	10.667	2.00				ug/L
⌈	Mo	98	27.123	0.00	0.0023	0.003	146.455	ug/L
|	Ag	107	92286.589	0.31	25.3653	0.191	0.752	ug/L
|	Cd	114	22615.047	0.08	24.2007	0.607	2.508	ug/L
|>	In	115	294902.259	294902.26				ug/L
|	Sn	118	618.152	-0.00	-0.0314	0.013	41.363	ug/L
⌊	Sb	123	71802.331	0.24	24.4263	0.185	0.758	ug/L
⌈	Ba	135	33442.837	0.09	23.9827	0.121	0.506	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	376729.729	376729.73				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	155605.627	0.37	25.0821	0.215	0.855	ug/L
|	Tl	205	385508.601	0.92	24.9533	0.711	2.851	ug/L
|	Pb	206	130732.681	0.31	24.8423	0.245	0.985	ug/L
|	Pb	207	114513.614	0.27	24.7390	0.163	0.658	ug/L
|	Pb	208	527168.717	1.25	24.5574	0.118	0.479	ug/L
|	U	238	813706.363	1.94	25.3407	0.192	0.756	ug/L
⌊>	Bi	209	420414.143	420414.14				ug/L

Approved: November 23, 2010

⌈	Na	23	30435.966	0.07	-0.0043	0.000	6.427	mg/L
|	Mg	24	570.073	0.00	-0.0134	0.000	0.015	mg/L
|	K	39	403901.808	-0.14	-0.0134	0.001	7.310	mg/L
|	Ca	43	126.680	-0.00	0.0005	0.003	562.369	mg/L
|	Fe	54	52906.077	-0.00	-0.0044	0.001	25.734	mg/L
|	Fe	57	7193.334	-0.00	-0.0081	0.003	42.290	mg/L
⌊>	Sc-1	45	280411.695	280411.69				mg/L
	Cl	35	21185.084	-992.82				mg/L
	Kr	83	29.334	-2.67				mg/L
	Br	81	13342.900	3705.59				mg/L
	P	31	10195.876	-328.36				mg/L
	S	34	199722.877	14980.39				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.666			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.234			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		107.105			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.756			
⌈	Na	23					

Sample ID: LCSS 54 WG349196-03
Report Date/Time: Monday, November 22, 2010 19:24:08
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062802 WG349196-01

Sample Date/Time: Monday, November 22, 2010 19:28:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 87
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	33054.652	0.01				ug/L
|	Be	9	20.000	0.00	0.0717	0.013	18.129	ug/L
|	Al	27	8525116.588	30.77	1500.9834	104.458	6.959	ug/L
⌊>	Sc	45	277519.866	277519.87				ug/L
⌜	Ti	49	5662.171	0.02	9.6207	0.425	4.418	ug/L
|	V	51	-6589.791	-0.03	-1.0634	0.611	57.468	ug/L
|	Cr	52	673821.669	1.78	89.4734	1.183	1.322	ug/L
|	Cr	53	80238.863	0.21	90.1950	3.012	3.340	ug/L
|	Mn	55	363139.819	0.97	30.1482	0.256	0.848	ug/L
|	Co	59	2716.396	0.01	0.2559	0.003	1.097	ug/L
|	Ni	60	10070.840	0.03	4.7832	0.162	3.396	ug/L
|	Cu	65	45808.477	0.12	22.9486	0.176	0.765	ug/L
|	Zn	66	323215.844	0.87	283.1084	2.376	0.839	ug/L
|>	Ge	72	373048.518	373048.52				ug/L
|	As	75	4733.904	0.01	6.3877	0.123	1.926	ug/L
|	Se	77	123.346	0.00	0.7522	0.751	99.809	ug/L
|	Se	82	46.427	0.00	0.5190	0.096	18.420	ug/L
⌊	Rb	85	428.013	0.00				mg/L
	Y	89	219110.103	4534.46				ug/L
	Rh	103	29.667	21.00				ug/L
⌜	Mo	98	914.768	0.00	0.5011	0.019	3.847	ug/L
|	Ag	107	2122.580	0.01	0.5607	0.016	2.844	ug/L
|	Cd	114	3209.775	0.01	3.3603	0.027	0.813	ug/L
|>	In	115	297911.496	297911.50				ug/L
|	Sn	118	8479.861	0.03	2.3370	0.040	1.730	ug/L
⌊	Sb	123	808.866	0.00	0.2799	0.008	2.846	ug/L
⌜	Ba	135	8445.983	0.02	5.9285	0.086	1.453	ug/L
|	Ce	140	28459.980	0.07				ug/L
⌊>	Tb	159	383832.217	383832.22				ug/L
⌜	Ho	165	226.692	0.00				ug/L
|	Tl	203	688.364	0.00	0.1018	0.002	2.296	ug/L
|	Tl	205	1827.016	0.00	0.1270	0.003	2.515	ug/L
|	Pb	206	300464.315	0.66	53.1686	0.684	1.287	ug/L
|	Pb	207	245365.146	0.54	49.3540	0.203	0.411	ug/L
|	Pb	208	1168755.972	2.58	50.6993	0.444	0.875	ug/L
|	U	238	6229.335	0.01	0.1745	0.003	1.567	ug/L
⌊>	Bi	209	452102.830	452102.83				ug/L

Approved: November 23, 2010

⌈	Na	23	2154523.371	7.74	0.4579	0.025	5.522	mg/L
|	Mg	24	2153677.040	7.77	0.7607	0.044	5.846	mg/L
|	K	39	1199421.886	2.74	0.0934	0.003	3.055	mg/L
|	Ca	43	133951.460	0.48	7.1915	0.247	3.438	mg/L
|	Fe	54	1412458.675	4.91	2.7897	0.199	7.125	mg/L
|	Fe	57	593941.174	2.11	2.5082	0.054	2.162	mg/L
⌊>	Sc-1	45	277519.866	277519.87				mg/L
	Cl	35	52783.708	30605.81				mg/L
	Kr	83	27.667	-4.33				mg/L
	Br	81	16520.973	6883.66				mg/L
	P	31	179359.155	168834.92				mg/L
	S	34	223134.121	38391.63				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.709			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.308			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.124			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		118.029			
⌈	Na	23					

Sample ID: L1011062802 WG349196-01
Report Date/Time: Monday, November 22, 2010 19:30:55
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
V 51 Lower	V	51	
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062802S WG349196-04

Sample Date/Time: Monday, November 22, 2010 19:35:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 88
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33773.864	0.01				ug/L
|	Be	9	309.338	0.00	0.9784	0.151	15.401	ug/L
|	Al	27	8310691.118	29.67	1447.3745	151.295	10.453	ug/L
⌊>	Sc	45	281245.149	281245.15				ug/L
⌈	Ti	49	4671.560	0.01	7.7819	0.409	5.258	ug/L
|	V	51	2192.793	-0.00	-0.0731	0.598	818.310	ug/L
|	Cr	52	651831.828	1.69	84.8227	1.121	1.321	ug/L
|	Cr	53	77977.329	0.20	85.9442	1.214	1.412	ug/L
|	Mn	55	362307.939	0.95	29.4993	0.388	1.314	ug/L
|	Co	59	10938.423	0.03	1.0703	0.027	2.499	ug/L
|	Ni	60	11039.868	0.03	5.1452	0.062	1.211	ug/L
|	Cu	65	46564.973	0.12	22.8779	0.362	1.580	ug/L
|	Zn	66	326391.709	0.86	280.3677	2.582	0.921	ug/L
|>	Ge	72	380396.684	380396.68				ug/L
|	As	75	5072.434	0.01	6.7015	0.133	1.987	ug/L
|	Se	77	180.020	0.00	1.6413	0.495	30.175	ug/L
|	Se	82	94.758	0.00	1.1488	0.140	12.197	ug/L
⌊	Rb	85	415.346	0.00				mg/L
	Y	89	220861.224	6285.58				ug/L
	Rh	103	29.000	20.33				ug/L
⌈	Mo	98	886.687	0.00	0.4705	0.014	2.976	ug/L
|	Ag	107	1374.442	0.00	0.3459	0.004	1.137	ug/L
|	Cd	114	3754.303	0.01	3.8205	0.096	2.520	ug/L
|>	In	115	307029.263	307029.26				ug/L
|	Sn	118	7501.880	0.02	1.9751	0.015	0.754	ug/L
⌊	Sb	123	1630.100	0.01	0.5400	0.003	0.570	ug/L
⌈	Ba	135	33242.830	0.09	23.0649	0.448	1.942	ug/L
|	Ce	140	28155.731	0.07				ug/L
⌊>	Tb	159	389428.531	389428.53				ug/L
⌈	Ho	165	193.355	0.00				ug/L
|	Tl	203	5620.302	0.01	0.8303	0.010	1.199	ug/L
|	Tl	205	14441.869	0.03	0.8746	0.028	3.236	ug/L
|	Pb	206	295290.057	0.64	51.5818	0.311	0.603	ug/L
|	Pb	207	245405.116	0.54	48.7318	0.463	0.949	ug/L
|	Pb	208	1161899.388	2.53	49.7570	0.445	0.895	ug/L
|	U	238	33378.949	0.07	0.9485	0.013	1.385	ug/L
⌊>	Bi	209	457968.602	457968.60				ug/L

Approved: November 23, 2010

⌈	Na	23	2298003.156	8.15	0.4828	0.023	4.670	mg/L
|	Mg	24	2048690.463	7.31	0.7144	0.056	7.781	mg/L
|	K	39	1258912.917	2.90	0.0995	0.011	11.508	mg/L
|	Ca	43	131117.068	0.47	6.9599	0.456	6.552	mg/L
|	Fe	54	1348675.921	4.62	2.6244	0.182	6.919	mg/L
|	Fe	57	573397.565	2.02	2.3932	0.160	6.669	mg/L
⌊>	Sc-1	45	281245.149	281245.15				mg/L
	Cl	35	44233.050	22055.15				mg/L
	Kr	83	28.000	-4.00				mg/L
	Br	81	14345.616	4708.31				mg/L
	P	31	174300.132	163775.90				mg/L
	S	34	233805.079	49062.59				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.654			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.562			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.716			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		119.560			
⌈	Na	23					

Sample ID: L1011062802S WG349196-04
Report Date/Time: Monday, November 22, 2010 19:37:42
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Sample ID: L1011062802S WG349196-04
Report Date/Time: Monday, November 22, 2010 19:37:42
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062802SD WG349196-05

Sample Date/Time: Monday, November 22, 2010 19:42:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 89
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33656.802	0.01				ug/L
|	Be	9	299.338	0.00	0.9194	0.162	17.609	ug/L
|	Al	27	8139078.988	28.15	1373.2145	20.765	1.512	ug/L
⌊>	Sc	45	289071.193	289071.19				ug/L
⌈	Ti	49	6439.384	0.02	10.9114	0.352	3.224	ug/L
|	V	51	4753.515	0.01	0.2149	0.277	129.038	ug/L
|	Cr	52	652564.813	1.72	86.3611	1.056	1.222	ug/L
|	Cr	53	75729.895	0.20	84.8623	0.929	1.095	ug/L
|	Mn	55	359366.113	0.96	29.7504	0.452	1.520	ug/L
|	Co	59	10971.126	0.03	1.0917	0.003	0.266	ug/L
|	Ni	60	11478.368	0.03	5.4418	0.184	3.374	ug/L
|	Cu	65	46103.163	0.12	23.0300	0.233	1.013	ug/L
|	Zn	66	320917.937	0.86	280.3136	5.205	1.857	ug/L
|>	Ge	72	374167.826	374167.83				ug/L
|	As	75	5024.458	0.01	6.7490	0.193	2.860	ug/L
|	Se	77	146.682	0.00	1.1273	0.714	63.297	ug/L
|	Se	82	102.729	0.00	1.2787	0.126	9.862	ug/L
⌊	Rb	85	500.351	0.00				mg/L
	Y	89	217644.728	3069.08				ug/L
	Rh	103	31.000	22.33				ug/L
⌈	Mo	98	877.577	0.00	0.4781	0.026	5.423	ug/L
|	Ag	107	3938.149	0.01	1.0501	0.036	3.387	ug/L
|	Cd	114	3655.679	0.01	3.8168	0.081	2.125	ug/L
|>	In	115	299238.075	299238.08				ug/L
|	Sn	118	7922.738	0.02	2.1587	0.042	1.941	ug/L
⌊	Sb	123	1233.538	0.00	0.4211	0.014	3.350	ug/L
⌈	Ba	135	35692.618	0.09	25.0078	0.243	0.972	ug/L
|	Ce	140	28102.244	0.07				ug/L
⌊>	Tb	159	385593.487	385593.49				ug/L
⌈	Ho	165	216.691	0.00				ug/L
|	Tl	203	5671.998	0.01	0.8424	0.009	1.106	ug/L
|	Tl	205	13714.111	0.03	0.8358	0.041	4.900	ug/L
|	Pb	206	291030.070	0.64	51.1081	0.780	1.527	ug/L
|	Pb	207	240234.479	0.53	47.9541	0.421	0.878	ug/L
|	Pb	208	1135281.555	2.49	48.8717	0.548	1.122	ug/L
|	U	238	33315.403	0.07	0.9517	0.015	1.559	ug/L
⌊>	Bi	209	455585.475	455585.47				ug/L

Sample ID: L1011062802SD WG349196-05
Report Date/Time: Monday, November 22, 2010 19:44:29
Page 1

Approved: November 23, 2010

⌈	Na	23	2351792.067	8.10	0.4801	0.025	5.118	mg/L
|	Mg	24	2019411.253	6.99	0.6827	0.024	3.530	mg/L
|	K	39	1322078.174	2.99	0.1028	0.006	6.043	mg/L
|	Ca	43	131580.794	0.45	6.7757	0.214	3.165	mg/L
|	Fe	54	1343421.539	4.46	2.5345	0.107	4.226	mg/L
|	Fe	57	561430.014	1.91	2.2723	0.073	3.234	mg/L
⌊>	Sc-1	45	289071.193	289071.19				mg/L
	Cl	35	51935.891	29757.99				mg/L
	Kr	83	31.334	-0.67				mg/L
	Br	81	14518.539	4881.23				mg/L
	P	31	174015.979	163491.75				mg/L
	S	34	224027.555	39285.06				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.005			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.782			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.625			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		118.938			
⌈	Na	23					

Sample ID: L1011062802SD WG349196-05
Report Date/Time: Monday, November 22, 2010 19:44:29
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Sample ID: L1011062802SD WG349196-05
Report Date/Time: Monday, November 22, 2010 19:44:29
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062801

Sample Date/Time: Monday, November 22, 2010 19:49:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 90
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34743.627	0.02				ug/L
|	Be	9	19.333	0.00	0.0680	0.020	29.315	ug/L
|	Al	27	8035992.120	28.59	1394.5436	17.488	1.254	ug/L
⌊>	Sc	45	281013.529	281013.53				ug/L
⌈	Ti	49	4331.371	0.01	7.1893	0.163	2.261	ug/L
|	V	51	-7963.020	-0.03	-1.1988	0.385	32.153	ug/L
|	Cr	52	636818.725	1.64	82.5079	1.497	1.815	ug/L
|	Cr	53	74430.069	0.19	81.7073	1.387	1.698	ug/L
|	Mn	55	345508.889	0.90	28.0185	0.156	0.558	ug/L
|	Co	59	2507.340	0.01	0.2287	0.012	5.376	ug/L
|	Ni	60	9240.693	0.02	4.2843	0.046	1.067	ug/L
|	Cu	65	44025.197	0.12	21.5411	0.651	3.020	ug/L
|	Zn	66	338610.115	0.89	289.7699	4.000	1.380	ug/L
|>	Ge	72	381887.902	381887.90				ug/L
|	As	75	4395.736	0.01	5.8156	0.120	2.066	ug/L
|	Se	77	90.010	0.00	0.1595	0.988	619.549	ug/L
|	Se	82	31.082	0.00	0.3018	0.097	32.195	ug/L
⌊	Rb	85	423.680	0.00				mg/L
	Y	89	217385.935	2810.29				ug/L
	Rh	103	35.667	27.00				ug/L
⌈	Mo	98	836.240	0.00	0.4459	0.019	4.278	ug/L
|	Ag	107	982.058	0.00	0.2438	0.006	2.416	ug/L
|	Cd	114	2882.252	0.01	2.9402	0.116	3.933	ug/L
|>	In	115	305248.869	305248.87				ug/L
|	Sn	118	7730.721	0.02	2.0559	0.071	3.450	ug/L
⌊	Sb	123	712.315	0.00	0.2418	0.016	6.714	ug/L
⌈	Ba	135	31786.428	0.08	22.0624	0.486	2.203	ug/L
|	Ce	140	27216.386	0.07				ug/L
⌊>	Tb	159	389265.156	389265.16				ug/L
⌈	Ho	165	216.691	0.00				ug/L
|	Tl	203	737.368	0.00	0.1066	0.006	5.974	ug/L
|	Tl	205	1837.020	0.00	0.1251	0.011	8.714	ug/L
|	Pb	206	290227.623	0.63	50.1715	0.140	0.279	ug/L
|	Pb	207	239174.794	0.52	47.0007	0.214	0.456	ug/L
|	Pb	208	1127953.278	2.43	47.8004	0.152	0.317	ug/L
|	U	238	5840.430	0.01	0.1593	0.002	1.260	ug/L
⌊>	Bi	209	462733.636	462733.64				ug/L

Sample ID: L1011062801
Report Date/Time: Monday, November 22, 2010 19:51:17
Page 1

Approved: November 23, 2010

⌈	Na	23	2204299.458	7.81	0.4624	0.020	4.329	mg/L
|	Mg	24	2009544.736	7.15	0.6990	0.022	3.076	mg/L
|	K	39	1234320.602	2.81	0.0960	0.004	4.053	mg/L
|	Ca	43	126231.082	0.45	6.6901	0.186	2.783	mg/L
|	Fe	54	1333594.994	4.56	2.5897	0.068	2.607	mg/L
|	Fe	57	558300.650	1.96	2.3270	0.131	5.642	mg/L
⌊>	Sc-1	45	281013.529	281013.53				mg/L
	Cl	35	50330.431	28152.53				mg/L
	Kr	83	29.000	-3.00				mg/L
	Br	81	13946.386	4309.08				mg/L
	P	31	173058.043	162533.81				mg/L
	S	34	224832.087	40089.60				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.048			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.927			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.669			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		120.804			
⌈	Na	23					

Sample ID: L1011062801
Report Date/Time: Monday, November 22, 2010 19:51:17
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
V 51 Lower	V	51	
Zn 66 Upper, S, EEE	Zn	66	
Bi 209 Int Std for sam	Bi	209	Rerun for AFCEE sample

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062801PS WG349368-01

Sample Date/Time: Monday, November 22, 2010 19:55:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 91
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33857.324	0.02				ug/L
|	Be	9	17970.136	0.06	56.3359	0.122	0.216	ug/L
|	Al	27	8830071.941	31.56	1539.5272	30.518	1.982	ug/L
⌊>	Sc	45	279726.185	279726.19				ug/L
⌈	Ti	49	4674.893	0.01	7.8206	0.068	0.870	ug/L
|	V	51	466493.554	1.22	51.6537	0.525	1.016	ug/L
|	Cr	52	1067416.692	2.79	140.2440	1.170	0.835	ug/L
|	Cr	53	127763.822	0.34	141.6120	2.369	1.673	ug/L
|	Mn	55	1040502.955	2.75	85.1185	0.686	0.806	ug/L
|	Co	59	553348.710	1.46	55.3632	0.413	0.746	ug/L
|	Ni	60	125857.981	0.33	59.2473	0.121	0.203	ug/L
|	Cu	65	157180.560	0.41	77.7290	0.578	0.744	ug/L
|	Zn	66	413921.411	1.09	357.0467	1.793	0.502	ug/L
|>	Ge	72	378868.810	378868.81				ug/L
|	As	75	44197.820	0.12	56.9292	0.438	0.769	ug/L
|	Se	77	3594.339	0.01	57.7883	0.848	1.467	ug/L
|	Se	82	3800.588	0.01	50.5654	0.449	0.888	ug/L
⌊	Rb	85	440.347	0.00				mg/L
	Y	89	222855.491	8279.84				ug/L
	Rh	103	47.001	38.33				ug/L
⌈	Mo	98	941.364	0.00	0.5057	0.014	2.850	ug/L
|	Ag	107	197291.184	0.65	52.6378	0.504	0.957	ug/L
|	Cd	114	52691.021	0.17	54.7783	1.661	3.032	ug/L
|>	In	115	303942.938	303942.94				ug/L
|	Sn	118	8080.197	0.02	2.1682	0.041	1.903	ug/L
⌊	Sb	123	153906.836	0.51	50.7944	1.037	2.041	ug/L
⌈	Ba	135	105816.752	0.27	72.8069	2.566	3.524	ug/L
|	Ce	140	28737.462	0.07				ug/L
⌊>	Tb	159	393048.061	393048.06				ug/L
⌈	Ho	165	216.691	0.00				ug/L
|	Tl	203	326962.133	0.71	48.4195	0.474	0.979	ug/L
|	Tl	205	810424.021	1.77	48.1607	0.027	0.056	ug/L
|	Pb	206	575402.188	1.26	100.6593	0.755	0.750	ug/L
|	Pb	207	487729.803	1.07	96.9875	1.005	1.036	ug/L
|	Pb	208	2280761.933	4.98	97.8139	1.080	1.104	ug/L
|	U	238	1757094.942	3.84	50.2764	0.456	0.907	ug/L
⌊>	Bi	209	457606.849	457606.85				ug/L

Sample ID: L1011062801PS WG349368-01
Report Date/Time: Monday, November 22, 2010 19:58:05
Page 1

Approved: November 23, 2010

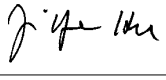
Na	23	2281524.966	8.12	0.4810	0.006	1.254	mg/L	
Mg	24	2081109.020	7.44	0.7274	0.002	0.297	mg/L	
K	39	1282146.594	3.00	0.1031	0.006	5.609	mg/L	
Ca	43	135657.519	0.48	7.2222	0.229	3.174	mg/L	
Fe	54	1387309.944	4.77	2.7106	0.056	2.052	mg/L	
Fe	57	594062.857	2.10	2.4879	0.068	2.739	mg/L	
> Sc-1	45	279726.185	279726.19				mg/L	
Cl	35	51461.531	29283.63				mg/L	
Kr	83	20.667	-11.33				mg/L	
Br	81	13658.656	4021.35				mg/L	
P	31	180588.351	170064.12				mg/L	
S	34	228099.077	43356.59				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		100.249			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		108.461			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		111.745			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		119.466			
Na	23					

Sample ID: L1011062801PS WG349368-01
Report Date/Time: Monday, November 22, 2010 19:58:05

Approved: November 23, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Cr 52 Upper, S, EEE	Cr	52	
Zn 66 Upper, S, EEE	Zn	66	
Pb 206 Upper, S, EEE	Pb	206	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011062801SDL WG349368-02

Sample Date/Time: Monday, November 22, 2010 20:02:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 92
Method File: C:\elandata\Method\6020a.mth
Sample Description: 125

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32536.418	0.01				ug/L
|	Be	9	8.000	0.00	0.0336	0.017	50.507	ug/L
|	Al	27	1653814.736	5.97	290.9246	11.094	3.813	ug/L
⌊>	Sc	45	277073.560	277073.56				ug/L
⌈	Ti	49	773.441	0.00	1.2917	0.057	4.443	ug/L
|	V	51	1203.601	-0.00	-0.1835	0.071	38.467	ug/L
|	Cr	52	137884.885	0.34	17.0938	0.399	2.332	ug/L
|	Cr	53	15920.928	0.04	17.3832	0.686	3.945	ug/L
|	Mn	55	71866.055	0.19	5.8614	0.184	3.133	ug/L
|	Co	59	605.358	0.00	0.0406	0.004	9.718	ug/L
|	Ni	60	2324.960	0.01	1.0634	0.033	3.077	ug/L
|	Cu	65	9348.795	0.02	4.5560	0.073	1.594	ug/L
|	Zn	66	104783.500	0.28	90.4011	1.408	1.558	ug/L
|>	Ge	72	378157.167	378157.17				ug/L
|	As	75	790.170	0.00	1.2363	0.111	8.940	ug/L
|	Se	77	70.007	0.00	-0.1451	0.767	528.149	ug/L
|	Se	82	14.128	0.00	0.0802	0.127	158.907	ug/L
⌊	Rb	85	111.335	0.00				mg/L
	Y	89	223138.311	8562.67				ug/L
	Rh	103	8.000	-0.67				ug/L
⌈	Mo	98	184.903	0.00	0.0903	0.008	8.860	ug/L
|	Ag	107	218.005	0.00	0.0418	0.008	20.053	ug/L
|	Cd	114	608.172	0.00	0.5948	0.032	5.336	ug/L
|>	In	115	299834.858	299834.86				ug/L
|	Sn	118	1957.525	0.00	0.3667	0.015	4.084	ug/L
⌊	Sb	123	384.088	0.00	0.1361	0.005	3.808	ug/L
⌈	Ba	135	6482.499	0.02	4.5254	0.136	3.002	ug/L
|	Ce	140	5645.492	0.01				ug/L
⌊>	Tb	159	385547.904	385547.90				ug/L
⌈	Ho	165	63.340	0.00				ug/L
|	Tl	203	161.670	0.00	0.0238	0.001	3.378	ug/L
|	Tl	205	383.379	0.00	0.0411	0.004	9.559	ug/L
|	Pb	206	58720.486	0.13	10.7248	0.081	0.756	ug/L
|	Pb	207	48685.399	0.11	10.1118	0.090	0.888	ug/L
|	Pb	208	229075.799	0.52	10.2563	0.050	0.484	ug/L
|	U	238	1245.423	0.00	0.0314	0.002	5.451	ug/L
⌊>	Bi	209	435762.081	435762.08				ug/L

Sample ID: L1011062801SDL WG349368-02
Report Date/Time: Monday, November 22, 2010 20:04:53
Page 1

Approved: November 23, 2010

⌈	Na	23	564938.651	2.00	0.1121	0.003	3.101	mg/L
|	Mg	24	536090.090	1.94	0.1794	0.008	4.503	mg/L
|	K	39	590375.713	0.55	0.0122	0.003	24.027	mg/L
|	Ca	43	26821.942	0.10	1.4371	0.043	2.990	mg/L
|	Fe	54	312603.528	0.94	0.5311	0.034	6.431	mg/L
|	Fe	57	120537.673	0.41	0.4791	0.010	2.051	mg/L
⌊>	Sc-1	45	277073.560	277073.56				mg/L
	Cl	35	28844.883	6666.98				mg/L
	Kr	83	23.667	-8.33				mg/L
	Br	81	12071.282	2433.97				mg/L
	P	31	44960.868	34436.63				mg/L
	S	34	215200.824	30458.33				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.061			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.995			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.612			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		113.763			
⌈	Na	23					

Sample ID: L1011062801SDL WG349368-02
Report Date/Time: Monday, November 22, 2010 20:04:53
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 22, 2010 20:09:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33623.193	0.01				ug/L
|	Be	9	16923.650	0.06	52.6049	2.074	3.942	ug/L
|	Al	27	306218.083	1.08	52.4289	1.814	3.461	ug/L
⌊>	Sc	45	282246.099	282246.10				ug/L
⌈	Ti	49	58992.778	0.16	98.6216	2.046	2.075	ug/L
|	V	51	457411.774	1.20	50.5831	0.436	0.863	ug/L
|	Cr	52	397161.825	1.02	51.3532	0.230	0.449	ug/L
|	Cr	53	47765.321	0.13	52.6536	1.300	2.468	ug/L
|	Mn	55	647044.943	1.71	52.8537	0.140	0.265	ug/L
|	Co	59	529307.565	1.40	52.8914	0.258	0.487	ug/L
|	Ni	60	112200.085	0.30	52.7504	0.191	0.362	ug/L
|	Cu	65	105377.118	0.28	52.0187	0.458	0.881	ug/L
|	Zn	66	58970.625	0.15	50.6094	0.444	0.876	ug/L
|>	Ge	72	379324.175	379324.18				ug/L
|	As	75	38301.716	0.10	49.3062	0.606	1.229	ug/L
|	Se	77	3234.181	0.01	51.7911	2.978	5.749	ug/L
|	Se	82	3692.524	0.01	49.0675	0.413	0.842	ug/L
⌊	Rb	85	1266.760	0.00				mg/L
	Y	89	215757.471	1181.82				ug/L
	Rh	103	23.334	14.67				ug/L
⌈	Mo	98	169955.889	0.57	95.2062	2.151	2.259	ug/L
|	Ag	107	187743.821	0.63	50.9221	0.559	1.098	ug/L
|	Cd	114	45830.006	0.15	48.4184	1.169	2.414	ug/L
|>	In	115	298954.167	298954.17				ug/L
|	Sn	118	165124.285	0.55	49.3954	0.404	0.818	ug/L
⌊	Sb	123	145355.860	0.49	48.7717	0.832	1.706	ug/L
⌈	Ba	135	68974.759	0.18	49.1348	0.816	1.661	ug/L
|	Ce	140	146.683	0.00				ug/L
⌊>	Tb	159	379461.910	379461.91				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	306777.940	0.75	50.4972	0.755	1.496	ug/L
|	Tl	205	758524.087	1.84	50.0997	0.363	0.725	ug/L
|	Pb	206	256838.988	0.62	49.9022	0.349	0.700	ug/L
|	Pb	207	225636.883	0.55	49.8395	0.172	0.344	ug/L
|	Pb	208	1044037.563	2.53	49.7323	0.362	0.728	ug/L
|	U	238	1628717.662	3.96	51.7950	0.320	0.617	ug/L
⌊>	Bi	209	411712.126	411712.13				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 20:11:39
Page 1

Approved: November 23, 2010

⌈	Na	23	24986742.153	88.53	5.3292	0.178	3.347	mg/L
|	Mg	24	14967720.137	53.05	5.2700	0.104	1.965	mg/L
|	K	39	39476708.078	138.35	5.1154	0.164	3.209	mg/L
|	Ca	43	97021.398	0.34	5.1169	0.109	2.129	mg/L
|	Fe	54	2736364.827	9.51	5.4049	0.244	4.515	mg/L
|	Fe	57	1361624.273	4.80	5.6986	0.032	0.557	mg/L
⌊>	Sc-1	45	282246.099	282246.10				mg/L
	Cl	35	21899.292	-278.61				mg/L
	Kr	83	23.334	-8.67				mg/L
	Br	81	10984.699	1347.39				mg/L
	P	31	12015.940	1491.71				mg/L
	S	34	210438.778	25696.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	101.166				
|	Cr	52	102.706				
|	Cr	53					
|	Mn	55	105.707				
|	Co	59	105.783				
|	Ni	60	105.501				
|	Cu	65	104.037				
|	Zn	66	101.219				
|>	Ge	72		100.370			
|	As	75	98.612				
|	Se	77					
|	Se	82	98.135				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	101.844				
|	Cd	114	96.837				
|>	In	115		106.680			
|	Sn	118					
⌊	Sb	123	97.543				
⌈	Ba	135	98.270				
|	Ce	140					
⌊>	Tb	159		107.882			
⌈	Ho	165					
|	Tl	203	100.994				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.465				
|	U	238	103.590				
⌊>	Bi	209		107.484			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 20:11:39

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 20:11:39
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 22, 2010 20:16:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34877.435	0.02				ug/L
|	Be	9	2.000	-0.00	0.0144	0.006	43.499	ug/L
|	Al	27	2917.095	0.00	-0.0228	0.052	230.262	ug/L
⌊>	Sc	45	285399.199	285399.20				ug/L
⌈	Ti	49	40.004	-0.00	0.0609	0.017	27.862	ug/L
|	V	51	2838.624	-0.00	-0.0090	0.012	130.725	ug/L
|	Cr	52	8972.114	-0.00	-0.0556	0.033	58.887	ug/L
|	Cr	53	256.696	-0.00	-0.0668	0.040	60.319	ug/L
|	Mn	55	321.008	0.00	-0.0075	0.001	10.630	ug/L
|	Co	59	72.001	-0.00	-0.0131	0.001	9.282	ug/L
|	Ni	60	21.000	-0.00	-0.0245	0.001	2.856	ug/L
|	Cu	65	95.668	0.00	-0.0352	0.006	16.441	ug/L
|	Zn	66	317.008	0.00	0.0342	0.008	22.696	ug/L
|>	Ge	72	387603.542	387603.54				ug/L
|	As	75	-154.095	0.00	0.0261	0.046	175.085	ug/L
|	Se	77	93.343	0.00	0.1902	0.386	203.036	ug/L
|	Se	82	9.765	0.00	0.0179	0.066	367.963	ug/L
⌊	Rb	85	12.333	-0.00				mg/L
	Y	89	227308.414	12732.77				ug/L
	Rh	103	6.000	-2.67				ug/L
⌈	Mo	98	104.344	0.00	0.0433	0.010	22.753	ug/L
|	Ag	107	18.667	0.00	-0.0123	0.001	4.970	ug/L
|	Cd	114	6.754	-0.00	-0.0396	0.005	12.620	ug/L
|>	In	115	310036.001	310036.00				ug/L
|	Sn	118	647.488	-0.00	-0.0322	0.006	17.708	ug/L
⌊	Sb	123	310.420	0.00	0.1080	0.004	3.530	ug/L
⌈	Ba	135	10.000	-0.00	-0.0149	0.003	16.948	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	382957.892	382957.89				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	21.000	0.00	0.0019	0.001	28.634	ug/L
|	Tl	205	63.340	0.00	0.0211	0.001	6.177	ug/L
|	Pb	206	336.342	-0.00	-0.0084	0.002	24.160	ug/L
|	Pb	207	311.341	0.00	0.0048	0.005	95.100	ug/L
|	Pb	208	1381.385	-0.00	-0.0050	0.002	48.866	ug/L
|	U	238	57.001	0.00	-0.0043	0.000	11.683	ug/L
⌊>	Bi	209	437001.228	437001.23				ug/L

Approved: November 23, 2010

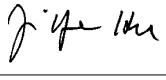
Na	23	17547.137	0.02	-0.0072	0.000	1.432	mg/L
Mg	24	316.703	0.00	-0.0134	0.000	0.099	mg/L
K	39	408871.726	-0.15	-0.0137	0.001	7.281	mg/L
Ca	43	126.680	-0.00	0.0003	0.003	795.002	mg/L
Fe	54	51994.773	-0.01	-0.0081	0.002	27.500	mg/L
Fe	57	8164.159	0.00	-0.0045	0.003	57.033	mg/L
> Sc-1	45	285399.199	285399.20				mg/L
Cl	35	20666.670	-1511.23				mg/L
Kr	83	27.000	-5.00				mg/L
Br	81	11348.436	1711.13				mg/L
P	31	11580.039	1055.81				mg/L
S	34	211921.013	27178.52				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		102.560			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		110.635			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		108.876			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		114.086			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 20:18:22

Approved: November 23, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 20:18:22

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: PBS 41 WG348572-02

Sample Date/Time: Monday, November 22, 2010 20:22:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 108
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33021.162	0.01				ug/L
|	Be	9	6.667	0.00	0.0284	0.007	25.156	ug/L
|	Al	27	3467.280	0.00	0.0667	0.126	188.792	ug/L
⌊>	Sc	45	289159.069	289159.07				ug/L
⌈	Ti	49	43.338	-0.00	0.0663	0.066	100.193	ug/L
|	V	51	2863.755	-0.00	-0.0067	0.016	246.409	ug/L
|	Cr	52	9004.143	-0.00	-0.0530	0.015	28.604	ug/L
|	Cr	53	273.365	-0.00	-0.0490	0.064	131.477	ug/L
|	Mn	55	366.677	0.00	-0.0039	0.001	24.714	ug/L
|	Co	59	79.334	0.00	-0.0124	0.001	8.368	ug/L
|	Ni	60	46.667	0.00	-0.0127	0.004	30.978	ug/L
|	Cu	65	95.668	0.00	-0.0353	0.001	3.977	ug/L
|	Zn	66	3240.558	0.01	2.4977	0.113	4.539	ug/L
|>	Ge	72	388022.833	388022.83				ug/L
|	As	75	-163.455	0.00	0.0144	0.008	58.176	ug/L
|	Se	77	63.340	-0.00	-0.2884	0.523	181.315	ug/L
|	Se	82	11.113	0.00	0.0353	0.076	216.359	ug/L
⌊	Rb	85	15.333	0.00				mg/L
	Y	89	228791.178	14215.53				ug/L
	Rh	103	4.333	-4.33				ug/L
⌈	Mo	98	26.859	0.00	0.0017	0.002	147.988	ug/L
|	Ag	107	12.000	-0.00	-0.0140	0.001	5.765	ug/L
|	Cd	114	7.517	-0.00	-0.0387	0.003	6.973	ug/L
|>	In	115	306009.357	306009.36				ug/L
|	Sn	118	541.481	-0.00	-0.0609	0.005	8.212	ug/L
⌊	Sb	123	112.748	0.00	0.0446	0.005	10.601	ug/L
⌈	Ba	135	17.000	0.00	-0.0100	0.002	18.547	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	384206.357	384206.36				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	14.333	0.00	0.0009	0.000	19.616	ug/L
|	Tl	205	20.002	0.00	0.0185	0.001	5.918	ug/L
|	Pb	206	335.009	-0.00	-0.0078	0.005	58.190	ug/L
|	Pb	207	316.675	0.00	0.0068	0.001	18.723	ug/L
|	Pb	208	1394.052	-0.00	-0.0035	0.002	62.728	ug/L
|	U	238	22.334	0.00	-0.0053	0.000	2.437	ug/L
⌊>	Bi	209	431001.222	431001.22				ug/L

Approved: November 23, 2010

⌈	Na	23	17754.190	0.02	-0.0072	0.000	2.528	mg/L
|	Mg	24	523.400	0.00	-0.0134	0.000	0.358	mg/L
|	K	39	420486.874	-0.13	-0.0128	0.002	19.379	mg/L
|	Ca	43	136.681	-0.00	0.0008	0.000	49.589	mg/L
|	Fe	54	53931.058	-0.00	-0.0056	0.004	76.161	mg/L
|	Fe	57	8841.465	0.00	-0.0021	0.004	171.633	mg/L
⌊>	Sc-1	45	289159.069	289159.07				mg/L
	Cl	35	20721.450	-1456.45				mg/L
	Kr	83	25.334	-6.67				mg/L
	Br	81	11591.382	1954.07				mg/L
	P	31	11064.150	539.92				mg/L
	S	34	214478.718	29736.23				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.671			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.198			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.231			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		112.520			
⌈	Na	23					

Sample ID: PBS 41 WG348572-02
Report Date/Time: Monday, November 22, 2010 20:25:08
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 41 WG348572-02
Report Date/Time: Monday, November 22, 2010 20:25:08
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: LCSS 41 WG348572-03

Sample Date/Time: Monday, November 22, 2010 20:29:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 109
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33255.445	0.01				ug/L
|	Be	9	8340.149	0.03	25.6839	1.617	6.297	ug/L
|	Al	27	146483.701	0.50	24.5456	1.011	4.120	ug/L
⌊>	Sc	45	284936.235	284936.23				ug/L
⌈	Ti	49	50.005	0.00	0.0783	0.016	19.961	ug/L
|	V	51	233971.175	0.61	25.5521	0.223	0.873	ug/L
|	Cr	52	204533.609	0.51	25.6835	0.171	0.665	ug/L
|	Cr	53	22657.905	0.06	24.6397	0.336	1.362	ug/L
|	Mn	55	320799.039	0.84	26.0211	0.222	0.852	ug/L
|	Co	59	264390.114	0.69	26.2390	0.248	0.945	ug/L
|	Ni	60	56965.725	0.15	26.5977	0.608	2.286	ug/L
|	Cu	65	53801.226	0.14	26.3496	0.014	0.054	ug/L
|	Zn	66	31289.526	0.08	26.5729	0.475	1.787	ug/L
|>	Ge	72	381762.744	381762.74				ug/L
|	As	75	18520.867	0.05	23.8053	0.350	1.471	ug/L
|	Se	77	1730.324	0.00	26.9062	3.483	12.946	ug/L
|	Se	82	1880.655	0.00	24.7844	1.054	4.253	ug/L
⌊	Rb	85	14.333	0.00				mg/L
	Y	89	222224.232	7648.59				ug/L
	Rh	103	14.000	5.33				ug/L
⌈	Mo	98	32.566	0.00	0.0051	0.003	63.554	ug/L
|	Ag	107	93105.015	0.31	25.1507	0.231	0.919	ug/L
|	Cd	114	23216.606	0.08	24.4177	0.427	1.749	ug/L
|>	In	115	300092.270	300092.27				ug/L
|	Sn	118	536.814	-0.00	-0.0591	0.007	11.359	ug/L
⌊	Sb	123	72932.069	0.24	24.3857	0.752	3.082	ug/L
⌈	Ba	135	34650.280	0.09	24.3733	0.539	2.212	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	384138.676	384138.68				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	153874.799	0.36	24.5176	0.230	0.938	ug/L
|	Tl	205	383212.399	0.90	24.5147	0.333	1.360	ug/L
|	Pb	206	130877.554	0.31	24.5864	0.568	2.311	ug/L
|	Pb	207	114747.472	0.27	24.5079	0.398	1.622	ug/L
|	Pb	208	531662.751	1.25	24.4871	0.625	2.553	ug/L
|	U	238	807707.047	1.90	24.8671	0.359	1.442	ug/L
⌊>	Bi	209	425292.776	425292.78				ug/L

Sample ID: LCSS 41 WG348572-03
Report Date/Time: Monday, November 22, 2010 20:31:55
Page 1

Approved: November 23, 2010

Na	23	19865.048	0.03	-0.0067	0.000	3.126	mg/L	
Mg	24	780.109	0.00	-0.0133	0.000	0.270	mg/L	
K	39	415243.621	-0.13	-0.0128	0.001	6.605	mg/L	
Ca	43	153.350	0.00	0.0017	0.002	132.365	mg/L	
Fe	54	52773.671	-0.01	-0.0063	0.005	80.722	mg/L	
Fe	57	8270.916	0.00	-0.0040	0.001	34.201	mg/L	
> Sc-1	45	284936.235	284936.23				mg/L	
Cl	35	20317.285	-1860.62				mg/L	
Kr	83	24.334	-7.67				mg/L	
Br	81	11098.826	1461.52				mg/L	
P	31	10154.508	-369.73				mg/L	
S	34	200875.510	16133.02				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		101.015			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		107.086			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		109.212			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		111.029			
Na	23					

Sample ID: LCSS 41 WG348572-03
Report Date/Time: Monday, November 22, 2010 20:31:55

Approved: November 23, 2010

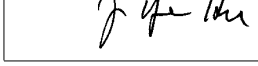
Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 41 WG348572-03
Report Date/Time: Monday, November 22, 2010 20:31:55
Page 3

Approved: November 23, 2010



Method 6020 - Summary Report

Sample ID: L1011044101 WG348572-01

Sample Date/Time: Monday, November 22, 2010 20:36:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 110
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33790.388	0.00				ug/L
|	Be	9	121.334	0.00	0.3531	0.065	18.479	ug/L
|	Al	27	15114065.660	48.94	2387.2116	32.495	1.361	ug/L
⌊>	Sc	45	308726.762	308726.76				ug/L
⌈	Ti	49	5738.887	0.01	9.3760	0.196	2.090	ug/L
|	V	51	40508.414	0.10	4.0945	0.725	17.695	ug/L
|	Cr	52	953235.002	2.43	122.1497	2.635	2.157	ug/L
|	Cr	53	113717.607	0.29	123.0307	1.097	0.892	ug/L
|	Mn	55	1927707.816	4.97	154.0064	0.327	0.212	ug/L
|	Co	59	387111.659	1.00	37.8141	0.392	1.038	ug/L
|	Ni	60	378649.179	0.98	174.1140	0.235	0.135	ug/L
|	Cu	65	186532.841	0.48	90.0961	2.293	2.546	ug/L
|	Zn	66	31600.167	0.08	26.4029	0.362	1.369	ug/L
|>	Ge	72	388014.031	388014.03				ug/L
|	As	75	1033.116	0.00	1.5139	0.057	3.796	ug/L
|	Se	77	66.674	0.00	-0.2400	0.660	274.900	ug/L
|	Se	82	16.368	0.00	0.1031	0.075	72.664	ug/L
⌊	Rb	85	28585.752	0.07				mg/L
	Y	89	251454.631	36878.98				ug/L
	Rh	103	26.667	18.00				ug/L
⌈	Mo	98	1720.430	0.01	0.9465	0.023	2.474	ug/L
|	Ag	107	20422.381	0.07	5.4998	0.165	3.003	ug/L
|	Cd	114	170.257	0.00	0.1328	0.014	10.167	ug/L
|>	In	115	300271.200	300271.20				ug/L
|	Sn	118	701.358	-0.00	-0.0100	0.007	74.059	ug/L
⌊	Sb	123	593.893	0.00	0.2059	0.011	5.411	ug/L
⌈	Ba	135	43561.783	0.11	30.8701	0.403	1.307	ug/L
|	Ce	140	150401.174	0.39				ug/L
⌊>	Tb	159	381329.968	381329.97				ug/L
⌈	Ho	165	2093.764	0.00				ug/L
|	Tl	203	348.010	0.00	0.0539	0.003	5.962	ug/L
|	Tl	205	886.795	0.00	0.0737	0.005	6.310	ug/L
|	Pb	206	30329.561	0.07	5.6263	0.006	0.106	ug/L
|	Pb	207	25257.449	0.06	5.3319	0.106	1.993	ug/L
|	Pb	208	119626.050	0.28	5.4408	0.016	0.301	ug/L
|	U	238	11876.501	0.03	0.3587	0.004	1.188	ug/L
⌊>	Bi	209	426509.278	426509.28				ug/L

Sample ID: L1011044101 WG348572-01
Report Date/Time: Monday, November 22, 2010 20:38:42
Page 1

Approved: November 23, 2010

⌈	Na	23	2152837.131	6.93	0.4096	0.004	0.945	mg/L
|	Mg	24	2979709.547	9.65	0.9477	0.013	1.329	mg/L
|	K	39	3177111.371	8.71	0.3144	0.003	0.878	mg/L
|	Ca	43	57809.063	0.19	2.7838	0.059	2.113	mg/L
|	Fe	54	3854714.522	12.30	6.9931	0.207	2.966	mg/L
|	Fe	57	1924497.439	6.21	7.3748	0.125	1.695	mg/L
⌊>	Sc-1	45	308726.762	308726.76				mg/L
	Cl	35	25660.223	3482.32				mg/L
	Kr	83	34.334	2.33				mg/L
	Br	81	11721.535	2084.23				mg/L
	P	31	246201.964	235677.73				mg/L
	S	34	215051.543	30309.05				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.669			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.150			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.413			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		111.347			
⌈	Na	23					

Sample ID: L1011044101 WG348572-01
Report Date/Time: Monday, November 22, 2010 20:38:42
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Cr 52 Upper, S, EEE	Cr	52	
Mn 55 Upper, S, EEE	Mn	55	
Ni 60 Upper, S, EEE	Ni	60	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011044101S WG348572-04

Sample Date/Time: Monday, November 22, 2010 20:43:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 111
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32185.048	-0.00				ug/L
|	Be	9	1795.496	0.01	5.0105	0.491	9.790	ug/L
|	Al	27	22394964.407	71.08	3467.1905	465.455	13.425	ug/L
⌊>	Sc	45	314162.025	314162.03				ug/L
⌈	Ti	49	10533.390	0.03	17.0910	3.201	18.732	ug/L
|	V	51	112172.405	0.28	11.7956	1.293	10.965	ug/L
|	Cr	52	680330.108	1.72	86.1853	12.238	14.200	ug/L
|	Cr	53	80724.857	0.21	86.6139	14.369	16.590	ug/L
|	Mn	55	2323489.206	5.94	184.3048	27.711	15.036	ug/L
|	Co	59	840618.581	2.15	81.5438	11.251	13.797	ug/L
|	Ni	60	248312.581	0.64	113.3638	18.100	15.966	ug/L
|	Cu	65	108693.142	0.28	52.0815	7.598	14.589	ug/L
|	Zn	66	44022.832	0.11	36.6069	5.506	15.042	ug/L
|>	Ge	72	390987.732	390987.73				ug/L
|	As	75	4820.694	0.01	6.2161	0.755	12.138	ug/L
|	Se	77	360.043	0.00	4.4310	0.497	11.225	ug/L
|	Se	82	341.350	0.00	4.3061	0.694	16.126	ug/L
⌊	Rb	85	36801.746	0.09				mg/L
	Y	89	255811.092	41235.45				ug/L
	Rh	103	14.667	6.00				ug/L
⌈	Mo	98	1206.538	0.00	0.6550	0.107	16.302	ug/L
|	Ag	107	29292.324	0.10	7.8383	1.115	14.229	ug/L
|	Cd	114	4591.484	0.02	4.7533	0.726	15.272	ug/L
|>	In	115	302670.904	302670.90				ug/L
|	Sn	118	580.684	-0.00	-0.0474	0.005	10.698	ug/L
⌊	Sb	123	879.668	0.00	0.2992	0.040	13.310	ug/L
⌈	Ba	135	67502.580	0.18	47.7560	6.632	13.887	ug/L
|	Ce	140	224896.590	0.59				ug/L
⌊>	Tb	159	381799.043	381799.04				ug/L
⌈	Ho	165	3127.472	0.01				ug/L
|	Tl	203	28625.640	0.07	4.6221	0.596	12.902	ug/L
|	Tl	205	69816.415	0.17	4.5409	0.650	14.309	ug/L
|	Pb	206	56889.766	0.13	10.7921	1.783	16.520	ug/L
|	Pb	207	48590.105	0.12	10.4849	1.641	15.653	ug/L
|	Pb	208	226157.872	0.54	10.5185	1.631	15.505	ug/L
|	U	238	163800.049	0.39	5.1067	0.765	14.978	ug/L
⌊>	Bi	209	419617.188	419617.19				ug/L

Sample ID: L1011044101S WG348572-04
Report Date/Time: Monday, November 22, 2010 20:45:29
Page 1

Approved: November 23, 2010

⌈	Na	23	2298237.949	7.26	0.4291	0.056	13.122	mg/L
|	Mg	24	3375288.547	10.72	1.0541	0.132	12.476	mg/L
|	K	39	4418164.835	12.45	0.4531	0.051	11.356	mg/L
|	Ca	43	44920.026	0.14	2.1190	0.259	12.221	mg/L
|	Fe	54	4937382.453	15.49	8.8108	1.081	12.271	mg/L
|	Fe	57	2172382.569	6.87	8.1676	1.000	12.248	mg/L
⌊>	Sc-1	45	314162.025	314162.03				mg/L
	Cl	35	23162.796	984.89				mg/L
	Kr	83	37.667	5.67				mg/L
	Br	81	11953.143	2315.83				mg/L
	P	31	143354.957	132830.72				mg/L
	S	34	209676.944	24934.45				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.456			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.007			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.546			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.548			
⌈	Na	23					

Sample ID: L1011044101S WG348572-04
Report Date/Time: Monday, November 22, 2010 20:45:29
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ni 60 Upper, S, EEE	Ni	60	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011044101SD WG348572-05

Sample Date/Time: Monday, November 22, 2010 20:50:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 112
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34325.679	0.01				ug/L
|	Be	9	1763.491	0.01	5.0193	0.741	14.770	ug/L
|	Al	27	18668051.222	60.51	2951.2306	439.023	14.876	ug/L
⌊>	Sc	45	308693.001	308693.00				ug/L
⌈	Ti	49	7760.501	0.02	12.5356	1.971	15.720	ug/L
|	V	51	104170.124	0.26	10.8822	1.680	15.442	ug/L
|	Cr	52	921760.384	2.32	116.6833	16.555	14.188	ug/L
|	Cr	53	107150.122	0.27	114.5575	13.440	11.732	ug/L
|	Mn	55	1710892.279	4.36	135.1234	13.126	9.714	ug/L
|	Co	59	397713.281	1.01	38.3984	5.348	13.927	ug/L
|	Ni	60	279021.652	0.71	126.8162	17.708	13.964	ug/L
|	Cu	65	80745.133	0.21	38.4973	5.682	14.759	ug/L
|	Zn	66	44120.013	0.11	36.5227	4.857	13.299	ug/L
|>	Ge	72	392569.544	392569.54				ug/L
|	As	75	4337.405	0.01	5.5902	0.768	13.742	ug/L
|	Se	77	366.710	0.00	4.5089	1.420	31.485	ug/L
|	Se	82	324.711	0.00	4.0685	0.690	16.964	ug/L
⌊	Rb	85	38149.690	0.10				mg/L
	Y	89	252783.816	38208.17				ug/L
	Rh	103	12.000	3.33				ug/L
⌈	Mo	98	1088.080	0.00	0.5892	0.061	10.323	ug/L
|	Ag	107	27367.659	0.09	7.3162	1.099	15.016	ug/L
|	Cd	114	4745.309	0.02	4.9102	0.746	15.201	ug/L
|>	In	115	302330.094	302330.09				ug/L
|	Sn	118	597.218	-0.00	-0.0424	0.007	16.023	ug/L
⌊	Sb	123	691.399	0.00	0.2368	0.021	9.044	ug/L
⌈	Ba	135	53643.088	0.14	38.1793	6.194	16.222	ug/L
|	Ce	140	217185.741	0.57				ug/L
⌊>	Tb	159	379893.035	379893.04				ug/L
⌈	Ho	165	2767.330	0.01				ug/L
|	Tl	203	28568.283	0.07	4.5584	0.682	14.970	ug/L
|	Tl	205	69485.580	0.16	4.4666	0.781	17.491	ug/L
|	Pb	206	50637.070	0.12	9.4838	1.374	14.493	ug/L
|	Pb	207	43970.409	0.10	9.3692	1.308	13.962	ug/L
|	Pb	208	204958.177	0.48	9.4128	1.375	14.604	ug/L
|	U	238	162709.330	0.38	5.0126	0.748	14.913	ug/L
⌊>	Bi	209	424692.554	424692.55				ug/L

Sample ID: L1011044101SD WG348572-05
Report Date/Time: Monday, November 22, 2010 20:52:17
Page 1

Approved: November 23, 2010

⌈	Na	23	1835265.012	5.91	0.3478	0.028	8.162	mg/L
|	Mg	24	3232181.336	10.48	1.0301	0.148	14.410	mg/L
|	K	39	4022547.320	11.45	0.4160	0.062	14.881	mg/L
|	Ca	43	41681.607	0.13	2.0060	0.238	11.853	mg/L
|	Fe	54	4382305.429	14.01	7.9700	1.242	15.587	mg/L
|	Fe	57	1973711.838	6.37	7.5714	0.741	9.792	mg/L
⌊>	Sc-1	45	308693.001	308693.00				mg/L
	Cl	35	25804.593	3626.69				mg/L
	Kr	83	34.334	2.33				mg/L
	Br	81	11751.569	2114.26				mg/L
	P	31	168817.525	158293.29				mg/L
	S	34	214849.586	30107.09				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.875			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.885			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.005			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.873			
⌈	Na	23					

Sample ID: L1011044101SD WG348572-05
Report Date/Time: Monday, November 22, 2010 20:52:17
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Cr 52 Upper, S, EEE	Cr	52	
Mn 55 Upper, S, EEE	Mn	55	
Ni 60 Upper, S, EEE	Ni	60	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040401

Sample Date/Time: Monday, November 22, 2010 20:56:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 113
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	30931.103	-0.01				ug/L
|	Be	9	32.667	0.00	0.1008	0.015	14.536	ug/L
|	Al	27	9496309.695	30.71	1497.6816	132.274	8.832	ug/L
⌊>	Sc	45	309242.113	309242.11				ug/L
⌜	Ti	49	16625.524	0.04	26.7618	1.793	6.701	ug/L
|	V	51	66732.165	0.16	6.8317	0.653	9.562	ug/L
|	Cr	52	36925.616	0.07	3.4892	0.272	7.796	ug/L
|	Cr	53	3420.930	0.01	3.3104	0.304	9.187	ug/L
|	Mn	55	435858.465	1.11	34.2682	2.984	8.707	ug/L
|	Co	59	13873.512	0.04	1.3150	0.146	11.124	ug/L
|	Ni	60	10046.172	0.03	4.5168	0.372	8.229	ug/L
|	Cu	65	5417.871	0.01	2.4973	0.312	12.483	ug/L
|	Zn	66	16151.920	0.04	13.1754	0.957	7.266	ug/L
|>	Ge	72	393752.716	393752.72				ug/L
|	As	75	1682.230	0.00	2.2938	0.271	11.818	ug/L
|	Se	77	80.008	0.00	-0.0382	0.295	771.667	ug/L
|	Se	82	19.418	0.00	0.1398	0.030	21.587	ug/L
⌊	Rb	85	15710.925	0.04				mg/L
	Y	89	250514.060	35938.41				ug/L
	Rh	103	5.333	-3.33				ug/L
⌜	Mo	98	836.016	0.00	0.4504	0.021	4.752	ug/L
|	Ag	107	76.001	0.00	0.0032	0.003	91.068	ug/L
|	Cd	114	29.489	0.00	-0.0156	0.008	51.901	ug/L
|>	In	115	302184.003	302184.00				ug/L
|	Sn	118	556.549	-0.00	-0.0543	0.006	11.794	ug/L
⌊	Sb	123	65.744	0.00	0.0294	0.006	19.012	ug/L
⌜	Ba	135	29278.142	0.08	20.9462	2.667	12.732	ug/L
|	Ce	140	142331.464	0.38				ug/L
⌊>	Tb	159	377934.262	377934.26				ug/L
⌜	Ho	165	1550.275	0.00				ug/L
|	Tl	203	274.673	0.00	0.0428	0.006	13.880	ug/L
|	Tl	205	663.422	0.00	0.0600	0.007	11.143	ug/L
|	Pb	206	19016.051	0.04	3.5496	0.371	10.459	ug/L
|	Pb	207	15659.521	0.04	3.3278	0.391	11.749	ug/L
|	Pb	208	74564.472	0.17	3.4122	0.396	11.615	ug/L
|	U	238	4348.996	0.01	0.1293	0.014	10.985	ug/L
⌊>	Bi	209	420771.936	420771.94				ug/L

Sample ID: L1011040401
Report Date/Time: Monday, November 22, 2010 20:59:05
Page 1

Approved: November 23, 2010

Na	23	140334.370	0.41	0.0165	0.002	11.192	mg/L	
Mg	24	1220807.984	3.95	0.3797	0.045	11.797	mg/L	
K	39	1532521.817	3.37	0.1168	0.013	11.518	mg/L	
Ca	43	15760.727	0.05	0.7532	0.075	10.008	mg/L	
Fe	54	4475308.492	14.28	8.1238	0.895	11.014	mg/L	
Fe	57	2018820.618	6.50	7.7265	0.503	6.516	mg/L	
> Sc-1	45	309242.113	309242.11				mg/L	
Cl	35	24618.942	2441.04				mg/L	
Kr	83	28.667	-3.33				mg/L	
Br	81	11111.503	1474.19				mg/L	
P	31	78488.992	67964.76				mg/L	
S	34	204510.399	19767.91				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		104.188			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		107.833			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		107.448			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		109.849			
Na	23					

Sample ID: L1011040401
Report Date/Time: Monday, November 22, 2010 20:59:05

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011040401
Report Date/Time: Monday, November 22, 2010 20:59:05
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040402

Sample Date/Time: Monday, November 22, 2010 21:03:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 114
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31449.509	-0.01				ug/L
|	Be	9	54.667	0.00	0.1604	0.015	9.175	ug/L
|	Al	27	11332619.282	35.98	1755.0846	46.996	2.678	ug/L
|>	Sc	45	314967.880	314967.88				ug/L
⌈	Ti	49	5201.873	0.01	8.2607	0.267	3.235	ug/L
|	V	51	53700.460	0.13	5.3591	0.044	0.824	ug/L
|	Cr	52	41384.549	0.08	3.9865	0.036	0.901	ug/L
|	Cr	53	3941.174	0.01	3.8086	0.314	8.248	ug/L
|	Mn	55	2736635.099	6.85	212.5242	3.692	1.737	ug/L
|	Co	59	18674.611	0.05	1.7536	0.030	1.725	ug/L
|	Ni	60	12661.138	0.03	5.6265	0.157	2.788	ug/L
|	Cu	65	5244.094	0.01	2.3826	0.073	3.083	ug/L
|	Zn	66	17656.751	0.04	14.2315	0.215	1.511	ug/L
|>	Ge	72	399251.093	399251.09				ug/L
|	As	75	580.035	0.00	0.9257	0.045	4.881	ug/L
|	Se	77	76.675	0.00	-0.1102	0.239	216.425	ug/L
|	Se	82	10.360	0.00	0.0218	0.039	180.066	ug/L
⌊	Rb	85	21638.939	0.05				mg/L
	Y	89	260440.450	45864.80				ug/L
	Rh	103	8.333	-0.33				ug/L
⌈	Mo	98	415.835	0.00	0.2121	0.008	3.994	ug/L
|	Ag	107	60.667	0.00	-0.0013	0.000	30.265	ug/L
|	Cd	114	56.537	0.00	0.0113	0.003	28.644	ug/L
|>	In	115	309331.505	309331.51				ug/L
|	Sn	118	463.477	-0.00	-0.0852	0.005	5.373	ug/L
⌊	Sb	123	46.663	0.00	0.0227	0.001	4.765	ug/L
⌈	Ba	135	14876.539	0.04	10.5662	0.024	0.230	ug/L
|	Ce	140	171953.490	0.45				ug/L
|>	Tb	159	379929.856	379929.86				ug/L
⌈	Ho	165	2543.911	0.01				ug/L
|	Tl	203	190.337	0.00	0.0297	0.003	10.438	ug/L
|	Tl	205	533.401	0.00	0.0522	0.004	7.352	ug/L
|	Pb	206	11913.879	0.03	2.2322	0.007	0.320	ug/L
|	Pb	207	9808.908	0.02	2.0946	0.062	2.963	ug/L
|	Pb	208	46401.116	0.11	2.1312	0.025	1.163	ug/L
|	U	238	5686.674	0.01	0.1737	0.005	3.147	ug/L
|>	Bi	209	414529.140	414529.14				ug/L

Sample ID: L1011040402
Report Date/Time: Monday, November 22, 2010 21:05:53
Page 1

Approved: November 23, 2010

⌈	Na	23	134461.500	0.39	0.0149	0.001	3.526	mg/L
|	Mg	24	1832758.958	5.82	0.5662	0.014	2.517	mg/L
|	K	39	2159206.177	5.27	0.1872	0.005	2.434	mg/L
|	Ca	43	141156.865	0.45	6.6721	0.158	2.371	mg/L
|	Fe	54	3332392.034	10.39	5.9082	0.089	1.502	mg/L
|	Fe	57	1631812.627	5.15	6.1253	0.208	3.398	mg/L
⌊>	Sc-1	45	314967.880	314967.88				mg/L
	Cl	35	28247.841	6069.94				mg/L
	Kr	83	35.334	3.33				mg/L
	Br	81	11523.303	1885.99				mg/L
	P	31	48305.087	37780.85				mg/L
	S	34	209161.711	24419.22				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.642			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.383			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.015			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		108.219			
⌈	Na	23					

Sample ID: L1011040402
Report Date/Time: Monday, November 22, 2010 21:05:53
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040402PS WG349146-03

Sample Date/Time: Monday, November 22, 2010 21:10:29
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 115
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30914.467	-0.00				ug/L
|	Be	9	17107.965	0.06	48.9705	2.403	4.908	ug/L
|	Al	27	10986285.673	35.84	1748.2090	74.785	4.278	ug/L
⌊>	Sc	45	306527.944	306527.94				ug/L
⌈	Ti	49	5048.446	0.01	8.3328	0.120	1.443	ug/L
|	V	51	540939.422	1.40	59.1410	0.790	1.335	ug/L
|	Cr	52	450312.090	1.15	57.6611	0.981	1.701	ug/L
|	Cr	53	54269.007	0.14	59.1462	1.787	3.021	ug/L
|	Mn	55	3280743.790	8.54	264.8472	2.387	0.901	ug/L
|	Co	59	566529.903	1.48	55.9214	0.406	0.727	ug/L
|	Ni	60	129303.230	0.34	60.0529	0.173	0.289	ug/L
|	Cu	65	113715.047	0.30	55.4565	0.435	0.784	ug/L
|	Zn	66	75744.288	0.20	64.2690	1.279	1.990	ug/L
| >	Ge	72	384018.427	384018.43				ug/L
|	As	75	39957.298	0.10	50.7985	0.462	0.910	ug/L
|	Se	77	3457.611	0.01	54.7727	3.054	5.577	ug/L
|	Se	82	3781.159	0.01	49.6311	0.743	1.498	ug/L
⌊	Rb	85	20781.111	0.05				mg/L
	Y	89	255748.933	41173.29				ug/L
	Rh	103	28.667	20.00				ug/L
⌈	Mo	98	422.168	0.00	0.2243	0.009	4.092	ug/L
|	Ag	107	186911.807	0.63	50.8900	0.309	0.607	ug/L
|	Cd	114	48469.075	0.16	51.4192	0.928	1.806	ug/L
| >	In	115	297821.328	297821.33				ug/L
|	Sn	118	551.215	-0.00	-0.0535	0.002	3.556	ug/L
⌊	Sb	123	151936.672	0.51	51.1796	1.198	2.341	ug/L
⌈	Ba	135	83662.361	0.22	59.8256	0.907	1.517	ug/L
|	Ce	140	168257.094	0.45				ug/L
⌊>	Tb	159	378043.364	378043.36				ug/L
⌈	Ho	165	2433.873	0.01				ug/L
|	Tl	203	313295.219	0.75	51.1372	0.661	1.292	ug/L
|	Tl	205	775993.945	1.87	50.8323	0.988	1.943	ug/L
|	Pb	206	273118.883	0.66	52.6280	0.515	0.979	ug/L
|	Pb	207	237842.322	0.57	52.0989	0.107	0.206	ug/L
|	Pb	208	1109518.433	2.67	52.4133	0.389	0.741	ug/L
|	U	238	1638164.003	3.95	51.6666	0.817	1.581	ug/L
⌊>	Bi	209	415178.944	415178.94				ug/L

Sample ID: L1011040402PS WG349146-03
Report Date/Time: Monday, November 22, 2010 21:12:41
Page 1

Approved: November 23, 2010

Na	23	135725.285	0.40	0.0158	0.001	6.527	mg/L	
Mg	24	1780735.504	5.81	0.5652	0.015	2.569	mg/L	
K	39	2087007.340	5.23	0.1855	0.008	4.445	mg/L	
Ca	43	136191.350	0.44	6.6142	0.082	1.243	mg/L	
Fe	54	3194607.290	10.23	5.8195	0.178	3.056	mg/L	
Fe	57	1636467.132	5.31	6.3107	0.177	2.808	mg/L	
Sc-1	45	306527.944	306527.94				mg/L	
Cl	35	27221.003	5043.10				mg/L	
Kr	83	31.334	-0.67				mg/L	
Br	81	10914.622	1277.31				mg/L	
P	31	47183.739	36659.51				mg/L	
S	34	211610.924	26868.43				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.612			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		106.276			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		107.479			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		108.389			
Na	23					

Sample ID: L1011040402PS WG349146-03
Report Date/Time: Monday, November 22, 2010 21:12:41
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040402SDL WG349146-04

Sample Date/Time: Monday, November 22, 2010 21:17:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 116
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31817.288	0.00				ug/L
|	Be	9	17.333	0.00	0.0592	0.019	32.241	ug/L
|	Al	27	2255473.709	7.53	367.1007	7.379	2.010	ug/L
⌊>	Sc	45	299177.298	299177.30				ug/L
⌈	Ti	49	980.146	0.00	1.6184	0.109	6.704	ug/L
|	V	51	12795.649	0.03	1.0919	0.033	3.002	ug/L
|	Cr	52	14783.067	0.01	0.7196	0.014	1.902	ug/L
|	Cr	53	866.791	0.00	0.6072	0.076	12.524	ug/L
|	Mn	55	616450.191	1.61	49.8655	1.204	2.414	ug/L
|	Co	59	3870.788	0.01	0.3631	0.016	4.497	ug/L
|	Ni	60	2613.368	0.01	1.1836	0.059	4.971	ug/L
|	Cu	65	1150.078	0.00	0.4815	0.002	0.334	ug/L
|	Zn	66	5460.212	0.01	4.4297	0.172	3.887	ug/L
|>	Ge	72	383084.831	383084.83				ug/L
|	As	75	5.324	0.00	0.2260	0.033	14.608	ug/L
|	Se	77	90.009	0.00	0.1646	0.872	529.403	ug/L
|	Se	82	18.438	0.00	0.1342	0.101	75.577	ug/L
⌊	Rb	85	4371.666	0.01				mg/L
	Y	89	223822.604	9246.96				ug/L
	Rh	103	3.667	-5.00				ug/L
⌈	Mo	98	81.120	0.00	0.0329	0.002	6.190	ug/L
|	Ag	107	30.334	0.00	-0.0089	0.001	13.511	ug/L
|	Cd	114	12.654	-0.00	-0.0330	0.010	30.656	ug/L
|>	In	115	295800.775	295800.77				ug/L
|	Sn	118	462.411	-0.00	-0.0794	0.009	11.000	ug/L
⌊	Sb	123	234.917	0.00	0.0872	0.007	7.471	ug/L
⌈	Ba	135	3067.501	0.01	2.2156	0.034	1.523	ug/L
|	Ce	140	35071.581	0.09				ug/L
⌊>	Tb	159	370732.741	370732.74				ug/L
⌈	Ho	165	476.726	0.00				ug/L
|	Tl	203	76.334	0.00	0.0109	0.002	17.562	ug/L
|	Tl	205	206.690	0.00	0.0305	0.004	12.165	ug/L
|	Pb	206	2788.417	0.01	0.4597	0.006	1.299	ug/L
|	Pb	207	2289.618	0.00	0.4344	0.014	3.239	ug/L
|	Pb	208	10832.415	0.02	0.4375	0.011	2.518	ug/L
|	U	238	1288.763	0.00	0.0341	0.002	6.678	ug/L
⌊>	Bi	209	421689.223	421689.22				ug/L

Sample ID: L1011040402SDL WG349146-04
Report Date/Time: Monday, November 22, 2010 21:19:30
Page 1

Approved: November 23, 2010

⌈	Na	23	41664.106	0.10	-0.0025	0.000	7.048	mg/L
|	Mg	24	479549.551	1.60	0.1461	0.003	1.957	mg/L
|	K	39	879568.235	1.35	0.0421	0.001	3.432	mg/L
|	Ca	43	27490.495	0.09	1.3627	0.016	1.168	mg/L
|	Fe	54	815457.849	2.54	1.4397	0.058	4.044	mg/L
|	Fe	57	336730.182	1.10	1.2995	0.037	2.830	mg/L
⌊>	Sc-1	45	299177.298	299177.30				mg/L
	Cl	35	21564.564	-613.34				mg/L
	Kr	83	26.334	-5.67				mg/L
	Br	81	10205.872	568.56				mg/L
	P	31	14188.731	3664.50				mg/L
	S	34	209330.629	24588.14				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.365			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.555			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.400			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.089			
⌈	Na	23					

Sample ID: L1011040402SDL WG349146-04
Report Date/Time: Monday, November 22, 2010 21:19:30
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011040402SDL WG349146-04
Report Date/Time: Monday, November 22, 2010 21:19:30
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 22, 2010 21:24:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31683.524	0.01				ug/L
|	Be	9	16427.485	0.06	51.5045	0.584	1.133	ug/L
|	Al	27	301597.386	1.07	52.0852	1.203	2.310	ug/L
⌊>	Sc	45	279708.647	279708.65				ug/L
⌈	Ti	49	58067.252	0.15	97.9964	1.632	1.666	ug/L
|	V	51	469587.699	1.24	52.4296	0.113	0.216	ug/L
|	Cr	52	401567.282	1.04	52.4404	0.645	1.229	ug/L
|	Cr	53	46278.163	0.12	51.4926	0.989	1.920	ug/L
|	Mn	55	645851.942	1.72	53.2563	0.488	0.916	ug/L
|	Co	59	530504.191	1.41	53.5155	0.851	1.591	ug/L
|	Ni	60	111699.526	0.30	53.0143	0.793	1.495	ug/L
|	Cu	65	104362.469	0.28	52.0087	0.593	1.140	ug/L
|	Zn	66	58083.795	0.15	50.3155	0.475	0.944	ug/L
|>	Ge	72	375772.532	375772.53				ug/L
|	As	75	37263.295	0.10	48.4235	0.858	1.772	ug/L
|	Se	77	3210.838	0.01	51.9289	3.467	6.677	ug/L
|	Se	82	3695.490	0.01	49.5681	0.813	1.640	ug/L
⌊	Rb	85	1254.091	0.00				mg/L
	Y	89	210898.314	-3677.33				ug/L
	Rh	103	21.334	12.67				ug/L
⌈	Mo	98	166220.198	0.57	95.6009	1.503	1.572	ug/L
|	Ag	107	179927.798	0.62	50.1102	0.489	0.975	ug/L
|	Cd	114	46266.756	0.16	50.2024	1.460	2.908	ug/L
|>	In	115	291178.114	291178.11				ug/L
|	Sn	118	163400.387	0.56	50.1928	0.528	1.052	ug/L
⌊	Sb	123	146599.518	0.50	50.5054	0.870	1.723	ug/L
⌈	Ba	135	67351.748	0.18	48.7479	1.371	2.813	ug/L
|	Ce	140	126.680	0.00				ug/L
⌊>	Tb	159	373550.918	373550.92				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	305430.600	0.75	50.7913	0.380	0.748	ug/L
|	Tl	205	741660.348	1.82	49.4942	0.237	0.479	ug/L
|	Pb	206	255171.216	0.63	50.0954	0.658	1.314	ug/L
|	Pb	207	222264.951	0.54	49.6084	0.970	1.955	ug/L
|	Pb	208	1034632.940	2.54	49.7952	0.528	1.060	ug/L
|	U	238	1610420.559	3.95	51.7511	0.788	1.522	ug/L
⌊>	Bi	209	407493.805	407493.81				ug/L

Approved: November 23, 2010

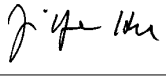
Na	23	24116557.103	86.18	5.1873	0.077	1.476	mg/L
Mg	24	14619188.620	52.26	5.1920	0.061	1.170	mg/L
K	39	39720340.308	140.45	5.1934	0.134	2.582	mg/L
Ca	43	97152.667	0.35	5.1693	0.072	1.398	mg/L
Fe	54	2754279.224	9.66	5.4908	0.033	0.595	mg/L
Fe	57	1368967.659	4.87	5.7832	0.122	2.115	mg/L
Sc-1	45	279708.647	279708.65				mg/L
Cl	35	21892.605	-285.30				mg/L
Kr	83	27.667	-4.33				mg/L
Br	81	10023.690	386.38				mg/L
P	31	11483.955	959.72				mg/L
S	34	217971.354	33228.86				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	104.859				
Cr	52	104.881				
Cr	53					
Mn	55	106.513				
Co	59	107.031				
Ni	60	106.029				
Cu	65	104.017				
Zn	66	100.631				
Ge	72		99.430			
As	75	96.847				
Se	77					
Se	82	99.136				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.220				
Cd	114	100.405				
In	115		103.906			
Sn	118					
Sb	123	101.011				
Ba	135	97.496				
Ce	140					
Tb	159		106.201			
Ho	165					
Tl	203	101.583				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.590				
U	238	103.502				
Bi	209		106.383			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 21:26:16
Page 2

Approved: November 23, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 21:26:16

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 22, 2010 21:30:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34108.192	0.01				ug/L
|	Be	9	4.667	-0.00	0.0219	0.015	67.813	ug/L
|	Al	27	3283.883	0.00	0.0203	0.092	453.327	ug/L
⌊>	Sc	45	295589.124	295589.12				ug/L
⌈	Ti	49	43.338	-0.00	0.0676	0.025	36.823	ug/L
|	V	51	2768.379	-0.00	-0.0104	0.007	62.483	ug/L
|	Cr	52	8836.325	-0.00	-0.0496	0.027	54.307	ug/L
|	Cr	53	203.356	-0.00	-0.1205	0.038	31.498	ug/L
|	Mn	55	345.009	0.00	-0.0050	0.002	37.725	ug/L
|	Co	59	82.334	0.00	-0.0120	0.001	7.763	ug/L
|	Ni	60	25.000	0.00	-0.0224	0.001	2.429	ug/L
|	Cu	65	89.001	0.00	-0.0376	0.005	12.858	ug/L
|	Zn	66	297.007	0.00	0.0226	0.015	67.973	ug/L
|>	Ge	72	379740.199	379740.20				ug/L
|	As	75	-139.565	0.00	0.0405	0.017	41.781	ug/L
|	Se	77	56.673	-0.00	-0.3748	0.421	112.243	ug/L
|	Se	82	4.090	-0.00	-0.0556	0.062	110.843	ug/L
⌊	Rb	85	13.667	0.00				mg/L
	Y	89	223597.933	9022.29				ug/L
	Rh	103	6.000	-2.67				ug/L
⌈	Mo	98	112.938	0.00	0.0502	0.018	36.741	ug/L
|	Ag	107	15.333	0.00	-0.0130	0.000	2.367	ug/L
|	Cd	114	5.377	-0.00	-0.0408	0.004	10.204	ug/L
|>	In	115	298830.787	298830.79				ug/L
|	Sn	118	569.350	-0.00	-0.0487	0.001	2.310	ug/L
⌊	Sb	123	332.046	0.00	0.1190	0.006	5.074	ug/L
⌈	Ba	135	9.333	-0.00	-0.0153	0.002	13.425	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	378245.335	378245.34				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	22.667	0.00	0.0022	0.000	9.923	ug/L
|	Tl	205	30.003	0.00	0.0191	0.000	0.072	ug/L
|	Pb	206	343.009	-0.00	-0.0060	0.006	99.674	ug/L
|	Pb	207	305.341	0.00	0.0047	0.002	51.638	ug/L
|	Pb	208	1406.053	0.00	-0.0027	0.001	22.594	ug/L
|	U	238	50.334	0.00	-0.0044	0.000	5.723	ug/L
⌊>	Bi	209	429246.218	429246.22				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 21:32:59
Page 1

Approved: November 23, 2010

⌈	Na	23	14261.592	0.01	-0.0080	0.000	1.462	mg/L
|	Mg	24	433.386	0.00	-0.0134	0.000	0.147	mg/L
|	K	39	421054.838	-0.16	-0.0140	0.002	12.051	mg/L
|	Ca	43	140.015	-0.00	0.0008	0.001	160.447	mg/L
|	Fe	54	53258.823	-0.01	-0.0093	0.003	36.827	mg/L
|	Fe	57	8707.995	0.00	-0.0035	0.001	27.375	mg/L
⌊>	Sc-1	45	295589.124	295589.12				mg/L
	Cl	35	20175.668	-2002.23				mg/L
	Kr	83	28.000	-4.00				mg/L
	Br	81	10232.566	595.26				mg/L
	P	31	11849.684	1325.45				mg/L
	S	34	206690.888	21948.40				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.480			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.636			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		107.536			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		112.062			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 21:32:59
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 21:32:59
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040403

Sample Date/Time: Monday, November 22, 2010 21:37:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 117
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31466.202	-0.00				ug/L
|	Be	9	61.334	0.00	0.1839	0.025	13.724	ug/L
|	Al	27	11750826.682	38.34	1870.2628	201.127	10.754	ug/L
⌊>	Sc	45	306372.890	306372.89				ug/L
⌈	Ti	49	1793.676	0.00	3.0044	0.434	14.453	ug/L
|	V	51	47043.009	0.12	4.9352	0.575	11.647	ug/L
|	Cr	52	45784.037	0.10	4.8632	0.605	12.442	ug/L
|	Cr	53	4761.619	0.01	4.9559	0.584	11.777	ug/L
|	Mn	55	1918223.960	5.07	157.2268	9.386	5.970	ug/L
|	Co	59	45407.875	0.12	4.5344	0.518	11.434	ug/L
|	Ni	60	24471.794	0.06	11.5183	1.438	12.488	ug/L
|	Cu	65	11568.525	0.03	5.6566	0.621	10.983	ug/L
|	Zn	66	24030.323	0.06	20.5525	2.308	11.232	ug/L
|>	Ge	72	378076.884	378076.88				ug/L
|	As	75	1266.456	0.00	1.8483	0.219	11.848	ug/L
|	Se	77	53.339	-0.00	-0.4271	0.344	80.561	ug/L
|	Se	82	20.423	0.00	0.1624	0.130	80.198	ug/L
⌊	Rb	85	29017.296	0.08				mg/L
	Y	89	244781.269	30205.62				ug/L
	Rh	103	10.667	2.00				ug/L
⌈	Mo	98	631.666	0.00	0.3488	0.044	12.503	ug/L
|	Ag	107	79.001	0.00	0.0047	0.005	100.608	ug/L
|	Cd	114	20.919	0.00	-0.0239	0.005	22.393	ug/L
|>	In	115	292391.737	292391.74				ug/L
|	Sn	118	455.610	-0.00	-0.0798	0.005	6.123	ug/L
⌊	Sb	123	95.204	0.00	0.0402	0.004	10.246	ug/L
⌈	Ba	135	25452.148	0.07	18.4121	1.741	9.456	ug/L
|	Ce	140	172717.341	0.46				ug/L
⌊>	Tb	159	373277.676	373277.68				ug/L
⌈	Ho	165	2517.239	0.01				ug/L
|	Tl	203	226.338	0.00	0.0361	0.004	9.718	ug/L
|	Tl	205	553.404	0.00	0.0540	0.006	11.072	ug/L
|	Pb	206	18781.605	0.05	3.6108	0.413	11.434	ug/L
|	Pb	207	15280.542	0.04	3.3434	0.316	9.448	ug/L
|	Pb	208	73498.084	0.18	3.4640	0.388	11.190	ug/L
|	U	238	9852.651	0.02	0.3097	0.035	11.180	ug/L
⌊>	Bi	209	408951.099	408951.10				ug/L

Approved: November 23, 2010

Na	23	213266.894	0.66	0.0311	0.005	14.992	mg/L	
Mg	24	2918481.615	9.52	0.9351	0.116	12.451	mg/L	
K	39	3410954.806	9.55	0.3456	0.031	9.045	mg/L	
Ca	43	370668.537	1.21	18.0212	1.684	9.343	mg/L	
Fe	54	4914337.983	15.85	9.0126	0.810	8.989	mg/L	
Fe	57	2170586.356	7.06	8.3879	0.914	10.902	mg/L	
Sc-1	45	306372.890	306372.89				mg/L	
Cl	35	24552.108	2374.21				mg/L	
Kr	83	28.000	-4.00				mg/L	
Br	81	10658.346	1021.04				mg/L	
P	31	100309.176	89784.94				mg/L	
S	34	242834.024	58091.53				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		100.040			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		104.339			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		106.124			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		106.763			
Na	23					

Sample ID: L1011040403
Report Date/Time: Monday, November 22, 2010 21:39:49
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040404

Sample Date/Time: Monday, November 22, 2010 21:44:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 118
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30797.390	0.00				ug/L
|	Be	9	61.334	0.00	0.1953	0.028	14.264	ug/L
|	Al	27	10575373.283	36.83	1796.1813	78.418	4.366	ug/L
⌊>	Sc	45	287182.262	287182.26				ug/L
⌈	Ti	49	416.717	0.00	0.7147	0.177	24.778	ug/L
|	V	51	32726.598	0.08	3.4498	0.140	4.050	ug/L
|	Cr	52	44368.459	0.10	4.8593	0.328	6.747	ug/L
|	Cr	53	4441.431	0.01	4.7528	0.086	1.808	ug/L
|	Mn	55	3326223.329	9.07	281.3199	18.516	6.582	ug/L
|	Co	59	46370.609	0.13	4.7766	0.294	6.153	ug/L
|	Ni	60	35385.708	0.10	17.1955	1.319	7.672	ug/L
|	Cu	65	14311.051	0.04	7.2404	0.306	4.229	ug/L
|	Zn	66	9991.775	0.03	8.6828	0.761	8.760	ug/L
|>	Ge	72	366664.309	366664.31				ug/L
|	As	75	1679.961	0.01	2.4473	0.267	10.894	ug/L
|	Se	77	60.006	-0.00	-0.2880	0.165	57.218	ug/L
|	Se	82	13.041	0.00	0.0707	0.128	180.565	ug/L
⌊	Rb	85	45028.411	0.12				mg/L
	Y	89	228954.176	14378.53				ug/L
	Rh	103	27.667	19.00				ug/L
⌈	Mo	98	330.424	0.00	0.1810	0.010	5.447	ug/L
|	Ag	107	57.334	0.00	-0.0009	0.002	187.682	ug/L
|	Cd	114	7.602	-0.00	-0.0380	0.005	14.182	ug/L
|>	In	115	285323.751	285323.75				ug/L
|	Sn	118	457.610	-0.00	-0.0758	0.005	6.690	ug/L
⌊	Sb	123	73.996	0.00	0.0336	0.002	6.719	ug/L
⌈	Ba	135	22828.287	0.06	16.9591	0.663	3.912	ug/L
|	Ce	140	90779.912	0.25				ug/L
⌊>	Tb	159	363488.388	363488.39				ug/L
⌈	Ho	165	1827.017	0.00				ug/L
|	Tl	203	233.005	0.00	0.0392	0.004	11.407	ug/L
|	Tl	205	523.400	0.00	0.0537	0.006	10.961	ug/L
|	Pb	206	25759.817	0.07	5.2270	0.377	7.205	ug/L
|	Pb	207	21648.340	0.05	4.9995	0.322	6.445	ug/L
|	Pb	208	102075.073	0.26	5.0784	0.346	6.811	ug/L
|	U	238	9171.647	0.02	0.3023	0.027	8.834	ug/L
⌊>	Bi	209	389682.238	389682.24				ug/L

Sample ID: L1011040404
Report Date/Time: Monday, November 22, 2010 21:46:38
Page 1

Approved: November 23, 2010

⌈	Na	23	637683.903	2.18	0.1231	0.009	7.231	mg/L
|	Mg	24	6914997.691	24.09	2.3855	0.137	5.752	mg/L
|	K	39	6989613.940	22.76	0.8348	0.038	4.565	mg/L
|	Ca	43	1200170.468	4.18	62.2770	3.029	4.863	mg/L
|	Fe	54	5054214.294	17.41	9.9043	0.506	5.110	mg/L
|	Fe	57	2276745.586	7.90	9.3945	0.701	7.466	mg/L
⌊>	Sc-1	45	287182.262	287182.26				mg/L
	Cl	35	26497.733	4319.83				mg/L
	Kr	83	33.667	1.67				mg/L
	Br	81	10265.271	627.96				mg/L
	P	31	53487.773	42963.54				mg/L
	S	34	499669.304	314926.81				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.020			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.816			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.341			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.733			
⌈	Na	23					

Sample ID: L1011040404
Report Date/Time: Monday, November 22, 2010 21:46:38
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040405

Sample Date/Time: Monday, November 22, 2010 21:51:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 119
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31449.402	0.00				ug/L
|	Be	9	36.000	0.00	0.1164	0.030	25.586	ug/L
|	Al	27	8979320.679	30.80	1502.1495	419.324	27.915	ug/L
⌊>	Sc	45	292742.177	292742.18				ug/L
⌈	Ti	49	15126.570	0.04	25.2378	5.127	20.317	ug/L
|	V	51	48339.233	0.12	5.0511	1.154	22.840	ug/L
|	Cr	52	33937.684	0.07	3.2653	0.822	25.166	ug/L
|	Cr	53	3090.808	0.01	3.0789	0.918	29.814	ug/L
|	Mn	55	2201195.895	5.79	179.5261	29.912	16.661	ug/L
|	Co	59	14231.334	0.04	1.4002	0.359	25.612	ug/L
|	Ni	60	8915.879	0.02	4.1534	1.028	24.749	ug/L
|	Cu	65	7951.658	0.02	3.8428	0.818	21.282	ug/L
|	Zn	66	92453.679	0.24	79.3422	18.978	23.920	ug/L
|>	Ge	72	380401.895	380401.89				ug/L
|	As	75	552.213	0.00	0.9258	0.198	21.354	ug/L
|	Se	77	86.676	0.00	0.1127	0.098	86.698	ug/L
|	Se	82	16.409	0.00	0.1082	0.006	5.694	ug/L
⌊	Rb	85	12017.154	0.03				mg/L
	Y	89	254998.262	40422.62				ug/L
	Rh	103	12.667	4.00				ug/L
⌈	Mo	98	419.465	0.00	0.2205	0.049	22.031	ug/L
|	Ag	107	76.334	0.00	0.0034	0.005	149.008	ug/L
|	Cd	114	73.904	0.00	0.0312	0.018	56.788	ug/L
|>	In	115	300909.450	300909.45				ug/L
|	Sn	118	548.948	-0.00	-0.0559	0.004	6.672	ug/L
⌊	Sb	123	52.492	0.00	0.0251	0.003	13.405	ug/L
⌈	Ba	135	24352.291	0.07	17.8074	4.218	23.688	ug/L
|	Ce	140	153802.681	0.42				ug/L
⌊>	Tb	159	369360.977	369360.98				ug/L
⌈	Ho	165	2600.611	0.01				ug/L
|	Tl	203	172.337	0.00	0.0266	0.002	9.123	ug/L
|	Tl	205	360.043	0.00	0.0407	0.008	19.499	ug/L
|	Pb	206	195326.746	0.47	37.4666	8.896	23.745	ug/L
|	Pb	207	157954.895	0.38	34.4412	7.954	23.094	ug/L
|	Pb	208	750619.782	1.80	35.2950	8.292	23.493	ug/L
|	U	238	6623.340	0.02	0.2021	0.049	24.435	ug/L
⌊>	Bi	209	416974.689	416974.69				ug/L

Approved: November 23, 2010

⌈	Na	23	158062.079	0.50	0.0218	0.006	27.366	mg/L
|	Mg	24	2778791.379	9.53	0.9354	0.231	24.729	mg/L
|	K	39	1610299.239	3.93	0.1374	0.029	20.923	mg/L
|	Ca	43	56428.762	0.19	2.8755	0.655	22.778	mg/L
|	Fe	54	2747915.982	9.23	5.2461	1.226	23.376	mg/L
|	Fe	57	1361583.357	4.64	5.5186	1.628	29.495	mg/L
⌊>	Sc-1	45	292742.177	292742.18				mg/L
	Cl	35	36779.593	14601.69				mg/L
	Kr	83	29.667	-2.33				mg/L
	Br	81	10338.011	700.70				mg/L
	P	31	88463.709	77939.48				mg/L
	S	34	214062.015	29319.52				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.655			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.378			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.010			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		108.858			
⌈	Na	23					

Sample ID: L1011040405
Report Date/Time: Monday, November 22, 2010 21:53:25
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040406

Sample Date/Time: Monday, November 22, 2010 21:57:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 120
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28607.590	-0.01				ug/L
|	Be	9	42.667	0.00	0.1341	0.060	44.382	ug/L
|	Al	27	6011925.708	20.21	985.8171	274.348	27.829	ug/L
⌊>	Sc	45	296910.384	296910.38				ug/L
⌈	Ti	49	440.055	0.00	0.7449	0.278	37.307	ug/L
|	V	51	24768.721	0.06	2.4881	0.593	23.823	ug/L
|	Cr	52	35185.344	0.07	3.5237	0.942	26.741	ug/L
|	Cr	53	3447.626	0.01	3.5500	0.911	25.654	ug/L
|	Mn	55	3415745.382	9.17	284.2877	73.876	25.986	ug/L
|	Co	59	39741.850	0.11	4.0255	1.038	25.786	ug/L
|	Ni	60	26839.090	0.07	12.8240	3.310	25.814	ug/L
|	Cu	65	10078.727	0.03	4.9932	1.312	26.277	ug/L
|	Zn	66	10793.778	0.03	9.2421	2.100	22.720	ug/L
|>	Ge	72	372843.205	372843.21				ug/L
|	As	75	1178.126	0.00	1.7569	0.455	25.876	ug/L
|	Se	77	73.341	0.00	-0.0805	0.263	326.348	ug/L
|	Se	82	23.108	0.00	0.2036	0.056	27.432	ug/L
⌊	Rb	85	24536.499	0.07				mg/L
	Y	89	239847.502	25271.86				ug/L
	Rh	103	19.667	11.00				ug/L
⌈	Mo	98	495.397	0.00	0.2794	0.078	27.819	ug/L
|	Ag	107	56.334	0.00	-0.0011	0.005	469.027	ug/L
|	Cd	114	16.725	0.00	-0.0278	0.006	22.772	ug/L
|>	In	115	283973.784	283973.78				ug/L
|	Sn	118	422.409	-0.00	-0.0862	0.004	4.983	ug/L
⌊	Sb	123	37.996	0.00	0.0210	0.001	5.235	ug/L
⌈	Ba	135	17468.709	0.05	13.1137	3.275	24.971	ug/L
|	Ce	140	108383.801	0.30				ug/L
⌊>	Tb	159	359765.277	359765.28				ug/L
⌈	Ho	165	2203.805	0.01				ug/L
|	Tl	203	159.336	0.00	0.0263	0.008	29.726	ug/L
|	Tl	205	360.043	0.00	0.0423	0.007	17.308	ug/L
|	Pb	206	42492.676	0.11	8.6637	2.287	26.397	ug/L
|	Pb	207	35000.506	0.09	8.1160	2.038	25.113	ug/L
|	Pb	208	166602.464	0.42	8.3269	2.120	25.463	ug/L
|	U	238	10285.621	0.03	0.3396	0.092	26.955	ug/L
⌊>	Bi	209	390346.584	390346.58				ug/L

Approved: November 23, 2010

⌈	Na	23	394569.589	1.29	0.0692	0.017	24.649	mg/L
|	Mg	24	5814432.546	19.56	1.9348	0.479	24.750	mg/L
|	K	39	3384437.012	9.80	0.3550	0.075	21.173	mg/L
|	Ca	43	917458.336	3.09	45.9762	11.510	25.035	mg/L
|	Fe	54	8919613.832	29.81	16.9558	4.477	26.406	mg/L
|	Fe	57	4025556.785	13.51	16.0640	4.317	26.873	mg/L
⌊>	Sc-1	45	296910.384	296910.38				mg/L
	Cl	35	23704.731	1526.83				mg/L
	Kr	83	26.000	-6.00				mg/L
	Br	81	9791.458	154.15				mg/L
	P	31	94311.532	83787.30				mg/L
	S	34	249814.104	65071.61				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.655			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.335			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.282			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.906			
⌈	Na	23					

Sample ID: L1011040406
Report Date/Time: Monday, November 22, 2010 22:00:11
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040407

Sample Date/Time: Monday, November 22, 2010 22:04:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 121
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32870.608	0.00				ug/L
|	Be	9	45.333	0.00	0.1384	0.011	7.826	ug/L
|	Al	27	9517118.413	31.22	1522.6891	167.480	10.999	ug/L
⌊>	Sc	45	304933.764	304933.76				ug/L
⌈	Ti	49	2177.127	0.01	3.6533	0.761	20.826	ug/L
|	V	51	40621.962	0.10	4.2184	0.508	12.047	ug/L
|	Cr	52	37118.822	0.07	3.7125	0.509	13.721	ug/L
|	Cr	53	3757.755	0.01	3.8412	0.574	14.938	ug/L
|	Mn	55	2028076.414	5.36	166.2403	13.594	8.177	ug/L
|	Co	59	26987.962	0.07	2.6880	0.356	13.261	ug/L
|	Ni	60	17972.472	0.05	8.4537	1.157	13.687	ug/L
|	Cu	65	6753.359	0.02	3.2694	0.350	10.704	ug/L
|	Zn	66	25106.635	0.07	21.4934	2.673	12.438	ug/L
|>	Ge	72	378388.096	378388.10				ug/L
|	As	75	1051.596	0.00	1.5727	0.232	14.744	ug/L
|	Se	77	80.008	0.00	0.0156	0.463	2970.256	ug/L
|	Se	82	11.061	0.00	0.0394	0.118	299.534	ug/L
⌊	Rb	85	22948.414	0.06				mg/L
	Y	89	239845.587	25269.94				ug/L
	Rh	103	12.000	3.33				ug/L
⌈	Mo	98	449.170	0.00	0.2402	0.023	9.667	ug/L
|	Ag	107	62.001	0.00	-0.0003	0.002	574.298	ug/L
|	Cd	114	75.273	0.00	0.0338	0.010	28.835	ug/L
|>	In	115	297172.517	297172.52				ug/L
|	Sn	118	433.476	-0.00	-0.0887	0.006	6.812	ug/L
⌊	Sb	123	37.578	0.00	0.0203	0.002	9.403	ug/L
⌈	Ba	135	38799.914	0.11	28.4153	2.981	10.490	ug/L
|	Ce	140	124823.999	0.34				ug/L
⌊>	Tb	159	368529.643	368529.64				ug/L
⌈	Ho	165	1840.358	0.00				ug/L
|	Tl	203	197.337	0.00	0.0315	0.004	14.211	ug/L
|	Tl	205	526.733	0.00	0.0524	0.004	7.434	ug/L
|	Pb	206	212381.404	0.52	41.6993	4.489	10.766	ug/L
|	Pb	207	179273.015	0.44	40.0163	4.563	11.402	ug/L
|	Pb	208	838467.473	2.06	40.3585	4.474	11.087	ug/L
|	U	238	7352.458	0.02	0.2304	0.023	9.885	ug/L
⌊>	Bi	209	407399.953	407399.95				ug/L

Sample ID: L1011040407
Report Date/Time: Monday, November 22, 2010 22:06:58
Page 1

Approved: November 23, 2010

⌈	Na	23	166970.321	0.51	0.0222	0.003	14.828	mg/L
|	Mg	24	3066479.373	10.06	0.9885	0.130	13.102	mg/L
|	K	39	3104291.023	8.60	0.3104	0.036	11.729	mg/L
|	Ca	43	262475.386	0.86	12.8255	1.343	10.473	mg/L
|	Fe	54	3237210.139	10.43	5.9327	0.738	12.442	mg/L
|	Fe	57	1605164.217	5.24	6.2260	0.611	9.813	mg/L
⌊>	Sc-1	45	304933.764	304933.76				mg/L
	Cl	35	29503.460	7325.56				mg/L
	Kr	83	31.334	-0.67				mg/L
	Br	81	10457.468	820.16				mg/L
	P	31	70977.014	60452.78				mg/L
	S	34	226516.165	41773.67				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.122			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.045			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.774			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		106.358			
⌈	Na	23					

Sample ID: L1011040407
Report Date/Time: Monday, November 22, 2010 22:06:58
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040408

Sample Date/Time: Monday, November 22, 2010 22:11:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 122
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31081.571	-0.00				ug/L
|	Be	9	16.667	0.00	0.0576	0.027	47.136	ug/L
|	Al	27	2406037.941	8.10	395.0825	31.412	7.951	ug/L
⌊>	Sc	45	296824.474	296824.47				ug/L
⌈	Ti	49	22256.983	0.06	36.9201	1.718	4.653	ug/L
|	V	51	23293.935	0.05	2.2542	0.173	7.684	ug/L
|	Cr	52	16683.407	0.02	0.9729	0.057	5.866	ug/L
|	Cr	53	1100.171	0.00	0.8666	0.155	17.899	ug/L
|	Mn	55	195556.324	0.51	15.8278	0.902	5.697	ug/L
|	Co	59	5593.955	0.01	0.5347	0.029	5.452	ug/L
|	Ni	60	4009.512	0.01	1.8376	0.123	6.681	ug/L
|	Cu	65	5168.389	0.01	2.4545	0.163	6.639	ug/L
|	Zn	66	8408.956	0.02	6.9606	0.383	5.498	ug/L
|>	Ge	72	382418.318	382418.32				ug/L
|	As	75	1748.150	0.01	2.4424	0.167	6.819	ug/L
|	Se	77	60.006	-0.00	-0.3215	0.867	269.599	ug/L
|	Se	82	3.417	-0.00	-0.0651	0.068	103.716	ug/L
⌊	Rb	85	10277.722	0.03				mg/L
	Y	89	223289.051	8713.40				ug/L
	Rh	103	9.667	1.00				ug/L
⌈	Mo	98	804.383	0.00	0.4384	0.019	4.374	ug/L
|	Ag	107	73.334	0.00	0.0027	0.002	69.426	ug/L
|	Cd	114	31.842	0.00	-0.0127	0.009	69.320	ug/L
|>	In	115	298419.237	298419.24				ug/L
|	Sn	118	512.546	-0.00	-0.0655	0.003	4.989	ug/L
⌊	Sb	123	38.662	0.00	0.0206	0.002	8.070	ug/L
⌈	Ba	135	31504.345	0.08	22.8045	1.361	5.968	ug/L
|	Ce	140	67276.231	0.18				ug/L
⌊>	Tb	159	373101.366	373101.37				ug/L
⌈	Ho	165	650.087	0.00				ug/L
|	Tl	203	132.669	0.00	0.0202	0.002	10.274	ug/L
|	Tl	205	320.037	0.00	0.0381	0.002	4.330	ug/L
|	Pb	206	193069.712	0.46	37.0244	2.251	6.080	ug/L
|	Pb	207	158939.120	0.38	34.6496	1.666	4.807	ug/L
|	Pb	208	749689.598	1.79	35.2436	2.036	5.776	ug/L
|	U	238	4245.280	0.01	0.1274	0.010	7.930	ug/L
⌊>	Bi	209	416891.041	416891.04				ug/L

Sample ID: L1011040408
Report Date/Time: Monday, November 22, 2010 22:13:45
Page 1

Approved: November 23, 2010

Na	23	74665.465	0.21	0.0043	0.001	17.983	mg/L
Mg	24	266261.821	0.90	0.0758	0.006	7.927	mg/L
K	39	1214532.670	2.51	0.0848	0.006	6.656	mg/L
Ca	43	12909.636	0.04	0.6420	0.044	6.883	mg/L
Fe	54	1684579.473	5.49	3.1179	0.110	3.515	mg/L
Fe	57	707965.871	2.36	2.7995	0.218	7.778	mg/L
Sc-1	45	296824.474	296824.47				mg/L
Cl	35	22744.503	566.60				mg/L
Kr	83	28.667	-3.33				mg/L
Br	81	10212.546	575.24				mg/L
P	31	25934.346	15410.11				mg/L
S	34	226718.172	41975.68				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.188			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		106.489			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		106.074			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		108.836			
Na	23					

Sample ID: L1011040408
Report Date/Time: Monday, November 22, 2010 22:13:45
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040409

Sample Date/Time: Monday, November 22, 2010 22:18:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 123
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30496.644	-0.00				ug/L
|	Be	9	67.334	0.00	0.2092	0.090	43.194	ug/L
|	Al	27	7775883.142	26.47	1290.8415	466.344	36.127	ug/L
⌊>	Sc	45	293477.615	293477.61				ug/L
⌈	Ti	49	1080.169	0.00	1.8418	0.536	29.090	ug/L
|	V	51	35964.401	0.09	3.7732	1.106	29.323	ug/L
|	Cr	52	35231.421	0.07	3.5495	1.283	36.133	ug/L
|	Cr	53	3537.684	0.01	3.6688	1.252	34.123	ug/L
|	Mn	55	5188279.611	13.99	433.6721	142.223	32.795	ug/L
|	Co	59	60863.559	0.16	6.2017	1.946	31.371	ug/L
|	Ni	60	36061.640	0.10	17.3163	5.679	32.797	ug/L
|	Cu	65	15275.246	0.04	7.6424	2.500	32.712	ug/L
|	Zn	66	31277.401	0.08	27.3417	8.519	31.159	ug/L
| >	Ge	72	371659.228	371659.23				ug/L
|	As	75	1130.308	0.00	1.7000	0.403	23.678	ug/L
|	Se	77	120.013	0.00	0.7012	0.585	83.485	ug/L
|	Se	82	23.754	0.00	0.2128	0.136	63.827	ug/L
⌊	Rb	85	20640.946	0.06				mg/L
	Y	89	242343.432	27767.79				ug/L
	Rh	103	15.667	7.00				ug/L
⌈	Mo	98	937.283	0.00	0.5360	0.142	26.457	ug/L
|	Ag	107	75.334	0.00	0.0042	0.003	79.704	ug/L
|	Cd	114	37.443	0.00	-0.0052	0.008	150.416	ug/L
| >	In	115	286412.932	286412.93				ug/L
|	Sn	118	434.276	-0.00	-0.0836	0.005	5.416	ug/L
⌊	Sb	123	37.035	0.00	0.0206	0.004	19.081	ug/L
⌈	Ba	135	24941.139	0.07	18.4178	5.518	29.960	ug/L
|	Ce	140	99139.853	0.27				ug/L
⌊>	Tb	159	365953.798	365953.80				ug/L
⌈	Ho	165	2070.434	0.01				ug/L
|	Tl	203	234.672	0.00	0.0381	0.010	26.437	ug/L
|	Tl	205	560.072	0.00	0.0550	0.009	15.876	ug/L
|	Pb	206	100056.833	0.25	19.8333	6.071	30.611	ug/L
|	Pb	207	82351.961	0.20	18.5597	5.773	31.105	ug/L
|	Pb	208	388654.126	0.96	18.8857	5.879	31.127	ug/L
|	U	238	6743.832	0.02	0.2133	0.072	33.976	ug/L
⌊>	Bi	209	403299.743	403299.74				ug/L

Sample ID: L1011040409
Report Date/Time: Monday, November 22, 2010 22:20:33
Page 1

Approved: November 23, 2010

⌈	Na	23	196337.952	0.63	0.0294	0.010	34.323	mg/L
|	Mg	24	3262912.760	11.11	1.0930	0.374	34.207	mg/L
|	K	39	2544620.556	7.08	0.2542	0.060	23.610	mg/L
|	Ca	43	463721.519	1.58	23.5176	7.164	30.464	mg/L
|	Fe	54	7866582.729	26.59	15.1265	5.114	33.806	mg/L
|	Fe	57	3455426.616	11.74	13.9525	4.400	31.535	mg/L
⌊>	Sc-1	45	293477.615	293477.61				mg/L
	Cl	35	24428.473	2250.57				mg/L
	Kr	83	28.334	-3.67				mg/L
	Br	81	9846.852	209.54				mg/L
	P	31	61069.302	50545.07				mg/L
	S	34	274344.636	89602.14				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.342			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.205			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.042			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.288			
⌈	Na	23					

Sample ID: L1011040409
Report Date/Time: Monday, November 22, 2010 22:20:33
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040410

Sample Date/Time: Monday, November 22, 2010 22:25:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 124
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32402.414	0.00				ug/L
|	Be	9	36.000	0.00	0.1119	0.044	39.700	ug/L
|	Al	27	6729467.715	22.15	1080.3238	248.657	23.017	ug/L
⌊>	Sc	45	302286.872	302286.87				ug/L
⌈	Ti	49	3267.575	0.01	5.4376	2.021	37.168	ug/L
|	V	51	29600.676	0.07	2.9610	0.707	23.866	ug/L
|	Cr	52	34812.493	0.07	3.3676	0.607	18.036	ug/L
|	Cr	53	3220.853	0.01	3.2126	0.696	21.668	ug/L
|	Mn	55	1351955.759	3.55	110.0046	29.356	26.687	ug/L
|	Co	59	23211.504	0.06	2.2903	0.566	24.720	ug/L
|	Ni	60	15640.302	0.04	7.2922	2.006	27.506	ug/L
|	Cu	65	15276.333	0.04	7.4389	1.980	26.621	ug/L
|	Zn	66	35259.576	0.09	30.0337	7.597	25.294	ug/L
|>	Ge	72	381351.554	381351.55				ug/L
|	As	75	1448.007	0.00	2.0666	0.442	21.401	ug/L
|	Se	77	126.680	0.00	0.7632	0.419	54.869	ug/L
|	Se	82	16.760	0.00	0.1133	0.152	134.120	ug/L
⌊	Rb	85	21376.132	0.06				mg/L
	Y	89	227622.302	13046.66				ug/L
	Rh	103	16.000	7.33				ug/L
⌈	Mo	98	1587.859	0.01	0.8927	0.216	24.250	ug/L
|	Ag	107	70.001	0.00	0.0021	0.004	176.747	ug/L
|	Cd	114	46.512	0.00	0.0035	0.012	346.147	ug/L
|>	In	115	293968.068	293968.07				ug/L
|	Sn	118	466.411	-0.00	-0.0772	0.009	11.985	ug/L
⌊	Sb	123	38.450	0.00	0.0207	0.003	15.584	ug/L
⌈	Ba	135	21236.744	0.06	15.2875	3.839	25.112	ug/L
|	Ce	140	90379.626	0.24				ug/L
⌊>	Tb	159	374513.964	374513.96				ug/L
⌈	Ho	165	1366.901	0.00				ug/L
|	Tl	203	312.341	0.00	0.0492	0.011	21.454	ug/L
|	Tl	205	710.097	0.00	0.0633	0.012	18.910	ug/L
|	Pb	206	176646.751	0.42	33.7544	9.253	27.412	ug/L
|	Pb	207	147682.176	0.35	32.0814	8.696	27.107	ug/L
|	Pb	208	694432.434	1.66	32.5297	8.824	27.126	ug/L
|	U	238	7161.099	0.02	0.2182	0.063	28.969	ug/L
⌊>	Bi	209	418750.736	418750.74				ug/L

Sample ID: L1011040410
Report Date/Time: Monday, November 22, 2010 22:27:21
Page 1

Approved: November 23, 2010

⌈	Na	23	208384.137	0.65	0.0305	0.008	25.976	mg/L
|	Mg	24	2529651.142	8.33	0.8158	0.202	24.742	mg/L
|	K	39	2614333.349	7.03	0.2525	0.052	20.575	mg/L
|	Ca	43	219464.010	0.72	10.7575	2.601	24.176	mg/L
|	Fe	54	3574239.002	11.58	6.5876	1.373	20.843	mg/L
|	Fe	57	1698196.985	5.57	6.6220	1.076	16.247	mg/L
⌊>	Sc-1	45	302286.872	302286.87				mg/L
	Cl	35	24284.120	2106.22				mg/L
	Kr	83	27.667	-4.33				mg/L
	Br	81	9858.860	221.55				mg/L
	P	31	43520.237	32996.00				mg/L
	S	34	325540.018	140797.53				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.906			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.901			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.475			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.322			
⌈	Na	23					

Sample ID: L1011040410
Report Date/Time: Monday, November 22, 2010 22:27:21
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040411

Sample Date/Time: Monday, November 22, 2010 22:31:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 125
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30680.385	-0.00				ug/L
|	Be	9	44.000	0.00	0.1358	0.044	32.709	ug/L
|	Al	27	5250254.867	17.34	845.9320	234.603	27.733	ug/L
⌊>	Sc	45	303470.269	303470.27				ug/L
⌈	Ti	49	636.751	0.00	1.0938	0.280	25.560	ug/L
|	V	51	26190.715	0.06	2.6894	0.661	24.578	ug/L
|	Cr	52	29697.928	0.06	2.8380	0.745	26.249	ug/L
|	Cr	53	2417.217	0.01	2.4229	0.813	33.571	ug/L
|	Mn	55	4677990.900	12.73	394.5999	96.772	24.524	ug/L
|	Co	59	40958.690	0.11	4.2059	1.093	25.981	ug/L
|	Ni	60	27699.804	0.08	13.4152	3.384	25.226	ug/L
|	Cu	65	10063.020	0.03	5.0534	1.252	24.777	ug/L
|	Zn	66	15317.932	0.04	13.3956	3.115	23.256	ug/L
|>	Ge	72	367881.766	367881.77				ug/L
|	As	75	842.147	0.00	1.3329	0.222	16.633	ug/L
|	Se	77	96.677	0.00	0.3326	0.808	242.953	ug/L
|	Se	82	15.415	0.00	0.1029	0.202	196.656	ug/L
⌊	Rb	85	19166.991	0.05				mg/L
	Y	89	233182.533	18606.89				ug/L
	Rh	103	28.667	20.00				ug/L
⌈	Mo	98	363.239	0.00	0.2000	0.050	24.877	ug/L
|	Ag	107	50.667	0.00	-0.0028	0.001	33.960	ug/L
|	Cd	114	40.347	0.00	-0.0017	0.027	1539.152	ug/L
|>	In	115	285820.857	285820.86				ug/L
|	Sn	118	408.808	-0.00	-0.0913	0.003	3.075	ug/L
⌊	Sb	123	22.037	-0.00	0.0153	0.001	7.453	ug/L
⌈	Ba	135	14881.010	0.04	11.0422	2.944	26.658	ug/L
|	Ce	140	71469.696	0.20				ug/L
⌊>	Tb	159	364620.800	364620.80				ug/L
⌈	Ho	165	1666.977	0.00				ug/L
|	Tl	203	217.338	0.00	0.0366	0.010	26.111	ug/L
|	Tl	205	476.726	0.00	0.0506	0.011	22.268	ug/L
|	Pb	206	51050.807	0.13	10.4691	2.639	25.206	ug/L
|	Pb	207	41538.993	0.11	9.6859	2.340	24.160	ug/L
|	Pb	208	196404.836	0.50	9.8719	2.416	24.474	ug/L
|	U	238	5788.138	0.01	0.1894	0.053	28.084	ug/L
⌊>	Bi	209	389176.751	389176.75				ug/L

Sample ID: L1011040411
Report Date/Time: Monday, November 22, 2010 22:34:09
Page 1

Approved: November 23, 2010

⌈	Na	23	601848.380	1.95	0.1090	0.027	24.576	mg/L
|	Mg	24	2930910.864	9.69	0.9512	0.249	26.165	mg/L
|	K	39	2713205.358	7.37	0.2651	0.065	24.499	mg/L
|	Ca	43	1073525.972	3.55	52.8527	13.997	26.482	mg/L
|	Fe	54	4051558.691	13.20	7.5071	2.065	27.504	mg/L
|	Fe	57	1870153.248	6.15	7.3097	1.613	22.067	mg/L
⌊>	Sc-1	45	303470.269	303470.27				mg/L
	Cl	35	24629.639	2451.74				mg/L
	Kr	83	29.000	-3.00				mg/L
	Br	81	9763.431	126.12				mg/L
	P	31	42965.195	32440.96				mg/L
	S	34	257892.700	73150.21				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.342			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.994			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.663			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.601			
⌈	Na	23					

Sample ID: L1011040411
Report Date/Time: Monday, November 22, 2010 22:34:09
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011040412

Sample Date/Time: Monday, November 22, 2010 22:38:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 126
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32837.260	-0.00				ug/L
|	Be	9	62.000	0.00	0.1828	0.027	14.588	ug/L
|	Al	27	14788779.950	47.42	2312.9227	226.813	9.806	ug/L
⌊>	Sc	45	312599.304	312599.30				ug/L
⌈	Ti	49	503.397	0.00	0.8522	0.125	14.616	ug/L
|	V	51	42500.838	0.11	4.4955	0.281	6.257	ug/L
|	Cr	52	60314.824	0.14	6.9086	0.602	8.718	ug/L
|	Cr	53	6376.025	0.02	6.8553	0.940	13.706	ug/L
|	Mn	55	2687286.184	7.21	223.5378	15.583	6.971	ug/L
|	Co	59	65644.909	0.18	6.6593	0.439	6.600	ug/L
|	Ni	60	41437.682	0.11	19.8073	1.429	7.215	ug/L
|	Cu	65	19055.364	0.05	9.5080	0.574	6.036	ug/L
|	Zn	66	25112.422	0.07	21.7985	0.540	2.476	ug/L
|>	Ge	72	372779.032	372779.03				ug/L
|	As	75	975.035	0.00	1.4918	0.163	10.899	ug/L
|	Se	77	56.672	-0.00	-0.3597	0.194	53.883	ug/L
|	Se	82	17.449	0.00	0.1280	0.144	112.695	ug/L
⌊	Rb	85	51259.223	0.14				mg/L
	Y	89	230381.517	15805.87				ug/L
	Rh	103	24.667	16.00				ug/L
⌈	Mo	98	202.456	0.00	0.1019	0.005	4.445	ug/L
|	Ag	107	82.001	0.00	0.0054	0.005	92.342	ug/L
|	Cd	114	14.379	0.00	-0.0310	0.010	31.881	ug/L
|>	In	115	295073.987	295073.99				ug/L
|	Sn	118	448.810	-0.00	-0.0831	0.002	2.782	ug/L
⌊	Sb	123	31.411	0.00	0.0183	0.002	12.563	ug/L
⌈	Ba	135	6508.520	0.02	4.6732	0.278	5.944	ug/L
|	Ce	140	98040.314	0.26				ug/L
⌊>	Tb	159	374886.909	374886.91				ug/L
⌈	Ho	165	1900.371	0.00				ug/L
|	Tl	203	231.338	0.00	0.0380	0.007	17.581	ug/L
|	Tl	205	506.730	0.00	0.0518	0.003	5.065	ug/L
|	Pb	206	21624.615	0.05	4.2765	0.257	6.003	ug/L
|	Pb	207	18270.907	0.05	4.1144	0.304	7.396	ug/L
|	Pb	208	86571.963	0.21	4.1988	0.285	6.797	ug/L
|	U	238	6638.274	0.02	0.2121	0.014	6.501	ug/L
⌊>	Bi	209	398631.645	398631.65				ug/L

Sample ID: L1011040412
Report Date/Time: Monday, November 22, 2010 22:40:58
Page 1

Approved: November 23, 2010

⌈	Na	23	488405.499	1.53	0.0836	0.010	12.182	mg/L
|	Mg	24	6758265.289	21.69	2.1466	0.267	12.445	mg/L
|	K	39	7542473.685	22.60	0.8288	0.073	8.750	mg/L
|	Ca	43	874576.310	2.80	41.7670	3.406	8.154	mg/L
|	Fe	54	4883016.643	15.47	8.8004	0.982	11.159	mg/L
|	Fe	57	2179232.534	6.96	8.2712	0.765	9.252	mg/L
⌊>	Sc-1	45	312599.304	312599.30				mg/L
	Cl	35	27395.475	5217.57				mg/L
	Kr	83	25.000	-7.00				mg/L
	Br	81	10329.336	692.03				mg/L
	P	31	47251.382	36727.15				mg/L
	S	34	365124.259	180381.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.638			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.296			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.581			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.069			
⌈	Na	23					

Sample ID: L1011040412
Report Date/Time: Monday, November 22, 2010 22:40:58
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 22, 2010 22:45:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32201.837	0.01				ug/L
|	Be	9	16972.392	0.06	51.7521	1.144	2.211	ug/L
|	Al	27	297666.127	1.03	49.9903	2.375	4.751	ug/L
|>	Sc	45	287733.849	287733.85				ug/L
⌈	Ti	49	58888.811	0.16	99.5701	2.780	2.792	ug/L
|	V	51	462528.263	1.23	51.7317	0.646	1.249	ug/L
|	Cr	52	402146.335	1.05	52.6178	1.222	2.322	ug/L
|	Cr	53	46884.333	0.12	52.2728	0.820	1.568	ug/L
|	Mn	55	639914.483	1.71	52.8643	0.797	1.507	ug/L
|	Co	59	525599.880	1.40	53.1145	0.706	1.329	ug/L
|	Ni	60	111337.237	0.30	52.9333	0.662	1.251	ug/L
|	Cu	65	103975.799	0.28	51.9066	0.172	0.332	ug/L
|	Zn	66	57550.038	0.15	49.9411	0.117	0.233	ug/L
|>	Ge	72	375106.391	375106.39				ug/L
|	As	75	37234.460	0.10	48.4738	0.412	0.850	ug/L
|	Se	77	3370.909	0.01	54.6835	5.872	10.737	ug/L
|	Se	82	3646.130	0.01	48.9999	2.181	4.452	ug/L
⌊	Rb	85	1243.090	0.00				mg/L
	Y	89	214048.013	-527.63				ug/L
	Rh	103	19.667	11.00				ug/L
⌈	Mo	98	166720.852	0.57	95.0290	1.229	1.293	ug/L
|	Ag	107	181752.955	0.62	50.1637	0.988	1.970	ug/L
|	Cd	114	45732.180	0.16	49.1749	0.452	0.920	ug/L
|>	In	115	293772.371	293772.37				ug/L
|	Sn	118	163838.234	0.56	49.8768	0.235	0.472	ug/L
⌊	Sb	123	145709.470	0.50	49.7486	0.470	0.944	ug/L
⌈	Ba	135	66865.141	0.18	48.7965	0.335	0.686	ug/L
|	Ce	140	133.348	0.00				ug/L
|>	Tb	159	370374.125	370374.13				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	301996.444	0.74	50.4545	0.503	0.997	ug/L
|	Tl	205	731555.712	1.80	49.0509	1.206	2.458	ug/L
|	Pb	206	250334.858	0.62	49.3713	0.446	0.904	ug/L
|	Pb	207	222956.980	0.55	49.9895	0.292	0.583	ug/L
|	Pb	208	1021771.482	2.52	49.4033	0.465	0.942	ug/L
|	U	238	1572112.327	3.88	50.7506	0.416	0.819	ug/L
|>	Bi	209	405596.982	405596.98				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 22:47:43
Page 1

Approved: November 23, 2010

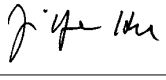
Na	23	24385672.417	84.78	5.1028	0.219	4.294	mg/L
Mg	24	14578184.913	50.71	5.0372	0.256	5.075	mg/L
K	39	40297102.322	138.55	5.1229	0.151	2.941	mg/L
Ca	43	98156.366	0.34	5.0771	0.175	3.451	mg/L
Fe	54	2717204.082	9.26	5.2644	0.158	3.004	mg/L
Fe	57	1330311.037	4.60	5.4633	0.157	2.873	mg/L
> Sc-1	45	287733.849	287733.85				mg/L
Cl	35	21271.267	-906.63				mg/L
Kr	83	28.667	-3.33				mg/L
Br	81	9654.659	17.35				mg/L
P	31	11389.872	865.64				mg/L
S	34	220679.436	35936.94				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	103.463				
Cr	52	105.236				
Cr	53					
Mn	55	105.729				
Co	59	106.229				
Ni	60	105.867				
Cu	65	103.813				
Zn	66	99.882				
> Ge	72		99.254			
As	75	96.948				
Se	77					
Se	82	98.000				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.327				
Cd	114	98.350				
> In	115		104.831			
Sn	118					
Sb	123	99.497				
Ba	135	97.593				
Ce	140					
> Tb	159		105.298			
Ho	165					
Tl	203	100.909				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.807				
U	238	101.501				
> Bi	209		105.888			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 22:47:43

Approved: November 23, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 22:47:43

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 22, 2010 22:52:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33790.435	0.01				ug/L
|	Be	9	1.333	-0.00	0.0121	0.003	28.393	ug/L
|	Al	27	2967.108	0.00	-0.0299	0.035	115.985	ug/L
⌊>	Sc	45	294354.332	294354.33				ug/L
⌈	Ti	49	43.338	-0.00	0.0673	0.025	37.381	ug/L
|	V	51	2744.441	-0.00	-0.0147	0.006	40.911	ug/L
|	Cr	52	8821.978	-0.00	-0.0578	0.008	14.581	ug/L
|	Cr	53	170.019	-0.00	-0.1582	0.051	32.349	ug/L
|	Mn	55	357.010	0.00	-0.0042	0.000	4.977	ug/L
|	Co	59	79.334	0.00	-0.0123	0.001	6.728	ug/L
|	Ni	60	26.667	0.00	-0.0217	0.002	10.388	ug/L
|	Cu	65	99.335	0.00	-0.0327	0.009	28.206	ug/L
|	Zn	66	315.008	0.00	0.0366	0.009	24.427	ug/L
|>	Ge	72	381755.514	381755.51				ug/L
|	As	75	-204.665	-0.00	-0.0415	0.069	166.137	ug/L
|	Se	77	50.005	-0.00	-0.4901	0.434	88.504	ug/L
|	Se	82	2.116	-0.00	-0.0815	0.131	161.256	ug/L
⌊	Rb	85	17.667	0.00				mg/L
	Y	89	219365.777	4790.13				ug/L
	Rh	103	5.000	-3.67				ug/L
⌈	Mo	98	109.750	0.00	0.0479	0.008	17.391	ug/L
|	Ag	107	16.667	0.00	-0.0127	0.001	6.329	ug/L
|	Cd	114	7.946	-0.00	-0.0382	0.005	12.949	ug/L
|>	In	115	301600.174	301600.17				ug/L
|	Sn	118	560.282	-0.00	-0.0529	0.005	8.607	ug/L
⌊	Sb	123	291.797	0.00	0.1046	0.007	6.747	ug/L
⌈	Ba	135	9.667	-0.00	-0.0151	0.003	22.452	ug/L
|	Ce	140	26.669	0.00				ug/L
⌊>	Tb	159	381832.373	381832.37				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	21.667	0.00	0.0020	0.000	20.719	ug/L
|	Tl	205	36.670	0.00	0.0195	0.001	5.057	ug/L
|	Pb	206	343.009	-0.00	-0.0062	0.004	58.899	ug/L
|	Pb	207	298.007	0.00	0.0029	0.005	162.353	ug/L
|	Pb	208	1379.718	-0.00	-0.0041	0.002	38.830	ug/L
|	U	238	59.334	0.00	-0.0042	0.000	1.391	ug/L
⌊>	Bi	209	430409.713	430409.71				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 22:54:26
Page 1

Approved: November 23, 2010

⌈	Na	23	13200.038	0.00	-0.0082	0.000	1.560	mg/L
|	Mg	24	500.063	0.00	-0.0134	0.000	0.169	mg/L
|	K	39	419376.085	-0.16	-0.0140	0.000	2.558	mg/L
|	Ca	43	153.350	0.00	0.0015	0.001	74.391	mg/L
|	Fe	54	53423.333	-0.01	-0.0085	0.002	22.998	mg/L
|	Fe	57	9014.966	0.00	-0.0021	0.002	87.945	mg/L
⌊>	Sc-1	45	294354.332	294354.33				mg/L
	Cl	35	19549.759	-2628.14				mg/L
	Kr	83	25.000	-7.00				mg/L
	Br	81	10180.514	543.20				mg/L
	P	31	10765.135	240.90				mg/L
	S	34	214238.033	29495.54				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.013			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.625			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.556			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		112.365			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 22:54:26
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 22, 2010 22:54:26
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: PBW 8B WG349411-03

Sample Date/Time: Monday, November 22, 2010 22:59:00
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32051.356	0.00				ug/L
|	Be	9	5.333	-0.00	0.0242	0.013	52.048	ug/L
|	Al	27	3800.726	0.00	0.1144	0.062	54.276	ug/L
⌊>	Sc	45	291538.778	291538.78				ug/L
⌈	Ti	49	60.006	0.00	0.0958	0.044	46.429	ug/L
|	V	51	2856.782	0.00	-0.0000	0.009	27255.377	ug/L
|	Cr	52	9065.533	0.00	-0.0172	0.028	164.309	ug/L
|	Cr	53	213.357	-0.00	-0.1091	0.080	73.071	ug/L
|	Mn	55	691.364	0.00	0.0234	0.002	9.947	ug/L
|	Co	59	80.334	0.00	-0.0121	0.000	0.422	ug/L
|	Ni	60	62.667	0.00	-0.0047	0.004	89.135	ug/L
|	Cu	65	103.335	0.00	-0.0304	0.002	7.364	ug/L
|	Zn	66	7563.935	0.02	6.2931	0.056	0.892	ug/L
|>	Ge	72	379030.031	379030.03				ug/L
|	As	75	-225.594	-0.00	-0.0702	0.047	66.325	ug/L
|	Se	77	70.007	0.00	-0.1560	0.168	107.700	ug/L
|	Se	82	-3.278	-0.00	-0.1532	0.129	84.195	ug/L
⌊	Rb	85	15.667	0.00				mg/L
	Y	89	222248.737	7673.09				ug/L
	Rh	103	6.000	-2.67				ug/L
⌈	Mo	98	48.603	0.00	0.0138	0.004	26.818	ug/L
|	Ag	107	10.000	-0.00	-0.0145	0.001	5.401	ug/L
|	Cd	114	14.252	0.00	-0.0316	0.002	7.381	ug/L
|>	In	115	303741.899	303741.90				ug/L
|	Sn	118	451.344	-0.00	-0.0863	0.002	2.153	ug/L
⌊	Sb	123	97.454	0.00	0.0398	0.005	11.705	ug/L
⌈	Ba	135	18.000	0.00	-0.0093	0.003	27.009	ug/L
|	Ce	140	40.004	0.00				ug/L
⌊>	Tb	159	384856.337	384856.34				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	9.333	-0.00	0.0001	0.000	222.755	ug/L
|	Tl	205	36.670	0.00	0.0195	0.002	8.222	ug/L
|	Pb	206	365.010	0.00	-0.0014	0.008	564.574	ug/L
|	Pb	207	318.008	0.00	0.0079	0.004	55.070	ug/L
|	Pb	208	1446.055	0.00	-0.0004	0.001	317.890	ug/L
|	U	238	20.000	0.00	-0.0054	0.000	2.495	ug/L
⌊>	Bi	209	426173.220	426173.22				ug/L

Sample ID: PBW 8B WG349411-03
Report Date/Time: Monday, November 22, 2010 23:01:09
Page 1

Approved: November 23, 2010

⌈	Na	23	18402.091	0.02	-0.0071	0.000	0.853	mg/L
|	Mg	24	1163.518	0.00	-0.0132	0.000	0.190	mg/L
|	K	39	433481.805	-0.10	-0.0117	0.000	2.243	mg/L
|	Ca	43	186.687	0.00	0.0033	0.003	84.478	mg/L
|	Fe	54	53332.695	-0.01	-0.0077	0.002	31.467	mg/L
|	Fe	57	8761.382	0.00	-0.0028	0.001	41.284	mg/L
⌊>	Sc-1	45	291538.778	291538.78				mg/L
	Cl	35	20205.730	-1972.17				mg/L
	Kr	83	32.000	-0.00				mg/L
	Br	81	10449.458	812.15				mg/L
	P	31	12122.014	1597.78				mg/L
	S	34	214549.717	29807.23				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.292			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.389			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.416			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		111.259			
⌈	Na	23					

Sample ID: PBW 8B WG349411-03
Report Date/Time: Monday, November 22, 2010 23:01:09
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 8B WG349411-03
Report Date/Time: Monday, November 22, 2010 23:01:09
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: LCSW 8B WG349411-04

Sample Date/Time: Monday, November 22, 2010 23:05:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31064.909	0.00				ug/L
|	Be	9	8472.255	0.03	25.4626	1.380	5.419	ug/L
|	Al	27	152369.739	0.51	24.9280	1.118	4.483	ug/L
⌊>	Sc	45	292229.193	292229.19				ug/L
⌈	Ti	49	66.674	0.00	0.1062	0.037	35.108	ug/L
|	V	51	239470.836	0.62	26.2572	0.531	2.024	ug/L
|	Cr	52	213354.874	0.54	26.9415	0.327	1.212	ug/L
|	Cr	53	24529.196	0.06	26.8005	1.177	4.391	ug/L
|	Mn	55	329632.825	0.87	26.8348	0.293	1.092	ug/L
|	Co	59	272695.602	0.72	27.1631	0.244	0.897	ug/L
|	Ni	60	58151.847	0.15	27.2476	0.427	1.566	ug/L
|	Cu	65	54737.623	0.14	26.9058	0.175	0.649	ug/L
|	Zn	66	30648.875	0.08	26.1185	0.606	2.322	ug/L
|>	Ge	72	380430.490	380430.49				ug/L
|	As	75	19089.574	0.05	24.6129	0.120	0.487	ug/L
|	Se	77	1590.286	0.00	24.7327	1.155	4.669	ug/L
|	Se	82	1856.984	0.00	24.5471	0.167	0.681	ug/L
⌊	Rb	85	22.000	0.00				mg/L
	Y	89	219955.021	5379.37				ug/L
	Rh	103	14.667	6.00				ug/L
⌈	Mo	98	33.238	0.00	0.0052	0.006	107.164	ug/L
|	Ag	107	96337.449	0.32	25.5696	0.473	1.851	ug/L
|	Cd	114	23828.398	0.08	24.6222	0.337	1.367	ug/L
|>	In	115	305463.454	305463.45				ug/L
|	Sn	118	502.013	-0.00	-0.0722	0.003	4.051	ug/L
⌊	Sb	123	75731.903	0.25	24.8741	0.376	1.511	ug/L
⌈	Ba	135	34346.897	0.09	24.4426	0.194	0.796	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	379639.834	379639.83				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	156678.092	0.38	25.4977	0.041	0.161	ug/L
|	Tl	205	382928.210	0.92	25.0182	0.089	0.355	ug/L
|	Pb	206	130503.024	0.31	25.0369	0.174	0.694	ug/L
|	Pb	207	114255.521	0.27	24.9236	0.149	0.599	ug/L
|	Pb	208	531018.780	1.27	24.9775	0.306	1.226	ug/L
|	U	238	808952.911	1.94	25.4361	0.419	1.646	ug/L
⌊>	Bi	209	416375.513	416375.51				ug/L

Sample ID: LCSW 8B WG349411-04
Report Date/Time: Monday, November 22, 2010 23:07:53
Page 1

Approved: November 23, 2010

⌈	Na	23	18452.192	0.02	-0.0071	0.000	2.845	mg/L
|	Mg	24	873.459	0.00	-0.0133	0.000	0.118	mg/L
|	K	39	440802.369	-0.08	-0.0108	0.002	19.965	mg/L
|	Ca	43	136.681	-0.00	0.0007	0.001	111.851	mg/L
|	Fe	54	55315.444	-0.00	-0.0041	0.005	131.859	mg/L
|	Fe	57	8998.293	0.00	-0.0018	0.004	214.155	mg/L
⌊>	Sc-1	45	292229.193	292229.19				mg/L
	Cl	35	20545.083	-1632.82				mg/L
	Kr	83	24.334	-7.67				mg/L
	Br	81	10044.377	407.07				mg/L
	P	31	12030.573	1506.34				mg/L
	S	34	224239.832	39497.34				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.662			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.003			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		107.933			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		108.701			
⌈	Na	23					

Sample ID: LCSW 8B WG349411-04
Report Date/Time: Monday, November 22, 2010 23:07:53
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 8B WG349411-04
Report Date/Time: Monday, November 22, 2010 23:07:53

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065001 WG349411-01

Sample Date/Time: Monday, November 22, 2010 23:12:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32151.671	0.01				ug/L
|	Be	9	4.000	-0.00	0.0207	0.007	31.758	ug/L
|	Al	27	52102.086	0.18	8.5224	0.093	1.092	ug/L
⌊>	Sc	45	281029.178	281029.18				ug/L
⌈	Ti	49	716.764	0.00	1.2163	0.105	8.599	ug/L
|	V	51	6222.522	0.01	0.3870	0.010	2.679	ug/L
|	Cr	52	10656.115	0.00	0.2184	0.021	9.620	ug/L
|	Cr	53	236.693	-0.00	-0.0785	0.032	41.159	ug/L
|	Mn	55	688402.685	1.85	57.2746	1.233	2.153	ug/L
|	Co	59	1580.475	0.00	0.1408	0.014	9.982	ug/L
|	Ni	60	38469.912	0.10	18.3974	0.306	1.661	ug/L
|	Cu	65	686.030	0.00	0.2639	0.007	2.515	ug/L
|	Zn	66	11793.069	0.03	10.1220	0.247	2.442	ug/L
|>	Ge	72	372490.976	372490.98				ug/L
|	As	75	-109.886	0.00	0.0764	0.115	150.621	ug/L
|	Se	77	806.780	0.00	12.1863	1.431	11.743	ug/L
|	Se	82	888.790	0.00	11.9458	0.323	2.706	ug/L
⌊	Rb	85	862.046	0.00				mg/L
	Y	89	213891.910	-683.74				ug/L
	Rh	103	22.667	14.00				ug/L
⌈	Mo	98	255.421	0.00	0.1329	0.009	6.496	ug/L
|	Ag	107	27.667	0.00	-0.0095	0.001	5.888	ug/L
|	Cd	114	47.134	0.00	0.0044	0.013	301.794	ug/L
|>	In	115	293061.580	293061.58				ug/L
|	Sn	118	413.475	-0.00	-0.0931	0.005	5.346	ug/L
⌊	Sb	123	235.751	0.00	0.0883	0.007	7.670	ug/L
⌈	Ba	135	5199.737	0.01	3.7822	0.091	2.408	ug/L
|	Ce	140	286.699	0.00				ug/L
⌊>	Tb	159	369609.241	369609.24				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	133.669	0.00	0.0206	0.002	9.005	ug/L
|	Tl	205	300.035	0.00	0.0370	0.003	7.148	ug/L
|	Pb	206	453.348	0.00	0.0180	0.005	26.045	ug/L
|	Pb	207	426.680	0.00	0.0341	0.007	19.778	ug/L
|	Pb	208	1887.422	0.00	0.0228	0.003	13.468	ug/L
|	U	238	6960.492	0.02	0.2150	0.007	3.110	ug/L
⌊>	Bi	209	412524.498	412524.50				ug/L

Approved: November 23, 2010

⌈	Na	23	6062437.173	21.54	1.2904	0.037	2.888	mg/L
|	Mg	24	19746018.886	70.32	6.9904	0.349	4.992	mg/L
|	K	39	2692747.294	8.00	0.2882	0.011	3.926	mg/L
|	Ca	43	381542.463	1.36	20.2313	0.753	3.724	mg/L
|	Fe	54	45431.484	-0.03	-0.0198	0.001	5.120	mg/L
|	Fe	57	26828.633	0.07	0.0751	0.005	6.442	mg/L
⌊>	Sc-1	45	281029.178	281029.18				mg/L
	Cl	35	37078.614	14900.71				mg/L
	Kr	83	30.000	-2.00				mg/L
	Br	81	12006.538	2369.23				mg/L
	P	31	10225.896	-298.34				mg/L
	S	34	1074726.693	889984.20				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.562			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.578			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.081			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		107.696			
⌈	Na	23					

Sample ID: L1011065001 WG349411-01
Report Date/Time: Monday, November 22, 2010 23:14:37
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011065001 WG349411-01
Report Date/Time: Monday, November 22, 2010 23:14:37
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065001S WG349411-05

Sample Date/Time: Monday, November 22, 2010 23:19:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30730.538	0.00				ug/L
|	Be	9	1648.137	0.01	5.1836	0.450	8.684	ug/L
|	Al	27	65045.339	0.22	10.8423	0.945	8.715	ug/L
⌊>	Sc	45	279091.346	279091.35				ug/L
⌈	Ti	49	773.441	0.00	1.3707	0.116	8.455	ug/L
|	V	51	50381.800	0.13	5.6425	0.263	4.664	ug/L
|	Cr	52	48379.416	0.11	5.5911	0.408	7.289	ug/L
|	Cr	53	4771.618	0.01	5.2853	0.412	7.789	ug/L
|	Mn	55	752286.925	2.11	65.3545	4.459	6.822	ug/L
|	Co	59	52060.144	0.15	5.5129	0.266	4.830	ug/L
|	Ni	60	49258.447	0.14	24.6071	1.666	6.770	ug/L
|	Cu	65	10514.308	0.03	5.4469	0.374	6.859	ug/L
|	Zn	66	17732.244	0.05	16.0232	1.009	6.295	ug/L
|>	Ge	72	356907.804	356907.80				ug/L
|	As	75	3555.574	0.01	5.0624	0.323	6.382	ug/L
|	Se	77	1123.510	0.00	18.3323	3.369	18.378	ug/L
|	Se	82	1218.157	0.00	17.1358	1.092	6.373	ug/L
⌊	Rb	85	788.372	0.00				mg/L
	Y	89	200966.368	-13609.28				ug/L
	Rh	103	18.000	9.33				ug/L
⌈	Mo	98	264.536	0.00	0.1442	0.014	9.797	ug/L
|	Ag	107	16766.227	0.06	4.8108	0.214	4.441	ug/L
|	Cd	114	4752.081	0.02	5.2877	0.177	3.354	ug/L
|>	In	115	281718.329	281718.33				ug/L
|	Sn	118	427.342	-0.00	-0.0835	0.005	6.282	ug/L
⌊	Sb	123	14160.211	0.05	5.0493	0.248	4.906	ug/L
⌈	Ba	135	11499.731	0.03	8.5240	0.446	5.234	ug/L
|	Ce	140	270.031	0.00				ug/L
⌊>	Tb	159	364029.070	364029.07				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	29713.768	0.07	4.9950	0.228	4.570	ug/L
|	Tl	205	73863.120	0.18	4.9995	0.299	5.985	ug/L
|	Pb	206	25772.148	0.06	5.0530	0.275	5.438	ug/L
|	Pb	207	22033.498	0.05	4.9179	0.225	4.584	ug/L
|	Pb	208	103283.327	0.25	4.9659	0.274	5.517	ug/L
|	U	238	167330.915	0.42	5.4312	0.230	4.238	ug/L
⌊>	Bi	209	403019.272	403019.27				ug/L

Sample ID: L1011065001S WG349411-05
Report Date/Time: Monday, November 22, 2010 23:21:21
Page 1

Approved: November 23, 2010

⌈	Na	23	6392705.356	22.86	1.3699	0.053	3.860	mg/L
|	Mg	24	19799323.706	70.94	7.0520	0.324	4.599	mg/L
|	K	39	2622024.546	7.81	0.2811	0.019	6.874	mg/L
|	Ca	43	376743.432	1.35	20.1018	1.267	6.301	mg/L
|	Fe	54	41945.792	-0.04	-0.0263	0.003	9.548	mg/L
|	Fe	57	26193.636	0.07	0.0731	0.008	11.459	mg/L
⌊>	Sc-1	45	279091.346	279091.35				mg/L
	Cl	35	35820.059	13642.16				mg/L
	Kr	83	30.667	-1.33				mg/L
	Br	81	10730.422	1093.11				mg/L
	P	31	8687.774	-1836.46				mg/L
	S	34	1058051.180	873308.69				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.438			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.530			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.494			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.215			
⌈	Na	23					

Sample ID: L1011065001S WG349411-05
Report Date/Time: Monday, November 22, 2010 23:21:21
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011065001S WG349411-05
Report Date/Time: Monday, November 22, 2010 23:21:21
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065001SD WG349411-06

Sample Date/Time: Monday, November 22, 2010 23:25:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30262.421	0.01				ug/L
|	Be	9	1686.145	0.01	5.5482	0.885	15.952	ug/L
|	Al	27	82943.497	0.30	14.6499	1.150	7.853	ug/L
⌊>	Sc	45	266882.656	266882.66				ug/L
⌈	Ti	49	856.789	0.00	1.6128	0.188	11.639	ug/L
|	V	51	50466.514	0.14	6.0242	0.574	9.522	ug/L
|	Cr	52	47901.104	0.12	5.9429	0.699	11.761	ug/L
|	Cr	53	4438.105	0.01	5.2177	0.665	12.753	ug/L
|	Mn	55	735844.857	2.19	67.8822	7.965	11.734	ug/L
|	Co	59	52154.241	0.16	5.8676	0.693	11.817	ug/L
|	Ni	60	47758.720	0.14	25.3364	2.895	11.425	ug/L
|	Cu	65	10366.540	0.03	5.7066	0.749	13.122	ug/L
|	Zn	66	17007.089	0.05	16.3232	1.821	11.158	ug/L
|>	Ge	72	335693.777	335693.78				ug/L
|	As	75	3630.331	0.01	5.4721	0.692	12.654	ug/L
|	Se	77	1043.492	0.00	18.0667	1.173	6.493	ug/L
|	Se	82	1168.524	0.00	17.4651	1.902	10.891	ug/L
⌊	Rb	85	751.369	0.00				mg/L
	Y	89	191132.083	-23443.56				ug/L
	Rh	103	20.334	11.67				ug/L
⌈	Mo	98	263.531	0.00	0.1523	0.027	17.580	ug/L
|	Ag	107	16028.483	0.06	4.8530	0.620	12.775	ug/L
|	Cd	114	4765.864	0.02	5.5989	0.686	12.253	ug/L
|>	In	115	266807.682	266807.68				ug/L
|	Sn	118	384.541	-0.00	-0.0903	0.004	4.277	ug/L
⌊	Sb	123	14174.658	0.05	5.3332	0.484	9.075	ug/L
⌈	Ba	135	11265.531	0.03	8.8284	1.153	13.063	ug/L
|	Ce	140	433.386	0.00				ug/L
⌊>	Tb	159	344067.730	344067.73				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	29067.260	0.08	5.1550	0.630	12.219	ug/L
|	Tl	205	72606.488	0.19	5.1838	0.683	13.178	ug/L
|	Pb	206	25297.182	0.07	5.2350	0.612	11.682	ug/L
|	Pb	207	22520.851	0.06	5.3076	0.683	12.876	ug/L
|	Pb	208	103477.838	0.27	5.2524	0.661	12.578	ug/L
|	U	238	168207.730	0.44	5.7603	0.705	12.232	ug/L
⌊>	Bi	209	381855.701	381855.70				ug/L

Sample ID: L1011065001SD WG349411-06
Report Date/Time: Monday, November 22, 2010 23:28:06
Page 1

Approved: November 23, 2010

⌈	Na	23	5759383.618	21.57	1.2918	0.188	14.548	mg/L
|	Mg	24	19148731.542	71.83	7.1405	1.071	15.005	mg/L
|	K	39	2540736.113	7.94	0.2861	0.041	14.423	mg/L
|	Ca	43	374087.809	1.40	20.8937	3.200	15.317	mg/L
|	Fe	54	40821.007	-0.04	-0.0247	0.004	17.103	mg/L
|	Fe	57	25812.567	0.07	0.0765	0.006	8.240	mg/L
⌊>	Sc-1	45	266882.656	266882.66				mg/L
	Cl	35	35467.497	13289.59				mg/L
	Kr	83	26.000	-6.00				mg/L
	Br	81	11068.793	1431.48				mg/L
	P	31	8460.266	-2063.97				mg/L
	S	34	1009954.871	825212.38				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.825			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.209			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.819			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.689			
⌈	Na	23					

Sample ID: L1011065001SD WG349411-06
Report Date/Time: Monday, November 22, 2010 23:28:06
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011065001SD WG349411-06
Report Date/Time: Monday, November 22, 2010 23:28:06
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065002

Sample Date/Time: Monday, November 22, 2010 23:32:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 17
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30546.689	0.01				ug/L
|	Be	9	5.333	0.00	0.0264	0.008	31.508	ug/L
|	Al	27	19569.136	0.07	3.1915	0.219	6.847	ug/L
⌊>	Sc	45	257441.529	257441.53				ug/L
⌈	Ti	49	666.757	0.00	1.3027	0.399	30.639	ug/L
|	V	51	4921.321	0.01	0.3219	0.021	6.528	ug/L
|	Cr	52	9531.302	0.01	0.2562	0.029	11.510	ug/L
|	Cr	53	230.026	-0.00	-0.0470	0.101	215.709	ug/L
|	Mn	55	557164.754	1.72	53.1868	1.462	2.749	ug/L
|	Co	59	1547.135	0.00	0.1605	0.002	1.176	ug/L
|	Ni	60	34206.414	0.11	18.7697	0.246	1.310	ug/L
|	Cu	65	581.023	0.00	0.2542	0.009	3.676	ug/L
|	Zn	66	9696.463	0.03	9.5344	0.098	1.025	ug/L
|>	Ge	72	324679.400	324679.40				ug/L
|	As	75	-1.558	0.00	0.2179	0.109	50.099	ug/L
|	Se	77	696.761	0.00	12.0950	2.676	22.125	ug/L
|	Se	82	768.845	0.00	11.8596	0.567	4.782	ug/L
⌊	Rb	85	624.026	0.00				mg/L
	Y	89	186902.839	-27672.81				ug/L
	Rh	103	18.334	9.67				ug/L
⌈	Mo	98	241.827	0.00	0.1420	0.014	9.711	ug/L
|	Ag	107	15.333	0.00	-0.0125	0.000	3.054	ug/L
|	Cd	114	18.814	0.00	-0.0238	0.013	55.441	ug/L
|>	In	115	261559.622	261559.62				ug/L
|	Sn	118	435.743	-0.00	-0.0700	0.011	16.230	ug/L
⌊	Sb	123	150.707	0.00	0.0654	0.003	4.275	ug/L
⌈	Ba	135	4624.782	0.01	3.5949	0.027	0.753	ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	345767.585	345767.58				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	112.668	0.00	0.0190	0.001	7.555	ug/L
|	Tl	205	306.702	0.00	0.0394	0.004	9.811	ug/L
|	Pb	206	360.010	0.00	0.0067	0.002	35.476	ug/L
|	Pb	207	303.674	0.00	0.0135	0.003	25.148	ug/L
|	Pb	208	1378.717	0.00	0.0051	0.004	73.902	ug/L
|	U	238	6611.919	0.02	0.2245	0.009	3.915	ug/L
⌊>	Bi	209	375769.744	375769.74				ug/L

Sample ID: L1011065002
Report Date/Time: Monday, November 22, 2010 23:34:50
Page 1

Approved: November 23, 2010

⌈	Na	23	5461708.954	21.19	1.2688	0.051	3.999	mg/L
|	Mg	24	17943222.533	69.74	6.9326	0.216	3.123	mg/L
|	K	39	2458230.556	7.96	0.2868	0.006	1.970	mg/L
|	Ca	43	356335.544	1.38	20.6216	0.238	1.152	mg/L
|	Fe	54	44066.803	-0.02	-0.0143	0.004	27.983	mg/L
|	Fe	57	22330.679	0.06	0.0644	0.007	11.591	mg/L
⌊>	Sc-1	45	257441.529	257441.53				mg/L
	Cl	35	34224.470	12046.57				mg/L
	Kr	83	22.334	-9.67				mg/L
	Br	81	9856.188	218.88				mg/L
	P	31	8784.556	-1739.68				mg/L
	S	34	982317.639	797575.15				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.911			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.336			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.303			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.101			
⌈	Na	23					

Sample ID: L1011065002
Report Date/Time: Monday, November 22, 2010 23:34:50
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065002PS WG349492-01

Sample Date/Time: Monday, November 22, 2010 23:39:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29393.191	0.01				ug/L
|	Be	9	15651.578	0.06	54.0584	0.554	1.025	ug/L
|	Al	27	283170.616	1.11	53.8979	1.374	2.550	ug/L
⌊>	Sc	45	253953.575	253953.58				ug/L
⌈	Ti	49	676.757	0.00	1.2906	0.073	5.640	ug/L
|	V	51	427770.155	1.28	54.2008	0.537	0.991	ug/L
|	Cr	52	366800.450	1.08	54.3882	0.271	0.498	ug/L
|	Cr	53	42698.577	0.13	53.9321	1.504	2.788	ug/L
|	Mn	55	1136958.168	3.43	106.4126	2.267	2.130	ug/L
|	Co	59	478926.188	1.45	54.8088	0.560	1.022	ug/L
|	Ni	60	133223.555	0.40	71.7487	0.484	0.675	ug/L
|	Cu	65	92430.526	0.28	52.2569	0.418	0.800	ug/L
|	Zn	66	61165.447	0.18	60.1693	1.295	2.153	ug/L
|>	Ge	72	331212.070	331212.07				ug/L
|	As	75	34542.799	0.10	50.9142	0.799	1.569	ug/L
|	Se	77	3487.628	0.01	64.3353	7.660	11.907	ug/L
|	Se	82	4063.282	0.01	61.8525	1.468	2.373	ug/L
⌊	Rb	85	622.692	0.00				mg/L
	Y	89	188492.601	-26083.04				ug/L
	Rh	103	31.000	22.33				ug/L
⌈	Mo	98	249.681	0.00	0.1431	0.014	9.595	ug/L
|	Ag	107	164942.064	0.62	49.9830	1.439	2.879	ug/L
|	Cd	114	44540.162	0.17	52.5792	0.846	1.609	ug/L
|>	In	115	267641.509	267641.51				ug/L
|	Sn	118	518.280	-0.00	-0.0458	0.003	6.290	ug/L
⌊	Sb	123	140668.470	0.53	52.7238	1.099	2.085	ug/L
⌈	Ba	135	66577.932	0.19	51.2233	1.095	2.137	ug/L
|	Ce	140	36.670	0.00				ug/L
⌊>	Tb	159	351341.711	351341.71				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	293703.273	0.76	51.5465	0.443	0.860	ug/L
|	Tl	205	713285.565	1.85	50.2420	0.892	1.775	ug/L
|	Pb	206	244720.116	0.63	50.7060	1.172	2.312	ug/L
|	Pb	207	213044.344	0.55	50.1774	0.208	0.415	ug/L
|	Pb	208	989415.206	2.56	50.2547	0.418	0.832	ug/L
|	U	238	1563180.004	4.05	53.0144	0.911	1.718	ug/L
⌊>	Bi	209	386122.430	386122.43				ug/L

Sample ID: L1011065002PS WG349492-01
Report Date/Time: Monday, November 22, 2010 23:41:36
Page 1

Approved: November 23, 2010

⌈	Na	23	5446917.003	21.41	1.2827	0.017	1.287	mg/L
|	Mg	24	18339591.708	72.28	7.1854	0.270	3.752	mg/L
|	K	39	2405402.139	7.89	0.2841	0.005	1.689	mg/L
|	Ca	43	347107.314	1.37	20.3667	0.463	2.272	mg/L
|	Fe	54	47489.364	-0.00	-0.0053	0.006	110.653	mg/L
|	Fe	57	22771.535	0.06	0.0681	0.001	1.215	mg/L
⌊>	Sc-1	45	253953.575	253953.58				mg/L
	Cl	35	33459.221	11281.32				mg/L
	Kr	83	30.334	-1.67				mg/L
	Br	81	9488.503	-148.81				mg/L
	P	31	9302.999	-1221.23				mg/L
	S	34	971300.614	786558.12				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.639			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.507			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.887			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.803			
⌈	Na	23					

Sample ID: L1011065002PS WG349492-01
Report Date/Time: Monday, November 22, 2010 23:41:36
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011065002PS WG349492-01
Report Date/Time: Monday, November 22, 2010 23:41:36
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065002SDL WG349492-02

Sample Date/Time: Monday, November 22, 2010 23:46:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 19
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27588.076	0.01				ug/L
|	Be	9	2.667	-0.00	0.0175	0.004	20.713	ug/L
|	Al	27	5418.142	0.01	0.5430	0.089	16.463	ug/L
⌊>	Sc	45	248350.692	248350.69				ug/L
⌈	Ti	49	163.351	0.00	0.3157	0.065	20.629	ug/L
|	V	51	3251.965	0.00	0.1053	0.010	9.717	ug/L
|	Cr	52	8637.816	0.00	0.1197	0.012	10.179	ug/L
|	Cr	53	130.014	-0.00	-0.1768	0.016	8.930	ug/L
|	Mn	55	109006.027	0.34	10.3926	0.125	1.207	ug/L
|	Co	59	395.012	0.00	0.0260	0.004	13.494	ug/L
|	Ni	60	6603.913	0.02	3.6010	0.032	0.895	ug/L
|	Cu	65	208.004	0.00	0.0387	0.012	31.269	ug/L
|	Zn	66	3496.980	0.01	3.2949	0.104	3.159	ug/L
| >	Ge	72	324219.032	324219.03				ug/L
|	As	75	-85.676	0.00	0.0896	0.086	96.348	ug/L
|	Se	77	190.021	0.00	2.3426	0.126	5.365	ug/L
|	Se	82	166.775	0.00	2.4863	0.290	11.675	ug/L
⌊	Rb	85	121.669	0.00				mg/L
	Y	89	186960.207	-27615.44				ug/L
	Rh	103	9.000	0.33				ug/L
⌈	Mo	98	57.749	0.00	0.0244	0.003	12.492	ug/L
|	Ag	107	30.667	0.00	-0.0076	0.002	27.670	ug/L
|	Cd	114	10.570	-0.00	-0.0335	0.005	16.392	ug/L
| >	In	115	257992.300	257992.30				ug/L
|	Sn	118	369.740	-0.00	-0.0910	0.012	12.822	ug/L
⌊	Sb	123	219.958	0.00	0.0932	0.012	13.174	ug/L
⌈	Ba	135	890.049	0.00	0.6940	0.016	2.277	ug/L
|	Ce	140	26.669	0.00				ug/L
⌊>	Tb	159	336255.566	336255.57				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	62.334	0.00	0.0098	0.004	37.763	ug/L
|	Tl	205	120.013	0.00	0.0258	0.002	7.822	ug/L
|	Pb	206	345.009	0.00	0.0028	0.004	131.028	ug/L
|	Pb	207	302.341	0.00	0.0125	0.000	2.975	ug/L
|	Pb	208	1362.050	0.00	0.0035	0.002	44.103	ug/L
|	U	238	1417.781	0.00	0.0430	0.001	3.218	ug/L
⌊>	Bi	209	379199.984	379199.98				ug/L

Sample ID: L1011065002SDL WG349492-02
Report Date/Time: Monday, November 22, 2010 23:48:21
Page 1

Approved: November 23, 2010

Na	23	1329420.334	5.32	0.3123	0.014	4.396	mg/L
Mg	24	3602923.194	14.52	1.4327	0.052	3.636	mg/L
K	39	910516.204	2.09	0.0692	0.006	8.064	mg/L
Ca	43	67651.516	0.27	4.0564	0.133	3.268	mg/L
Fe	54	26367.550	-0.08	-0.0513	0.002	3.405	mg/L
Fe	57	10940.410	0.02	0.0139	0.003	22.529	mg/L
> Sc-1	45	248350.692	248350.69				mg/L
Cl	35	21314.694	-863.21				mg/L
Kr	83	26.334	-5.67				mg/L
Br	81	8053.243	-1584.07				mg/L
P	31	5322.083	-5202.15				mg/L
S	34	355163.892	170421.40				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		85.789			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		92.063			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		95.598			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		98.996			
Na	23					

Sample ID: L1011065002SDL WG349492-02
Report Date/Time: Monday, November 22, 2010 23:48:21
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011065002SDL WG349492-02
Report Date/Time: Monday, November 22, 2010 23:48:21
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 22, 2010 23:52:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27721.737	0.01				ug/L
|	Be	9	14618.019	0.06	54.7046	2.467	4.510	ug/L
|	Al	27	254980.483	1.08	52.5075	0.105	0.200	ug/L
⌊>	Sc	45	234521.218	234521.22				ug/L
⌈	Ti	49	48977.911	0.16	98.6257	2.180	2.210	ug/L
|	V	51	394597.595	1.25	52.5712	0.541	1.030	ug/L
|	Cr	52	340810.033	1.06	53.1196	0.189	0.356	ug/L
|	Cr	53	39203.960	0.12	52.0571	0.859	1.649	ug/L
|	Mn	55	545798.070	1.73	53.7035	0.624	1.163	ug/L
|	Co	59	437857.204	1.39	52.7024	0.427	0.810	ug/L
|	Ni	60	93274.283	0.30	52.8206	0.484	0.917	ug/L
|	Cu	65	85604.066	0.27	50.8998	0.562	1.103	ug/L
|	Zn	66	48600.971	0.15	50.2366	0.236	0.469	ug/L
|>	Ge	72	314917.565	314917.57				ug/L
|	As	75	31901.074	0.10	49.4623	0.402	0.813	ug/L
|	Se	77	2653.951	0.01	51.1914	1.222	2.386	ug/L
|	Se	82	3111.992	0.01	49.8089	0.974	1.956	ug/L
⌊	Rb	85	1041.731	0.00				mg/L
	Y	89	182854.796	-31720.85				ug/L
	Rh	103	13.667	5.00				ug/L
⌈	Mo	98	146046.630	0.57	95.5561	0.703	0.736	ug/L
|	Ag	107	156566.730	0.61	49.6095	0.652	1.315	ug/L
|	Cd	114	41115.024	0.16	50.7510	0.202	0.398	ug/L
|>	In	115	255920.360	255920.36				ug/L
|	Sn	118	145253.867	0.57	50.7657	0.446	0.878	ug/L
⌊	Sb	123	129594.150	0.51	50.7936	0.905	1.781	ug/L
⌈	Ba	135	58284.946	0.18	47.9025	0.434	0.907	ug/L
|	Ce	140	133.348	0.00				ug/L
⌊>	Tb	159	328892.430	328892.43				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	272870.182	0.74	50.3154	0.714	1.420	ug/L
|	Tl	205	671403.750	1.83	49.6758	0.501	1.009	ug/L
|	Pb	206	228974.454	0.62	49.8388	0.433	0.869	ug/L
|	Pb	207	201274.314	0.55	49.8014	0.358	0.719	ug/L
|	Pb	208	931710.529	2.53	49.7174	0.452	0.908	ug/L
|	U	238	1478826.307	4.02	52.6909	0.921	1.748	ug/L
⌊>	Bi	209	367535.358	367535.36				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 23:55:07
Page 1

Approved: November 23, 2010

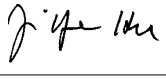
Na	23	20775155.796	88.63	5.3352	0.232	4.349	mg/L
Mg	24	12594118.002	53.74	5.3392	0.178	3.336	mg/L
K	39	34116799.017	144.09	5.3280	0.266	5.001	mg/L
Ca	43	83858.518	0.36	5.3268	0.210	3.940	mg/L
Fe	54	2251226.769	9.41	5.3530	0.128	2.390	mg/L
Fe	57	1152090.531	4.89	5.8097	0.217	3.736	mg/L
> Sc-1	45	234521.218	234521.22				mg/L
Cl	35	19255.859	-2922.04				mg/L
Kr	83	22.667	-9.33				mg/L
Br	81	8063.250	-1574.06				mg/L
P	31	9607.289	-916.94				mg/L
S	34	198832.239	14089.75				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	105.142				
Cr	52	106.239				
Cr	53					
Mn	55	107.407				
Co	59	105.405				
Ni	60	105.641				
Cu	65	101.800				
Zn	66	100.473				
> Ge	72		83.328			
As	75	98.925				
Se	77					
Se	82	99.618				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.219				
Cd	114	101.502				
> In	115		91.324			
Sn	118					
Sb	123	101.587				
Ba	135	95.805				
Ce	140					
> Tb	159		93.505			
Ho	165					
Tl	203	100.631				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.435				
U	238	105.382				
> Bi	209		95.951			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 23:55:07

Approved: November 23, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 22, 2010 23:55:07
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 22, 2010 23:59:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29744.235	0.01				ug/L
|	Be	9	2.667	-0.00	0.0174	0.004	21.155	ug/L
|	Al	27	2150.233	-0.00	-0.1055	0.037	35.135	ug/L
⌊>	Sc	45	251560.316	251560.32				ug/L
⌈	Ti	49	43.338	0.00	0.0793	0.030	37.575	ug/L
|	V	51	2502.681	0.00	0.0043	0.006	136.571	ug/L
|	Cr	52	7909.206	0.00	-0.0057	0.007	128.176	ug/L
|	Cr	53	143.349	-0.00	-0.1615	0.028	17.178	ug/L
|	Mn	55	292.341	0.00	-0.0055	0.000	5.146	ug/L
|	Co	59	82.334	0.00	-0.0106	0.001	9.526	ug/L
|	Ni	60	12.667	-0.00	-0.0273	0.003	9.812	ug/L
|	Cu	65	94.001	0.00	-0.0277	0.005	17.838	ug/L
|	Zn	66	272.673	0.00	0.0391	0.035	88.706	ug/L
|>	Ge	72	327558.633	327558.63				ug/L
|	As	75	-138.133	0.00	0.0142	0.024	168.632	ug/L
|	Se	77	43.338	-0.00	-0.4818	0.294	61.084	ug/L
|	Se	82	11.803	0.00	0.0724	0.061	84.558	ug/L
⌊	Rb	85	14.667	0.00				mg/L
	Y	89	193629.203	-20946.44				ug/L
	Rh	103	5.333	-3.33				ug/L
⌈	Mo	98	108.344	0.00	0.0550	0.009	17.076	ug/L
|	Ag	107	13.000	0.00	-0.0133	0.001	10.607	ug/L
|	Cd	114	6.812	-0.00	-0.0384	0.006	16.729	ug/L
|>	In	115	266866.659	266866.66				ug/L
|	Sn	118	516.413	-0.00	-0.0460	0.002	5.302	ug/L
⌊	Sb	123	315.003	0.00	0.1259	0.012	9.229	ug/L
⌈	Ba	135	8.000	-0.00	-0.0156	0.003	17.421	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	342461.804	342461.80				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	17.667	0.00	0.0017	0.001	41.871	ug/L
|	Tl	205	50.005	0.00	0.0207	0.001	6.861	ug/L
|	Pb	206	308.008	-0.00	-0.0068	0.003	38.127	ug/L
|	Pb	207	264.673	0.00	0.0016	0.005	283.909	ug/L
|	Pb	208	1239.043	-0.00	-0.0047	0.002	32.903	ug/L
|	U	238	71.334	0.00	-0.0036	0.000	6.970	ug/L
⌊>	Bi	209	390448.016	390448.02				ug/L

Approved: November 23, 2010

⌈	Na	23	11781.447	0.01	-0.0080	0.000	0.949	mg/L
|	Mg	24	533.401	0.00	-0.0133	0.000	0.260	mg/L
|	K	39	400142.903	0.01	-0.0078	0.002	21.573	mg/L
|	Ca	43	106.678	-0.00	-0.0000	0.003	25083.426	mg/L
|	Fe	54	46687.878	-0.01	-0.0061	0.004	63.548	mg/L
|	Fe	57	7086.560	0.00	-0.0050	0.003	62.411	mg/L
⌊>	Sc-1	45	251560.316	251560.32				mg/L
	Cl	35	18073.652	-4104.25				mg/L
	Kr	83	22.667	-9.33				mg/L
	Br	81	8013.210	-1624.10				mg/L
	P	31	9503.212	-1021.02				mg/L
	S	34	193897.088	9154.60				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.673			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.230			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.363			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.933			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 00:01:50
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 00:01:50

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065003

Sample Date/Time: Tuesday, November 23, 2010 00:06:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 20
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29710.869	0.01				ug/L
|	Be	9	7.333	0.00	0.0338	0.004	11.186	ug/L
|	Al	27	56563.255	0.22	10.4990	2.134	20.324	ug/L
⌊>	Sc	45	250584.499	250584.50				ug/L
⌈	Ti	49	746.769	0.00	1.4622	0.094	6.399	ug/L
|	V	51	5536.987	0.01	0.4054	0.024	5.908	ug/L
|	Cr	52	9654.422	0.01	0.2832	0.021	7.379	ug/L
|	Cr	53	256.696	0.00	-0.0113	0.015	136.294	ug/L
|	Mn	55	572130.043	1.77	54.8565	4.522	8.243	ug/L
|	Co	59	1331.436	0.00	0.1360	0.014	10.657	ug/L
|	Ni	60	37605.865	0.12	20.7265	1.966	9.485	ug/L
|	Cu	65	648.694	0.00	0.2952	0.032	10.758	ug/L
|	Zn	66	11030.551	0.03	10.9296	0.725	6.631	ug/L
|>	Ge	72	322938.639	322938.64				ug/L
|	As	75	-101.940	0.00	0.0671	0.119	176.848	ug/L
|	Se	77	680.092	0.00	11.7734	2.806	23.834	ug/L
|	Se	82	851.476	0.00	13.2084	0.389	2.947	ug/L
⌊	Rb	85	792.373	0.00				mg/L
	Y	89	184973.410	-29602.24				ug/L
	Rh	103	15.667	7.00				ug/L
⌈	Mo	98	294.459	0.00	0.1789	0.030	16.990	ug/L
|	Ag	107	17.000	0.00	-0.0119	0.002	20.690	ug/L
|	Cd	114	48.455	0.00	0.0131	0.008	57.959	ug/L
|>	In	115	257130.527	257130.53				ug/L
|	Sn	118	399.341	-0.00	-0.0803	0.001	1.831	ug/L
⌊	Sb	123	135.664	0.00	0.0604	0.003	5.740	ug/L
⌈	Ba	135	5105.700	0.02	4.1037	0.507	12.351	ug/L
|	Ce	140	250.028	0.00				ug/L
⌊>	Tb	159	334717.046	334717.05				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	118.002	0.00	0.0201	0.005	27.201	ug/L
|	Tl	205	340.040	0.00	0.0420	0.005	12.334	ug/L
|	Pb	206	376.678	0.00	0.0110	0.004	35.497	ug/L
|	Pb	207	316.008	0.00	0.0172	0.006	34.594	ug/L
|	Pb	208	1470.724	0.00	0.0105	0.003	30.824	ug/L
|	U	238	7355.475	0.02	0.2527	0.035	13.753	ug/L
⌊>	Bi	209	372436.110	372436.11				ug/L

Sample ID: L1011065003
Report Date/Time: Tuesday, November 23, 2010 00:08:36
Page 1

Approved: November 23, 2010

Na	23	5905979.745	23.54	1.4110	0.164	11.647	mg/L
Mg	24	20026210.889	79.98	7.9522	0.874	10.992	mg/L
K	39	2608221.827	8.83	0.3189	0.035	11.064	mg/L
Ca	43	394364.440	1.57	23.4585	2.433	10.371	mg/L
Fe	54	41900.552	-0.02	-0.0166	0.005	30.686	mg/L
Fe	57	24596.108	0.07	0.0783	0.010	12.326	mg/L
> Sc-1	45	250584.499	250584.50				mg/L
Cl	35	33698.046	11520.14				mg/L
Kr	83	27.334	-4.67				mg/L
Br	81	10397.404	760.09				mg/L
P	31	7925.183	-2599.05				mg/L
S	34	1014096.375	829353.88				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		85.450			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		91.756			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		95.161			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		97.230			
Na	23					

Sample ID: L1011065003
Report Date/Time: Tuesday, November 23, 2010 00:08:36
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011065003
Report Date/Time: Tuesday, November 23, 2010 00:08:36
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065004

Sample Date/Time: Tuesday, November 23, 2010 00:13:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27554.591	0.01				ug/L
|	Be	9	4.000	-0.00	0.0227	0.007	32.763	ug/L
|	Al	27	17966.197	0.06	3.1145	0.327	10.498	ug/L
⌊>	Sc	45	241122.757	241122.76				ug/L
⌈	Ti	49	530.067	0.00	1.0578	0.166	15.686	ug/L
|	V	51	4620.159	0.01	0.2980	0.023	7.826	ug/L
|	Cr	52	9240.027	0.01	0.2477	0.032	12.996	ug/L
|	Cr	53	206.690	-0.00	-0.0705	0.079	111.465	ug/L
|	Mn	55	419985.198	1.33	41.1148	1.811	4.404	ug/L
|	Co	59	1115.407	0.00	0.1135	0.008	6.946	ug/L
|	Ni	60	31833.304	0.10	17.9178	0.951	5.310	ug/L
|	Cu	65	520.352	0.00	0.2268	0.002	0.981	ug/L
|	Zn	66	7535.250	0.02	7.5540	0.394	5.215	ug/L
|>	Ge	72	316541.925	316541.92				ug/L
|	As	75	-15.030	0.00	0.1973	0.238	120.712	ug/L
|	Se	77	816.783	0.00	14.7469	3.483	23.620	ug/L
|	Se	82	789.160	0.00	12.4893	0.823	6.587	ug/L
⌊	Rb	85	615.025	0.00				mg/L
	Y	89	183884.068	-30691.58				ug/L
	Rh	103	19.667	11.00				ug/L
⌈	Mo	98	252.202	0.00	0.1532	0.011	7.378	ug/L
|	Ag	107	9.667	-0.00	-0.0141	0.000	1.430	ug/L
|	Cd	114	11.417	0.00	-0.0322	0.008	25.749	ug/L
|>	In	115	254047.692	254047.69				ug/L
|	Sn	118	374.274	-0.00	-0.0875	0.004	4.132	ug/L
⌊	Sb	123	92.582	0.00	0.0441	0.002	4.202	ug/L
⌈	Ba	135	4527.070	0.01	3.6784	0.067	1.831	ug/L
|	Ce	140	40.004	0.00				ug/L
⌊>	Tb	159	330822.199	330822.20				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	104.668	0.00	0.0180	0.002	12.501	ug/L
|	Tl	205	253.362	0.00	0.0360	0.004	10.858	ug/L
|	Pb	206	305.674	-0.00	-0.0031	0.002	65.380	ug/L
|	Pb	207	253.339	0.00	0.0030	0.002	65.989	ug/L
|	Pb	208	1199.040	0.00	-0.0027	0.002	84.177	ug/L
|	U	238	6486.170	0.02	0.2262	0.007	3.240	ug/L
⌊>	Bi	209	365748.854	365748.85				ug/L

Sample ID: L1011065004
Report Date/Time: Tuesday, November 23, 2010 00:15:22
Page 1

Approved: November 23, 2010

⌈	Na	23	5383928.481	22.29	1.3357	0.046	3.473	mg/L
|	Mg	24	17766906.589	73.71	7.3276	0.316	4.318	mg/L
|	K	39	2362984.027	8.22	0.2963	0.014	4.782	mg/L
|	Ca	43	336173.679	1.39	20.7780	1.513	7.280	mg/L
|	Fe	54	33900.859	-0.05	-0.0318	0.001	4.120	mg/L
|	Fe	57	21157.848	0.06	0.0659	0.007	10.643	mg/L
⌊>	Sc-1	45	241122.757	241122.76				mg/L
	Cl	35	33021.103	10843.20				mg/L
	Kr	83	24.667	-7.33				mg/L
	Br	81	10825.191	1187.88				mg/L
	P	31	6634.875	-3889.36				mg/L
	S	34	958364.260	773621.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		83.757			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.656			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.054			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.485			
⌈	Na	23					

Sample ID: L1011065004
Report Date/Time: Tuesday, November 23, 2010 00:15:22
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011065004
Report Date/Time: Tuesday, November 23, 2010 00:15:22
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065005

Sample Date/Time: Tuesday, November 23, 2010 00:19:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 22
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30981.411	0.01				ug/L
|	Be	9	4.667	-0.00	0.0240	0.011	45.968	ug/L
|	Al	27	33957.954	0.12	5.7854	0.759	13.112	ug/L
⌊>	Sc	45	263189.095	263189.09				ug/L
⌈	Ti	49	753.437	0.00	1.3976	0.154	11.049	ug/L
|	V	51	4408.082	0.01	0.2283	0.016	6.992	ug/L
|	Cr	52	9680.447	0.00	0.2097	0.025	12.159	ug/L
|	Cr	53	240.027	-0.00	-0.0485	0.078	159.973	ug/L
|	Mn	55	199909.413	0.59	18.1669	1.124	6.188	ug/L
|	Co	59	630.693	0.00	0.0501	0.002	4.618	ug/L
|	Ni	60	31161.701	0.09	16.2931	1.322	8.113	ug/L
|	Cu	65	603.691	0.00	0.2510	0.009	3.644	ug/L
|	Zn	66	7554.268	0.02	7.0209	0.380	5.414	ug/L
|>	Ge	72	340471.497	340471.50				ug/L
|	As	75	-132.341	0.00	0.0296	0.105	353.671	ug/L
|	Se	77	496.729	0.00	7.7817	0.691	8.885	ug/L
|	Se	82	562.142	0.00	8.2313	0.215	2.614	ug/L
⌊	Rb	85	792.373	0.00				mg/L
	Y	89	197031.928	-17543.72				ug/L
	Rh	103	19.334	10.67				ug/L
⌈	Mo	98	213.972	0.00	0.1155	0.008	7.161	ug/L
|	Ag	107	20.667	0.00	-0.0112	0.001	11.915	ug/L
|	Cd	114	28.690	0.00	-0.0140	0.008	54.692	ug/L
|>	In	115	278921.513	278921.51				ug/L
|	Sn	118	416.675	-0.00	-0.0856	0.007	7.620	ug/L
⌊	Sb	123	94.997	0.00	0.0417	0.000	0.809	ug/L
⌈	Ba	135	5228.426	0.01	3.9673	0.357	9.008	ug/L
|	Ce	140	190.021	0.00				ug/L
⌊>	Tb	159	354447.106	354447.11				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	68.001	0.00	0.0103	0.001	10.702	ug/L
|	Tl	205	156.684	0.00	0.0280	0.001	3.967	ug/L
|	Pb	206	348.343	0.00	0.0005	0.005	1097.663	ug/L
|	Pb	207	301.674	0.00	0.0093	0.003	35.496	ug/L
|	Pb	208	1406.720	0.00	0.0027	0.003	93.862	ug/L
|	U	238	7060.244	0.02	0.2276	0.024	10.344	ug/L
⌊>	Bi	209	395883.815	395883.82				ug/L

Sample ID: L1011065005
Report Date/Time: Tuesday, November 23, 2010 00:22:09
Page 1

Approved: November 23, 2010

⌈	Na	23	6185810.152	23.54	1.4106	0.167	11.811	mg/L
|	Mg	24	20922825.299	79.78	7.9326	1.048	13.213	mg/L
|	K	39	2669751.395	8.58	0.3099	0.035	11.417	mg/L
|	Ca	43	410913.193	1.56	23.3139	2.290	9.821	mg/L
|	Fe	54	42693.223	-0.03	-0.0194	0.005	24.686	mg/L
|	Fe	57	27082.869	0.08	0.0843	0.016	19.206	mg/L
⌊>	Sc-1	45	263189.095	263189.09				mg/L
	Cl	35	40050.059	17872.16				mg/L
	Kr	83	24.667	-7.33				mg/L
	Br	81	10293.962	656.65				mg/L
	P	31	8331.491	-2192.74				mg/L
	S	34	1071057.536	886315.04				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.089			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.532			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.770			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.352			
⌈	Na	23					

Sample ID: L1011065005
Report Date/Time: Tuesday, November 23, 2010 00:22:09
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011065005
Report Date/Time: Tuesday, November 23, 2010 00:22:09
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065006

Sample Date/Time: Tuesday, November 23, 2010 00:26:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 23
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31131.751	0.01				ug/L
|	Be	9	1.333	-0.00	0.0126	0.004	30.686	ug/L
|	Al	27	19485.743	0.06	3.0931	0.341	11.029	ug/L
⌊>	Sc	45	262962.850	262962.85				ug/L
⌈	Ti	49	700.095	0.00	1.3021	0.141	10.832	ug/L
|	V	51	4569.904	0.01	0.2498	0.014	5.586	ug/L
|	Cr	52	9245.699	0.00	0.1487	0.025	16.829	ug/L
|	Cr	53	223.358	-0.00	-0.0694	0.055	78.928	ug/L
|	Mn	55	443705.380	1.31	40.4752	1.036	2.559	ug/L
|	Co	59	1330.435	0.00	0.1284	0.007	5.699	ug/L
|	Ni	60	33184.655	0.10	17.4030	0.474	2.724	ug/L
|	Cu	65	796.373	0.00	0.3581	0.021	5.779	ug/L
|	Zn	66	7526.240	0.02	7.0136	0.042	0.592	ug/L
| >	Ge	72	339648.816	339648.82				ug/L
|	As	75	-202.358	-0.00	-0.0721	0.225	312.566	ug/L
|	Se	77	720.098	0.00	11.9036	0.600	5.039	ug/L
|	Se	82	778.179	0.00	11.4610	0.480	4.192	ug/L
⌊	Rb	85	633.693	0.00				mg/L
	Y	89	194924.777	-19650.87				ug/L
	Rh	103	18.334	9.67				ug/L
⌈	Mo	98	223.311	0.00	0.1227	0.017	14.022	ug/L
|	Ag	107	11.667	-0.00	-0.0138	0.000	1.264	ug/L
|	Cd	114	9.644	-0.00	-0.0354	0.003	9.311	ug/L
| >	In	115	275599.571	275599.57				ug/L
|	Sn	118	374.274	-0.00	-0.0978	0.003	2.872	ug/L
⌊	Sb	123	92.328	0.00	0.0412	0.003	7.982	ug/L
⌈	Ba	135	4650.461	0.01	3.5425	0.031	0.886	ug/L
|	Ce	140	26.669	0.00				ug/L
⌊>	Tb	159	352829.457	352829.46				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	106.335	0.00	0.0171	0.002	11.635	ug/L
|	Tl	205	226.692	0.00	0.0330	0.002	7.006	ug/L
|	Pb	206	357.343	0.00	0.0032	0.003	109.358	ug/L
|	Pb	207	301.008	0.00	0.0100	0.003	27.605	ug/L
|	Pb	208	1358.716	0.00	0.0012	0.002	152.748	ug/L
|	U	238	6639.937	0.02	0.2165	0.002	0.850	ug/L
⌊>	Bi	209	390788.305	390788.31				ug/L

Sample ID: L1011065006
Report Date/Time: Tuesday, November 23, 2010 00:28:52
Page 1

Approved: November 23, 2010

⌈	Na	23	5541794.666	21.04	1.2599	0.040	3.203	mg/L
|	Mg	24	18090835.881	68.80	6.8392	0.164	2.396	mg/L
|	K	39	2404392.184	7.56	0.2719	0.004	1.563	mg/L
|	Ca	43	353847.658	1.35	20.0449	0.536	2.673	mg/L
|	Fe	54	36848.177	-0.05	-0.0320	0.002	6.512	mg/L
|	Fe	57	23700.441	0.06	0.0686	0.003	4.378	mg/L
⌊>	Sc-1	45	262962.850	262962.85				mg/L
	Cl	35	34271.964	12094.06				mg/L
	Kr	83	22.334	-9.67				mg/L
	Br	81	10303.977	666.67				mg/L
	P	31	7210.604	-3313.63				mg/L
	S	34	992905.737	808163.25				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.872			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.346			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.310			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.021			
⌈	Na	23					

Sample ID: L1011065006
Report Date/Time: Tuesday, November 23, 2010 00:28:52
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011065006
Report Date/Time: Tuesday, November 23, 2010 00:28:52
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065007

Sample Date/Time: Tuesday, November 23, 2010 00:33:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 24
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28390.259	0.00				ug/L
|	Be	9	6.000	0.00	0.0283	0.012	41.787	ug/L
|	Al	27	32469.305	0.11	5.4970	0.358	6.512	ug/L
⌊>	Sc	45	263565.194	263565.19				ug/L
⌈	Ti	49	570.074	0.00	1.0622	0.236	22.266	ug/L
|	V	51	4303.803	0.01	0.2185	0.007	3.163	ug/L
|	Cr	52	9313.762	0.00	0.1635	0.007	4.540	ug/L
|	Cr	53	176.686	-0.00	-0.1262	0.043	34.135	ug/L
|	Mn	55	159884.973	0.47	14.6123	0.134	0.918	ug/L
|	Co	59	624.692	0.00	0.0498	0.004	7.487	ug/L
|	Ni	60	29424.204	0.09	15.4767	0.268	1.734	ug/L
|	Cu	65	632.360	0.00	0.2687	0.018	6.691	ug/L
|	Zn	66	6380.099	0.02	5.9306	0.021	0.349	ug/L
|>	Ge	72	338508.716	338508.72				ug/L
|	As	75	-68.615	0.00	0.1212	0.143	117.977	ug/L
|	Se	77	600.078	0.00	9.7405	0.926	9.508	ug/L
|	Se	82	646.162	0.00	9.5398	0.811	8.501	ug/L
⌊	Rb	85	693.031	0.00				mg/L
	Y	89	190503.479	-24072.17				ug/L
	Rh	103	17.334	8.67				ug/L
⌈	Mo	98	201.675	0.00	0.1095	0.006	5.119	ug/L
|	Ag	107	12.667	0.00	-0.0135	0.001	6.712	ug/L
|	Cd	114	27.701	0.00	-0.0147	0.004	26.067	ug/L
|>	In	115	275783.128	275783.13				ug/L
|	Sn	118	350.139	-0.00	-0.1058	0.005	4.576	ug/L
⌊	Sb	123	75.332	0.00	0.0350	0.004	12.315	ug/L
⌈	Ba	135	4473.045	0.01	3.4092	0.099	2.917	ug/L
|	Ce	140	196.688	0.00				ug/L
⌊>	Tb	159	352597.282	352597.28				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	87.001	0.00	0.0137	0.001	5.507	ug/L
|	Tl	205	206.690	0.00	0.0315	0.002	6.716	ug/L
|	Pb	206	336.676	0.00	-0.0011	0.005	432.145	ug/L
|	Pb	207	302.341	0.00	0.0103	0.004	38.661	ug/L
|	Pb	208	1393.719	0.00	0.0029	0.001	41.176	ug/L
|	U	238	6323.063	0.02	0.2056	0.007	3.383	ug/L
⌊>	Bi	209	391388.407	391388.41				ug/L

Sample ID: L1011065007
Report Date/Time: Tuesday, November 23, 2010 00:35:36
Page 1

Approved: November 23, 2010

⌈	Na	23	5567344.398	21.11	1.2643	0.061	4.833	mg/L
|	Mg	24	17917253.518	68.11	6.7702	0.488	7.205	mg/L
|	K	39	2430547.429	7.64	0.2750	0.011	3.919	mg/L
|	Ca	43	352934.375	1.34	19.9596	0.735	3.684	mg/L
|	Fe	54	39955.202	-0.04	-0.0254	0.005	18.582	mg/L
|	Fe	57	24054.659	0.06	0.0702	0.009	12.310	mg/L
⌊>	Sc-1	45	263565.194	263565.19				mg/L
	Cl	35	35624.679	13446.78				mg/L
	Kr	83	23.000	-9.00				mg/L
	Br	81	9881.547	244.24				mg/L
	P	31	7593.550	-2930.68				mg/L
	S	34	983216.065	798473.57				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.570			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.412			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.244			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.178			
⌈	Na	23					

Sample ID: L1011065007
Report Date/Time: Tuesday, November 23, 2010 00:35:36
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011065007
Report Date/Time: Tuesday, November 23, 2010 00:35:36
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065008

Sample Date/Time: Tuesday, November 23, 2010 00:40:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 25
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28490.614	0.01				ug/L
|	Be	9	2.667	-0.00	0.0173	0.008	45.781	ug/L
|	Al	27	17365.074	0.06	2.8155	0.069	2.459	ug/L
⌊>	Sc	45	253850.372	253850.37				ug/L
⌈	Ti	49	696.761	0.00	1.3714	0.119	8.665	ug/L
|	V	51	3687.394	0.00	0.1665	0.012	7.243	ug/L
|	Cr	52	8970.445	0.00	0.1847	0.013	7.284	ug/L
|	Cr	53	163.351	-0.00	-0.1317	0.030	23.061	ug/L
|	Mn	55	115799.995	0.36	11.1468	1.626	14.587	ug/L
|	Co	59	710.366	0.00	0.0637	0.014	22.003	ug/L
|	Ni	60	27317.062	0.09	15.1457	2.189	14.453	ug/L
|	Cu	65	472.016	0.00	0.1941	0.029	14.857	ug/L
|	Zn	66	4002.178	0.01	3.8426	0.327	8.514	ug/L
| >	Ge	72	321084.507	321084.51				ug/L
|	As	75	-133.690	0.00	0.0167	0.179	1071.193	ug/L
|	Se	77	590.077	0.00	10.1388	1.631	16.091	ug/L
|	Se	82	586.471	0.00	9.1160	1.296	14.212	ug/L
⌊	Rb	85	604.024	0.00				mg/L
	Y	89	181972.875	-32602.77				ug/L
	Rh	103	20.000	11.33				ug/L
⌈	Mo	98	194.602	0.00	0.1119	0.015	13.799	ug/L
|	Ag	107	10.667	-0.00	-0.0139	0.001	6.665	ug/L
|	Cd	114	14.102	0.00	-0.0295	0.008	28.567	ug/L
| >	In	115	260739.360	260739.36				ug/L
|	Sn	118	365.340	-0.00	-0.0939	0.003	3.237	ug/L
⌊	Sb	123	63.204	0.00	0.0319	0.002	7.308	ug/L
⌈	Ba	135	4019.523	0.01	3.1721	0.384	12.121	ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	340279.056	340279.06				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	66.001	0.00	0.0106	0.001	9.043	ug/L
|	Tl	205	143.349	0.00	0.0276	0.003	10.914	ug/L
|	Pb	206	314.675	-0.00	-0.0026	0.004	154.164	ug/L
|	Pb	207	277.340	0.00	0.0074	0.001	12.813	ug/L
|	Pb	208	1269.044	0.00	-0.0004	0.002	414.537	ug/L
|	U	238	5887.812	0.02	0.2002	0.027	13.612	ug/L
⌊>	Bi	209	373924.005	373924.01				ug/L

Approved: November 23, 2010

⌈	Na	23	5238975.903	20.57	1.2316	0.139	11.251	mg/L
|	Mg	24	17075310.718	67.13	6.6727	0.888	13.305	mg/L
|	K	39	2296301.098	7.45	0.2678	0.029	10.757	mg/L
|	Ca	43	338159.329	1.33	19.8020	2.714	13.706	mg/L
|	Fe	54	34908.726	-0.05	-0.0335	0.001	3.881	mg/L
|	Fe	57	23019.023	0.06	0.0692	0.011	16.016	mg/L
⌊>	Sc-1	45	253850.372	253850.37				mg/L
	Cl	35	33333.485	11155.58				mg/L
	Kr	83	25.334	-6.67				mg/L
	Br	81	10448.790	811.48				mg/L
	P	31	7147.913	-3376.32				mg/L
	S	34	947557.156	762814.66				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.959			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.044			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.742			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.619			
⌈	Na	23					

Sample ID: L1011065008
Report Date/Time: Tuesday, November 23, 2010 00:42:20
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011065008
Report Date/Time: Tuesday, November 23, 2010 00:42:20
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065009

Sample Date/Time: Tuesday, November 23, 2010 00:46:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27337.338	0.01				ug/L
|	Be	9	3.333	-0.00	0.0201	0.008	40.721	ug/L
|	Al	27	35596.824	0.14	6.6110	0.488	7.375	ug/L
⌊>	Sc	45	243341.973	243341.97				ug/L
⌈	Ti	49	580.075	0.00	1.1619	0.151	12.961	ug/L
|	V	51	4148.326	0.01	0.2367	0.007	3.054	ug/L
|	Cr	52	8877.695	0.00	0.1946	0.026	13.573	ug/L
|	Cr	53	193.355	-0.00	-0.0879	0.007	8.205	ug/L
|	Mn	55	284829.203	0.90	27.9494	0.496	1.776	ug/L
|	Co	59	804.374	0.00	0.0765	0.005	6.420	ug/L
|	Ni	60	27192.876	0.09	15.3435	0.374	2.436	ug/L
|	Cu	65	542.687	0.00	0.2410	0.023	9.497	ug/L
|	Zn	66	7088.249	0.02	7.1129	0.161	2.266	ug/L
|>	Ge	72	315567.825	315567.82				ug/L
|	As	75	-69.498	0.00	0.1127	0.120	106.846	ug/L
|	Se	77	436.720	0.00	7.3205	1.166	15.929	ug/L
|	Se	82	515.797	0.00	8.1475	0.060	0.736	ug/L
⌊	Rb	85	661.695	0.00				mg/L
	Y	89	181772.391	-32803.25				ug/L
	Rh	103	20.667	12.00				ug/L
⌈	Mo	98	214.045	0.00	0.1255	0.004	2.824	ug/L
|	Ag	107	12.333	0.00	-0.0133	0.001	9.025	ug/L
|	Cd	114	31.968	0.00	-0.0074	0.007	87.881	ug/L
|>	In	115	258819.671	258819.67				ug/L
|	Sn	118	357.340	-0.00	-0.0958	0.005	5.411	ug/L
⌊	Sb	123	64.040	0.00	0.0324	0.002	7.452	ug/L
⌈	Ba	135	4229.938	0.01	3.4855	0.127	3.657	ug/L
|	Ce	140	140.015	0.00				ug/L
⌊>	Tb	159	326101.695	326101.70				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	60.334	0.00	0.0097	0.001	8.036	ug/L
|	Tl	205	160.017	0.00	0.0291	0.004	14.610	ug/L
|	Pb	206	310.341	-0.00	-0.0025	0.003	103.887	ug/L
|	Pb	207	277.673	0.00	0.0086	0.005	53.406	ug/L
|	Pb	208	1291.713	0.00	0.0019	0.001	73.319	ug/L
|	U	238	6079.242	0.02	0.2104	0.006	2.627	ug/L
⌊>	Bi	209	367929.900	367929.90				ug/L

Approved: November 23, 2010

Na	23	5276009.142	21.64	1.2963	0.012	0.888	mg/L
Mg	24	17415641.492	71.57	7.1150	0.088	1.242	mg/L
K	39	2337968.218	8.02	0.2891	0.002	0.810	mg/L
Ca	43	340902.695	1.40	20.8652	0.492	2.356	mg/L
Fe	54	40282.138	-0.03	-0.0176	0.003	16.935	mg/L
Fe	57	24766.443	0.07	0.0825	0.002	2.623	mg/L
> Sc-1	45	243341.973	243341.97				mg/L
Cl	35	34210.420	12032.52				mg/L
Kr	83	25.667	-6.33				mg/L
Br	81	9912.244	274.93				mg/L
P	31	7351.372	-3172.86				mg/L
S	34	950521.833	765779.34				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		83.500			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		92.359			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		92.712			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		96.054			
Na	23					

Sample ID: L1011065009
Report Date/Time: Tuesday, November 23, 2010 00:49:04
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011065009
Report Date/Time: Tuesday, November 23, 2010 00:49:04
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011065010

Sample Date/Time: Tuesday, November 23, 2010 00:53:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 27
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27237.110	0.01				ug/L
|	Be	9	4.000	-0.00	0.0226	0.007	31.489	ug/L
|	Al	27	17999.556	0.06	3.1018	0.229	7.383	ug/L
⌊>	Sc	45	242386.732	242386.73				ug/L
⌈	Ti	49	513.398	0.00	1.0591	0.229	21.615	ug/L
|	V	51	3809.027	0.00	0.2072	0.030	14.442	ug/L
|	Cr	52	8811.302	0.01	0.2278	0.033	14.632	ug/L
|	Cr	53	156.684	-0.00	-0.1302	0.076	58.179	ug/L
|	Mn	55	249151.084	0.81	25.2128	3.517	13.949	ug/L
|	Co	59	1017.396	0.00	0.1059	0.019	17.677	ug/L
|	Ni	60	24987.531	0.08	14.5399	2.123	14.601	ug/L
|	Cu	65	419.346	0.00	0.1754	0.031	17.798	ug/L
|	Zn	66	2213.267	0.01	2.1323	0.090	4.217	ug/L
|>	Ge	72	306007.988	306007.99				ug/L
|	As	75	-159.103	-0.00	-0.0333	0.066	199.233	ug/L
|	Se	77	453.389	0.00	7.9206	0.973	12.288	ug/L
|	Se	82	454.793	0.00	7.3993	0.739	9.984	ug/L
⌊	Rb	85	562.355	0.00				mg/L
	Y	89	178181.136	-36394.51				ug/L
	Rh	103	16.334	7.67				ug/L
⌈	Mo	98	175.716	0.00	0.1062	0.019	17.828	ug/L
|	Ag	107	10.667	-0.00	-0.0137	0.001	7.616	ug/L
|	Cd	114	2.781	-0.00	-0.0429	0.003	6.975	ug/L
|>	In	115	247141.704	247141.70				ug/L
|	Sn	118	366.007	-0.00	-0.0867	0.012	13.899	ug/L
⌊	Sb	123	64.329	0.00	0.0337	0.002	5.179	ug/L
⌈	Ba	135	3913.485	0.01	3.2933	0.512	15.558	ug/L
|	Ce	140	33.337	0.00				ug/L
⌊>	Tb	159	318892.266	318892.27				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	18.667	0.00	0.0021	0.002	81.299	ug/L
|	Tl	205	40.004	0.00	0.0202	0.001	6.467	ug/L
|	Pb	206	319.008	0.00	0.0010	0.003	334.234	ug/L
|	Pb	207	255.006	0.00	0.0045	0.005	118.388	ug/L
|	Pb	208	1203.040	0.00	-0.0013	0.002	171.144	ug/L
|	U	238	5662.681	0.02	0.2002	0.028	13.994	ug/L
⌊>	Bi	209	359447.814	359447.81				ug/L

Sample ID: L1011065010
Report Date/Time: Tuesday, November 23, 2010 00:55:49
Page 1

Approved: November 23, 2010

⌈	Na	23	4830777.834	19.90	1.1914	0.152	12.717	mg/L
|	Mg	24	16632791.015	68.70	6.8286	1.094	16.020	mg/L
|	K	39	2179301.692	7.41	0.2664	0.037	13.907	mg/L
|	Ca	43	325315.153	1.34	20.0138	3.173	15.853	mg/L
|	Fe	54	34846.318	-0.05	-0.0299	0.004	14.510	mg/L
|	Fe	57	21482.304	0.06	0.0668	0.017	26.144	mg/L
⌊>	Sc-1	45	242386.732	242386.73				mg/L
	Cl	35	31094.969	8917.07				mg/L
	Kr	83	25.667	-6.33				mg/L
	Br	81	9008.724	-628.59				mg/L
	P	31	5666.943	-4857.29				mg/L
	S	34	886856.693	702114.20				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		80.970			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.191			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.662			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.840			
⌈	Na	23					

Sample ID: L1011065010
Report Date/Time: Tuesday, November 23, 2010 00:55:49
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 23, 2010 01:00:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26585.422	0.01				ug/L
|	Be	9	14221.440	0.06	52.7466	1.772	3.359	ug/L
|	Al	27	254484.824	1.07	51.9951	3.240	6.232	ug/L
⌊>	Sc	45	236549.414	236549.41				ug/L
⌈	Ti	49	46870.940	0.15	96.0075	2.186	2.277	ug/L
|	V	51	383237.711	1.23	51.9225	0.315	0.607	ug/L
|	Cr	52	331269.443	1.05	52.5024	1.083	2.064	ug/L
|	Cr	53	38829.123	0.12	52.4405	0.272	0.518	ug/L
|	Mn	55	529307.560	1.71	52.9694	0.914	1.726	ug/L
|	Co	59	432169.116	1.40	52.9106	1.042	1.970	ug/L
|	Ni	60	89496.926	0.29	51.5498	0.742	1.439	ug/L
|	Cu	65	83641.546	0.27	50.5852	0.988	1.954	ug/L
|	Zn	66	46788.005	0.15	49.1850	0.600	1.219	ug/L
⌊>	Ge	72	309653.854	309653.85				ug/L
|	As	75	31000.409	0.10	48.8949	1.144	2.340	ug/L
|	Se	77	2677.295	0.01	52.5180	5.172	9.848	ug/L
|	Se	82	3084.286	0.01	50.2122	0.804	1.601	ug/L
⌊	Rb	85	1040.398	0.00				mg/L
	Y	89	179135.804	-35439.84				ug/L
	Rh	103	21.334	12.67				ug/L
⌈	Mo	98	141196.457	0.56	94.1753	2.204	2.341	ug/L
|	Ag	107	154069.012	0.61	49.7606	1.076	2.161	ug/L
|	Cd	114	39304.147	0.16	49.4558	0.704	1.423	ug/L
⌊>	In	115	251061.807	251061.81				ug/L
|	Sn	118	139311.766	0.55	49.6276	0.869	1.750	ug/L
⌊	Sb	123	123395.708	0.49	49.2982	0.713	1.446	ug/L
⌈	Ba	135	56145.402	0.17	46.6077	0.527	1.131	ug/L
|	Ce	140	103.344	0.00				ug/L
⌊>	Tb	159	325628.717	325628.72				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	267917.635	0.75	50.7473	0.214	0.421	ug/L
|	Tl	205	657543.415	1.84	49.9882	1.166	2.333	ug/L
|	Pb	206	220508.648	0.62	49.3042	0.159	0.323	ug/L
|	Pb	207	194340.201	0.54	49.4039	0.750	1.518	ug/L
|	Pb	208	898384.593	2.51	49.2477	0.422	0.858	ug/L
|	U	238	1417598.832	3.96	51.8832	0.236	0.455	ug/L
⌊>	Bi	209	357757.376	357757.38				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 01:02:35
Page 1

Approved: November 23, 2010

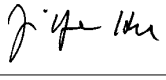
Na	23	20295666.075	85.80	5.1646	0.215	4.167	mg/L	
Mg	24	12024508.161	50.86	5.0517	0.170	3.366	mg/L	
K	39	32741188.466	136.85	5.0598	0.101	1.988	mg/L	
Ca	43	81535.857	0.34	5.1316	0.161	3.135	mg/L	
Fe	54	2280444.640	9.45	5.3741	0.076	1.407	mg/L	
Fe	57	1104500.098	4.64	5.5178	0.233	4.224	mg/L	
Sc-1	45	236549.414	236549.41				mg/L	
Cl	35	18195.208	-3982.69				mg/L	
Kr	83	26.334	-5.67				mg/L	
Br	81	7714.976	-1922.33				mg/L	
P	31	8817.236	-1707.00				mg/L	
S	34	183262.663	-1479.83				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	103.845				
Cr	52	105.005				
Cr	53					
Mn	55	105.939				
Co	59	105.821				
Ni	60	103.100				
Cu	65	101.170				
Zn	66	98.370				
Ge	72		81.935			
As	75	97.790				
Se	77					
Se	82	100.424				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.521				
Cd	114	98.912				
In	115		89.590			
Sn	118					
Sb	123	98.596				
Ba	135	93.215				
Ce	140					
Tb	159		92.577			
Ho	165					
Tl	203	101.495				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.495				
U	238	103.766				
Bi	209		93.398			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 01:02:35

Approved: November 23, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 01:02:35
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 23, 2010 01:07:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31499.817	0.02				ug/L
|	Be	9	3.333	-0.00	0.0201	0.004	20.508	ug/L
|	Al	27	2500.313	0.00	-0.0235	0.025	108.298	ug/L
⌊>	Sc	45	244810.379	244810.38				ug/L
⌈	Ti	49	43.338	0.00	0.0791	0.029	36.580	ug/L
|	V	51	2388.719	-0.00	-0.0105	0.009	87.823	ug/L
|	Cr	52	7721.724	-0.00	-0.0348	0.006	16.683	ug/L
|	Cr	53	163.351	-0.00	-0.1358	0.046	33.643	ug/L
|	Mn	55	293.007	0.00	-0.0055	0.000	3.348	ug/L
|	Co	59	70.334	0.00	-0.0120	0.001	10.877	ug/L
|	Ni	60	22.334	0.00	-0.0220	0.002	7.464	ug/L
|	Cu	65	97.335	0.00	-0.0258	0.001	5.677	ug/L
|	Zn	66	277.340	0.00	0.0438	0.044	100.590	ug/L
|>	Ge	72	327651.998	327652.00				ug/L
|	As	75	-121.876	0.00	0.0381	0.034	89.507	ug/L
|	Se	77	50.005	-0.00	-0.3570	0.183	51.366	ug/L
|	Se	82	7.780	-0.00	0.0099	0.126	1269.700	ug/L
⌊	Rb	85	12.667	0.00				mg/L
	Y	89	192321.263	-22254.38				ug/L
	Rh	103	5.000	-3.67				ug/L
⌈	Mo	98	87.746	0.00	0.0401	0.010	23.866	ug/L
|	Ag	107	16.000	0.00	-0.0125	0.001	6.326	ug/L
|	Cd	114	13.343	0.00	-0.0312	0.002	7.869	ug/L
|>	In	115	276482.115	276482.11				ug/L
|	Sn	118	510.680	-0.00	-0.0539	0.008	14.373	ug/L
⌊	Sb	123	289.128	0.00	0.1124	0.009	8.073	ug/L
⌈	Ba	135	8.000	-0.00	-0.0157	0.002	13.309	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	348015.449	348015.45				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	22.667	0.00	0.0025	0.002	67.638	ug/L
|	Tl	205	50.005	0.00	0.0206	0.002	8.806	ug/L
|	Pb	206	331.342	-0.00	-0.0026	0.004	159.290	ug/L
|	Pb	207	292.341	0.00	0.0075	0.003	41.181	ug/L
|	Pb	208	1319.381	0.00	-0.0012	0.001	121.064	ug/L
|	U	238	84.001	0.00	-0.0032	0.001	17.346	ug/L
⌊>	Bi	209	393682.299	393682.30				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 01:09:18
Page 1

Approved: November 23, 2010

⌈	Na	23	10436.495	0.00	-0.0083	0.000	1.485	mg/L
|	Mg	24	606.746	0.00	-0.0133	0.000	0.039	mg/L
|	K	39	395581.747	0.03	-0.0069	0.000	7.207	mg/L
|	Ca	43	100.011	-0.00	-0.0002	0.003	1477.813	mg/L
|	Fe	54	47353.015	0.00	-0.0017	0.001	53.776	mg/L
|	Fe	57	7206.651	0.00	-0.0035	0.001	32.785	mg/L
⌊>	Sc-1	45	244810.379	244810.38				mg/L
	Cl	35	17797.159	-4380.74				mg/L
	Kr	83	25.334	-6.67				mg/L
	Br	81	8393.521	-1243.79				mg/L
	P	31	9938.274	-585.96				mg/L
	S	34	208027.799	23285.31				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.697			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.661			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.942			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.777			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 01:09:18
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 01:09:18
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011066701

Sample Date/Time: Tuesday, November 23, 2010 01:13:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 28
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32001.160	0.02				ug/L
|	Be	9	3.333	-0.00	0.0194	0.010	53.113	ug/L
|	Al	27	12340.944	0.04	1.7799	0.029	1.629	ug/L
⌊>	Sc	45	261542.895	261542.90				ug/L
⌈	Ti	49	86.676	0.00	0.1618	0.009	5.330	ug/L
|	V	51	2577.860	0.00	0.0115	0.009	81.581	ug/L
|	Cr	52	9098.562	0.00	0.1660	0.031	18.821	ug/L
|	Cr	53	303.368	0.00	0.0409	0.013	30.877	ug/L
|	Mn	55	7154.296	0.02	0.6389	0.012	1.935	ug/L
|	Co	59	118.335	0.00	-0.0066	0.002	25.363	ug/L
|	Ni	60	266.006	0.00	0.1096	0.002	2.186	ug/L
|	Cu	65	510.018	0.00	0.2083	0.010	4.795	ug/L
|	Zn	66	1346.771	0.00	1.1013	0.054	4.948	ug/L
|>	Ge	72	330127.455	330127.45				ug/L
|	As	75	-151.793	-0.00	-0.0044	0.036	821.805	ug/L
|	Se	77	73.341	0.00	0.0707	0.760	1075.046	ug/L
|	Se	82	9.783	0.00	0.0402	0.016	39.975	ug/L
⌊	Rb	85	31.000	0.00				mg/L
	Y	89	196712.261	-17863.39				ug/L
	Rh	103	5.333	-3.33				ug/L
⌈	Mo	98	46.379	0.00	0.0145	0.002	14.751	ug/L
|	Ag	107	14.667	0.00	-0.0130	0.001	5.609	ug/L
|	Cd	114	14.604	0.00	-0.0301	0.005	15.415	ug/L
|>	In	115	282220.119	282220.12				ug/L
|	Sn	118	611.885	-0.00	-0.0250	0.009	35.803	ug/L
⌊	Sb	123	120.704	0.00	0.0505	0.004	8.776	ug/L
⌈	Ba	135	61.001	0.00	0.0234	0.005	21.298	ug/L
|	Ce	140	130.014	0.00				ug/L
⌊>	Tb	159	363956.422	363956.42				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	13.000	0.00	0.0009	0.000	19.929	ug/L
|	Tl	205	16.668	-0.00	0.0184	0.001	5.805	ug/L
|	Pb	206	410.679	0.00	0.0135	0.001	11.047	ug/L
|	Pb	207	361.343	0.00	0.0235	0.003	14.020	ug/L
|	Pb	208	1675.406	0.00	0.0165	0.003	18.027	ug/L
|	U	238	40.667	0.00	-0.0046	0.000	4.659	ug/L
⌊>	Bi	209	393690.413	393690.41				ug/L

Sample ID: L1011066701
Report Date/Time: Tuesday, November 23, 2010 01:16:03
Page 1

Approved: November 23, 2010

⌈	Na	23	54724.798	0.17	0.0017	0.000	8.736	mg/L
|	Mg	24	15390.042	0.06	-0.0077	0.000	2.090	mg/L
|	K	39	419242.505	0.02	-0.0074	0.000	3.082	mg/L
|	Ca	43	333.372	0.00	0.0127	0.001	10.458	mg/L
|	Fe	54	87182.706	0.14	0.0779	0.004	4.936	mg/L
|	Fe	57	8691.312	0.01	0.0010	0.001	107.003	mg/L
⌊>	Sc-1	45	261542.895	261542.90				mg/L
	Cl	35	26222.336	4044.43				mg/L
	Kr	83	25.000	-7.00				mg/L
	Br	81	11465.903	1828.59				mg/L
	P	31	18896.518	8372.28				mg/L
	S	34	211976.763	27234.27				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.352			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.709			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.474			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.779			
⌈	Na	23					

Sample ID: L1011066701
Report Date/Time: Tuesday, November 23, 2010 01:16:03
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011066702

Sample Date/Time: Tuesday, November 23, 2010 01:20:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32235.241	0.02				ug/L
|	Be	9	4.000	-0.00	0.0215	0.011	52.916	ug/L
|	Al	27	67460.431	0.25	12.0876	0.352	2.912	ug/L
⌊>	Sc	45	261139.788	261139.79				ug/L
⌈	Ti	49	90.009	0.00	0.1658	0.051	30.634	ug/L
|	V	51	2877.210	0.00	0.0441	0.016	36.037	ug/L
|	Cr	52	9614.383	0.00	0.2213	0.023	10.339	ug/L
|	Cr	53	373.378	0.00	0.1230	0.030	24.469	ug/L
|	Mn	55	7373.791	0.02	0.6486	0.016	2.398	ug/L
|	Co	59	172.003	0.00	-0.0007	0.001	101.418	ug/L
|	Ni	60	276.340	0.00	0.1129	0.015	13.330	ug/L
|	Cu	65	258.339	0.00	0.0629	0.005	8.179	ug/L
|	Zn	66	1608.479	0.00	1.3362	0.084	6.250	ug/L
|>	Ge	72	335438.494	335438.49				ug/L
|	As	75	-176.923	-0.00	-0.0381	0.080	209.410	ug/L
|	Se	77	53.339	-0.00	-0.3097	0.457	147.415	ug/L
|	Se	82	12.133	0.00	0.0714	0.128	179.444	ug/L
⌊	Rb	85	113.002	0.00				mg/L
	Y	89	201251.798	-13323.85				ug/L
	Rh	103	3.667	-5.00				ug/L
⌈	Mo	98	34.562	0.00	0.0070	0.002	30.848	ug/L
|	Ag	107	26.000	0.00	-0.0099	0.002	24.664	ug/L
|	Cd	114	21.306	0.00	-0.0232	0.002	10.391	ug/L
|>	In	115	288923.830	288923.83				ug/L
|	Sn	118	525.480	-0.00	-0.0564	0.006	10.872	ug/L
⌊	Sb	123	70.705	0.00	0.0321	0.002	5.209	ug/L
⌈	Ba	135	173.337	0.00	0.1076	0.004	3.369	ug/L
|	Ce	140	770.107	0.00				ug/L
⌊>	Tb	159	361843.126	361843.13				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	15.000	0.00	0.0012	0.001	51.995	ug/L
|	Tl	205	46.671	0.00	0.0204	0.002	8.396	ug/L
|	Pb	206	478.350	0.00	0.0271	0.005	16.993	ug/L
|	Pb	207	406.346	0.00	0.0337	0.005	13.758	ug/L
|	Pb	208	1927.427	0.00	0.0289	0.003	9.605	ug/L
|	U	238	84.335	0.00	-0.0032	0.001	27.856	ug/L
⌊>	Bi	209	394522.379	394522.38				ug/L

Approved: November 23, 2010

⌈	Na	23	120972.698	0.42	0.0171	0.002	9.415	mg/L
|	Mg	24	83256.791	0.32	0.0183	0.002	9.190	mg/L
|	K	39	452641.867	0.15	-0.0024	0.004	148.375	mg/L
|	Ca	43	1320.220	0.00	0.0690	0.004	6.472	mg/L
|	Fe	54	100295.268	0.19	0.1071	0.008	7.712	mg/L
|	Fe	57	12662.614	0.02	0.0192	0.003	14.651	mg/L
⌊>	Sc-1	45	261139.788	261139.79				mg/L
	Cl	35	30426.228	8248.33				mg/L
	Kr	83	23.000	-9.00				mg/L
	Br	81	11444.550	1807.24				mg/L
	P	31	20333.327	9809.09				mg/L
	S	34	216250.414	31507.92				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.758			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.101			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.873			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.996			
⌈	Na	23					

Sample ID: L1011066702
Report Date/Time: Tuesday, November 23, 2010 01:22:48
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066702
Report Date/Time: Tuesday, November 23, 2010 01:22:48
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011066703

Sample Date/Time: Tuesday, November 23, 2010 01:27:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 30
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	31349.285	0.01				ug/L
|	Be	9	3.333	-0.00	0.0195	0.010	53.678	ug/L
|	Al	27	18750.943	0.06	2.9377	0.181	6.168	ug/L
⌊>	Sc	45	264438.273	264438.27				ug/L
⌈	Ti	49	106.678	0.00	0.1945	0.029	15.115	ug/L
|	V	51	3370.334	0.00	0.1003	0.012	11.854	ug/L
|	Cr	52	11288.815	0.01	0.4492	0.006	1.336	ug/L
|	Cr	53	443.388	0.00	0.2033	0.028	13.687	ug/L
|	Mn	55	26422.126	0.08	2.3767	0.033	1.408	ug/L
|	Co	59	240.672	0.00	0.0067	0.001	8.406	ug/L
|	Ni	60	1131.742	0.00	0.5599	0.014	2.441	ug/L
|	Cu	65	5410.518	0.02	2.9032	0.041	1.408	ug/L
|	Zn	66	10266.704	0.03	9.6433	0.151	1.562	ug/L
|>	Ge	72	339967.940	339967.94				ug/L
|	As	75	-83.173	0.00	0.0998	0.069	69.374	ug/L
|	Se	77	96.677	0.00	0.4621	0.514	111.300	ug/L
|	Se	82	25.151	0.00	0.2633	0.174	65.943	ug/L
⌊	Rb	85	4572.424	0.01				mg/L
	Y	89	196675.232	-17900.41				ug/L
	Rh	103	12.667	4.00				ug/L
⌈	Mo	98	307.346	0.00	0.1696	0.006	3.522	ug/L
|	Ag	107	51.667	0.00	-0.0023	0.002	82.975	ug/L
|	Cd	114	15.888	0.00	-0.0286	0.006	19.974	ug/L
|>	In	115	281897.115	281897.11				ug/L
|	Sn	118	696.158	-0.00	0.0020	0.002	93.572	ug/L
⌊	Sb	123	86.873	0.00	0.0385	0.002	6.072	ug/L
⌈	Ba	135	5255.767	0.01	3.9987	0.065	1.615	ug/L
|	Ce	140	66.674	0.00				ug/L
⌊>	Tb	159	353533.341	353533.34				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	13.667	0.00	0.0010	0.000	35.451	ug/L
|	Tl	205	43.338	0.00	0.0202	0.001	7.192	ug/L
|	Pb	206	3004.815	0.01	0.5465	0.016	2.845	ug/L
|	Pb	207	2474.998	0.01	0.5171	0.008	1.514	ug/L
|	Pb	208	11810.212	0.03	0.5270	0.005	0.988	ug/L
|	U	238	144.669	0.00	-0.0011	0.000	23.121	ug/L
⌊>	Bi	209	390421.210	390421.21				ug/L

Sample ID: L1011066703
Report Date/Time: Tuesday, November 23, 2010 01:29:34
Page 1

Approved: November 23, 2010

⌈	Na	23	37355118.046	141.43	8.5185	0.446	5.236	mg/L
|	Mg	24	2176378.572	8.24	0.8072	0.035	4.387	mg/L
|	K	39	7987397.722	28.66	1.0534	0.053	5.057	mg/L
|	Ca	43	63034.346	0.24	3.5485	0.120	3.376	mg/L
|	Fe	54	64705.301	0.05	0.0276	0.006	22.883	mg/L
|	Fe	57	12956.351	0.02	0.0198	0.001	7.580	mg/L
⌊>	Sc-1	45	264438.273	264438.27				mg/L
	Cl	35	219798.176	197620.27				mg/L
	Kr	83	21.000	-11.00				mg/L
	Br	81	12915.005	3277.70				mg/L
	P	31	82665.630	72141.40				mg/L
	S	34	259509.942	74767.45				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.956			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.594			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.510			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.926			
⌈	Na	23					

Sample ID: L1011066703
Report Date/Time: Tuesday, November 23, 2010 01:29:34
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066703
Report Date/Time: Tuesday, November 23, 2010 01:29:34
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011066704

Sample Date/Time: Tuesday, November 23, 2010 01:34:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 31
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32853.904	0.02				ug/L
|	Be	9	5.333	0.00	0.0260	0.025	97.539	ug/L
|	Al	27	52571.175	0.19	9.3002	0.021	0.222	ug/L
⌊>	Sc	45	261081.439	261081.44				ug/L
⌈	Ti	49	313.370	0.00	0.5976	0.014	2.372	ug/L
|	V	51	3157.185	0.00	0.0856	0.021	24.870	ug/L
|	Cr	52	12096.099	0.01	0.6224	0.007	1.046	ug/L
|	Cr	53	963.477	0.00	0.8837	0.168	19.016	ug/L
|	Mn	55	102364.306	0.31	9.5847	0.094	0.985	ug/L
|	Co	59	760.703	0.00	0.0672	0.006	9.142	ug/L
|	Ni	60	5184.730	0.02	2.7693	0.054	1.935	ug/L
|	Cu	65	11792.734	0.04	6.6209	0.037	0.553	ug/L
|	Zn	66	7275.385	0.02	6.9771	0.067	0.964	ug/L
|>	Ge	72	329994.875	329994.88				ug/L
|	As	75	76.141	0.00	0.3315	0.057	17.291	ug/L
|	Se	77	90.009	0.00	0.3947	0.510	129.186	ug/L
|	Se	82	59.450	0.00	0.8007	0.117	14.595	ug/L
⌊	Rb	85	8899.381	0.03				mg/L
	Y	89	199429.307	-15146.34				ug/L
	Rh	103	59.667	51.00				ug/L
⌈	Mo	98	372.759	0.00	0.2108	0.006	2.824	ug/L
|	Ag	107	20.667	0.00	-0.0112	0.001	5.537	ug/L
|	Cd	114	23.971	0.00	-0.0193	0.005	26.284	ug/L
|>	In	115	278976.324	278976.32				ug/L
|	Sn	118	750.828	0.00	0.0219	0.011	48.430	ug/L
⌊	Sb	123	157.791	0.00	0.0643	0.003	3.926	ug/L
⌈	Ba	135	31459.724	0.09	24.1030	0.107	0.444	ug/L
|	Ce	140	506.731	0.00				ug/L
⌊>	Tb	159	352626.658	352626.66				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	20.667	0.00	0.0024	0.001	40.185	ug/L
|	Tl	205	36.670	0.00	0.0199	0.003	14.816	ug/L
|	Pb	206	1781.176	0.00	0.3163	0.009	2.824	ug/L
|	Pb	207	1488.459	0.00	0.3069	0.009	2.816	ug/L
|	Pb	208	7074.397	0.02	0.3091	0.003	1.125	ug/L
|	U	238	601.357	0.00	0.0153	0.001	7.827	ug/L
⌊>	Bi	209	369297.751	369297.75				ug/L

Sample ID: L1011066704
Report Date/Time: Tuesday, November 23, 2010 01:36:20
Page 1

Approved: November 23, 2010

⌈	Na	23	102922263.808	394.28	23.7630	0.648	2.728	mg/L
|	Mg	24	9004392.876	34.49	3.4214	0.023	0.676	mg/L
|	K	39	14355293.701	53.41	1.9699	0.046	2.328	mg/L
|	Ca	43	284156.205	1.09	16.2144	0.533	3.285	mg/L
|	Fe	54	101440.903	0.20	0.1094	0.008	7.430	mg/L
|	Fe	57	21882.819	0.06	0.0611	0.005	7.893	mg/L
⌊>	Sc-1	45	261081.439	261081.44				mg/L
	Cl	35	511870.586	489692.68				mg/L
	Kr	83	25.000	-7.00				mg/L
	Br	81	36811.013	27173.70				mg/L
	P	31	78855.464	68331.23				mg/L
	S	34	446106.264	261363.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.317			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.551			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.253			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.411			
⌈	Na	23					

Sample ID: L1011066704
Report Date/Time: Tuesday, November 23, 2010 01:36:20
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011066705

Sample Date/Time: Tuesday, November 23, 2010 01:40:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 32
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34024.550	0.02				ug/L
|	Be	9	5.333	0.00	0.0256	0.004	17.127	ug/L
|	Al	27	251321.944	0.93	45.0744	6.396	14.189	ug/L
⌊>	Sc	45	270019.514	270019.51				ug/L
⌈	Ti	49	790.110	0.00	1.4802	0.103	6.945	ug/L
|	V	51	8846.641	0.02	0.7880	0.016	1.992	ug/L
|	Cr	52	12951.845	0.01	0.7084	0.036	5.119	ug/L
|	Cr	53	756.771	0.00	0.5974	0.052	8.642	ug/L
|	Mn	55	360197.293	1.07	33.0509	0.669	2.025	ug/L
|	Co	59	2846.100	0.01	0.2995	0.005	1.589	ug/L
|	Ni	60	2034.561	0.01	1.0414	0.022	2.133	ug/L
|	Cu	65	8267.833	0.02	4.5113	0.071	1.564	ug/L
|	Zn	66	6679.630	0.02	6.2373	0.074	1.185	ug/L
|>	Ge	72	337635.562	337635.56				ug/L
|	As	75	272.242	0.00	0.6098	0.112	18.340	ug/L
|	Se	77	123.346	0.00	0.9677	0.458	47.331	ug/L
|	Se	82	45.169	0.00	0.5663	0.037	6.603	ug/L
⌊	Rb	85	5789.067	0.02				mg/L
	Y	89	202197.589	-12378.06				ug/L
	Rh	103	20.000	11.33				ug/L
⌈	Mo	98	1318.995	0.00	0.7519	0.036	4.810	ug/L
|	Ag	107	18.334	0.00	-0.0120	0.001	10.214	ug/L
|	Cd	114	40.010	0.00	-0.0028	0.010	372.720	ug/L
|>	In	115	288838.764	288838.76				ug/L
|	Sn	118	869.238	0.00	0.0506	0.011	21.947	ug/L
⌊	Sb	123	1806.804	0.01	0.6351	0.023	3.554	ug/L
⌈	Ba	135	18307.261	0.05	13.6689	0.265	1.939	ug/L
|	Ce	140	1640.299	0.00				ug/L
⌊>	Tb	159	361614.877	361614.88				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	15.667	0.00	0.0014	0.001	40.837	ug/L
|	Tl	205	20.002	0.00	0.0186	0.001	7.686	ug/L
|	Pb	206	10654.446	0.03	2.1495	0.032	1.493	ug/L
|	Pb	207	8838.993	0.02	2.0328	0.036	1.770	ug/L
|	Pb	208	41890.050	0.11	2.0722	0.032	1.546	ug/L
|	U	238	1247.757	0.00	0.0365	0.001	2.083	ug/L
⌊>	Bi	209	384567.360	384567.36				ug/L

Sample ID: L1011066705
Report Date/Time: Tuesday, November 23, 2010 01:43:06
Page 1

Approved: November 23, 2010

Na	23	32987799.985	122.31	7.3658	0.366	4.971	mg/L	
Mg	24	2273570.173	8.43	0.8261	0.033	4.029	mg/L	
K	39	8140988.576	28.62	1.0518	0.062	5.927	mg/L	
Ca	43	120952.686	0.45	6.6739	0.199	2.976	mg/L	
Fe	54	144782.315	0.35	0.1934	0.006	3.232	mg/L	
Fe	57	34780.604	0.10	0.1149	0.011	9.386	mg/L	
> Sc-1	45	270019.514	270019.51				mg/L	
Cl	35	174488.547	152310.65				mg/L	
Kr	83	19.000	-13.00				mg/L	
Br	81	19981.948	10344.64				mg/L	
P	31	52558.427	42034.19				mg/L	
S	34	278919.928	94177.44				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		89.339			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		103.071			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		102.808			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		100.397			
Na	23					

Sample ID: L1011066705
Report Date/Time: Tuesday, November 23, 2010 01:43:06
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066705
Report Date/Time: Tuesday, November 23, 2010 01:43:06
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011066706

Sample Date/Time: Tuesday, November 23, 2010 01:47:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 33
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33355.541	0.02				ug/L
|	Be	9	5.333	-0.00	0.0252	0.008	30.945	ug/L
|	Al	27	127036.088	0.45	21.8877	0.773	3.530	ug/L
⌊>	Sc	45	276505.274	276505.27				ug/L
⌈	Ti	49	373.378	0.00	0.6933	0.097	13.927	ug/L
|	V	51	6421.682	0.01	0.4806	0.034	7.008	ug/L
|	Cr	52	13916.483	0.02	0.8406	0.018	2.172	ug/L
|	Cr	53	1026.822	0.00	0.9278	0.038	4.118	ug/L
|	Mn	55	225441.314	0.66	20.5617	0.385	1.873	ug/L
|	Co	59	1644.818	0.00	0.1636	0.002	1.153	ug/L
|	Ni	60	2639.712	0.01	1.3544	0.198	14.613	ug/L
|	Cu	65	10848.324	0.03	5.9135	0.148	2.510	ug/L
|	Zn	66	13440.160	0.04	12.7167	0.122	0.957	ug/L
|>	Ge	72	339426.628	339426.63				ug/L
|	As	75	124.883	0.00	0.3977	0.051	12.865	ug/L
|	Se	77	73.341	0.00	0.0395	0.426	1077.726	ug/L
|	Se	82	31.111	0.00	0.3541	0.145	40.915	ug/L
⌊	Rb	85	8667.175	0.03				mg/L
	Y	89	204949.882	-9625.76				ug/L
	Rh	103	17.334	8.67				ug/L
⌈	Mo	98	770.599	0.00	0.4348	0.013	3.041	ug/L
|	Ag	107	41.667	0.00	-0.0055	0.001	24.004	ug/L
|	Cd	114	31.726	0.00	-0.0116	0.009	75.756	ug/L
|>	In	115	288169.125	288169.12				ug/L
|	Sn	118	806.299	0.00	0.0316	0.005	15.022	ug/L
⌊	Sb	123	694.611	0.00	0.2493	0.005	2.053	ug/L
⌈	Ba	135	14552.727	0.04	10.7217	0.167	1.561	ug/L
|	Ce	140	943.472	0.00				ug/L
⌊>	Tb	159	366331.354	366331.35				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	15.333	0.00	0.0013	0.001	52.827	ug/L
|	Tl	205	16.668	-0.00	0.0184	0.001	5.837	ug/L
|	Pb	206	8601.118	0.02	1.7039	0.031	1.846	ug/L
|	Pb	207	7216.008	0.02	1.6316	0.027	1.647	ug/L
|	Pb	208	34045.907	0.08	1.6544	0.017	1.046	ug/L
|	U	238	348.676	0.00	0.0058	0.001	18.868	ug/L
⌊>	Bi	209	388390.810	388390.81				ug/L

Sample ID: L1011066706
Report Date/Time: Tuesday, November 23, 2010 01:49:53
Page 1

Approved: November 23, 2010

Na	23	35321043.416	127.73	7.6922	0.109	1.411	mg/L
Mg	24	2301034.115	8.32	0.8153	0.002	0.289	mg/L
K	39	10982354.639	38.13	1.4041	0.024	1.694	mg/L
Ca	43	102230.114	0.37	5.5031	0.068	1.235	mg/L
Fe	54	148215.251	0.34	0.1932	0.004	2.008	mg/L
Fe	57	36473.389	0.10	0.1183	0.003	2.142	mg/L
> Sc-1	45	276505.274	276505.27				mg/L
Cl	35	191752.478	169574.58				mg/L
Kr	83	25.667	-6.33				mg/L
Br	81	16850.854	7213.54				mg/L
P	31	91229.697	80705.46				mg/L
S	34	280744.390	96001.90				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		89.813			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		102.832			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		104.149			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		101.396			
Na	23					

Sample ID: L1011066706
Report Date/Time: Tuesday, November 23, 2010 01:49:53
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066706
Report Date/Time: Tuesday, November 23, 2010 01:49:53
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011066707

Sample Date/Time: Tuesday, November 23, 2010 01:54:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 34
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29175.856	0.01				ug/L
|	Be	9	2.000	-0.00	0.0152	0.000	2.080	ug/L
|	Al	27	9888.278	0.03	1.4122	0.300	21.222	ug/L
⌊>	Sc	45	250058.792	250058.79				ug/L
⌈	Ti	49	46.671	0.00	0.0874	0.041	46.879	ug/L
|	V	51	2612.619	0.00	0.0249	0.011	43.906	ug/L
|	Cr	52	9136.931	0.00	0.2090	0.030	14.191	ug/L
|	Cr	53	213.357	-0.00	-0.0664	0.029	43.250	ug/L
|	Mn	55	2149.252	0.01	0.1741	0.005	2.995	ug/L
|	Co	59	81.668	0.00	-0.0105	0.001	10.335	ug/L
|	Ni	60	157.003	0.00	0.0529	0.011	20.229	ug/L
|	Cu	65	191.004	0.00	0.0299	0.003	8.659	ug/L
|	Zn	66	1750.504	0.00	1.5473	0.043	2.803	ug/L
|>	Ge	72	321498.587	321498.59				ug/L
|	As	75	-130.344	0.00	0.0221	0.046	207.482	ug/L
|	Se	77	40.004	-0.00	-0.5316	0.697	131.140	ug/L
|	Se	82	15.852	0.00	0.1397	0.115	82.667	ug/L
⌊	Rb	85	25.667	0.00				mg/L
	Y	89	193272.587	-21303.06				ug/L
	Rh	103	3.667	-5.00				ug/L
⌈	Mo	98	13.530	0.00	-0.0047	0.001	22.089	ug/L
|	Ag	107	11.000	-0.00	-0.0139	0.000	1.892	ug/L
|	Cd	114	16.242	0.00	-0.0277	0.007	25.523	ug/L
|>	In	115	273612.627	273612.63				ug/L
|	Sn	118	511.480	-0.00	-0.0518	0.006	11.878	ug/L
⌊	Sb	123	29.914	0.00	0.0186	0.001	6.579	ug/L
⌈	Ba	135	58.001	0.00	0.0238	0.005	19.703	ug/L
|	Ce	140	23.336	0.00				ug/L
⌊>	Tb	159	342494.877	342494.88				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	5.667	-0.00	-0.0004	0.000	80.923	ug/L
|	Tl	205	16.668	0.00	0.0184	0.002	8.254	ug/L
|	Pb	206	374.344	0.00	0.0096	0.004	45.151	ug/L
|	Pb	207	313.675	0.00	0.0157	0.006	35.155	ug/L
|	Pb	208	1477.058	0.00	0.0099	0.001	6.903	ug/L
|	U	238	7.000	-0.00	-0.0057	0.000	1.201	ug/L
⌊>	Bi	209	376770.558	376770.56				ug/L

Sample ID: L1011066707
Report Date/Time: Tuesday, November 23, 2010 01:56:40
Page 1

Approved: November 23, 2010

⌈	Na	23	60407.940	0.20	0.0037	0.001	16.038	mg/L
|	Mg	24	5251.916	0.02	-0.0115	0.000	1.305	mg/L
|	K	39	406032.228	0.04	-0.0065	0.003	42.543	mg/L
|	Ca	43	266.697	0.00	0.0098	0.005	54.974	mg/L
|	Fe	54	85968.186	0.15	0.0844	0.019	21.926	mg/L
|	Fe	57	7460.197	0.00	-0.0030	0.001	24.535	mg/L
⌊>	Sc-1	45	250058.792	250058.79				mg/L
	Cl	35	22312.197	134.30				mg/L
	Kr	83	17.000	-15.00				mg/L
	Br	81	9699.369	62.06				mg/L
	P	31	18779.661	8255.43				mg/L
	S	34	196348.036	11605.54				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.069			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.637			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.372			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.362			
⌈	Na	23					

Sample ID: L1011066707
Report Date/Time: Tuesday, November 23, 2010 01:56:40
Page 2

Approved: November 23, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011066708 WG349411-02

Sample Date/Time: Tuesday, November 23, 2010 02:01:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 35
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29409.864	0.01				ug/L
|	Be	9	5.333	0.00	0.0264	0.014	53.276	ug/L
|	Al	27	58135.206	0.22	10.5684	0.093	0.880	ug/L
⌊>	Sc	45	255677.614	255677.61				ug/L
⌈	Ti	49	90.009	0.00	0.1765	0.088	50.097	ug/L
|	V	51	2596.319	0.00	0.0293	0.011	36.379	ug/L
|	Cr	52	9779.211	0.01	0.3385	0.033	9.664	ug/L
|	Cr	53	316.704	0.00	0.0768	0.108	140.584	ug/L
|	Mn	55	5056.663	0.02	0.4638	0.014	2.915	ug/L
|	Co	59	115.002	0.00	-0.0064	0.001	22.216	ug/L
|	Ni	60	287.340	0.00	0.1284	0.007	5.824	ug/L
|	Cu	65	280.673	0.00	0.0853	0.006	6.764	ug/L
|	Zn	66	1919.203	0.01	1.7565	0.039	2.242	ug/L
|>	Ge	72	315456.192	315456.19				ug/L
|	As	75	-170.780	-0.00	-0.0439	0.080	183.316	ug/L
|	Se	77	53.339	0.00	-0.2541	0.225	88.540	ug/L
|	Se	82	4.429	-0.00	-0.0383	0.162	421.973	ug/L
⌊	Rb	85	74.668	0.00				mg/L
	Y	89	192189.006	-22386.64				ug/L
	Rh	103	2.333	-6.33				ug/L
⌈	Mo	98	26.265	0.00	0.0034	0.002	51.924	ug/L
|	Ag	107	86.668	0.00	0.0091	0.003	34.297	ug/L
|	Cd	114	16.768	0.00	-0.0266	0.009	35.105	ug/L
|>	In	115	267575.270	267575.27				ug/L
|	Sn	118	514.547	-0.00	-0.0470	0.006	13.534	ug/L
⌊	Sb	123	42.746	0.00	0.0236	0.003	11.270	ug/L
⌈	Ba	135	157.003	0.00	0.1025	0.000	0.253	ug/L
|	Ce	140	386.713	0.00				ug/L
⌊>	Tb	159	341207.177	341207.18				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	10.000	-0.00	0.0005	0.001	141.535	ug/L
|	Tl	205	23.336	0.00	0.0189	0.001	5.912	ug/L
|	Pb	206	651.694	0.00	0.0715	0.003	3.614	ug/L
|	Pb	207	554.688	0.00	0.0768	0.005	6.239	ug/L
|	Pb	208	2610.161	0.00	0.0720	0.002	3.357	ug/L
|	U	238	28.667	0.00	-0.0050	0.000	2.000	ug/L
⌊>	Bi	209	368766.061	368766.06				ug/L

Sample ID: L1011066708 WG349411-02
Report Date/Time: Tuesday, November 23, 2010 02:03:24
Page 1

Approved: November 23, 2010

Na	23	115609.334	0.41	0.0164	0.001	3.563	mg/L	
Mg	24	65436.616	0.26	0.0119	0.001	4.837	mg/L	
K	39	495462.833	0.35	0.0050	0.001	26.316	mg/L	
Ca	43	1140.179	0.00	0.0602	0.005	8.187	mg/L	
Fe	54	89732.992	0.16	0.0879	0.006	6.429	mg/L	
Fe	57	11060.555	0.02	0.0129	0.002	15.405	mg/L	
> Sc-1	45	255677.614	255677.61				mg/L	
Cl	35	55192.621	33014.72				mg/L	
Kr	83	27.334	-4.67				mg/L	
Br	81	9262.958	-374.35				mg/L	
P	31	18383.705	7859.47				mg/L	
S	34	193800.312	9057.82				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		83.470			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		95.483			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		97.006			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		96.272			
Na	23					

Sample ID: L1011066708 WG349411-02
Report Date/Time: Tuesday, November 23, 2010 02:03:24
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066708 WG349411-02
Report Date/Time: Tuesday, November 23, 2010 02:03:24
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011066708DP WG349492-07

Sample Date/Time: Tuesday, November 23, 2010 02:07:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 36
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27989.356	0.01				ug/L
|	Be	9	3.333	-0.00	0.0199	0.004	19.342	ug/L
|	Al	27	20153.651	0.07	3.4509	0.129	3.726	ug/L
⌊>	Sc	45	247424.865	247424.86				ug/L
⌈	Ti	49	100.011	0.00	0.2001	0.074	37.212	ug/L
|	V	51	2558.554	0.00	0.0300	0.025	82.914	ug/L
|	Cr	52	8787.280	0.00	0.2033	0.038	18.699	ug/L
|	Cr	53	256.696	0.00	0.0015	0.048	3148.454	ug/L
|	Mn	55	2360.636	0.01	0.2024	0.006	2.863	ug/L
|	Co	59	103.002	0.00	-0.0076	0.001	17.277	ug/L
|	Ni	60	284.007	0.00	0.1291	0.011	8.317	ug/L
|	Cu	65	211.338	0.00	0.0460	0.010	20.763	ug/L
|	Zn	66	1384.776	0.00	1.2254	0.027	2.191	ug/L
|>	Ge	72	310543.524	310543.52				ug/L
|	As	75	-179.814	-0.00	-0.0614	0.058	94.570	ug/L
|	Se	77	73.341	0.00	0.1636	0.295	180.262	ug/L
|	Se	82	-0.901	-0.00	-0.1232	0.069	55.667	ug/L
⌊	Rb	85	63.334	0.00				mg/L
	Y	89	187411.952	-27163.69				ug/L
	Rh	103	4.333	-4.33				ug/L
⌈	Mo	98	14.046	0.00	-0.0040	0.001	29.485	ug/L
|	Ag	107	18.334	0.00	-0.0115	0.001	5.304	ug/L
|	Cd	114	12.662	0.00	-0.0311	0.014	44.859	ug/L
|>	In	115	259286.694	259286.69				ug/L
|	Sn	118	490.545	-0.00	-0.0499	0.001	1.609	ug/L
⌊	Sb	123	33.954	0.00	0.0207	0.002	8.482	ug/L
⌈	Ba	135	73.001	0.00	0.0384	0.005	12.279	ug/L
|	Ce	140	196.688	0.00				ug/L
⌊>	Tb	159	326939.248	326939.25				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	11.000	0.00	0.0007	0.001	178.654	ug/L
|	Tl	205	20.002	0.00	0.0187	0.001	4.173	ug/L
|	Pb	206	389.011	0.00	0.0166	0.008	50.175	ug/L
|	Pb	207	332.009	0.00	0.0240	0.011	47.273	ug/L
|	Pb	208	1539.062	0.00	0.0170	0.004	20.768	ug/L
|	U	238	45.334	0.00	-0.0043	0.000	4.418	ug/L
⌊>	Bi	209	359938.740	359938.74				ug/L

Sample ID: L1011066708DP WG349492-07
Report Date/Time: Tuesday, November 23, 2010 02:10:08
Page 1

Approved: November 23, 2010

⌈	Na	23	77325.551	0.27	0.0080	0.001	7.692	mg/L
|	Mg	24	22601.117	0.09	-0.0045	0.000	10.845	mg/L
|	K	39	456156.579	0.26	0.0016	0.002	118.221	mg/L
|	Ca	43	486.727	0.00	0.0230	0.003	14.067	mg/L
|	Fe	54	84716.762	0.15	0.0830	0.002	1.970	mg/L
|	Fe	57	7680.388	0.00	-0.0016	0.002	104.077	mg/L
⌊>	Sc-1	45	247424.865	247424.86				mg/L
	Cl	35	39683.252	17505.35				mg/L
	Kr	83	27.000	-5.00				mg/L
	Br	81	8960.680	-676.63				mg/L
	P	31	16113.734	5589.50				mg/L
	S	34	191022.852	6280.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.170			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.525			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.950			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.968			
⌈	Na	23					

Sample ID: L1011066708DP WG349492-07
Report Date/Time: Tuesday, November 23, 2010 02:10:08
Page 2

Approved: November 23, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066708DP WG349492-07
Report Date/Time: Tuesday, November 23, 2010 02:10:08
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011066708DP WG349411-07

Sample Date/Time: Tuesday, November 23, 2010 02:07:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 36
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27989.356	0.01				ug/L
|	Be	9	3.333	-0.00	0.0199	0.004	19.342	ug/L
|	Al	27	20153.651	0.07	3.4509	0.129	3.726	ug/L
⌊>	Sc	45	247424.865	247424.86				ug/L
⌈	Ti	49	100.011	0.00	0.2001	0.074	37.212	ug/L
|	V	51	2558.554	0.00	0.0300	0.025	82.914	ug/L
|	Cr	52	8787.280	0.00	0.2033	0.038	18.699	ug/L
|	Cr	53	256.696	0.00	0.0015	0.048	3148.454	ug/L
|	Mn	55	2360.636	0.01	0.2024	0.006	2.863	ug/L
|	Co	59	103.002	0.00	-0.0076	0.001	17.277	ug/L
|	Ni	60	284.007	0.00	0.1291	0.011	8.317	ug/L
|	Cu	65	211.338	0.00	0.0460	0.010	20.763	ug/L
|	Zn	66	1384.776	0.00	1.2254	0.027	2.191	ug/L
|>	Ge	72	310543.524	310543.52				ug/L
|	As	75	-179.814	-0.00	-0.0614	0.058	94.570	ug/L
|	Se	77	73.341	0.00	0.1636	0.295	180.262	ug/L
|	Se	82	-0.901	-0.00	-0.1232	0.069	55.667	ug/L
⌊	Rb	85	63.334	0.00				mg/L
	Y	89	187411.952	-27163.69				ug/L
	Rh	103	4.333	-4.33				ug/L
⌈	Mo	98	14.046	0.00	-0.0040	0.001	29.485	ug/L
|	Ag	107	18.334	0.00	-0.0115	0.001	5.304	ug/L
|	Cd	114	12.662	0.00	-0.0311	0.014	44.859	ug/L
|>	In	115	259286.694	259286.69				ug/L
|	Sn	118	490.545	-0.00	-0.0499	0.001	1.609	ug/L
⌊	Sb	123	33.954	0.00	0.0207	0.002	8.482	ug/L
⌈	Ba	135	73.001	0.00	0.0384	0.005	12.279	ug/L
|	Ce	140	196.688	0.00				ug/L
⌊>	Tb	159	326939.248	326939.25				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	11.000	0.00	0.0007	0.001	178.654	ug/L
|	Tl	205	20.002	0.00	0.0187	0.001	4.173	ug/L
|	Pb	206	389.011	0.00	0.0166	0.008	50.175	ug/L
|	Pb	207	332.009	0.00	0.0240	0.011	47.273	ug/L
|	Pb	208	1539.062	0.00	0.0170	0.004	20.768	ug/L
|	U	238	45.334	0.00	-0.0043	0.000	4.418	ug/L
⌊>	Bi	209	359938.740	359938.74				ug/L

Sample ID: L1011066708DP WG349411-07
Report Date/Time: Tuesday, November 23, 2010 09:31:54
Page 1

Approved: November 23, 2010

⌈	Na	23	77325.551	0.27	0.0080	0.001	7.692	mg/L
|	Mg	24	22601.117	0.09	-0.0045	0.000	10.845	mg/L
|	K	39	456156.579	0.26	0.0016	0.002	118.221	mg/L
|	Ca	43	486.727	0.00	0.0230	0.003	14.067	mg/L
|	Fe	54	84716.762	0.15	0.0830	0.002	1.970	mg/L
|	Fe	57	7680.388	0.00	-0.0016	0.002	104.077	mg/L
⌊>	Sc-1	45	247424.865	247424.86				mg/L
	Cl	35	39683.252	17505.35				mg/L
	Kr	83	27.000	-5.00				mg/L
	Br	81	8960.680	-676.63				mg/L
	P	31	16113.734	5589.50				mg/L
	S	34	191022.852	6280.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.170			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.525			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.950			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.968			
⌈	Na	23					

Sample ID: L1011066708DP WG349411-07
Report Date/Time: Tuesday, November 23, 2010 09:31:54
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066708DP WG349411-07
Report Date/Time: Tuesday, November 23, 2010 09:31:54
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: L1011066708S WG349411-08

Sample Date/Time: Tuesday, November 23, 2010 02:14:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 37
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29844.533	0.01				ug/L
|	Be	9	7343.363	0.03	24.1104	0.631	2.617	ug/L
|	Al	27	139803.837	0.51	25.0022	0.049	0.194	ug/L
⌊>	Sc	45	267172.182	267172.18				ug/L
⌈	Ti	49	60.006	0.00	0.1118	0.019	17.279	ug/L
|	V	51	211226.142	0.64	26.9640	0.067	0.248	ug/L
|	Cr	52	188939.067	0.55	27.8116	0.184	0.662	ug/L
|	Cr	53	21952.941	0.07	27.9320	0.735	2.630	ug/L
|	Mn	55	294757.114	0.90	27.9343	0.706	2.526	ug/L
|	Co	59	232308.780	0.71	26.9368	0.355	1.317	ug/L
|	Ni	60	48726.246	0.15	26.5742	0.181	0.681	ug/L
|	Cu	65	44838.763	0.14	25.6519	0.354	1.381	ug/L
|	Zn	66	23776.470	0.07	23.5607	0.121	0.515	ug/L
|>	Ge	72	326795.594	326795.59				ug/L
|	As	75	15236.110	0.05	22.8835	0.514	2.244	ug/L
|	Se	77	1260.207	0.00	22.7047	3.884	17.105	ug/L
|	Se	82	1366.913	0.00	21.0213	0.472	2.245	ug/L
⌊	Rb	85	22.334	0.00				mg/L
	Y	89	197531.440	-17044.21				ug/L
	Rh	103	14.333	5.67				ug/L
⌈	Mo	98	25.379	0.00	0.0022	0.004	200.674	ug/L
|	Ag	107	84003.258	0.30	24.4071	0.425	1.741	ug/L
|	Cd	114	19925.364	0.07	22.5360	0.497	2.207	ug/L
|>	In	115	278978.748	278978.75				ug/L
|	Sn	118	483.878	-0.00	-0.0640	0.006	10.034	ug/L
⌊	Sb	123	63555.696	0.23	22.8533	0.279	1.220	ug/L
⌈	Ba	135	29752.501	0.08	22.7551	0.430	1.888	ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	353237.343	353237.34				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	141566.798	0.37	25.1028	0.126	0.502	ug/L
|	Tl	205	346499.030	0.91	24.6660	0.235	0.952	ug/L
|	Pb	206	119144.787	0.31	24.9073	0.384	1.543	ug/L
|	Pb	207	105278.381	0.27	25.0233	0.191	0.764	ug/L
|	Pb	208	485540.995	1.27	24.8845	0.182	0.732	ug/L
|	U	238	753890.847	1.97	25.8308	0.446	1.728	ug/L
⌊>	Bi	209	382139.843	382139.84				ug/L

Sample ID: L1011066708S WG349411-08
Report Date/Time: Tuesday, November 23, 2010 02:16:52
Page 1

Approved: November 23, 2010

⌈	Na	23	66470.149	0.21	0.0041	0.000	3.260	mg/L
|	Mg	24	14475.251	0.05	-0.0082	0.000	0.795	mg/L
|	K	39	435865.917	0.05	-0.0063	0.000	4.208	mg/L
|	Ca	43	370.044	0.00	0.0144	0.000	1.284	mg/L
|	Fe	54	88097.418	0.14	0.0758	0.002	3.020	mg/L
|	Fe	57	9008.310	0.01	0.0015	0.003	201.102	mg/L
⌊>	Sc-1	45	267172.182	267172.18				mg/L
	Cl	35	30513.818	8335.92				mg/L
	Kr	83	22.667	-9.33				mg/L
	Br	81	9210.910	-426.40				mg/L
	P	31	18245.359	7721.13				mg/L
	S	34	210476.403	25733.91				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.471			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.552			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.426			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.764			
⌈	Na	23					

Sample ID: L1011066708S WG349411-08
Report Date/Time: Tuesday, November 23, 2010 02:16:52
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066708S WG349411-08
Report Date/Time: Tuesday, November 23, 2010 02:16:52
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 23, 2010 02:21:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	29409.857	0.01				ug/L
|	Be	9	15942.035	0.06	56.3142	2.585	4.590	ug/L
|	Al	27	263101.363	1.05	51.1747	2.606	5.092	ug/L
⌊>	Sc	45	248432.635	248432.63				ug/L
⌈	Ti	49	51601.320	0.16	100.3693	2.955	2.945	ug/L
|	V	51	413368.217	1.26	53.2030	1.380	2.593	ug/L
|	Cr	52	354136.497	1.06	53.3208	1.074	2.015	ug/L
|	Cr	53	40947.773	0.12	52.5120	0.334	0.636	ug/L
|	Mn	55	565752.245	1.73	53.7672	0.868	1.615	ug/L
|	Co	59	451793.746	1.39	52.5296	1.283	2.443	ug/L
|	Ni	60	95677.186	0.29	52.3396	1.391	2.657	ug/L
|	Cu	65	90022.677	0.28	51.7030	1.071	2.072	ug/L
|	Zn	66	49811.249	0.15	49.7309	0.916	1.842	ug/L
|>	Ge	72	326086.614	326086.61				ug/L
|	As	75	33640.220	0.10	50.3756	0.764	1.516	ug/L
|	Se	77	2737.315	0.01	50.9943	1.257	2.465	ug/L
|	Se	82	3310.380	0.01	51.1891	1.556	3.040	ug/L
⌊	Rb	85	1075.402	0.00				mg/L
	Y	89	190245.149	-24330.50				ug/L
	Rh	103	18.667	10.00				ug/L
⌈	Mo	98	154626.092	0.57	95.7615	1.056	1.103	ug/L
|	Ag	107	171268.585	0.63	51.3660	0.225	0.437	ug/L
|	Cd	114	42682.940	0.16	49.8722	0.629	1.262	ug/L
|>	In	115	270366.686	270366.69				ug/L
|	Sn	118	150134.253	0.55	49.6611	0.317	0.638	ug/L
⌊	Sb	123	132319.495	0.49	49.0866	0.308	0.628	ug/L
⌈	Ba	135	60546.009	0.18	47.7288	0.568	1.190	ug/L
|	Ce	140	110.012	0.00				ug/L
⌊>	Tb	159	342905.861	342905.86				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	284511.806	0.76	51.1720	0.246	0.481	ug/L
|	Tl	205	687069.937	1.82	49.5919	1.085	2.187	ug/L
|	Pb	206	237572.398	0.63	50.4421	0.409	0.810	ug/L
|	Pb	207	207192.329	0.55	50.0114	0.595	1.191	ug/L
|	Pb	208	965403.331	2.56	50.2523	0.604	1.201	ug/L
|	U	238	1499665.147	3.98	52.1190	0.159	0.305	ug/L
⌊>	Bi	209	376751.256	376751.26				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 02:23:38
Page 1

Approved: November 23, 2010

Na	23	21475948.466	86.47	5.2046	0.235	4.507	mg/L	
Mg	24	12501539.318	50.36	5.0020	0.225	4.506	mg/L	
K	39	33924545.012	135.02	4.9922	0.116	2.328	mg/L	
Ca	43	86800.427	0.35	5.2019	0.168	3.227	mg/L	
Fe	54	2398248.812	9.46	5.3818	0.098	1.815	mg/L	
Fe	57	1186845.752	4.75	5.6459	0.183	3.246	mg/L	
Sc-1	45	248432.635	248432.63				mg/L	
Cl	35	18402.250	-3775.65				mg/L	
Kr	83	24.000	-8.00				mg/L	
Br	81	8587.686	-1049.62				mg/L	
P	31	9866.207	-658.03				mg/L	
S	34	197137.150	12394.66				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	106.406				
Cr	52	106.642				
Cr	53					
Mn	55	107.534				
Co	59	105.059				
Ni	60	104.679				
Cu	65	103.406				
Zn	66	99.462				
Ge	72		86.283			
As	75	100.751				
Se	77					
Se	82	102.378				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	102.732				
Cd	114	99.744				
In	115		96.479			
Sn	118					
Sb	123	98.173				
Ba	135	95.458				
Ce	140					
Tb	159		97.489			
Ho	165					
Tl	203	102.344				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.505				
U	238	104.238				
Bi	209		98.357			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 02:23:38
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 02:23:38
Page 3

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 23, 2010 02:28:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	30111.982	0.02				ug/L
|	Be	9	2.000	-0.00	0.0153	0.012	81.097	ug/L
|	Al	27	2516.986	0.00	-0.0280	0.060	215.261	ug/L
⌊>	Sc	45	248927.402	248927.40				ug/L
⌈	Ti	49	36.670	-0.00	0.0650	0.011	17.662	ug/L
|	V	51	2444.962	-0.00	-0.0095	0.007	78.578	ug/L
|	Cr	52	7756.085	-0.00	-0.0534	0.010	19.395	ug/L
|	Cr	53	160.017	-0.00	-0.1436	0.081	56.560	ug/L
|	Mn	55	283.674	0.00	-0.0069	0.002	34.057	ug/L
|	Co	59	74.001	0.00	-0.0118	0.000	1.489	ug/L
|	Ni	60	19.334	-0.00	-0.0239	0.002	8.856	ug/L
|	Cu	65	88.668	0.00	-0.0318	0.003	9.739	ug/L
|	Zn	66	284.007	0.00	0.0449	0.029	64.486	ug/L
|>	Ge	72	334370.940	334370.94				ug/L
|	As	75	-127.723	0.00	0.0340	0.072	212.570	ug/L
|	Se	77	63.340	0.00	-0.1273	0.096	75.751	ug/L
|	Se	82	5.444	-0.00	-0.0271	0.117	432.496	ug/L
⌊	Rb	85	12.667	0.00				mg/L
	Y	89	197602.843	-16972.80				ug/L
	Rh	103	3.667	-5.00				ug/L
⌈	Mo	98	95.563	0.00	0.0449	0.011	24.524	ug/L
|	Ag	107	14.333	0.00	-0.0130	0.000	2.754	ug/L
|	Cd	114	16.846	0.00	-0.0273	0.010	38.295	ug/L
|>	In	115	276372.120	276372.12				ug/L
|	Sn	118	509.346	-0.00	-0.0542	0.006	11.397	ug/L
⌊	Sb	123	274.044	0.00	0.1071	0.018	16.672	ug/L
⌈	Ba	135	7.667	-0.00	-0.0160	0.001	9.232	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	349986.894	349986.89				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	23.334	0.00	0.0026	0.001	25.155	ug/L
|	Tl	205	20.002	0.00	0.0186	0.001	3.741	ug/L
|	Pb	206	335.009	-0.00	-0.0025	0.003	101.276	ug/L
|	Pb	207	279.340	0.00	0.0039	0.006	151.225	ug/L
|	Pb	208	1294.712	0.00	-0.0031	0.003	99.216	ug/L
|	U	238	73.668	0.00	-0.0036	0.000	9.752	ug/L
⌊>	Bi	209	397363.934	397363.93				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 02:30:21
Page 1

Approved: November 23, 2010

⌈	Na	23	11387.620	0.01	-0.0081	0.000	0.949	mg/L
|	Mg	24	533.401	0.00	-0.0133	0.000	0.358	mg/L
|	K	39	380307.631	-0.06	-0.0102	0.001	8.024	mg/L
|	Ca	43	110.012	-0.00	0.0003	0.002	573.061	mg/L
|	Fe	54	46842.936	-0.00	-0.0047	0.001	20.990	mg/L
|	Fe	57	7263.368	0.00	-0.0038	0.002	64.736	mg/L
⌊>	Sc-1	45	248927.402	248927.40				mg/L
	Cl	35	17463.904	-4714.00				mg/L
	Kr	83	25.667	-6.33				mg/L
	Br	81	8765.173	-872.14				mg/L
	P	31	9476.489	-1047.74				mg/L
	S	34	193475.515	8733.02				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.475			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.622			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.502			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.738			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 02:30:21
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 02:30:21

Approved: November 23, 2010

Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, November 23, 2010 02:34:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	32368.987	0.02				ug/L
|	Be	9	4.667	-0.00	0.0241	0.014	58.760	ug/L
|	Al	27	1683.476	-0.00	-0.1985	0.033	16.400	ug/L
⌊>	Sc	45	254378.824	254378.82				ug/L
⌈	Ti	49	26.669	-0.00	0.0455	0.010	22.123	ug/L
|	V	51	5801.174	0.01	0.4091	0.012	2.867	ug/L
|	Cr	52	13733.228	0.02	0.8300	0.034	4.154	ug/L
|	Cr	53	770.107	0.00	0.6172	0.033	5.377	ug/L
|	Mn	55	6393.441	0.02	0.5557	0.019	3.342	ug/L
|	Co	59	4041.190	0.01	0.4349	0.003	0.730	ug/L
|	Ni	60	3372.602	0.01	1.7534	0.039	2.212	ug/L
|	Cu	65	1636.484	0.00	0.8300	0.027	3.271	ug/L
|	Zn	66	6851.749	0.02	6.4213	0.028	0.433	ug/L
|>	Ge	72	336743.152	336743.15				ug/L
|	As	75	178.843	0.00	0.4783	0.082	17.159	ug/L
|	Se	77	100.011	0.00	0.5433	0.182	33.451	ug/L
|	Se	82	36.502	0.00	0.4402	0.181	41.023	ug/L
⌊	Rb	85	9.667	-0.00				mg/L
	Y	89	196549.460	-18026.19				ug/L
	Rh	103	3.667	-5.00				ug/L
⌈	Mo	98	33.416	0.00	0.0069	0.002	27.187	ug/L
|	Ag	107	1542.468	0.01	0.4294	0.015	3.600	ug/L
|	Cd	114	175.809	0.00	0.1520	0.028	18.373	ug/L
|>	In	115	280139.244	280139.24				ug/L
|	Sn	118	383.207	-0.00	-0.0969	0.007	7.490	ug/L
⌊	Sb	123	1097.400	0.00	0.4004	0.023	5.705	ug/L
⌈	Ba	135	998.727	0.00	0.7472	0.013	1.730	ug/L
|	Ce	140	3.334	-0.00				ug/L
⌊>	Tb	159	351201.958	351201.96				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	507.018	0.00	0.0852	0.005	5.700	ug/L
|	Tl	205	1273.542	0.00	0.1044	0.003	2.971	ug/L
|	Pb	206	2302.621	0.00	0.3946	0.008	1.929	ug/L
|	Pb	207	2095.574	0.00	0.4205	0.005	1.094	ug/L
|	Pb	208	9448.187	0.02	0.4003	0.004	1.103	ug/L
|	U	238	13215.860	0.03	0.4300	0.010	2.263	ug/L
⌊>	Bi	209	397036.129	397036.13				ug/L

Approved: November 23, 2010

Na	23	11524.460	0.00	-0.0081	0.000	1.610	mg/L
Mg	24	370.044	0.00	-0.0134	0.000	0.171	mg/L
K	39	388787.299	-0.06	-0.0101	0.002	20.461	mg/L
Ca	43	126.680	-0.00	0.0011	0.002	211.431	mg/L
Fe	54	47772.887	-0.00	-0.0049	0.003	66.747	mg/L
Fe	57	7416.827	0.00	-0.0039	0.001	30.402	mg/L
> Sc-1	45	254378.824	254378.82				mg/L
Cl	35	18060.294	-4117.61				mg/L
Kr	83	19.000	-13.00				mg/L
Br	81	8665.088	-972.22				mg/L
P	31	10886.625	362.39				mg/L
S	34	201109.662	16367.17				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	102.274				
Cr	52	103.752				
Cr	53					
Mn	55	111.141				
Co	59	108.724				
Ni	60	109.588				
Cu	65	103.747				
Zn	66	102.740				
> Ge	72		89.103			
As	75	119.576				
Se	77					
Se	82	110.042				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	107.348				
Cd	114	75.991				
> In	115		99.966			
Sn	118					
Sb	123	100.100				
Ba	135	99.621				
Ce	140					
> Tb	159		99.848			
Ho	165					
Tl	203	106.502				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.077				
U	238	107.494				
> Bi	209		103.653			
Na	23					

Sample ID: QC Std 8
Report Date/Time: Tuesday, November 23, 2010 02:37:09
Page 2

Approved: November 23, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Cd	114	LLCCV IS OUT OF LIMITS (+/-20%)

Approved: November 23, 2010

Instrument Tuning Report

File Name: 06302008.tun
File Path: C:\elandata\Tuning\06302008.tun

Sample Information

Sample Date/Time: Tuesday, November 23, 2010 12:19:13

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	630	2060	0.698	
Li	7.016	7.029	1593	2060	0.702	
Co	58.933	58.929	14280	1972	0.654	
Ce	139.905	139.929	34007	2015	0.693	
Tl	204.975	204.976	49701	2255	0.704	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.924
3.000	1.846
4.000	46.522
5.000	11.773
6.000	2.054
7.000	1.449
8.000	20.233
9.000	2.418
58.000	1.813
59.000	0.933
60.000	17.757
139.000	4.362
140.000	0.906
141.000	10.746
204.000	4.365
205.000	0.871
206.000	0.616

Report Date/Time: Tuesday, November 23, 2010 12:20:25
Page 1

Approved: November 24, 2010

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Tuesday, November 23, 2010 12:23:02
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\Elandata\DataSet\112110\Sample.341
Tuning File: C:\elandata\Tuning\06302008.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	46782.6	46782.588	567.227	1.2
	Rh	102.9	188110.1	188110.099	602.115	0.3
	In	114.9	394346.3	394346.317	1731.711	0.4
	Pb	208.0	161852.7	161852.707	410.469	0.3
	U	238.1	41.1	41.100	2.584	6.3
⌈>	Ba	137.9	201889.8	201889.819	1354.532	0.7
⌊	Ba++	69.0	3274.8	0.016	0.000	1.0
⌈>	Ce	139.9	250421.6	250421.562	1522.653	0.6
⌊	CeO	155.9	6344.0	0.025	0.000	0.8
	Bkgd	220.0	7.6	7.600	1.710	22.5
	Ar2	79.9	3401544.8	3401544.794	21763.262	0.6

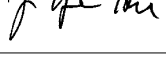
Current Optimization File Data

Current Value	Description
1.02	Nebulizer Gas Flow
6.70	Lens Voltage
1500.00	ICP RF Power
-1750.00	Analog Stage Voltage
950.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	6.5	3647.3
Co	59	33	7.3	105674.8
Rh	103	33	7.5	89715.6
Pb	208	33	9.0	115272.6

Approved: November 24, 2010



Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, November 23, 2010 15:05:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23694.762					ug/L
|	Be	9	8.000					ug/L
|	Al	27	5935.096					ug/L
|>	Sc	45	286619.101					ug/L
⌈	Ti	49	53.339					ug/L
|	V	51	2811.483					ug/L
|	Cr	52	8780.942					ug/L
|	Cr	53	256.696					ug/L
|	Mn	55	289.007					ug/L
|	Co	59	193.337					ug/L
|	Ni	60	19.000					ug/L
|	Cu	65	100.002					ug/L
|	Zn	66	1515.797					ug/L
|>	Ge	72	331157.552					ug/L
|	As	75	-123.916					ug/L
|	Se	77	56.673					ug/L
|	Se	82	2.020					ug/L
⌊	Rb	85	17.334					mg/L
	Y	89	198925.483					ug/L
	Rh	103	9.333					ug/L
⌈	Mo	98	21.123					ug/L
|	Ag	107	23.000					ug/L
|	Cd	114	9.558					ug/L
|>	In	115	250610.867					ug/L
|	Sn	118	1419.701					ug/L
⌊	Sb	123	68.246					ug/L
⌈	Ba	135	11.333					ug/L
|	Ce	140	30.003					ug/L
⌊>	Tb	159	312340.190					ug/L
⌈	Ho	165	3.334					ug/L
|	Tl	203	18.667					ug/L
|	Tl	205	36.670					ug/L
|	Pb	206	1816.517					ug/L
|	Pb	207	1526.799					ug/L
|	Pb	208	7188.093					ug/L
|	U	238	21.334					ug/L
⌊>	Bi	209	357050.969					ug/L

Sample ID: Blank
Report Date/Time: Tuesday, November 23, 2010 15:07:50
Page 1

Approved: November 24, 2010

⌈	Na	23	11080.577	mg/L
|	Mg	24	183.353	mg/L
|	K	39	461162.525	mg/L
|	Ca	43	176.686	mg/L
|	Fe	54	50572.738	mg/L
|	Fe	57	7370.137	mg/L
⌊>	Sc-1	45	286619.101	mg/L
	Cl	35	31400.557	mg/L
	Kr	83	36.000	mg/L
	Br	81	6378.703	mg/L
	P	31	9515.888	mg/L
	S	34	184876.948	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Blank
Report Date/Time: Tuesday, November 23, 2010 15:07:50

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Tuesday, November 23, 2010 15:07:50
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, November 23, 2010 15:12:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25733.157	0.01				ug/L
|	Be	9	6.000	-0.00				ug/L
|	Al	27	5518.191	-0.00				ug/L
⌊>	Sc	45	293117.457	293117.46				ug/L
⌈	Ti	49	30.003	-0.00				ug/L
|	V	51	2851.280	0.00				ug/L
|	Cr	52	8832.654	0.00				ug/L
|	Cr	53	226.692	-0.00				ug/L
|	Mn	55	304.008	0.00				ug/L
|	Co	59	179.003	-0.00				ug/L
|	Ni	60	22.000	0.00				ug/L
|	Cu	65	90.668	-0.00				ug/L
|	Zn	66	1452.120	-0.00				ug/L
|>	Ge	72	328140.320	328140.32				ug/L
|	As	75	-110.246	0.00				ug/L
|	Se	77	50.005	-0.00				ug/L
|	Se	82	-0.649	-0.00				ug/L
⌊	Rb	85	13.667	-0.00				mg/L
	Y	89	200166.663	1241.18				ug/L
	Rh	103	6.667	-2.67				ug/L
⌈	Mo	98	17.863	-0.00				ug/L
|	Ag	107	15.667	-0.00				ug/L
|	Cd	114	4.489	-0.00				ug/L
|>	In	115	250628.715	250628.72				ug/L
|	Sn	118	1230.209	-0.00				ug/L
⌊	Sb	123	50.075	-0.00				ug/L
⌈	Ba	135	13.667	0.00				ug/L
|	Ce	140	30.003	-0.00				ug/L
⌊>	Tb	159	313113.235	313113.23				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	19.000	0.00				ug/L
|	Tl	205	50.005	0.00				ug/L
|	Pb	206	1753.171	-0.00				ug/L
|	Pb	207	1484.792	-0.00				ug/L
|	Pb	208	6935.351	-0.00				ug/L
|	U	238	10.333	-0.00				ug/L
⌊>	Bi	209	358380.852	358380.85				ug/L

Sample ID: Standard 1
Report Date/Time: Tuesday, November 23, 2010 15:14:34
Page 1

Approved: November 24, 2010

⌈	Na	23	11123.970	-0.00		mg/L
|	Mg	24	180.020	-0.00		mg/L
|	K	39	463350.947	-0.03		mg/L
|	Ca	43	183.353	0.00		mg/L
|	Fe	54	50598.046	-0.00		mg/L
|	Fe	57	6976.471	-0.00		mg/L
⌊>	Sc-1	45	293117.457	293117.46		mg/L
	Cl	35	29104.971	-2295.59		mg/L
	Kr	83	36.334	0.33		mg/L
	Br	81	6454.751	76.05		mg/L
	P	31	9505.901	-9.99		mg/L
	S	34	186064.566	1187.62		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 1
Report Date/Time: Tuesday, November 23, 2010 15:14:34
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Tuesday, November 23, 2010 15:14:34
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, November 23, 2010 15:19:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

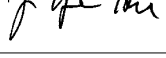
User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25048.029	0.01				ug/L
|	Be	9	114.001	0.00				ug/L
|	Al	27	6919.083	0.00				ug/L
⌊>	Sc	45	285072.953	285072.95				ug/L
⌈	Ti	49	496.729	0.00				ug/L
|	V	51	6519.617	0.01				ug/L
|	Cr	52	12003.987	0.01				ug/L
|	Cr	53	620.081	0.00				ug/L
|	Mn	55	5398.511	0.02				ug/L
|	Co	59	4164.242	0.01				ug/L
|	Ni	60	864.379	0.00				ug/L
|	Cu	65	897.383	0.00				ug/L
|	Zn	66	1975.215	0.00				ug/L
|>	Ge	72	325001.663	325001.66				ug/L
|	As	75	169.820	0.00				ug/L
|	Se	77	70.007	0.00				ug/L
|	Se	82	33.047	0.00				ug/L
⌊	Rb	85	25.000	0.00				mg/L
	Y	89	195665.253	-3260.23				ug/L
	Rh	103	7.333	-2.00				ug/L
⌈	Mo	98	1221.210	0.00				ug/L
|	Ag	107	1281.762	0.01				ug/L
|	Cd	114	304.399	0.00				ug/L
|>	In	115	247176.804	247176.80				ug/L
|	Sn	118	2532.854	0.00				ug/L
⌊	Sb	123	1042.018	0.00				ug/L
⌈	Ba	135	523.686	0.00				ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	306489.143	306489.14				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	2157.921	0.01				ug/L
|	Tl	205	5708.867	0.02				ug/L
|	Pb	206	3513.652	0.00				ug/L
|	Pb	207	3038.159	0.00				ug/L
|	Pb	208	14224.165	0.02				ug/L
|	U	238	11491.715	0.03				ug/L
⌊>	Bi	209	355955.497	355955.50				ug/L

Sample ID: Standard 2
Report Date/Time: Tuesday, November 23, 2010 15:21:17
Page 1

Approved: November 24, 2010



⌈	Na	23	243778.095	0.82		mg/L
|	Mg	24	155095.543	0.54		mg/L
|	K	39	871226.589	1.45		mg/L
|	Ca	43	1073.499	0.00		mg/L
|	Fe	54	74635.411	0.09		mg/L
|	Fe	57	17386.852	0.04		mg/L
⌊>	Sc-1	45	285072.953	285072.95		mg/L
	Cl	35	35540.389	4139.83		mg/L
	Kr	83	33.000	-3.00		mg/L
	Br	81	6370.029	-8.67		mg/L
	P	31	9432.470	-83.42		mg/L
	S	34	193058.512	8181.56		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 2
Report Date/Time: Tuesday, November 23, 2010 15:21:17
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Tuesday, November 23, 2010 15:21:17
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Tuesday, November 23, 2010 15:25:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24262.878	0.00				ug/L
|	Be	9	14377.007	0.05	50.0000	2.416	4.831	ug/L
|	Al	27	305535.793	1.05	50.0000	2.417	4.834	ug/L
|>	Sc	45	285674.194	285674.19				ug/L
⌈	Ti	49	57695.062	0.18	100.0000	2.438	2.438	ug/L
|	V	51	466095.177	1.46	50.0000	0.483	0.966	ug/L
|	Cr	52	387689.185	1.20	50.0000	0.752	1.503	ug/L
|	Cr	53	45186.378	0.14	50.0000	0.660	1.320	ug/L
|	Mn	55	616562.503	1.94	50.0000	0.406	0.812	ug/L
|	Co	59	489632.479	1.54	50.0000	0.463	0.926	ug/L
|	Ni	60	101226.450	0.32	50.0000	0.729	1.458	ug/L
|	Cu	65	93425.718	0.29	50.0000	0.193	0.386	ug/L
|	Zn	66	54237.572	0.17	50.0000	0.968	1.936	ug/L
|>	Ge	72	317372.466	317372.47				ug/L
|	As	75	33061.734	0.10	50.0000	0.999	1.998	ug/L
|	Se	77	2673.958	0.01	50.0000	0.790	1.580	ug/L
|	Se	82	3255.942	0.01	50.0000	1.393	2.786	ug/L
⌊	Rb	85	1317.100	0.00				mg/L
	Y	89	192116.952	-6808.53				ug/L
	Rh	103	15.000	5.67				ug/L
⌈	Mo	98	143496.662	0.59	100.0000	0.992	0.992	ug/L
|	Ag	107	149421.067	0.62	50.0000	0.444	0.889	ug/L
|	Cd	114	39292.929	0.16	50.0000	0.497	0.993	ug/L
|>	In	115	242482.021	242482.02				ug/L
|	Sn	118	133989.575	0.55	50.0000	0.293	0.586	ug/L
⌊	Sb	123	129534.897	0.53	50.0000	0.394	0.787	ug/L
⌈	Ba	135	61472.310	0.20	50.0000	0.883	1.766	ug/L
|	Ce	140	33.337	0.00				ug/L
|>	Tb	159	302827.864	302827.86				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	261076.447	0.76	50.0000	0.734	1.469	ug/L
|	Tl	205	639175.487	1.86	50.0000	0.392	0.784	ug/L
|	Pb	206	212126.797	0.61	50.0000	0.642	1.283	ug/L
|	Pb	207	197362.003	0.57	50.0000	0.537	1.075	ug/L
|	Pb	208	888087.316	2.57	50.0000	0.392	0.783	ug/L
|	U	238	1413460.815	4.12	50.0000	0.191	0.381	ug/L
|>	Bi	209	343012.613	343012.61				ug/L

Sample ID: Standard 3
Report Date/Time: Tuesday, November 23, 2010 15:28:02
Page 1

Approved: November 24, 2010

Na	23	22443088.500	78.56	5.0000	0.308	6.153	mg/L
Mg	24	13852397.167	48.49	5.0000	0.151	3.014	mg/L
K	39	37972668.144	131.37	5.0000	0.207	4.142	mg/L
Ca	43	95412.514	0.33	5.0000	0.120	2.398	mg/L
Fe	54	2459123.999	8.44	5.0000	0.262	5.244	mg/L
Fe	57	1250876.995	4.35	5.0000	0.086	1.712	mg/L
Sc-1	45	285674.194	285674.19				mg/L
Cl	35	31827.270	426.71				mg/L
Kr	83	34.334	-1.67				mg/L
Br	81	6038.493	-340.21				mg/L
P	31	10157.882	641.99				mg/L
S	34	192796.196	7919.25				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209					
Na	23					

Sample ID: Standard 3
Report Date/Time: Tuesday, November 23, 2010 15:28:02
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Tuesday, November 23, 2010 15:28:02
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Tuesday, November 23, 2010 15:32:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22642.284	0.00				ug/L
|	Be	9	27186.271	0.10	99.6083	2.960	2.972	ug/L
|	Al	27	554919.609	2.02	98.0129	5.963	6.083	ug/L
⌊>	Sc	45	272260.804	272260.80				ug/L
⌈	Ti	49	114739.298	0.38	204.3587	2.117	1.036	ug/L
|	V	51	879968.163	2.90	99.7248	1.339	1.343	ug/L
|	Cr	52	738347.993	2.42	100.5921	0.699	0.695	ug/L
|	Cr	53	85919.574	0.28	100.0847	3.290	3.287	ug/L
|	Mn	55	1167228.385	3.86	99.7392	1.562	1.566	ug/L
|	Co	59	903124.492	2.99	98.4376	0.634	0.644	ug/L
|	Ni	60	189174.664	0.63	99.0850	1.206	1.217	ug/L
|	Cu	65	176077.117	0.58	99.5384	0.893	0.897	ug/L
|	Zn	66	98502.411	0.32	98.3242	0.720	0.733	ug/L
|>	Ge	72	302082.330	302082.33				ug/L
|	As	75	62216.524	0.21	99.3486	1.049	1.056	ug/L
|	Se	77	4968.398	0.02	99.2356	2.848	2.870	ug/L
|	Se	82	6064.627	0.02	98.9542	1.147	1.159	ug/L
⌊	Rb	85	2120.246	0.01				mg/L
	Y	89	187411.764	-11513.72				ug/L
	Rh	103	28.334	19.00				ug/L
⌈	Mo	98	279292.238	1.20	201.0748	3.284	1.633	ug/L
|	Ag	107	282406.687	1.21	99.0788	0.890	0.898	ug/L
|	Cd	114	71312.648	0.31	97.0403	0.736	0.759	ug/L
|>	In	115	233483.036	233483.04				ug/L
|	Sn	118	259062.258	1.10	100.4656	0.985	0.981	ug/L
⌊	Sb	123	238460.123	1.02	97.7537	1.001	1.024	ug/L
⌈	Ba	135	117889.000	0.40	99.3797	1.078	1.085	ug/L
|	Ce	140	246.694	0.00				ug/L
⌊>	Tb	159	294026.347	294026.35				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	493337.830	1.49	98.8107	1.041	1.053	ug/L
|	Tl	205	1209647.546	3.64	98.9104	1.031	1.042	ug/L
|	Pb	206	412275.398	1.24	100.4176	1.389	1.383	ug/L
|	Pb	207	362984.790	1.09	97.6299	0.977	1.001	ug/L
|	Pb	208	1665957.625	5.00	98.6357	0.846	0.858	ug/L
|	U	238	2454438.000	7.40	94.6134	1.888	1.996	ug/L
⌊>	Bi	209	331863.870	331863.87				ug/L

Sample ID: Standard 4
Report Date/Time: Tuesday, November 23, 2010 15:34:47
Page 1

Approved: November 24, 2010

⌈	Na	23	43875288.602	161.38	10.1394	0.606	5.979	mg/L
|	Mg	24	26701571.886	98.18	10.0688	0.418	4.152	mg/L
|	K	39	76155825.958	278.53	10.2984	0.572	5.555	mg/L
|	Ca	43	186416.905	0.69	10.1380	0.588	5.800	mg/L
|	Fe	54	4705202.472	17.12	10.0767	0.285	2.831	mg/L
|	Fe	57	2017130.976	7.39	9.1875	0.513	5.578	mg/L
⌊>	Sc-1	45	272260.804	272260.80				mg/L
	Cl	35	31020.059	-380.50				mg/L
	Kr	83	33.667	-2.33				mg/L
	Br	81	5497.511	-881.19				mg/L
	P	31	9675.360	159.47				mg/L
	S	34	184907.629	30.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 4
Report Date/Time: Tuesday, November 23, 2010 15:34:47
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Corr. Coef.	Fe	57	Correlation Coefficient not > 0.998

Sample ID: Standard 4
Report Date/Time: Tuesday, November 23, 2010 15:34:47
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, November 23, 2010 15:39:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 11
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24279.474	0.01				ug/L
|	Be	9	14169.377	0.05	52.0274	2.962	5.692	ug/L
|	Al	27	285078.534	1.03	49.9853	1.715	3.431	ug/L
⌊>	Sc	45	271744.492	271744.49				ug/L
⌈	Ti	49	56799.899	0.19	101.3145	2.371	2.340	ug/L
|	V	51	444424.296	1.47	50.3033	0.180	0.358	ug/L
|	Cr	52	377723.439	1.23	50.9856	0.215	0.421	ug/L
|	Cr	53	44422.917	0.15	51.6913	1.387	2.683	ug/L
|	Mn	55	589789.865	1.95	50.4615	0.759	1.504	ug/L
|	Co	59	467349.637	1.55	51.0095	0.063	0.123	ug/L
|	Ni	60	97379.170	0.32	51.0787	0.944	1.848	ug/L
|	Cu	65	89229.257	0.30	50.4836	0.398	0.788	ug/L
|	Zn	66	52401.131	0.17	51.7109	1.044	2.019	ug/L
|>	Ge	72	301616.360	301616.36				ug/L
|	As	75	31654.759	0.11	50.6978	0.884	1.744	ug/L
|	Se	77	2267.151	0.01	44.8612	3.430	7.645	ug/L
|	Se	82	3174.251	0.01	51.8333	1.283	2.476	ug/L
⌊	Rb	85	1236.756	0.00				mg/L
	Y	89	188369.690	-10555.79				ug/L
	Rh	103	14.000	4.67				ug/L
⌈	Mo	98	142039.219	0.60	101.1954	1.234	1.220	ug/L
|	Ag	107	147729.708	0.63	51.2877	0.736	1.435	ug/L
|	Cd	114	37609.508	0.16	50.6616	0.732	1.445	ug/L
|>	In	115	235911.047	235911.05				ug/L
|	Sn	118	130417.216	0.55	49.7952	0.990	1.988	ug/L
⌊	Sb	123	124974.010	0.53	50.7033	0.842	1.661	ug/L
⌈	Ba	135	59554.078	0.20	49.6124	1.117	2.251	ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	297507.187	297507.19				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	256662.942	0.75	50.1135	0.423	0.844	ug/L
|	Tl	205	627091.529	1.84	49.9738	0.715	1.430	ug/L
|	Pb	206	208334.564	0.61	49.2597	0.591	1.200	ug/L
|	Pb	207	193356.482	0.56	50.5216	0.142	0.282	ug/L
|	Pb	208	870657.999	2.54	50.0581	0.453	0.905	ug/L
|	U	238	1399712.909	4.11	52.5853	0.496	0.943	ug/L
⌊>	Bi	209	340418.656	340418.66				ug/L

Sample ID: QC Std 1
Report Date/Time: Tuesday, November 23, 2010 15:41:30
Page 1

Approved: November 24, 2010

Na	23	21559244.184	79.34	4.9790	0.245	4.917	mg/L
Mg	24	13097204.042	48.23	4.9382	0.210	4.250	mg/L
K	39	37134024.257	135.09	4.9879	0.102	2.049	mg/L
Ca	43	91987.356	0.34	4.9972	0.192	3.840	mg/L
Fe	54	2410889.986	8.70	5.1141	0.124	2.421	mg/L
Fe	57	1207841.949	4.42	5.4913	0.134	2.437	mg/L
Sc-1	45	271744.492	271744.49				mg/L
Cl	35	28739.931	-2660.63				mg/L
Kr	83	34.000	-2.00				mg/L
Br	81	5695.622	-683.08				mg/L
P	31	9750.101	234.21				mg/L
S	34	190245.177	5368.23				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9	104.055				
Al	27	99.971				
Sc	45					
Ti	49	101.315				
V	51	100.607				
Cr	52	101.971				
Cr	53					
Mn	55	100.923				
Co	59	102.019				
Ni	60	102.157				
Cu	65	100.967				
Zn	66	103.422				
Ge	72		91.079			
As	75	101.396				
Se	77					
Se	82	103.667				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	102.575				
Cd	114	101.323				
In	115		94.134			
Sn	118					
Sb	123	101.407				
Ba	135	99.225				
Ce	140					
Tb	159		95.251			
Ho	165					
Tl	203	100.227				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.116				
U	238	105.171				
Bi	209		95.342			
Na	23	99.581				

Sample ID: QC Std 1
Report Date/Time: Tuesday, November 23, 2010 15:41:30

Approved: November 24, 2010

	Mg	24	98.764
	K	39	99.758
	Ca	43	99.945
	Fe	54	102.283
	Fe	57	109.826
>	Sc-1	45	
	Cl	35	
	Kr	83	
	Br	81	
	P	31	
	S	34	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Tuesday, November 23, 2010 15:41:30

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, November 23, 2010 15:46:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24814.254	0.01				ug/L
|	Be	9	6.000	-0.00	0.0226	0.014	60.690	ug/L
|	Al	27	5051.281	-0.00	0.1042	0.056	53.610	ug/L
⌊>	Sc	45	277910.788	277910.79				ug/L
⌈	Ti	49	46.671	-0.00	0.0566	0.056	99.033	ug/L
|	V	51	2651.641	-0.00	0.0025	0.008	323.598	ug/L
|	Cr	52	8352.571	0.00	-0.0248	0.032	130.322	ug/L
|	Cr	53	136.681	-0.00	-0.1195	0.033	27.492	ug/L
|	Mn	55	320.008	0.00	-0.0026	0.001	34.714	ug/L
|	Co	59	186.670	0.00	-0.0023	0.001	22.373	ug/L
|	Ni	60	14.667	-0.00	-0.0137	0.002	14.938	ug/L
|	Cu	65	79.334	-0.00	-0.0286	0.002	8.051	ug/L
|	Zn	66	1328.435	-0.00	-0.1584	0.039	24.905	ug/L
|>	Ge	72	312522.687	312522.69				ug/L
|	As	75	-94.665	0.00	0.0017	0.038	2165.689	ug/L
|	Se	77	46.671	-0.00	-0.0007	0.112	15566.422	ug/L
|	Se	82	5.397	0.00	-0.0196	0.086	437.562	ug/L
⌊	Rb	85	14.000	-0.00				mg/L
	Y	89	194261.360	-4664.12				ug/L
	Rh	103	7.000	-2.33				ug/L
⌈	Mo	98	152.194	0.00	0.0741	0.025	33.636	ug/L
|	Ag	107	16.667	-0.00	-0.0194	0.001	4.689	ug/L
|	Cd	114	4.989	-0.00	0.0156	0.007	45.544	ug/L
|>	In	115	244005.382	244005.38				ug/L
|	Sn	118	1359.293	-0.00	-0.0258	0.027	106.227	ug/L
⌊	Sb	123	256.833	0.00	0.0974	0.002	2.061	ug/L
⌈	Ba	135	12.000	0.00	-0.0139	0.002	15.583	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	306138.185	306138.19				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	25.000	0.00	0.0018	0.001	66.248	ug/L
|	Tl	205	50.005	0.00	-0.0315	0.001	4.310	ug/L
|	Pb	206	1449.786	-0.00	-0.0663	0.011	15.832	ug/L
|	Pb	207	1216.086	-0.00	-0.0546	0.006	11.555	ug/L
|	Pb	208	5642.345	-0.00	-0.0716	0.005	7.271	ug/L
|	U	238	65.001	0.00	-0.0108	0.000	2.498	ug/L
⌊>	Bi	209	351457.916	351457.92				ug/L

Sample ID: QC Std 2
Report Date/Time: Tuesday, November 23, 2010 15:48:13
Page 1

Approved: November 24, 2010

⌈	Na	23	12272.088	0.01	-0.0110	0.000	0.518	mg/L
|	Mg	24	243.361	0.00	-0.0158	0.000	0.120	mg/L
|	K	39	456728.646	0.04	-0.0123	0.001	11.743	mg/L
|	Ca	43	146.682	-0.00	-0.0079	0.002	20.784	mg/L
|	Fe	54	48232.996	-0.00	-0.0119	0.006	47.980	mg/L
|	Fe	57	6779.643	-0.00	-0.0055	0.001	24.602	mg/L
⌊>	Sc-1	45	277910.788	277910.79				mg/L
	Cl	35	26606.694	-4793.86				mg/L
	Kr	83	31.000	-5.00				mg/L
	Br	81	6001.135	-377.57				mg/L
	P	31	10113.115	597.23				mg/L
	S	34	178770.550	-6106.40				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.373			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.364			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.014			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.434			
⌈	Na	23					

Sample ID: QC Std 2
Report Date/Time: Tuesday, November 23, 2010 15:48:13
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Tuesday, November 23, 2010 15:48:13

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, November 23, 2010 15:52:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24262.792	0.00				ug/L
|	Be	9	4.667	-0.00	0.0178	0.015	83.556	ug/L
|	Al	27	2133.569	-0.01	-0.4094	0.091	22.313	ug/L
⌊>	Sc	45	283360.894	283360.89				ug/L
⌈	Ti	49	40.004	-0.00	0.0446	0.034	77.191	ug/L
|	V	51	6216.375	0.01	0.3935	0.013	3.230	ug/L
|	Cr	52	14658.218	0.02	0.8130	0.034	4.140	ug/L
|	Cr	53	783.442	0.00	0.6099	0.064	10.412	ug/L
|	Mn	55	6458.150	0.02	0.5041	0.009	1.865	ug/L
|	Co	59	3985.167	0.01	0.3976	0.010	2.633	ug/L
|	Ni	60	3291.575	0.01	1.6443	0.033	1.984	ug/L
|	Cu	65	1598.477	0.00	0.8014	0.033	4.102	ug/L
|	Zn	66	7993.607	0.02	6.3607	0.057	0.891	ug/L
|>	Ge	72	312784.132	312784.13				ug/L
|	As	75	171.945	0.00	0.4122	0.043	10.496	ug/L
|	Se	77	76.675	0.00	0.5830	0.901	154.496	ug/L
|	Se	82	29.070	0.00	0.3543	0.134	37.778	ug/L
⌊	Rb	85	14.667	-0.00				mg/L
	Y	89	197089.547	-1835.94				ug/L
	Rh	103	7.667	-1.67				ug/L
⌈	Mo	98	53.010	0.00	0.0059	0.004	65.943	ug/L
|	Ag	107	1272.427	0.01	0.4047	0.003	0.722	ug/L
|	Cd	114	146.064	0.00	0.2003	0.013	6.693	ug/L
|>	In	115	242640.736	242640.74				ug/L
|	Sn	118	1343.024	-0.00	-0.0292	0.009	29.717	ug/L
⌊	Sb	123	1089.523	0.00	0.4264	0.004	0.980	ug/L
⌈	Ba	135	916.718	0.00	0.7285	0.010	1.425	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	302138.550	302138.55				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	466.016	0.00	0.0839	0.001	1.573	ug/L
|	Tl	205	1166.852	0.00	0.0535	0.004	8.372	ug/L
|	Pb	206	3100.178	0.00	0.3047	0.021	6.838	ug/L
|	Pb	207	2811.757	0.00	0.3421	0.020	5.744	ug/L
|	Pb	208	12729.327	0.02	0.3161	0.007	2.261	ug/L
|	U	238	11402.612	0.03	0.3961	0.006	1.610	ug/L
⌊>	Bi	209	356466.353	356466.35				ug/L

Sample ID: QC Std 3
Report Date/Time: Tuesday, November 23, 2010 15:55:02
Page 1

Approved: November 24, 2010

Na	23	11948.329	0.00	-0.0111	0.000	1.131	mg/L
Mg	24	206.690	0.00	-0.0158	0.000	0.131	mg/L
K	39	464937.357	0.03	-0.0124	0.002	12.258	mg/L
Ca	43	170.018	-0.00	-0.0068	0.001	17.770	mg/L
Fe	54	45663.432	-0.02	-0.0192	0.003	15.151	mg/L
Fe	57	6636.198	-0.00	-0.0067	0.001	9.595	mg/L
Sc-1	45	283360.894	283360.89				mg/L
Cl	35	29284.206	-2116.35				mg/L
Kr	83	30.334	-5.67				mg/L
Br	81	6010.473	-368.23				mg/L
P	31	9445.842	-70.05				mg/L
S	34	188949.159	4072.21				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	98.377				
Cr	52	101.622				
Cr	53					
Mn	55	100.817				
Co	59	99.398				
Ni	60	102.770				
Cu	65	100.169				
Zn	66	101.771				
Ge	72		94.452			
As	75	103.054				
Se	77					
Se	82	88.580				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.165				
Cd	114	100.125				
In	115		96.820			
Sn	118					
Sb	123	106.600				
Ba	135	97.131				
Ce	140					
Tb	159		96.734			
Ho	165					
Tl	203	104.914				
Tl	205					
Pb	206					
Pb	207					
Pb	208	79.023				
U	238	99.024				
Bi	209		99.836			
Na	23					

Sample ID: QC Std 3
Report Date/Time: Tuesday, November 23, 2010 15:55:02
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Pb	208	LLICV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 3
Report Date/Time: Tuesday, November 23, 2010 15:55:02
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, November 23, 2010 15:59:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26902.817	0.02				ug/L
|	Be	9	5.333	-0.00	0.0206	0.022	105.861	ug/L
|	Al	27	20047665.588	73.52	3557.7587	115.979	3.260	ug/L
⌊>	Sc	45	272719.626	272719.63				ug/L
⌈	Ti	49	52150.867	0.17	89.1189	3.171	3.558	ug/L
|	V	51	2378.041	-0.00	-0.0295	0.011	36.317	ug/L
|	Cr	52	8742.575	0.00	0.0185	0.043	234.919	ug/L
|	Cr	53	1023.489	0.00	0.8743	0.173	19.750	ug/L
|	Mn	55	3063.833	0.01	0.2222	0.003	1.447	ug/L
|	Co	59	1780.843	0.01	0.1643	0.006	3.648	ug/L
|	Ni	60	1183.415	0.00	0.5738	0.017	3.009	ug/L
|	Cu	65	722.033	0.00	0.3199	0.008	2.436	ug/L
|	Zn	66	2232.271	0.00	0.7103	0.068	9.531	ug/L
|>	Ge	72	314911.529	314911.53				ug/L
|	As	75	-63.630	0.00	0.0502	0.055	110.252	ug/L
|	Se	77	86.676	0.00	0.7613	0.424	55.654	ug/L
|	Se	82	10.786	0.00	0.0651	0.094	144.526	ug/L
⌊	Rb	85	1128.075	0.00				mg/L
	Y	89	181846.574	-17078.91				ug/L
	Rh	103	7.667	-1.67				ug/L
⌈	Mo	98	133299.503	0.56	94.5055	1.371	1.451	ug/L
|	Ag	107	47.667	0.00	-0.0085	0.003	33.709	ug/L
|	Cd	114	88.806	0.00	0.1281	0.039	30.378	ug/L
|>	In	115	237064.904	237064.90				ug/L
|	Sn	118	1437.437	0.00	0.0189	0.000	2.317	ug/L
⌊	Sb	123	161.164	0.00	0.0617	0.008	12.940	ug/L
⌈	Ba	135	58.334	0.00	0.0241	0.004	15.842	ug/L
|	Ce	140	146.682	0.00				ug/L
⌊>	Tb	159	302575.375	302575.37				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	82.335	0.00	0.0128	0.002	19.441	ug/L
|	Tl	205	193.355	0.00	-0.0203	0.003	14.328	ug/L
|	Pb	206	1773.508	0.00	0.0130	0.012	94.437	ug/L
|	Pb	207	1465.789	-0.00	0.0132	0.007	50.980	ug/L
|	Pb	208	7013.714	0.00	0.0098	0.005	53.068	ug/L
|	U	238	22.000	0.00	-0.0123	0.000	1.964	ug/L
⌊>	Bi	209	347561.085	347561.09				ug/L

Sample ID: QC Std 4
Report Date/Time: Tuesday, November 23, 2010 16:01:48
Page 1

Approved: November 24, 2010

Na	23	53588013.615	196.51	12.3496	0.322	2.609	mg/L
Mg	24	13192110.389	48.38	4.9539	0.071	1.443	mg/L
K	39	35607559.792	129.03	4.7635	0.224	4.703	mg/L
Ca	43	257113.270	0.94	13.9496	0.583	4.180	mg/L
Fe	54	5747879.036	20.90	12.3053	0.070	0.572	mg/L
Fe	57	2471420.828	9.04	11.2297	0.129	1.145	mg/L
> Sc-1	45	272719.626	272719.63				mg/L
Cl	35	1768441.829	1737041.27				mg/L
Kr	83	24.667	-11.33				mg/L
Br	81	5833.702	-545.00				mg/L
P	31	1627833.384	1618317.50				mg/L
S	34	342349.494	157472.55				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		95.094			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		94.595			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		96.874			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		97.342			
Na	23					

Sample ID: QC Std 4
Report Date/Time: Tuesday, November 23, 2010 16:01:48
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	Cd	114	ICSA IS OUT OF LIMITS (+/-RL)

Sample ID: QC Std 4
Report Date/Time: Tuesday, November 23, 2010 16:01:48

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, November 23, 2010 16:06:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27588.014	0.02				ug/L
|	Be	9	30004.316	0.11	110.4129	1.150	1.042	ug/L
|	Al	27	28322398.883	104.57	5060.4450	158.693	3.136	ug/L
⌊>	Sc	45	271028.278	271028.28				ug/L
⌈	Ti	49	69353.372	0.22	116.3199	3.520	3.026	ug/L
|	V	51	858101.952	2.67	91.5626	0.836	0.913	ug/L
|	Cr	52	728263.964	2.24	93.3610	2.431	2.604	ug/L
|	Cr	53	87705.033	0.27	96.1897	1.466	1.524	ug/L
|	Mn	55	1183238.616	3.69	95.2091	0.502	0.527	ug/L
|	Co	59	913859.074	2.85	93.8060	1.580	1.684	ug/L
|	Ni	60	195190.503	0.61	96.2821	1.844	1.915	ug/L
|	Cu	65	181284.644	0.56	96.5109	1.110	1.150	ug/L
|	Zn	66	104987.292	0.32	98.6969	0.816	0.827	ug/L
|>	Ge	72	320765.516	320765.52				ug/L
|	As	75	64454.212	0.20	96.9259	0.511	0.527	ug/L
|	Se	77	5048.449	0.02	94.9216	6.431	6.775	ug/L
|	Se	82	5817.461	0.02	89.3916	1.517	1.697	ug/L
⌊	Rb	85	1483.792	0.00				mg/L
	Y	89	177641.690	-21283.79				ug/L
	Rh	103	35.334	26.00				ug/L
⌈	Mo	98	176738.432	0.74	124.9089	1.231	0.985	ug/L
|	Ag	107	232307.970	0.98	79.9947	5.156	6.445	ug/L
|	Cd	114	76560.828	0.32	102.2883	1.527	1.492	ug/L
|>	In	115	237806.695	237806.70				ug/L
|	Sn	118	1854.706	0.00	0.1769	0.035	19.962	ug/L
⌊	Sb	123	252254.210	1.06	101.5229	0.357	0.352	ug/L
⌈	Ba	135	119243.646	0.39	97.4301	0.934	0.958	ug/L
|	Ce	140	220.024	0.00				ug/L
⌊>	Tb	159	303340.841	303340.84				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	509165.029	1.46	96.7922	0.202	0.209	ug/L
|	Tl	205	1271367.885	3.64	98.6775	1.033	1.047	ug/L
|	Pb	206	430511.056	1.23	99.5195	2.291	2.302	ug/L
|	Pb	207	380133.876	1.08	97.0459	2.104	2.168	ug/L
|	Pb	208	1758466.345	5.01	98.8203	1.871	1.894	ug/L
|	U	238	2702629.844	7.73	98.8776	2.087	2.111	ug/L
⌊>	Bi	209	349631.339	349631.34				ug/L

Sample ID: QC Std 5
Report Date/Time: Tuesday, November 23, 2010 16:08:35
Page 1

Approved: November 24, 2010

Na	23	71712969.377	264.74	16.6412	0.550	3.305	mg/L
Mg	24	17634299.778	65.11	6.6726	0.299	4.488	mg/L
K	39	48190532.886	176.39	6.5169	0.256	3.931	mg/L
Ca	43	347989.471	1.28	19.0006	0.255	1.340	mg/L
Fe	54	7473687.934	27.42	16.1485	0.524	3.245	mg/L
Fe	57	3309639.039	12.21	15.1775	1.251	8.246	mg/L
> Sc-1	45	271028.278	271028.28				mg/L
Cl	35	1964025.438	1932624.88				mg/L
Kr	83	35.667	-0.33				mg/L
Br	81	5566.216	-812.49				mg/L
P	31	1795141.800	1785625.91				mg/L
S	34	386207.435	201330.49				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	91.563				
Cr	52	93.361				
Cr	53					
Mn	55	95.209				
Co	59	93.806				
Ni	60	96.282				
Cu	65	96.511				
Zn	66	98.697				
> Ge	72		96.862			
As	75	96.926				
Se	77					
Se	82	89.392				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	79.995				
Cd	114	102.288				
> In	115		94.891			
Sn	118					
Sb	123	101.523				
Ba	135	97.430				
Ce	140					
> Tb	159		97.119			
Ho	165					
Tl	203	96.792				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.820				
U	238	98.878				
> Bi	209		97.922			
Na	23					

Sample ID: QC Std 5
Report Date/Time: Tuesday, November 23, 2010 16:08:35
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Ag	107	ICSAB IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 5
Report Date/Time: Tuesday, November 23, 2010 16:08:35
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 23, 2010 16:13:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26117.422	0.01				ug/L
|	Be	9	15175.508	0.05	54.5370	1.221	2.238	ug/L
|	Al	27	306048.047	1.08	52.5879	0.696	1.324	ug/L
⌊>	Sc	45	277498.061	277498.06				ug/L
⌈	Ti	49	57275.966	0.18	96.6075	2.681	2.775	ug/L
|	V	51	455830.578	1.42	48.7813	1.079	2.213	ug/L
|	Cr	52	381465.451	1.17	48.6379	1.005	2.067	ug/L
|	Cr	53	43575.817	0.14	47.9306	2.026	4.228	ug/L
|	Mn	55	599278.015	1.88	48.4826	1.344	2.772	ug/L
|	Co	59	481402.432	1.51	49.6840	0.683	1.375	ug/L
|	Ni	60	99417.547	0.31	49.3137	1.709	3.466	ug/L
|	Cu	65	93432.735	0.29	49.9830	0.528	1.057	ug/L
|	Zn	66	54301.577	0.17	50.6338	0.686	1.355	ug/L
|>	Ge	72	319007.825	319007.83				ug/L
|	As	75	32713.732	0.10	49.5363	0.194	0.393	ug/L
|	Se	77	2740.651	0.01	51.3775	2.846	5.540	ug/L
|	Se	82	3236.347	0.01	49.9438	1.499	3.001	ug/L
⌊	Rb	85	1248.090	0.00				mg/L
	Y	89	185686.647	-13238.84				ug/L
	Rh	103	17.000	7.67				ug/L
⌈	Mo	98	140826.872	0.58	97.7582	1.357	1.388	ug/L
|	Ag	107	147546.662	0.61	49.9128	0.873	1.749	ug/L
|	Cd	114	38834.927	0.16	50.9668	2.036	3.995	ug/L
|>	In	115	242129.960	242129.96				ug/L
|	Sn	118	133986.655	0.55	49.8402	0.379	0.760	ug/L
⌊	Sb	123	128684.748	0.53	50.8715	0.659	1.296	ug/L
⌈	Ba	135	61273.099	0.20	49.5856	0.355	0.716	ug/L
|	Ce	140	43.338	0.00				ug/L
⌊>	Tb	159	306193.048	306193.05				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	266802.397	0.75	50.1300	0.382	0.762	ug/L
|	Tl	205	648520.708	1.83	49.7410	1.016	2.044	ug/L
|	Pb	206	218359.267	0.61	49.6970	1.174	2.362	ug/L
|	Pb	207	200300.644	0.56	50.3650	0.820	1.629	ug/L
|	Pb	208	901694.257	2.53	49.8942	0.282	0.566	ug/L
|	U	238	1443235.136	4.08	52.1867	0.907	1.739	ug/L
⌊>	Bi	209	353719.802	353719.80				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 16:15:21
Page 1

Approved: November 24, 2010

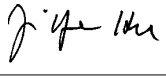
Na	23	22414401.126	80.75	5.0678	0.129	2.549	mg/L	
Mg	24	14041013.922	50.60	5.1823	0.073	1.404	mg/L	
K	39	38413536.274	136.85	5.0532	0.172	3.413	mg/L	
Ca	43	95601.079	0.34	5.0863	0.160	3.137	mg/L	
Fe	54	2433526.815	8.60	5.0551	0.227	4.487	mg/L	
Fe	57	1242398.967	4.45	5.5297	0.091	1.645	mg/L	
> Sc-1	45	277498.061	277498.06				mg/L	
Cl	35	33603.700	2203.14				mg/L	
Kr	83	25.000	-11.00				mg/L	
Br	81	5482.169	-896.53				mg/L	
P	31	8661.810	-854.08				mg/L	
S	34	185343.575	466.63				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	97.563				
Cr	52	97.276				
Cr	53					
Mn	55	96.965				
Co	59	99.368				
Ni	60	98.627				
Cu	65	99.966				
Zn	66	101.268				
> Ge	72		96.331			
As	75	99.073				
Se	77					
Se	82	99.888				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.826				
Cd	114	101.934				
> In	115		96.616			
Sn	118					
Sb	123	101.743				
Ba	135	99.171				
Ce	140					
> Tb	159		98.032			
Ho	165					
Tl	203	100.260				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.788				
U	238	104.373				
> Bi	209		99.067			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 16:15:21

Approved: November 24, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 16:15:21
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 23, 2010 16:19:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25415.631	0.01				ug/L
|	Be	9	6.000	-0.00	0.0225	0.012	53.746	ug/L
|	Al	27	4951.232	-0.00	0.0728	0.075	102.404	ug/L
⌊>	Sc	45	282552.967	282552.97				ug/L
⌈	Ti	49	33.337	-0.00	0.0310	0.019	62.670	ug/L
|	V	51	2712.955	-0.00	-0.0028	0.007	253.809	ug/L
|	Cr	52	8450.321	-0.00	-0.0570	0.007	12.621	ug/L
|	Cr	53	276.698	0.00	0.0265	0.039	146.270	ug/L
|	Mn	55	320.008	0.00	-0.0036	0.002	43.345	ug/L
|	Co	59	177.003	-0.00	-0.0041	0.001	14.151	ug/L
|	Ni	60	15.667	-0.00	-0.0135	0.001	8.611	ug/L
|	Cu	65	82.001	-0.00	-0.0288	0.006	21.822	ug/L
|	Zn	66	1352.772	-0.00	-0.1878	0.006	3.207	ug/L
|>	Ge	72	325524.083	325524.08				ug/L
|	As	75	-105.975	0.00	-0.0093	0.079	847.402	ug/L
|	Se	77	30.003	-0.00	-0.3508	0.178	50.821	ug/L
|	Se	82	1.997	0.00	-0.0737	0.083	112.805	ug/L
⌊	Rb	85	14.333	-0.00				mg/L
	Y	89	193010.910	-5914.57				ug/L
	Rh	103	5.667	-3.67				ug/L
⌈	Mo	98	156.418	0.00	0.0748	0.024	32.387	ug/L
|	Ag	107	29.667	0.00	-0.0153	0.001	9.629	ug/L
|	Cd	114	1.530	-0.00	0.0111	0.002	19.220	ug/L
|>	In	115	249449.033	249449.03				ug/L
|	Sn	118	1313.153	-0.00	-0.0536	0.024	45.438	ug/L
⌊	Sb	123	282.165	0.00	0.1050	0.006	5.931	ug/L
⌈	Ba	135	9.000	-0.00	-0.0166	0.003	18.620	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	312865.026	312865.03				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	33.334	0.00	0.0031	0.001	24.250	ug/L
|	Tl	205	70.007	0.00	-0.0303	0.001	2.170	ug/L
|	Pb	206	1213.419	-0.00	-0.1336	0.003	2.616	ug/L
|	Pb	207	1047.732	-0.00	-0.1097	0.002	1.398	ug/L
|	Pb	208	4915.530	-0.01	-0.1249	0.005	3.759	ug/L
|	U	238	62.001	0.00	-0.0110	0.000	4.062	ug/L
⌊>	Bi	209	368245.142	368245.14				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 16:22:04
Page 1

Approved: November 24, 2010

Na	23	13777.545	0.01	-0.0107	0.000	1.670	mg/L
Mg	24	366.710	0.00	-0.0158	0.000	0.032	mg/L
K	39	451390.457	-0.01	-0.0140	0.000	2.879	mg/L
Ca	43	173.352	-0.00	-0.0067	0.003	40.141	mg/L
Fe	54	49329.024	-0.00	-0.0114	0.003	24.588	mg/L
Fe	57	6419.369	-0.00	-0.0076	0.001	12.212	mg/L
> Sc-1	45	282552.967	282552.97				mg/L
Cl	35	27583.992	-3816.56				mg/L
Kr	83	38.667	2.67				mg/L
Br	81	5762.995	-615.71				mg/L
P	31	9650.078	134.19				mg/L
S	34	178335.534	-6541.41				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		98.299			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		99.536			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		100.168			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.135			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 16:22:04
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 16:22:04
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011062801

Sample Date/Time: Tuesday, November 23, 2010 16:26:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 17
Method File: C:\elandata\Method\6020a.mth
Sample Description: 100

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26485.031	0.01				ug/L
|	Be	9	8.667	0.00	0.0314	0.016	51.395	ug/L
|	Al	27	2017970.920	6.99	338.6520	8.045	2.376	ug/L
⌊>	Sc	45	287696.705	287696.71				ug/L
⌈	Ti	49	1080.167	0.00	1.7345	0.165	9.512	ug/L
|	V	51	-609.654	-0.01	-0.3516	0.085	24.248	ug/L
|	Cr	52	167752.349	0.48	20.0066	0.317	1.586	ug/L
|	Cr	53	19066.736	0.06	20.0995	0.639	3.177	ug/L
|	Mn	55	86961.688	0.26	6.7705	0.117	1.722	ug/L
|	Co	59	712.699	0.00	0.0491	0.002	3.200	ug/L
|	Ni	60	2710.728	0.01	1.2779	0.016	1.261	ug/L
|	Cu	65	10690.152	0.03	5.4600	0.072	1.314	ug/L
|	Zn	66	74173.475	0.22	67.2773	0.969	1.440	ug/L
|>	Ge	72	330240.445	330240.44				ug/L
|	As	75	907.479	0.00	1.4714	0.064	4.352	ug/L
|	Se	77	76.675	0.00	0.4986	0.731	146.603	ug/L
|	Se	82	10.383	0.00	0.0506	0.051	99.821	ug/L
⌊	Rb	85	106.668	0.00				mg/L
	Y	89	193880.672	-5044.81				ug/L
	Rh	103	10.000	0.67				ug/L
⌈	Mo	98	260.312	0.00	0.1434	0.014	10.006	ug/L
|	Ag	107	206.004	0.00	0.0422	0.006	13.997	ug/L
|	Cd	114	680.131	0.00	0.8695	0.059	6.816	ug/L
|>	In	115	251092.552	251092.55				ug/L
|	Sn	118	2807.727	0.01	0.4849	0.005	0.934	ug/L
⌊	Sb	123	274.582	0.00	0.1013	0.005	5.163	ug/L
⌈	Ba	135	7202.999	0.02	5.5996	0.068	1.219	ug/L
|	Ce	140	6652.877	0.02				ug/L
⌊>	Tb	159	317550.604	317550.60				ug/L
⌈	Ho	165	70.007	0.00				ug/L
|	Tl	203	173.337	0.00	0.0279	0.003	11.536	ug/L
|	Tl	205	430.052	0.00	-0.0041	0.002	42.136	ug/L
|	Pb	206	64208.466	0.17	13.5684	0.247	1.820	ug/L
|	Pb	207	52704.385	0.14	12.2943	0.106	0.861	ug/L
|	Pb	208	249814.486	0.65	12.8226	0.154	1.204	ug/L
|	U	238	1309.099	0.00	0.0318	0.002	5.072	ug/L
⌊>	Bi	209	373010.124	373010.12				ug/L

Sample ID: L1011062801
Report Date/Time: Tuesday, November 23, 2010 16:28:49
Page 1

Approved: November 24, 2010

Na	23	656264.342	2.24	0.1297	0.000	0.377	mg/L	
Mg	24	653027.104	2.27	0.2173	0.007	3.383	mg/L	
K	39	688731.702	0.79	0.0155	0.001	8.694	mg/L	
Ca	43	34081.429	0.12	1.7381	0.057	3.270	mg/L	
Fe	54	371818.074	1.12	0.6473	0.014	2.240	mg/L	
Fe	57	138763.336	0.46	0.5638	0.012	2.215	mg/L	
> Sc-1	45	287696.705	287696.71				mg/L	
Cl	35	42325.441	10924.88				mg/L	
Kr	83	32.667	-3.33				mg/L	
Br	81	6464.756	86.05				mg/L	
P	31	54901.692	45385.80				mg/L	
S	34	185605.976	729.03				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		99.723			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		100.192			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		101.668			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		104.470			
Na	23					

Sample ID: L1011062801
Report Date/Time: Tuesday, November 23, 2010 16:28:49
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011062801
Report Date/Time: Tuesday, November 23, 2010 16:28:49
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011062801PS WG349368-01

Sample Date/Time: Tuesday, November 23, 2010 16:33:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 100

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26802.685	0.01				ug/L
|	Be	9	15700.991	0.05	54.8242	2.730	4.979	ug/L
|	Al	27	2472229.666	8.63	417.8989	5.225	1.250	ug/L
⌊>	Sc	45	285777.910	285777.91				ug/L
⌈	Ti	49	1236.867	0.00	1.9609	0.160	8.183	ug/L
|	V	51	469764.070	1.39	47.7992	1.026	2.147	ug/L
|	Cr	52	579860.199	1.70	70.8104	0.760	1.073	ug/L
|	Cr	53	68984.051	0.20	72.2864	1.955	2.704	ug/L
|	Mn	55	753691.734	2.25	57.9869	1.272	2.194	ug/L
|	Co	59	508594.389	1.52	49.9135	0.426	0.852	ug/L
|	Ni	60	109486.869	0.33	51.6358	0.768	1.487	ug/L
|	Cu	65	111125.812	0.33	56.5421	0.578	1.021	ug/L
|	Zn	66	133331.303	0.39	120.1754	1.557	1.295	ug/L
| >	Ge	72	335457.173	335457.17				ug/L
|	As	75	35814.462	0.11	51.5758	1.176	2.280	ug/L
|	Se	77	2577.257	0.01	45.8633	1.926	4.200	ug/L
|	Se	82	3304.345	0.01	48.5058	0.539	1.112	ug/L
⌊	Rb	85	117.669	0.00				mg/L
	Y	89	195913.488	-3012.00				ug/L
	Rh	103	24.334	15.00				ug/L
⌈	Mo	98	263.056	0.00	0.1424	0.006	4.530	ug/L
|	Ag	107	158037.006	0.62	50.7346	0.719	1.417	ug/L
|	Cd	114	42084.857	0.16	52.4162	0.473	0.903	ug/L
| >	In	115	255104.654	255104.65				ug/L
|	Sn	118	2844.805	0.01	0.4822	0.027	5.509	ug/L
⌊	Sb	123	136435.827	0.53	51.1874	0.727	1.420	ug/L
⌈	Ba	135	71966.762	0.22	55.3541	0.836	1.510	ug/L
|	Ce	140	6762.963	0.02				ug/L
⌊>	Tb	159	322209.832	322209.83				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	283161.529	0.74	49.2155	1.116	2.268	ug/L
|	Tl	205	699652.947	1.83	49.6434	1.769	3.564	ug/L
|	Pb	206	306350.657	0.80	64.6174	2.037	3.152	ug/L
|	Pb	207	265077.698	0.69	61.7365	0.810	1.312	ug/L
|	Pb	208	1230416.935	3.20	63.0806	1.401	2.221	ug/L
|	U	238	1534265.956	4.01	51.3132	0.768	1.496	ug/L
⌊>	Bi	209	382465.562	382465.56				ug/L

Sample ID: L1011062801PS WG349368-01
Report Date/Time: Tuesday, November 23, 2010 16:35:34
Page 1

Approved: November 24, 2010

Na	23	733149.128	2.53	0.1477	0.007	4.563	mg/L
Mg	24	731949.293	2.56	0.2474	0.009	3.657	mg/L
K	39	700421.017	0.84	0.0176	0.002	14.108	mg/L
Ca	43	37376.836	0.13	1.9207	0.039	2.011	mg/L
Fe	54	404960.338	1.24	0.7212	0.027	3.709	mg/L
Fe	57	152488.982	0.51	0.6277	0.017	2.764	mg/L
Sc-1	45	285777.910	285777.91				mg/L
Cl	35	44589.194	13188.64				mg/L
Kr	83	28.000	-8.00				mg/L
Br	81	6552.814	174.11				mg/L
P	31	60106.948	50591.06				mg/L
S	34	176765.552	-8111.40				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.298			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		101.793			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		103.160			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		107.118			
Na	23					

Sample ID: L1011062801PS WG349368-01
Report Date/Time: Tuesday, November 23, 2010 16:35:34
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011062801SDL WG349368-02

Sample Date/Time: Tuesday, November 23, 2010 16:40:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 19
Method File: C:\elandata\Method\6020a.mth
Sample Description: 500

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25566.179	0.01				ug/L
|	Be	9	4.000	-0.00	0.0150	0.014	90.077	ug/L
|	Al	27	534854.992	1.84	89.0880	4.212	4.728	ug/L
⌊>	Sc	45	288177.583	288177.58				ug/L
⌈	Ti	49	236.693	0.00	0.3606	0.049	13.451	ug/L
|	V	51	2157.085	-0.00	-0.0650	0.011	16.360	ug/L
|	Cr	52	40392.153	0.10	3.9439	0.062	1.578	ug/L
|	Cr	53	3884.478	0.01	3.8677	0.227	5.858	ug/L
|	Mn	55	17992.357	0.05	1.3751	0.036	2.645	ug/L
|	Co	59	300.674	0.00	0.0079	0.002	20.638	ug/L
|	Ni	60	661.362	0.00	0.2953	0.015	5.056	ug/L
|	Cu	65	2238.940	0.01	1.0845	0.027	2.446	ug/L
|	Zn	66	16915.467	0.05	14.1862	0.343	2.416	ug/L
|>	Ge	72	330849.295	330849.30				ug/L
|	As	75	115.235	0.00	0.3152	0.067	21.404	ug/L
|	Se	77	60.006	0.00	0.1950	0.490	251.385	ug/L
|	Se	82	2.041	0.00	-0.0734	0.348	474.846	ug/L
⌊	Rb	85	37.667	0.00				mg/L
	Y	89	194760.956	-4164.53				ug/L
	Rh	103	5.000	-4.33				ug/L
⌈	Mo	98	72.380	0.00	0.0173	0.005	28.966	ug/L
|	Ag	107	62.334	0.00	-0.0048	0.003	56.131	ug/L
|	Cd	114	137.785	0.00	0.1823	0.025	13.705	ug/L
|>	In	115	252908.268	252908.27				ug/L
|	Sn	118	2404.562	0.00	0.3333	0.158	47.460	ug/L
⌊	Sb	123	379.964	0.00	0.1404	0.010	7.151	ug/L
⌈	Ba	135	1426.783	0.00	1.1010	0.043	3.863	ug/L
|	Ce	140	1383.568	0.00				ug/L
⌊>	Tb	159	314535.165	314535.17				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	75.334	0.00	0.0106	0.002	18.931	ug/L
|	Tl	205	120.013	0.00	-0.0266	0.001	4.614	ug/L
|	Pb	206	13991.922	0.03	2.6802	0.022	0.836	ug/L
|	Pb	207	11478.034	0.03	2.4259	0.047	1.939	ug/L
|	Pb	208	54159.009	0.13	2.5107	0.025	0.988	ug/L
|	U	238	329.675	0.00	-0.0017	0.001	56.657	ug/L
⌊>	Bi	209	368486.452	368486.45				ug/L

Approved: November 24, 2010

⌈	Na	23	152005.313	0.49	0.0194	0.001	6.389	mg/L
|	Mg	24	135251.983	0.47	0.0323	0.001	2.651	mg/L
|	K	39	527124.770	0.22	-0.0054	0.003	49.265	mg/L
|	Ca	43	6866.378	0.02	0.3372	0.019	5.595	mg/L
|	Fe	54	112550.511	0.21	0.1159	0.006	4.808	mg/L
|	Fe	57	33255.222	0.09	0.1077	0.007	6.236	mg/L
⌊>	Sc-1	45	288177.583	288177.58				mg/L
	Cl	35	37310.181	5909.62				mg/L
	Kr	83	33.667	-2.33				mg/L
	Br	81	6231.275	-147.43				mg/L
	P	31	19478.337	9962.45				mg/L
	S	34	195358.193	10481.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.907			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.917			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.703			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.203			
⌈	Na	23					

Sample ID: L1011062801SDL WG349368-02
Report Date/Time: Tuesday, November 23, 2010 16:42:20
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 23, 2010 16:46:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23845.095	0.00				ug/L
|	Be	9	14712.822	0.05	51.9607	2.479	4.772	ug/L
|	Al	27	296757.316	1.03	50.0630	1.217	2.431	ug/L
⌊>	Sc	45	282537.796	282537.80				ug/L
⌈	Ti	49	56836.731	0.18	94.6809	0.637	0.672	ug/L
|	V	51	454729.140	1.40	48.0583	0.319	0.664	ug/L
|	Cr	52	383510.758	1.16	48.2912	0.643	1.331	ug/L
|	Cr	53	44446.332	0.14	48.2803	0.377	0.781	ug/L
|	Mn	55	607916.207	1.88	48.5784	1.208	2.487	ug/L
|	Co	59	482368.617	1.49	49.1756	1.244	2.530	ug/L
|	Ni	60	100775.142	0.31	49.3721	1.701	3.445	ug/L
|	Cu	65	94064.056	0.29	49.7072	1.168	2.350	ug/L
|	Zn	66	55137.475	0.17	50.7894	0.658	1.296	ug/L
|>	Ge	72	322938.311	322938.31				ug/L
|	As	75	33237.017	0.10	49.7182	0.424	0.853	ug/L
|	Se	77	2620.606	0.01	48.5125	3.415	7.039	ug/L
|	Se	82	3221.639	0.01	49.1241	0.375	0.763	ug/L
⌊	Rb	85	1276.428	0.00				mg/L
	Y	89	191114.569	-7810.91				ug/L
	Rh	103	18.334	9.00				ug/L
⌈	Mo	98	143288.319	0.59	99.0838	0.890	0.898	ug/L
|	Ag	107	149222.028	0.61	50.2796	0.458	0.911	ug/L
|	Cd	114	39094.380	0.16	51.1119	0.673	1.318	ug/L
|>	In	115	243045.926	243045.93				ug/L
|	Sn	118	135172.620	0.55	50.0900	0.433	0.865	ug/L
⌊	Sb	123	129501.364	0.53	50.9968	0.387	0.760	ug/L
⌈	Ba	135	61120.178	0.20	49.0449	1.282	2.614	ug/L
|	Ce	140	70.007	0.00				ug/L
⌊>	Tb	159	308870.137	308870.14				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	261934.183	0.74	49.4739	0.605	1.223	ug/L
|	Tl	205	646000.014	1.84	49.7968	1.489	2.990	ug/L
|	Pb	206	216142.754	0.61	49.4397	0.581	1.175	ug/L
|	Pb	207	197604.801	0.56	49.9425	0.490	0.981	ug/L
|	Pb	208	896703.052	2.53	49.8730	0.278	0.557	ug/L
|	U	238	1425316.597	4.05	51.8009	0.433	0.836	ug/L
⌊>	Bi	209	351896.069	351896.07				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 16:49:05
Page 1

Approved: November 24, 2010

Na	23	22301017.698	78.93	4.9533	0.178	3.590	mg/L
Mg	24	13913902.631	49.27	5.0448	0.133	2.632	mg/L
K	39	38043936.300	133.09	4.9138	0.097	1.972	mg/L
Ca	43	94699.281	0.33	4.9469	0.066	1.338	mg/L
Fe	54	2473759.011	8.58	5.0468	0.108	2.144	mg/L
Fe	57	1237437.515	4.36	5.4103	0.118	2.177	mg/L
> Sc-1	45	282537.796	282537.80				mg/L
Cl	35	31781.094	380.54				mg/L
Kr	83	29.334	-6.67				mg/L
Br	81	5888.402	-490.30				mg/L
P	31	9736.752	220.86				mg/L
S	34	191800.102	6923.15				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	96.117				
Cr	52	96.582				
Cr	53					
Mn	55	97.157				
Co	59	98.351				
Ni	60	98.744				
Cu	65	99.414				
Zn	66	101.579				
> Ge	72		97.518			
As	75	99.436				
Se	77					
Se	82	98.248				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.559				
Cd	114	102.224				
> In	115		96.981			
Sn	118					
Sb	123	101.994				
Ba	135	98.090				
Ce	140					
> Tb	159		98.889			
Ho	165					
Tl	203	98.948				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.746				
U	238	103.602				
> Bi	209		98.556			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 16:49:05
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 16:49:05

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 23, 2010 16:53:39
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25131.567	0.01				ug/L
|	Be	9	7.333	-0.00	0.0267	0.010	38.007	ug/L
|	Al	27	5851.719	-0.00	0.2144	0.082	38.085	ug/L
⌊>	Sc	45	286325.945	286325.94				ug/L
⌈	Ti	49	66.674	0.00	0.0849	0.040	47.351	ug/L
|	V	51	2702.076	-0.00	-0.0061	0.007	121.511	ug/L
|	Cr	52	8495.692	-0.00	-0.0598	0.005	8.210	ug/L
|	Cr	53	226.692	-0.00	-0.0302	0.014	47.033	ug/L
|	Mn	55	315.341	0.00	-0.0042	0.000	9.596	ug/L
|	Co	59	196.337	0.00	-0.0023	0.001	29.381	ug/L
|	Ni	60	21.667	0.00	-0.0107	0.001	8.417	ug/L
|	Cu	65	90.001	-0.00	-0.0251	0.005	18.794	ug/L
|	Zn	66	1367.440	-0.00	-0.1842	0.012	6.729	ug/L
|>	Ge	72	328120.567	328120.57				ug/L
|	As	75	-134.285	-0.00	-0.0500	0.051	101.886	ug/L
|	Se	77	20.002	-0.00	-0.5404	0.320	59.248	ug/L
|	Se	82	1.371	-0.00	-0.0845	0.153	180.538	ug/L
⌊	Rb	85	9.667	-0.00				mg/L
	Y	89	197439.749	-1485.73				ug/L
	Rh	103	7.667	-1.67				ug/L
⌈	Mo	98	155.829	0.00	0.0735	0.019	25.930	ug/L
|	Ag	107	21.667	-0.00	-0.0179	0.002	10.482	ug/L
|	Cd	114	6.423	-0.00	0.0173	0.007	40.757	ug/L
|>	In	115	251135.419	251135.42				ug/L
|	Sn	118	1389.697	-0.00	-0.0293	0.009	31.795	ug/L
⌊	Sb	123	272.999	0.00	0.1007	0.004	3.746	ug/L
⌈	Ba	135	15.000	0.00	-0.0119	0.004	30.543	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	316049.127	316049.13				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	28.000	0.00	0.0022	0.001	36.839	ug/L
|	Tl	205	73.341	0.00	-0.0299	0.003	10.472	ug/L
|	Pb	206	1152.411	-0.00	-0.1424	0.002	1.526	ug/L
|	Pb	207	966.723	-0.00	-0.1250	0.001	1.039	ug/L
|	Pb	208	4556.789	-0.01	-0.1396	0.003	1.829	ug/L
|	U	238	66.001	0.00	-0.0108	0.000	1.808	ug/L
⌊>	Bi	209	361446.788	361446.79				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 16:55:48
Page 1

Approved: November 24, 2010

Na	23	12976.382	0.01	-0.0109	0.000	0.261	mg/L
Mg	24	476.726	0.00	-0.0157	0.000	0.140	mg/L
K	39	462352.701	0.01	-0.0133	0.002	13.385	mg/L
Ca	43	236.693	0.00	-0.0035	0.002	43.706	mg/L
Fe	54	49300.908	-0.00	-0.0128	0.003	24.985	mg/L
Fe	57	6736.279	-0.00	-0.0066	0.002	25.000	mg/L
Sc-1	45	286325.945	286325.94				mg/L
Cl	35	26606.024	-4794.53				mg/L
Kr	83	34.000	-2.00				mg/L
Br	81	6129.212	-249.49				mg/L
P	31	8687.121	-828.77				mg/L
S	34	184256.973	-619.97				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		99.083			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		100.209			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		101.187			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		101.231			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 16:55:48

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 16:55:48

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: PBS C7 WG349024-02

Sample Date/Time: Tuesday, November 23, 2010 17:00:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 20
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25215.637	0.01				ug/L
|	Be	9	8.667	0.00	0.0320	0.015	47.754	ug/L
|	Al	27	7552.879	0.01	0.5185	0.205	39.515	ug/L
⌊>	Sc	45	283705.414	283705.41				ug/L
⌈	Ti	49	50.005	-0.00	0.0579	0.016	27.773	ug/L
|	V	51	2784.905	0.00	0.0030	0.007	237.500	ug/L
|	Cr	52	8622.135	-0.00	-0.0421	0.023	54.723	ug/L
|	Cr	53	226.692	-0.00	-0.0299	0.071	237.150	ug/L
|	Mn	55	520.685	0.00	0.0120	0.001	6.893	ug/L
|	Co	59	220.671	0.00	0.0002	0.001	725.653	ug/L
|	Ni	60	47.667	0.00	0.0019	0.006	320.622	ug/L
|	Cu	65	99.001	0.00	-0.0203	0.003	14.628	ug/L
|	Zn	66	2849.435	0.00	1.2015	0.048	3.975	ug/L
|>	Ge	72	327642.373	327642.37				ug/L
|	As	75	-155.730	-0.00	-0.0815	0.038	46.874	ug/L
|	Se	77	70.007	0.00	0.3925	0.496	126.278	ug/L
|	Se	82	-8.006	-0.00	-0.2242	0.116	51.547	ug/L
⌊	Rb	85	8.667	-0.00				mg/L
	Y	89	198021.043	-904.44				ug/L
	Rh	103	6.333	-3.00				ug/L
⌈	Mo	98	41.160	0.00	-0.0032	0.004	122.255	ug/L
|	Ag	107	19.667	-0.00	-0.0186	0.002	8.914	ug/L
|	Cd	114	6.439	-0.00	0.0173	0.003	14.971	ug/L
|>	In	115	250385.631	250385.63				ug/L
|	Sn	118	1962.860	0.00	0.1808	0.038	21.089	ug/L
⌊	Sb	123	97.789	0.00	0.0340	0.004	10.861	ug/L
⌈	Ba	135	16.000	0.00	-0.0108	0.003	31.498	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	308789.832	308789.83				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	47.001	0.00	0.0057	0.002	28.316	ug/L
|	Tl	205	93.343	0.00	-0.0284	0.003	9.147	ug/L
|	Pb	206	1169.080	-0.00	-0.1387	0.006	4.617	ug/L
|	Pb	207	1017.395	-0.00	-0.1125	0.008	7.413	ug/L
|	Pb	208	4689.480	-0.01	-0.1325	0.000	0.278	ug/L
|	U	238	20.000	-0.00	-0.0124	0.000	0.734	ug/L
⌊>	Bi	209	361573.060	361573.06				ug/L

Sample ID: PBS C7 WG349024-02
Report Date/Time: Tuesday, November 23, 2010 17:02:34
Page 1

Approved: November 24, 2010

Na	23	16064.519	0.02	-0.0102	0.000	2.830	mg/L
Mg	24	1280.211	0.00	-0.0154	0.000	0.241	mg/L
K	39	477640.962	0.08	-0.0107	0.002	22.736	mg/L
Ca	43	176.686	0.00	-0.0065	0.004	57.667	mg/L
Fe	54	47277.396	-0.01	-0.0160	0.004	23.527	mg/L
Fe	57	6869.713	-0.00	-0.0057	0.001	18.155	mg/L
Sc-1	45	283705.414	283705.41				mg/L
Cl	35	31040.104	-360.45				mg/L
Kr	83	39.000	3.00				mg/L
Br	81	6143.890	-234.81				mg/L
P	31	8903.966	-611.92				mg/L
S	34	185000.880	123.93				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		98.939			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		99.910			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		98.863			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		101.267			
Na	23					

Sample ID: PBS C7 WG349024-02
Report Date/Time: Tuesday, November 23, 2010 17:02:34
Page 2

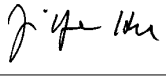
Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 24, 2010



Method 6020 - Summary Report

Sample ID: LCSS C7 WG349024-03

Sample Date/Time: Tuesday, November 23, 2010 17:07:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25967.107	0.00				ug/L
|	Be	9	7352.704	0.02	24.5517	0.500	2.036	ug/L
|	Al	27	157006.333	0.51	24.6809	0.812	3.289	ug/L
⌊>	Sc	45	298611.136	298611.14				ug/L
⌈	Ti	49	43.338	-0.00	0.0451	0.009	20.057	ug/L
|	V	51	230421.466	0.68	23.2178	0.218	0.939	ug/L
|	Cr	52	201291.396	0.57	23.7553	0.140	0.589	ug/L
|	Cr	53	23032.131	0.07	23.8687	0.272	1.142	ug/L
|	Mn	55	316024.990	0.94	24.2147	0.305	1.258	ug/L
|	Co	59	243919.310	0.72	23.8482	0.483	2.026	ug/L
|	Ni	60	50852.501	0.15	23.8902	0.321	1.345	ug/L
|	Cu	65	47605.858	0.14	24.1005	0.136	0.563	ug/L
|	Zn	66	28799.367	0.08	24.7251	0.139	0.562	ug/L
|>	Ge	72	336554.390	336554.39				ug/L
|	As	75	16629.163	0.05	23.9447	0.182	0.759	ug/L
|	Se	77	1373.567	0.00	23.9449	4.300	17.956	ug/L
|	Se	82	1589.824	0.00	23.2056	0.255	1.097	ug/L
⌊	Rb	85	18.000	0.00				mg/L
	Y	89	202527.078	3601.59				ug/L
	Rh	103	12.667	3.33				ug/L
⌈	Mo	98	77.713	0.00	0.0201	0.005	26.446	ug/L
|	Ag	107	77788.524	0.30	24.8634	0.210	0.845	ug/L
|	Cd	114	20294.056	0.08	25.1853	0.254	1.010	ug/L
|>	In	115	256082.174	256082.17				ug/L
|	Sn	118	1221.808	-0.00	-0.0987	0.005	5.427	ug/L
⌊	Sb	123	65066.526	0.25	24.3206	0.698	2.871	ug/L
⌈	Ba	135	30650.543	0.10	23.7264	0.200	0.844	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	319956.438	319956.44				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	133318.888	0.36	24.1071	0.592	2.454	ug/L
|	Tl	205	332446.219	0.90	24.5186	0.620	2.530	ug/L
|	Pb	206	112983.036	0.30	24.5450	0.852	3.471	ug/L
|	Pb	207	99672.930	0.27	23.9289	0.321	1.340	ug/L
|	Pb	208	460902.315	1.23	24.3459	0.547	2.248	ug/L
|	U	238	709683.463	1.93	24.6850	0.202	0.820	ug/L
⌊>	Bi	209	367611.947	367611.95				ug/L

Sample ID: LCSS C7 WG349024-03
Report Date/Time: Tuesday, November 23, 2010 17:09:20
Page 1

Approved: November 24, 2010

⌈	Na	23	19009.957	0.03	-0.0098	0.000	1.150	mg/L
|	Mg	24	913.467	0.00	-0.0156	0.000	0.280	mg/L
|	K	39	457234.246	-0.08	-0.0164	0.001	7.965	mg/L
|	Ca	43	246.694	0.00	-0.0035	0.001	39.328	mg/L
|	Fe	54	50273.421	-0.01	-0.0151	0.002	11.397	mg/L
|	Fe	57	6322.631	-0.00	-0.0095	0.001	9.281	mg/L
⌊>	Sc-1	45	298611.136	298611.14				mg/L
	Cl	35	30339.960	-1060.60				mg/L
	Kr	83	37.334	1.33				mg/L
	Br	81	6009.139	-369.56				mg/L
	P	31	10029.705	513.82				mg/L
	S	34	174943.684	-9933.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.630			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.183			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.438			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.958			
⌈	Na	23					

Sample ID: LCSS C7 WG349024-03
Report Date/Time: Tuesday, November 23, 2010 17:09:20
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011054301

Sample Date/Time: Tuesday, November 23, 2010 17:13:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 22
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26434.927	0.01				ug/L
|	Be	9	42.667	0.00	0.1483	0.026	17.559	ug/L
|	Al	27	8259304.286	28.55	1381.7595	68.839	4.982	ug/L
⌊>	Sc	45	289189.770	289189.77				ug/L
⌈	Ti	49	31462.589	0.09	49.8110	1.986	3.988	ug/L
|	V	51	30324.568	0.08	2.7752	0.007	0.245	ug/L
|	Cr	52	30399.108	0.06	2.5862	0.049	1.895	ug/L
|	Cr	53	2830.684	0.01	2.6655	0.127	4.763	ug/L
|	Mn	55	246217.413	0.72	18.6804	0.222	1.187	ug/L
|	Co	59	11468.689	0.03	1.0896	0.022	2.039	ug/L
|	Ni	60	3751.408	0.01	1.7261	0.030	1.755	ug/L
|	Cu	65	2772.079	0.01	1.3223	0.017	1.267	ug/L
|	Zn	66	9207.996	0.02	6.8334	0.124	1.814	ug/L
|>	Ge	72	339791.460	339791.46				ug/L
|	As	75	208.820	0.00	0.4438	0.053	11.991	ug/L
|	Se	77	66.674	0.00	0.2827	0.445	157.356	ug/L
|	Se	82	7.333	0.00	0.0032	0.134	4168.792	ug/L
⌊	Rb	85	28400.892	0.08				mg/L
	Y	89	208716.425	9790.94				ug/L
	Rh	103	7.333	-2.00				ug/L
⌈	Mo	98	84.604	0.00	0.0244	0.006	26.147	ug/L
|	Ag	107	53.667	0.00	-0.0079	0.003	41.277	ug/L
|	Cd	114	-0.347	-0.00	0.0087	0.006	64.559	ug/L
|>	In	115	257154.128	257154.13				ug/L
|	Sn	118	1452.239	-0.00	-0.0189	0.034	177.519	ug/L
⌊	Sb	123	214.832	0.00	0.0766	0.005	7.048	ug/L
⌈	Ba	135	8041.980	0.03	6.3222	0.131	2.073	ug/L
|	Ce	140	91617.034	0.29				ug/L
⌊>	Tb	159	314200.708	314200.71				ug/L
⌈	Ho	165	540.069	0.00				ug/L
|	Tl	203	243.339	0.00	0.0409	0.007	16.531	ug/L
|	Tl	205	660.088	0.00	0.0132	0.005	37.698	ug/L
|	Pb	206	8787.616	0.02	1.5316	0.074	4.801	ug/L
|	Pb	207	7322.086	0.02	1.4131	0.037	2.583	ug/L
|	Pb	208	34612.668	0.07	1.4621	0.067	4.575	ug/L
|	U	238	12631.102	0.03	0.4248	0.016	3.833	ug/L
⌊>	Bi	209	369047.458	369047.46				ug/L

Sample ID: L1011054301
Report Date/Time: Tuesday, November 23, 2010 17:16:07
Page 1

Approved: November 24, 2010

Na	23	209907.964	0.69	0.0319	0.001	3.292	mg/L	
Mg	24	1807175.574	6.25	0.6261	0.010	1.540	mg/L	
K	39	2960606.627	8.63	0.3059	0.004	1.431	mg/L	
Ca	43	2147.112	0.01	0.0942	0.004	4.526	mg/L	
Fe	54	1326992.971	4.41	2.5897	0.030	1.150	mg/L	
Fe	57	542508.764	1.85	2.2970	0.101	4.380	mg/L	
> Sc-1	45	289189.770	289189.77				mg/L	
Cl	35	45707.562	14307.01				mg/L	
Kr	83	38.334	2.33				mg/L	
Br	81	6891.708	513.00				mg/L	
P	31	12961.066	3445.18				mg/L	
S	34	194509.321	9632.37				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		102.607			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		102.611			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		100.596			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.360			
Na	23					

Sample ID: L1011054301
Report Date/Time: Tuesday, November 23, 2010 17:16:07
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011054301
Report Date/Time: Tuesday, November 23, 2010 17:16:07
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046825 WG349024-01

Sample Date/Time: Tuesday, November 23, 2010 17:20:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 23
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22792.623	-0.00				ug/L
|	Be	9	34.667	0.00	0.1211	0.035	28.781	ug/L
|	Al	27	8315877.321	28.77	1392.2652	51.455	3.696	ug/L
⌊>	Sc	45	288914.374	288914.37				ug/L
⌈	Ti	49	21668.953	0.07	35.2594	0.521	1.479	ug/L
|	V	51	49403.637	0.14	4.8440	0.026	0.536	ug/L
|	Cr	52	35498.253	0.08	3.3337	0.075	2.250	ug/L
|	Cr	53	3337.558	0.01	3.2897	0.166	5.053	ug/L
|	Mn	55	1954481.304	5.91	152.6757	1.938	1.269	ug/L
|	Co	59	17893.507	0.05	1.7613	0.009	0.532	ug/L
|	Ni	60	9677.778	0.03	4.6135	0.041	0.899	ug/L
|	Cu	65	8339.893	0.02	4.2408	0.050	1.176	ug/L
|	Zn	66	22397.278	0.06	19.2806	0.192	0.998	ug/L
|>	Ge	72	330462.593	330462.59				ug/L
|	As	75	474.030	0.00	0.8384	0.068	8.060	ug/L
|	Se	77	70.007	0.00	0.3771	0.627	166.376	ug/L
|	Se	82	7.331	0.00	0.0050	0.096	1926.872	ug/L
⌊	Rb	85	14035.984	0.04				mg/L
	Y	89	231658.818	32733.33				ug/L
	Rh	103	15.667	6.33				ug/L
⌈	Mo	98	165.980	0.00	0.0826	0.009	10.903	ug/L
|	Ag	107	71.334	0.00	-0.0012	0.003	251.997	ug/L
|	Cd	114	58.765	0.00	0.0850	0.022	25.582	ug/L
|>	In	115	245916.236	245916.24				ug/L
|	Sn	118	1623.065	0.00	0.0677	0.032	47.186	ug/L
⌊	Sb	123	74.745	0.00	0.0258	0.002	9.688	ug/L
⌈	Ba	135	20680.570	0.07	16.8150	0.239	1.422	ug/L
|	Ce	140	170294.690	0.56				ug/L
⌊>	Tb	159	304489.391	304489.39				ug/L
⌈	Ho	165	2367.184	0.01				ug/L
|	Tl	203	177.003	0.00	0.0311	0.001	3.930	ug/L
|	Tl	205	453.389	0.00	0.0002	0.001	549.329	ug/L
|	Pb	206	11336.536	0.03	2.2595	0.038	1.675	ug/L
|	Pb	207	9378.156	0.02	2.0654	0.039	1.910	ug/L
|	Pb	208	44336.809	0.11	2.1408	0.036	1.672	ug/L
|	U	238	5635.978	0.02	0.1954	0.003	1.676	ug/L
⌊>	Bi	209	345785.932	345785.93				ug/L

Sample ID: L1011046825 WG349024-01
Report Date/Time: Tuesday, November 23, 2010 17:22:50
Page 1

Approved: November 24, 2010

⌈	Na	23	379118.291	1.27	0.0688	0.001	1.629	mg/L
|	Mg	24	28641044.168	99.14	10.1675	0.303	2.978	mg/L
|	K	39	3513996.610	10.55	0.3772	0.006	1.552	mg/L
|	Ca	43	504646.716	1.75	25.8447	0.144	0.557	mg/L
|	Fe	54	2318728.099	7.85	4.6152	0.129	2.793	mg/L
|	Fe	57	1139323.883	3.92	4.8660	0.146	3.007	mg/L
⌊>	Sc-1	45	288914.374	288914.37				mg/L
	Cl	35	44743.880	13343.32				mg/L
	Kr	83	38.667	2.67				mg/L
	Br	81	6299.318	-79.39				mg/L
	P	31	99120.987	89605.10				mg/L
	S	34	212854.120	27977.17				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.790			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.127			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.486			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.845			
⌈	Na	23					

Sample ID: L1011046825 WG349024-01
Report Date/Time: Tuesday, November 23, 2010 17:22:50
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046826S WG349024-04

Sample Date/Time: Tuesday, November 23, 2010 17:27:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 24
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24029.085	-0.00				ug/L
|	Be	9	1586.126	0.01	5.1734	0.347	6.705	ug/L
|	Al	27	12065365.845	39.44	1908.6484	68.626	3.596	ug/L
⌊>	Sc	45	305840.537	305840.54				ug/L
⌈	Ti	49	24171.598	0.07	39.5038	0.911	2.306	ug/L
|	V	51	102982.491	0.30	10.4570	0.221	2.114	ug/L
|	Cr	52	81518.058	0.22	9.1729	0.077	0.845	ug/L
|	Cr	53	9041.658	0.03	9.4211	0.347	3.684	ug/L
|	Mn	55	2048269.704	6.22	160.6832	2.576	1.603	ug/L
|	Co	59	71150.626	0.22	7.0994	0.129	1.820	ug/L
|	Ni	60	22627.131	0.07	10.8613	0.168	1.549	ug/L
|	Cu	65	18842.599	0.06	9.7135	0.277	2.851	ug/L
|	Zn	66	25793.147	0.07	22.5262	0.276	1.225	ug/L
|>	Ge	72	329076.017	329076.02				ug/L
|	As	75	3961.148	0.01	5.9452	0.063	1.059	ug/L
|	Se	77	230.026	0.00	3.3402	1.423	42.613	ug/L
|	Se	82	355.049	0.00	5.2210	0.230	4.408	ug/L
⌊	Rb	85	21270.478	0.06				mg/L
	Y	89	236149.370	37223.89				ug/L
	Rh	103	17.667	8.33				ug/L
⌈	Mo	98	195.237	0.00	0.1003	0.008	8.373	ug/L
|	Ag	107	13915.817	0.06	4.5310	0.073	1.615	ug/L
|	Cd	114	3964.523	0.02	5.0414	0.131	2.592	ug/L
|>	In	115	250245.982	250245.98				ug/L
|	Sn	118	1100.727	-0.00	-0.1325	0.017	12.994	ug/L
⌊	Sb	123	320.293	0.00	0.1192	0.005	4.473	ug/L
⌈	Ba	135	37427.620	0.12	29.8233	0.490	1.644	ug/L
|	Ce	140	205129.748	0.66				ug/L
⌊>	Tb	159	310907.613	310907.61				ug/L
⌈	Ho	165	2480.556	0.01				ug/L
|	Tl	203	25534.149	0.07	4.8793	0.051	1.036	ug/L
|	Tl	205	63044.420	0.18	4.8886	0.117	2.384	ug/L
|	Pb	206	34876.731	0.10	7.7406	0.093	1.199	ug/L
|	Pb	207	29789.603	0.08	7.3131	0.089	1.219	ug/L
|	Pb	208	140309.443	0.38	7.5735	0.103	1.356	ug/L
|	U	238	141261.154	0.41	5.1855	0.044	0.854	ug/L
⌊>	Bi	209	347633.878	347633.88				ug/L

Sample ID: L1011046826S WG349024-04
Report Date/Time: Tuesday, November 23, 2010 17:29:34
Page 1

Approved: November 24, 2010

⌈	Na	23	422619.275	1.34	0.0731	0.000	0.633	mg/L
|	Mg	24	30596917.907	100.06	10.2627	0.269	2.625	mg/L
|	K	39	5140215.777	15.20	0.5492	0.012	2.248	mg/L
|	Ca	43	558348.690	1.83	27.0176	0.443	1.638	mg/L
|	Fe	54	2936266.262	9.43	5.5437	0.097	1.756	mg/L
|	Fe	57	1476025.830	4.80	5.9652	0.219	3.675	mg/L
⌊>	Sc-1	45	305840.537	305840.54				mg/L
	Cl	35	37007.691	5607.13				mg/L
	Kr	83	34.000	-2.00				mg/L
	Br	81	6040.491	-338.21				mg/L
	P	31	104102.517	94586.63				mg/L
	S	34	205287.361	20410.41				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.371			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.854			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.541			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.363			
⌈	Na	23					

Sample ID: L1011046826S WG349024-04
Report Date/Time: Tuesday, November 23, 2010 17:29:34
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011046826S WG349024-04
Report Date/Time: Tuesday, November 23, 2010 17:29:34
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046827SD WG349024-05

Sample Date/Time: Tuesday, November 23, 2010 17:34:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 25
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21807.209	-0.01				ug/L
|	Be	9	1366.760	0.00	4.6648	0.299	6.401	ug/L
|	Al	27	10489453.988	35.88	1736.6764	195.763	11.272	ug/L
⌊>	Sc	45	292208.791	292208.79				ug/L
⌈	Ti	49	23877.596	0.07	39.7044	2.601	6.552	ug/L
|	V	51	95178.582	0.29	9.8158	0.676	6.882	ug/L
|	Cr	52	72966.874	0.20	8.2526	0.566	6.857	ug/L
|	Cr	53	7937.287	0.02	8.3849	0.660	7.868	ug/L
|	Mn	55	1914939.007	5.92	152.8117	4.109	2.689	ug/L
|	Co	59	62531.469	0.19	6.3456	0.314	4.953	ug/L
|	Ni	60	19588.402	0.06	9.5637	0.555	5.805	ug/L
|	Cu	65	16488.427	0.05	8.6400	0.362	4.191	ug/L
|	Zn	66	23846.011	0.07	21.1022	1.129	5.350	ug/L
|>	Ge	72	323451.012	323451.01				ug/L
|	As	75	3537.782	0.01	5.4154	0.297	5.476	ug/L
|	Se	77	296.701	0.00	4.6745	1.032	22.067	ug/L
|	Se	82	311.317	0.00	4.6448	0.543	11.686	ug/L
⌊	Rb	85	19800.785	0.06				mg/L
	Y	89	230448.013	31522.53				ug/L
	Rh	103	13.000	3.67				ug/L
⌈	Mo	98	174.204	0.00	0.0887	0.013	14.331	ug/L
|	Ag	107	13180.481	0.05	4.3821	0.113	2.572	ug/L
|	Cd	114	3807.843	0.02	4.9471	0.357	7.209	ug/L
|>	In	115	245073.687	245073.69				ug/L
|	Sn	118	1429.036	0.00	-0.0023	0.023	970.635	ug/L
⌊	Sb	123	328.710	0.00	0.1251	0.007	5.765	ug/L
⌈	Ba	135	29358.023	0.10	23.8826	0.765	3.204	ug/L
|	Ce	140	178591.062	0.59				ug/L
⌊>	Tb	159	304439.440	304439.44				ug/L
⌈	Ho	165	2287.157	0.01				ug/L
|	Tl	203	24272.000	0.07	4.7372	0.082	1.722	ug/L
|	Tl	205	59911.721	0.18	4.7436	0.185	3.893	ug/L
|	Pb	206	30717.842	0.09	6.9230	0.417	6.018	ug/L
|	Pb	207	26085.603	0.07	6.5021	0.273	4.206	ug/L
|	Pb	208	122523.036	0.34	6.7127	0.359	5.344	ug/L
|	U	238	128477.191	0.38	4.8162	0.340	7.052	ug/L
⌊>	Bi	209	340359.743	340359.74				ug/L

Sample ID: L1011046827SD WG349024-05
Report Date/Time: Tuesday, November 23, 2010 17:36:18
Page 1

Approved: November 24, 2010

⌈	Na	23	380298.297	1.26	0.0681	0.003	4.402	mg/L
|	Mg	24	26018177.847	89.05	9.1317	0.708	7.748	mg/L
|	K	39	4930917.361	15.27	0.5517	0.014	2.606	mg/L
|	Ca	43	469258.860	1.61	23.7613	0.926	3.897	mg/L
|	Fe	54	2497330.105	8.37	4.9231	0.306	6.210	mg/L
|	Fe	57	1263920.363	4.30	5.3426	0.388	7.257	mg/L
⌊>	Sc-1	45	292208.791	292208.79				mg/L
	Cl	35	34420.521	3019.96				mg/L
	Kr	83	41.334	5.33				mg/L
	Br	81	6109.199	-269.50				mg/L
	P	31	94927.547	85411.66				mg/L
	S	34	218235.147	33358.20				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.673			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.791			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.470			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.325			
⌈	Na	23					

Sample ID: L1011046827SD WG349024-05
Report Date/Time: Tuesday, November 23, 2010 17:36:18
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011046827SD WG349024-05
Report Date/Time: Tuesday, November 23, 2010 17:36:18
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046843

Sample Date/Time: Tuesday, November 23, 2010 17:40:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24513.366	-0.00				ug/L
|	Be	9	51.333	0.00	0.1730	0.037	21.674	ug/L
|	Al	27	7573131.978	25.42	1230.4080	38.544	3.133	ug/L
⌊>	Sc	45	297752.419	297752.42				ug/L
⌈	Ti	49	11164.013	0.03	17.8714	0.613	3.431	ug/L
|	V	51	34163.494	0.09	3.2051	0.083	2.576	ug/L
|	Cr	52	35235.339	0.08	3.2314	0.157	4.872	ug/L
|	Cr	53	3417.592	0.01	3.3176	0.084	2.522	ug/L
|	Mn	55	798671.768	2.38	61.3930	1.316	2.144	ug/L
|	Co	59	15120.908	0.04	1.4614	0.030	2.071	ug/L
|	Ni	60	8686.191	0.03	4.0728	0.015	0.374	ug/L
|	Cu	65	15394.661	0.05	7.7643	0.157	2.025	ug/L
|	Zn	66	29351.976	0.08	25.2924	0.428	1.694	ug/L
|>	Ge	72	335786.716	335786.72				ug/L
|	As	75	704.452	0.00	1.1578	0.030	2.617	ug/L
|	Se	77	53.339	-0.00	0.0658	0.834	1267.513	ug/L
|	Se	82	15.994	0.00	0.1316	0.076	57.387	ug/L
⌊	Rb	85	13284.620	0.04				mg/L
	Y	89	220925.676	22000.19				ug/L
	Rh	103	13.000	3.67				ug/L
⌈	Mo	98	179.090	0.00	0.0886	0.004	4.043	ug/L
|	Ag	107	103.335	0.00	0.0086	0.003	34.392	ug/L
|	Cd	114	42.357	0.00	0.0625	0.006	9.291	ug/L
|>	In	115	252072.648	252072.65				ug/L
|	Sn	118	1462.507	0.00	-0.0049	0.013	261.314	ug/L
⌊	Sb	123	43.912	-0.00	0.0133	0.002	15.534	ug/L
⌈	Ba	135	16225.315	0.05	12.8772	0.193	1.501	ug/L
|	Ce	140	94702.410	0.30				ug/L
⌊>	Tb	159	311823.111	311823.11				ug/L
⌈	Ho	165	1323.555	0.00				ug/L
|	Tl	203	252.672	0.00	0.0446	0.002	5.225	ug/L
|	Tl	205	600.078	0.00	0.0107	0.003	24.506	ug/L
|	Pb	206	38788.138	0.10	8.5170	0.183	2.150	ug/L
|	Pb	207	32012.149	0.09	7.7605	0.119	1.529	ug/L
|	Pb	208	152208.464	0.41	8.1179	0.137	1.690	ug/L
|	U	238	3836.441	0.01	0.1259	0.003	2.382	ug/L
⌊>	Bi	209	352995.629	352995.63				ug/L

Sample ID: L1011046843
Report Date/Time: Tuesday, November 23, 2010 17:43:02
Page 1

Approved: November 24, 2010

⌈	Na	23	481880.079	1.58	0.0881	0.004	4.522	mg/L
|	Mg	24	12051995.572	40.50	4.1447	0.201	4.847	mg/L
|	K	39	2338978.421	6.25	0.2179	0.012	5.670	mg/L
|	Ca	43	263167.297	0.88	13.0750	0.367	2.808	mg/L
|	Fe	54	1818921.080	5.94	3.4870	0.127	3.637	mg/L
|	Fe	57	895725.160	2.98	3.7035	0.027	0.735	mg/L
⌊>	Sc-1	45	297752.419	297752.42				mg/L
	Cl	35	41009.926	9609.37				mg/L
	Kr	83	39.000	3.00				mg/L
	Br	81	7234.616	855.91				mg/L
	P	31	56352.527	46836.64				mg/L
	S	34	248892.249	64015.30				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.398			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.583			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.834			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.864			
⌈	Na	23					

Sample ID: L1011046843
Report Date/Time: Tuesday, November 23, 2010 17:43:02
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011046843
Report Date/Time: Tuesday, November 23, 2010 17:43:02
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046844

Sample Date/Time: Tuesday, November 23, 2010 17:47:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 27
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24346.284	0.00				ug/L
|	Be	9	36.000	0.00	0.1243	0.026	20.957	ug/L
|	Al	27	8777551.559	30.00	1451.7132	45.200	3.114	ug/L
⌊>	Sc	45	292554.009	292554.01				ug/L
⌈	Ti	49	7827.184	0.02	13.0971	0.726	5.543	ug/L
|	V	51	36091.766	0.10	3.5716	0.043	1.200	ug/L
|	Cr	52	30357.650	0.07	2.7993	0.107	3.838	ug/L
|	Cr	53	2927.390	0.01	2.9418	0.232	7.901	ug/L
|	Mn	55	1581363.194	4.93	127.1644	1.788	1.406	ug/L
|	Co	59	22080.576	0.07	2.2433	0.026	1.165	ug/L
|	Ni	60	9205.327	0.03	4.5177	0.096	2.130	ug/L
|	Cu	65	6098.922	0.02	3.1740	0.054	1.712	ug/L
|	Zn	66	27277.760	0.08	24.5451	0.435	1.773	ug/L
|>	Ge	72	321034.069	321034.07				ug/L
|	As	75	697.196	0.00	1.1943	0.097	8.080	ug/L
|	Se	77	43.338	-0.00	-0.0845	0.679	803.349	ug/L
|	Se	82	6.351	0.00	-0.0069	0.109	1586.723	ug/L
⌊	Rb	85	13976.234	0.04				mg/L
	Y	89	222885.296	23959.81				ug/L
	Rh	103	14.667	5.33				ug/L
⌈	Mo	98	215.310	0.00	0.1153	0.011	9.809	ug/L
|	Ag	107	126.669	0.00	0.0169	0.004	23.419	ug/L
|	Cd	114	17.076	0.00	0.0310	0.008	26.610	ug/L
|>	In	115	247680.300	247680.30				ug/L
|	Sn	118	1368.494	-0.00	-0.0300	0.023	76.598	ug/L
⌊	Sb	123	52.119	-0.00	0.0168	0.004	21.404	ug/L
⌈	Ba	135	9001.140	0.03	7.2744	0.152	2.095	ug/L
|	Ce	140	137293.078	0.45				ug/L
⌊>	Tb	159	305807.232	305807.23				ug/L
⌈	Ho	165	1847.023	0.01				ug/L
|	Tl	203	210.671	0.00	0.0385	0.006	15.497	ug/L
|	Tl	205	496.729	0.00	0.0045	0.001	12.269	ug/L
|	Pb	206	16720.804	0.04	3.6152	0.099	2.741	ug/L
|	Pb	207	14015.288	0.04	3.3516	0.026	0.762	ug/L
|	Pb	208	65707.489	0.17	3.4480	0.070	2.016	ug/L
|	U	238	4657.798	0.01	0.1632	0.002	1.028	ug/L
⌊>	Bi	209	337880.346	337880.35				ug/L

Sample ID: L1011046844
Report Date/Time: Tuesday, November 23, 2010 17:49:47
Page 1

Approved: November 24, 2010

Na	23	405026.566	1.35	0.0733	0.002	2.642	mg/L	
Mg	24	36088672.403	123.42	12.6616	0.299	2.359	mg/L	
K	39	3822661.274	11.47	0.4110	0.018	4.447	mg/L	
Ca	43	652937.045	2.23	33.0483	0.994	3.008	mg/L	
Fe	54	2043770.343	6.81	4.0048	0.133	3.316	mg/L	
Fe	57	1001778.367	3.40	4.2227	0.125	2.949	mg/L	
> Sc-1	45	292554.009	292554.01				mg/L	
Cl	35	41896.918	10496.36				mg/L	
Kr	83	36.334	0.33				mg/L	
Br	81	6424.063	45.36				mg/L	
P	31	77913.825	68397.94				mg/L	
S	34	217823.725	32946.78				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		96.943			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		98.831			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		97.908			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		94.631			
Na	23					

Sample ID: L1011046844
Report Date/Time: Tuesday, November 23, 2010 17:49:47
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046844PS WG349361-01

Sample Date/Time: Tuesday, November 23, 2010 17:54:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 28
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21990.831	-0.01				ug/L
|	Be	9	14742.195	0.05	51.8284	1.242	2.396	ug/L
|	Al	27	8743583.817	30.80	1490.8232	31.651	2.123	ug/L
⌊>	Sc	45	283650.634	283650.63				ug/L
⌈	Ti	49	7650.359	0.02	13.0208	0.441	3.387	ug/L
|	V	51	520424.774	1.64	56.3348	1.073	1.905	ug/L
|	Cr	52	432367.061	1.34	55.8830	0.269	0.481	ug/L
|	Cr	53	50522.345	0.16	56.2050	0.180	0.319	ug/L
|	Mn	55	1887161.680	5.98	154.3585	1.244	0.806	ug/L
|	Co	59	523474.549	1.66	54.6086	0.383	0.701	ug/L
|	Ni	60	113097.121	0.36	56.6963	0.864	1.524	ug/L
|	Cu	65	102478.468	0.32	55.4206	0.475	0.856	ug/L
|	Zn	66	75244.787	0.23	71.5034	0.866	1.212	ug/L
|>	Ge	72	315582.451	315582.45				ug/L
|	As	75	36157.424	0.11	55.3317	0.760	1.373	ug/L
|	Se	77	2884.038	0.01	54.7404	2.073	3.786	ug/L
|	Se	82	3437.302	0.01	53.6453	1.065	1.985	ug/L
⌊	Rb	85	13727.888	0.04				mg/L
	Y	89	221845.965	22920.48				ug/L
	Rh	103	25.000	15.67				ug/L
⌈	Mo	98	240.795	0.00	0.1361	0.008	6.100	ug/L
|	Ag	107	158589.967	0.65	53.5624	0.325	0.607	ug/L
|	Cd	114	41952.526	0.17	54.9806	1.396	2.540	ug/L
|>	In	115	242480.846	242480.85				ug/L
|	Sn	118	1730.283	0.00	0.1167	0.029	24.992	ug/L
⌊	Sb	123	137541.757	0.57	54.2856	0.386	0.710	ug/L
⌈	Ba	135	73840.720	0.24	60.5588	0.661	1.092	ug/L
|	Ce	140	135934.660	0.45				ug/L
⌊>	Tb	159	302161.597	302161.60				ug/L
⌈	Ho	165	1673.641	0.01				ug/L
|	Tl	203	275207.202	0.83	55.1681	0.756	1.371	ug/L
|	Tl	205	665988.282	2.01	54.5021	1.697	3.114	ug/L
|	Pb	206	241576.197	0.72	58.7347	1.550	2.638	ug/L
|	Pb	207	210611.576	0.63	56.5454	0.354	0.626	ug/L
|	Pb	208	977295.142	2.93	57.7602	1.202	2.082	ug/L
|	U	238	1441862.907	4.35	55.6280	1.245	2.238	ug/L
⌊>	Bi	209	331565.282	331565.28				ug/L

Sample ID: L1011046844PS WG349361-01
Report Date/Time: Tuesday, November 23, 2010 17:56:32
Page 1

Approved: November 24, 2010

⌈	Na	23	402754.097	1.38	0.0756	0.002	2.959	mg/L
|	Mg	24	34869497.438	122.93	12.6119	0.096	0.758	mg/L
|	K	39	3703898.278	11.45	0.4105	0.014	3.350	mg/L
|	Ca	43	629191.978	2.22	32.8285	0.306	0.933	mg/L
|	Fe	54	1942665.579	6.67	3.9228	0.162	4.141	mg/L
|	Fe	57	984388.694	3.44	4.2781	0.023	0.528	mg/L
⌊>	Sc-1	45	283650.634	283650.63				mg/L
	Cl	35	40663.846	9263.29				mg/L
	Kr	83	38.667	2.67				mg/L
	Br	81	6047.163	-331.54				mg/L
	P	31	74989.473	65473.58				mg/L
	S	34	215576.598	30699.65				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.297			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.756			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.741			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.862			
⌈	Na	23					

Sample ID: L1011046844PS WG349361-01
Report Date/Time: Tuesday, November 23, 2010 17:56:32
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046844SDL WG349361-02

Sample Date/Time: Tuesday, November 23, 2010 18:01:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22826.082	-0.00				ug/L
|	Be	9	13.333	0.00	0.0467	0.017	36.576	ug/L
|	Al	27	1792994.433	6.11	295.6857	6.911	2.337	ug/L
⌊>	Sc	45	292636.868	292636.87				ug/L
⌈	Ti	49	1630.296	0.00	2.6535	0.112	4.211	ug/L
|	V	51	9991.709	0.02	0.7582	0.003	0.398	ug/L
|	Cr	52	13828.361	0.02	0.6193	0.032	5.125	ug/L
|	Cr	53	720.098	0.00	0.5015	0.119	23.800	ug/L
|	Mn	55	330388.384	1.01	26.0063	0.088	0.337	ug/L
|	Co	59	4641.124	0.01	0.4446	0.018	4.014	ug/L
|	Ni	60	1992.552	0.01	0.9413	0.009	0.957	ug/L
|	Cu	65	1353.772	0.00	0.6341	0.005	0.783	ug/L
|	Zn	66	14886.889	0.04	12.4445	0.106	0.855	ug/L
|>	Ge	72	327633.982	327633.98				ug/L
|	As	75	49.616	0.00	0.2202	0.088	39.927	ug/L
|	Se	77	33.337	-0.00	-0.2913	0.281	96.433	ug/L
|	Se	82	0.038	-0.00	-0.1035	0.017	16.440	ug/L
⌊	Rb	85	2986.476	0.01				mg/L
	Y	89	207059.032	8133.55				ug/L
	Rh	103	7.000	-2.33				ug/L
⌈	Mo	98	52.489	0.00	0.0042	0.006	134.352	ug/L
|	Ag	107	61.667	0.00	-0.0049	0.001	25.607	ug/L
|	Cd	114	19.441	0.00	0.0336	0.002	5.636	ug/L
|>	In	115	251724.862	251724.86				ug/L
|	Sn	118	1162.334	-0.00	-0.1127	0.006	5.743	ug/L
⌊	Sb	123	334.044	0.00	0.1236	0.009	7.225	ug/L
⌈	Ba	135	1864.859	0.01	1.4536	0.006	0.411	ug/L
|	Ce	140	29248.978	0.09				ug/L
⌊>	Tb	159	312937.381	312937.38				ug/L
⌈	Ho	165	380.045	0.00				ug/L
|	Tl	203	82.001	0.00	0.0126	0.003	21.270	ug/L
|	Tl	205	216.691	0.00	-0.0185	0.001	6.747	ug/L
|	Pb	206	4410.683	0.01	0.6264	0.016	2.609	ug/L
|	Pb	207	3585.345	0.01	0.5574	0.007	1.254	ug/L
|	Pb	208	17164.322	0.03	0.5836	0.007	1.181	ug/L
|	U	238	1162.413	0.00	0.0295	0.002	5.440	ug/L
⌊>	Bi	209	348374.144	348374.14				ug/L

Approved: November 24, 2010

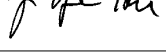
Na	23	100906.628	0.31	0.0079	0.000	2.823	mg/L
Mg	24	7493864.113	25.61	2.6148	0.048	1.823	mg/L
K	39	1342691.357	2.98	0.0967	0.003	2.623	mg/L
Ca	43	135843.278	0.46	6.8571	0.036	0.521	mg/L
Fe	54	532927.056	1.64	0.9589	0.029	2.983	mg/L
Fe	57	211078.715	0.70	0.8608	0.010	1.154	mg/L
> Sc-1	45	292636.868	292636.87				mg/L
Cl	35	31833.924	433.37				mg/L
Kr	83	34.000	-2.00				mg/L
Br	81	6291.313	-87.39				mg/L
P	31	22080.357	12564.47				mg/L
S	34	194332.023	9455.08				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		98.936			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		100.445			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		100.191			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		97.570			
Na	23					

Sample ID: L1011046844SDL WG349361-02
Report Date/Time: Tuesday, November 23, 2010 18:03:18
Page 2

Approved: November 24, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011046844SDL WG349361-02
Report Date/Time: Tuesday, November 23, 2010 18:03:18
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 23, 2010 18:07:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23344.100	0.00				ug/L
|	Be	9	13805.539	0.05	50.3743	2.660	5.281	ug/L
|	Al	27	296429.803	1.06	51.7137	0.675	1.306	ug/L
⌊>	Sc	45	273283.878	273283.88				ug/L
⌈	Ti	49	56843.445	0.18	99.0958	0.612	0.617	ug/L
|	V	51	451820.625	1.46	49.9863	0.678	1.356	ug/L
|	Cr	52	383961.385	1.22	50.6508	0.783	1.545	ug/L
|	Cr	53	44191.857	0.14	50.2552	1.225	2.438	ug/L
|	Mn	55	595129.017	1.93	49.7657	0.444	0.891	ug/L
|	Co	59	466237.390	1.51	49.7429	0.851	1.710	ug/L
|	Ni	60	98608.448	0.32	50.5510	0.266	0.526	ug/L
|	Cu	65	90552.833	0.29	50.0817	1.401	2.797	ug/L
|	Zn	66	52722.142	0.17	50.8236	0.385	0.758	ug/L
|>	Ge	72	308582.034	308582.03				ug/L
|	As	75	32373.726	0.11	50.6790	1.059	2.090	ug/L
|	Se	77	2530.574	0.01	49.0247	2.132	4.348	ug/L
|	Se	82	3208.287	0.01	51.2030	1.006	1.964	ug/L
⌊	Rb	85	1301.765	0.00				mg/L
	Y	89	196406.291	-2519.19				ug/L
	Rh	103	21.667	12.33				ug/L
⌈	Mo	98	145301.126	0.60	101.4818	2.321	2.287	ug/L
|	Ag	107	150019.765	0.62	51.0516	0.410	0.803	ug/L
|	Cd	114	38256.336	0.16	50.5086	0.586	1.161	ug/L
|>	In	115	240661.287	240661.29				ug/L
|	Sn	118	133245.057	0.55	49.8664	0.574	1.152	ug/L
⌊	Sb	123	127793.280	0.53	50.8243	0.491	0.967	ug/L
⌈	Ba	135	60146.631	0.20	49.1900	1.289	2.621	ug/L
|	Ce	140	36.670	0.00				ug/L
⌊>	Tb	159	303050.728	303050.73				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	259247.335	0.76	50.6050	0.394	0.778	ug/L
|	Tl	205	637653.235	1.87	50.8069	1.186	2.333	ug/L
|	Pb	206	205283.835	0.60	48.5256	1.005	2.070	ug/L
|	Pb	207	193026.789	0.56	50.4232	0.634	1.257	ug/L
|	Pb	208	862370.498	2.51	49.5700	0.282	0.570	ug/L
|	U	238	1332052.652	3.91	50.0350	0.440	0.879	ug/L
⌊>	Bi	209	340481.479	340481.48				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 18:10:03
Page 1

Approved: November 24, 2010

Na	23	21684922.201	79.31	4.9775	0.093	1.860	mg/L
Mg	24	13441912.267	49.19	5.0366	0.074	1.475	mg/L
K	39	37778752.462	136.63	5.0451	0.111	2.198	mg/L
Ca	43	92892.085	0.34	5.0167	0.063	1.250	mg/L
Fe	54	2453485.885	8.80	5.1758	0.099	1.912	mg/L
Fe	57	1192301.084	4.34	5.3872	0.148	2.754	mg/L
> Sc-1	45	273283.878	273283.88				mg/L
Cl	35	29453.322	-1947.23				mg/L
Kr	83	31.000	-5.00				mg/L
Br	81	5757.658	-621.05				mg/L
P	31	9560.576	44.69				mg/L
S	34	194363.864	9486.92				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	99.973				
Cr	52	101.302				
Cr	53					
Mn	55	99.531				
Co	59	99.486				
Ni	60	101.102				
Cu	65	100.163				
Zn	66	101.647				
> Ge	72		93.183			
As	75	101.358				
Se	77					
Se	82	102.406				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	102.103				
Cd	114	101.017				
> In	115		96.030			
Sn	118					
Sb	123	101.649				
Ba	135	98.380				
Ce	140					
> Tb	159		97.026			
Ho	165					
Tl	203	101.210				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.140				
U	238	100.070				
> Bi	209		95.359			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 18:10:03

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 18:10:03

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 23, 2010 18:14:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22642.339	-0.00				ug/L
|	Be	9	10.000	0.00	0.0367	0.025	69.023	ug/L
|	Al	27	5751.660	-0.00	0.2070	0.044	21.177	ug/L
⌊>	Sc	45	283156.010	283156.01				ug/L
⌈	Ti	49	53.339	0.00	0.0649	0.054	82.802	ug/L
|	V	51	2692.428	-0.00	-0.0019	0.009	507.637	ug/L
|	Cr	52	8418.629	-0.00	-0.0496	0.028	57.077	ug/L
|	Cr	53	153.350	-0.00	-0.1056	0.058	54.641	ug/L
|	Mn	55	313.008	0.00	-0.0039	0.001	36.108	ug/L
|	Co	59	183.670	-0.00	-0.0032	0.001	44.722	ug/L
|	Ni	60	15.333	-0.00	-0.0136	0.002	11.398	ug/L
|	Cu	65	93.001	-0.00	-0.0226	0.001	4.150	ug/L
|	Zn	66	1294.097	-0.00	-0.2295	0.054	23.564	ug/L
|>	Ge	72	322026.390	322026.39				ug/L
|	As	75	-87.530	0.00	0.0166	0.017	99.807	ug/L
|	Se	77	36.670	-0.00	-0.2159	0.395	182.743	ug/L
|	Se	82	10.397	0.00	0.0548	0.075	136.400	ug/L
⌊	Rb	85	16.667	-0.00				mg/L
	Y	89	207657.863	8732.38				ug/L
	Rh	103	5.000	-4.33				ug/L
⌈	Mo	98	170.163	0.00	0.0828	0.018	21.520	ug/L
|	Ag	107	24.334	0.00	-0.0171	0.002	9.952	ug/L
|	Cd	114	9.455	-0.00	0.0211	0.004	20.629	ug/L
|>	In	115	251805.872	251805.87				ug/L
|	Sn	118	1230.476	-0.00	-0.0881	0.013	14.767	ug/L
⌊	Sb	123	235.124	0.00	0.0861	0.010	11.440	ug/L
⌈	Ba	135	13.000	0.00	-0.0133	0.004	31.668	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	313381.404	313381.40				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	27.667	0.00	0.0022	0.001	25.794	ug/L
|	Tl	205	30.003	-0.00	-0.0331	0.001	3.969	ug/L
|	Pb	206	924.385	-0.00	-0.1911	0.006	3.384	ug/L
|	Pb	207	780.705	-0.00	-0.1688	0.012	7.332	ug/L
|	Pb	208	3645.965	-0.01	-0.1870	0.004	1.990	ug/L
|	U	238	60.667	0.00	-0.0110	0.001	6.299	ug/L
⌊>	Bi	209	357274.097	357274.10				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 18:16:46
Page 1

Approved: November 24, 2010

Na	23	11170.690	0.00	-0.0113	0.000	0.569	mg/L
Mg	24	470.058	0.00	-0.0157	0.000	0.077	mg/L
K	39	459585.467	0.02	-0.0130	0.002	14.256	mg/L
Ca	43	170.019	-0.00	-0.0068	0.002	35.817	mg/L
Fe	54	48847.469	-0.00	-0.0125	0.005	36.863	mg/L
Fe	57	6399.358	-0.00	-0.0077	0.003	34.825	mg/L
> Sc-1	45	283156.010	283156.01				mg/L
Cl	35	24972.478	-6428.08				mg/L
Kr	83	31.000	-5.00				mg/L
Br	81	5879.729	-498.97				mg/L
P	31	9191.558	-324.33				mg/L
S	34	183101.728	-1775.22				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		97.243			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		100.477			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		100.333			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		100.062			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 18:16:46
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 18:16:46

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046845

Sample Date/Time: Tuesday, November 23, 2010 18:21:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 30
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22441.843	-0.00				ug/L
|	Be	9	31.333	0.00	0.1138	0.023	19.921	ug/L
|	Al	27	5988010.558	21.43	1037.4428	190.356	18.349	ug/L
⌊>	Sc	45	278475.535	278475.54				ug/L
⌈	Ti	49	7336.815	0.02	12.5237	2.294	18.320	ug/L
|	V	51	35594.575	0.10	3.5956	0.538	14.972	ug/L
|	Cr	52	31101.171	0.07	2.9770	0.572	19.205	ug/L
|	Cr	53	2680.637	0.01	2.7334	0.629	22.994	ug/L
|	Mn	55	1477275.928	4.70	121.2106	18.518	15.278	ug/L
|	Co	59	21617.197	0.07	2.2410	0.331	14.755	ug/L
|	Ni	60	10073.247	0.03	5.0464	0.789	15.637	ug/L
|	Cu	65	8248.194	0.03	4.4085	0.658	14.927	ug/L
|	Zn	66	21384.655	0.06	19.3404	2.877	14.874	ug/L
|>	Ge	72	314758.508	314758.51				ug/L
|	As	75	474.208	0.00	0.8735	0.117	13.436	ug/L
|	Se	77	36.670	-0.00	-0.2038	0.726	356.379	ug/L
|	Se	82	5.049	0.00	-0.0248	0.046	187.450	ug/L
⌊	Rb	85	9245.702	0.03				mg/L
	Y	89	216067.512	17142.03				ug/L
	Rh	103	14.333	5.00				ug/L
⌈	Mo	98	205.607	0.00	0.1122	0.015	13.225	ug/L
|	Ag	107	59.334	0.00	-0.0049	0.004	77.366	ug/L
|	Cd	114	22.954	0.00	0.0392	0.007	18.853	ug/L
|>	In	115	241668.302	241668.30				ug/L
|	Sn	118	1357.959	-0.00	-0.0215	0.007	33.765	ug/L
⌊	Sb	123	92.871	0.00	0.0335	0.002	7.098	ug/L
⌈	Ba	135	7003.212	0.02	5.7954	0.687	11.862	ug/L
|	Ce	140	96026.441	0.32				ug/L
⌊>	Tb	159	298312.522	298312.52				ug/L
⌈	Ho	165	1206.861	0.00				ug/L
|	Tl	203	175.003	0.00	0.0318	0.001	1.720	ug/L
|	Tl	205	430.052	0.00	-0.0005	0.003	516.941	ug/L
|	Pb	206	17800.499	0.05	3.9225	0.546	13.912	ug/L
|	Pb	207	14822.592	0.04	3.6112	0.558	15.464	ug/L
|	Pb	208	69823.617	0.19	3.7349	0.550	14.713	ug/L
|	U	238	4476.729	0.01	0.1584	0.028	17.374	ug/L
⌊>	Bi	209	334247.357	334247.36				ug/L

Sample ID: L1011046845
Report Date/Time: Tuesday, November 23, 2010 18:23:32
Page 1

Approved: November 24, 2010

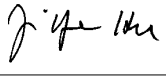
Na	23	290888.299	1.01	0.0519	0.003	5.423	mg/L
Mg	24	32839817.142	117.75	12.0795	1.575	13.039	mg/L
K	39	2047716.446	5.74	0.1990	0.009	4.320	mg/L
Ca	43	737586.423	2.64	39.1518	4.635	11.840	mg/L
Fe	54	1724405.734	6.01	3.5321	0.161	4.570	mg/L
Fe	57	808478.663	2.87	3.5663	0.607	17.011	mg/L
> Sc-1	45	278475.535	278475.54				mg/L
Cl	35	37011.056	5610.50				mg/L
Kr	83	32.667	-3.33				mg/L
Br	81	6714.256	335.55				mg/L
P	31	48784.957	39269.07				mg/L
S	34	222989.085	38112.14				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		95.048			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		96.432			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		95.509			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		93.613			
Na	23					

Sample ID: L1011046845
Report Date/Time: Tuesday, November 23, 2010 18:23:32
Page 2

Approved: November 24, 2010



| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046846

Sample Date/Time: Tuesday, November 23, 2010 18:28:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 31
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

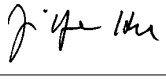
User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22592.272	-0.00				ug/L
|	Be	9	34.667	0.00	0.1246	0.040	31.768	ug/L
|	Al	27	6178660.489	22.00	1064.9866	20.424	1.918	ug/L
⌊>	Sc	45	280565.411	280565.41				ug/L
⌈	Ti	49	9575.553	0.03	16.1411	1.102	6.826	ug/L
|	V	51	117446.819	0.36	12.3613	0.347	2.808	ug/L
|	Cr	52	34440.575	0.08	3.3591	0.109	3.258	ug/L
|	Cr	53	3230.845	0.01	3.3017	0.118	3.578	ug/L
|	Mn	55	1302922.655	4.09	105.4965	0.961	0.911	ug/L
|	Co	59	14194.213	0.04	1.4445	0.040	2.754	ug/L
|	Ni	60	12435.524	0.04	6.1527	0.224	3.635	ug/L
|	Cu	65	128387.397	0.40	68.7548	1.373	1.997	ug/L
|	Zn	66	57546.704	0.18	53.7827	0.927	1.724	ug/L
|>	Ge	72	318773.270	318773.27				ug/L
|	As	75	1189.728	0.00	1.9450	0.026	1.338	ug/L
|	Se	77	53.339	-0.00	0.1087	0.220	202.464	ug/L
|	Se	82	19.345	0.00	0.1950	0.214	109.907	ug/L
⌊	Rb	85	8433.639	0.03				mg/L
	Y	89	219341.183	20415.70				ug/L
	Rh	103	34.000	24.67				ug/L
⌈	Mo	98	359.503	0.00	0.2166	0.016	7.434	ug/L
|	Ag	107	155.003	0.00	0.0270	0.004	16.063	ug/L
|	Cd	114	179.210	0.00	0.2423	0.011	4.490	ug/L
|>	In	115	244145.441	244145.44				ug/L
|	Sn	118	2456.969	0.00	0.3829	0.021	5.604	ug/L
⌊	Sb	123	173.661	0.00	0.0648	0.007	11.195	ug/L
⌈	Ba	135	26016.071	0.09	21.5721	0.829	3.844	ug/L
|	Ce	140	91445.427	0.31				ug/L
⌊>	Tb	159	298762.830	298762.83				ug/L
⌈	Ho	165	1340.224	0.00				ug/L
|	Tl	203	135.669	0.00	0.0241	0.002	7.937	ug/L
|	Tl	205	363.376	0.00	-0.0058	0.004	69.035	ug/L
|	Pb	206	148288.587	0.44	35.7468	0.171	0.477	ug/L
|	Pb	207	124179.546	0.37	33.0564	0.305	0.922	ug/L
|	Pb	208	581566.470	1.73	34.0716	0.358	1.050	ug/L
|	U	238	4230.604	0.01	0.1494	0.003	2.239	ug/L
⌊>	Bi	209	332880.801	332880.80				ug/L

Sample ID: L1011046846
Report Date/Time: Tuesday, November 23, 2010 18:30:18
Page 1

Approved: November 24, 2010



⌈	Na	23	1126411.058	3.98	0.2388	0.001	0.282	mg/L
|	Mg	24	17281668.454	61.59	6.3109	0.098	1.550	mg/L
|	K	39	1862579.800	5.03	0.1727	0.004	2.400	mg/L
|	Ca	43	915929.578	3.26	48.3310	1.265	2.617	mg/L
|	Fe	54	2167988.197	7.55	4.4399	0.099	2.237	mg/L
|	Fe	57	1089883.139	3.86	4.7945	0.182	3.792	mg/L
⌊>	Sc-1	45	280565.411	280565.41				mg/L
	Cl	35	37010.369	5609.81				mg/L
	Kr	83	37.000	1.00				mg/L
	Br	81	6264.629	-114.07				mg/L
	P	31	66031.296	56515.41				mg/L
	S	34	213712.432	28835.48				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.260			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.420			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.653			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.231			
⌈	Na	23					

Sample ID: L1011046846
Report Date/Time: Tuesday, November 23, 2010 18:30:18
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046847

Sample Date/Time: Tuesday, November 23, 2010 18:34:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 32
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22592.165	-0.00				ug/L
|	Be	9	26.667	0.00	0.0941	0.031	32.628	ug/L
|	Al	27	6115030.776	21.40	1035.6657	76.932	7.428	ug/L
⌊>	Sc	45	285915.336	285915.34				ug/L
⌈	Ti	49	9151.768	0.03	15.0510	0.145	0.962	ug/L
|	V	51	34374.206	0.10	3.3244	0.107	3.211	ug/L
|	Cr	52	50211.255	0.13	5.2605	0.108	2.058	ug/L
|	Cr	53	5111.819	0.01	5.2463	0.219	4.167	ug/L
|	Mn	55	874691.222	2.68	69.1100	1.453	2.103	ug/L
|	Co	59	14383.815	0.04	1.4283	0.014	1.009	ug/L
|	Ni	60	7868.173	0.02	3.7911	0.073	1.920	ug/L
|	Cu	65	14537.038	0.04	7.5333	0.074	0.977	ug/L
|	Zn	66	75157.127	0.23	68.9472	0.506	0.734	ug/L
|>	Ge	72	326651.646	326651.65				ug/L
|	As	75	594.183	0.00	1.0237	0.050	4.863	ug/L
|	Se	77	70.007	0.00	0.3956	0.194	48.923	ug/L
|	Se	82	21.012	0.00	0.2138	0.213	99.619	ug/L
⌊	Rb	85	11322.186	0.03				mg/L
	Y	89	223723.789	24798.31				ug/L
	Rh	103	15.333	6.00				ug/L
⌈	Mo	98	230.758	0.00	0.1248	0.002	1.933	ug/L
|	Ag	107	209.671	0.00	0.0439	0.009	20.681	ug/L
|	Cd	114	370.570	0.00	0.4815	0.039	8.127	ug/L
|>	In	115	249203.787	249203.79				ug/L
|	Sn	118	1430.902	0.00	-0.0103	0.008	75.975	ug/L
⌊	Sb	123	63.616	-0.00	0.0211	0.001	4.493	ug/L
⌈	Ba	135	17078.743	0.06	13.9185	0.163	1.168	ug/L
|	Ce	140	98674.361	0.32				ug/L
⌊>	Tb	159	303695.700	303695.70				ug/L
⌈	Ho	165	1256.872	0.00				ug/L
|	Tl	203	184.337	0.00	0.0327	0.004	13.019	ug/L
|	Tl	205	480.060	0.00	0.0025	0.002	67.901	ug/L
|	Pb	206	46943.743	0.13	10.6881	0.199	1.865	ug/L
|	Pb	207	39646.507	0.11	9.9747	0.128	1.286	ug/L
|	Pb	208	185687.836	0.52	10.2735	0.090	0.874	ug/L
|	U	238	3282.238	0.01	0.1091	0.002	1.863	ug/L
⌊>	Bi	209	343545.298	343545.30				ug/L

Sample ID: L1011046847
Report Date/Time: Tuesday, November 23, 2010 18:37:04
Page 1

Approved: November 24, 2010

⌈	Na	23	343711.027	1.16	0.0619	0.002	2.925	mg/L
|	Mg	24	12737888.270	44.59	4.5644	0.204	4.480	mg/L
|	K	39	2100960.388	5.75	0.1991	0.011	5.615	mg/L
|	Ca	43	267705.796	0.94	13.8536	0.362	2.616	mg/L
|	Fe	54	1933514.732	6.59	3.8725	0.107	2.754	mg/L
|	Fe	57	776089.686	2.69	3.3405	0.122	3.653	mg/L
⌊>	Sc-1	45	285915.336	285915.34				mg/L
	Cl	35	37834.116	6433.56				mg/L
	Kr	83	37.000	1.00				mg/L
	Br	81	6315.994	-62.71				mg/L
	P	31	66256.777	56740.89				mg/L
	S	34	217527.524	32650.58				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.639			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.439			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.232			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.217			
⌈	Na	23					

Sample ID: L1011046847
Report Date/Time: Tuesday, November 23, 2010 18:37:04
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011046847
Report Date/Time: Tuesday, November 23, 2010 18:37:04
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: l1011060801 WG349181-01

Sample Date/Time: Tuesday, November 23, 2010 18:41:39
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 33
Method File: C:\elandata\Method\6020a.mth
Sample Description: 50

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21924.053	-0.01				ug/L
|	Be	9	8.000	-0.00	0.0289	0.001	2.324	ug/L
|	Al	27	29327.234	0.08	4.1298	0.955	23.117	ug/L
⌊>	Sc	45	289773.441	289773.44				ug/L
⌈	Ti	49	113.345	0.00	0.1616	0.021	12.894	ug/L
|	V	51	3085.679	0.00	0.0335	0.005	15.344	ug/L
|	Cr	52	9127.922	0.00	0.0188	0.010	52.309	ug/L
|	Cr	53	163.351	-0.00	-0.0980	0.074	75.238	ug/L
|	Mn	55	22248.292	0.07	1.7189	0.032	1.835	ug/L
|	Co	59	232.338	0.00	0.0013	0.001	112.557	ug/L
|	Ni	60	324.008	0.00	0.1349	0.007	5.261	ug/L
|	Cu	65	150.669	0.00	0.0064	0.004	54.931	ug/L
|	Zn	66	2262.612	0.00	0.6478	0.029	4.490	ug/L
|>	Ge	72	328582.478	328582.48				ug/L
|	As	75	-91.470	0.00	0.0136	0.051	376.105	ug/L
|	Se	77	20.002	-0.00	-0.5385	0.187	34.662	ug/L
|	Se	82	2.667	0.00	-0.0636	0.121	189.925	ug/L
⌊	Rb	85	214.338	0.00				mg/L
	Y	89	209128.156	10202.67				ug/L
	Rh	103	6.667	-2.67				ug/L
⌈	Mo	98	45.978	0.00	-0.0009	0.002	174.244	ug/L
|	Ag	107	20.334	-0.00	-0.0185	0.002	10.959	ug/L
|	Cd	114	5.573	-0.00	0.0161	0.011	66.580	ug/L
|>	In	115	257538.882	257538.88				ug/L
|	Sn	118	1358.226	-0.00	-0.0526	0.034	65.155	ug/L
⌊	Sb	123	94.078	0.00	0.0316	0.004	12.351	ug/L
⌈	Ba	135	102.335	0.00	0.0581	0.010	17.178	ug/L
|	Ce	140	263.363	0.00				ug/L
⌊>	Tb	159	310345.254	310345.25				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	19.334	0.00	0.0007	0.001	181.943	ug/L
|	Tl	205	36.670	0.00	-0.0326	0.002	6.933	ug/L
|	Pb	206	858.712	-0.00	-0.2029	0.012	5.924	ug/L
|	Pb	207	759.036	-0.00	-0.1713	0.001	0.567	ug/L
|	Pb	208	3416.929	-0.01	-0.1967	0.006	2.961	ug/L
|	U	238	30.334	0.00	-0.0120	0.000	3.937	ug/L
⌊>	Bi	209	351781.918	351781.92				ug/L

Sample ID: l1011060801 WG349181-01
Report Date/Time: Tuesday, November 23, 2010 18:43:51
Page 1

Approved: November 24, 2010

⌈	Na	23	762230.828	2.59	0.1517	0.004	2.360	mg/L
|	Mg	24	421169.423	1.45	0.1334	0.003	2.458	mg/L
|	K	39	643441.006	0.61	0.0091	0.003	30.177	mg/L
|	Ca	43	5565.439	0.02	0.2689	0.017	6.161	mg/L
|	Fe	54	53448.214	0.01	-0.0055	0.003	55.358	mg/L
|	Fe	57	8374.343	0.00	0.0001	0.002	1314.857	mg/L
⌊>	Sc-1	45	289773.441	289773.44				mg/L
	Cl	35	31488.164	87.61				mg/L
	Kr	83	38.334	2.33				mg/L
	Br	81	6241.948	-136.76				mg/L
	P	31	12834.284	3318.40				mg/L
	S	34	193653.987	8777.04				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.222			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.764			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.361			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.524			
⌈	Na	23					

Sample ID: l1011060801 WG349181-01
Report Date/Time: Tuesday, November 23, 2010 18:43:51
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011060803S WG349181-04

Sample Date/Time: Tuesday, November 23, 2010 18:48:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 34
Method File: C:\elandata\Method\6020a.mth
Sample Description: 50

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23143.479	-0.00				ug/L
|	Be	9	129.334	0.00	0.4482	0.025	5.552	ug/L
|	Al	27	31917.738	0.09	4.5766	0.364	7.947	ug/L
⌊>	Sc	45	288486.673	288486.67				ug/L
⌈	Ti	49	86.676	0.00	0.1171	0.066	56.499	ug/L
|	V	51	7728.011	0.01	0.5146	0.002	0.322	ug/L
|	Cr	52	13026.943	0.01	0.5044	0.016	3.220	ug/L
|	Cr	53	643.418	0.00	0.4139	0.065	15.692	ug/L
|	Mn	55	28441.339	0.09	2.1946	0.024	1.103	ug/L
|	Co	59	5194.401	0.02	0.4961	0.009	1.777	ug/L
|	Ni	60	1369.441	0.00	0.6353	0.024	3.845	ug/L
|	Cu	65	1067.401	0.00	0.4804	0.006	1.205	ug/L
|	Zn	66	2840.432	0.00	1.1722	0.024	2.031	ug/L
|>	Ge	72	330256.878	330256.88				ug/L
|	As	75	256.135	0.00	0.5214	0.088	16.810	ug/L
|	Se	77	80.008	0.00	0.5658	0.324	57.200	ug/L
|	Se	82	31.995	0.00	0.3745	0.202	53.906	ug/L
⌊	Rb	85	235.338	0.00				mg/L
	Y	89	206956.852	8031.37				ug/L
	Rh	103	8.000	-1.33				ug/L
⌈	Mo	98	49.384	0.00	0.0015	0.004	295.994	ug/L
|	Ag	107	1561.137	0.01	0.4739	0.004	0.810	ug/L
|	Cd	114	415.776	0.00	0.5243	0.020	3.808	ug/L
|>	In	115	256365.347	256365.35				ug/L
|	Sn	118	982.582	-0.00	-0.1841	0.008	4.276	ug/L
⌊	Sb	123	1432.903	0.01	0.5317	0.020	3.740	ug/L
⌈	Ba	135	765.370	0.00	0.5863	0.026	4.354	ug/L
|	Ce	140	206.690	0.00				ug/L
⌊>	Tb	159	311119.178	311119.18				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	2605.032	0.01	0.4927	0.021	4.267	ug/L
|	Tl	205	6386.010	0.02	0.4609	0.008	1.803	ug/L
|	Pb	206	3327.253	0.00	0.3719	0.012	3.271	ug/L
|	Pb	207	2892.114	0.00	0.3772	0.013	3.466	ug/L
|	Pb	208	13453.722	0.02	0.3714	0.009	2.517	ug/L
|	U	238	13909.474	0.04	0.4963	0.012	2.518	ug/L
⌊>	Bi	209	349324.129	349324.13				ug/L

Sample ID: L1011060803S WG349181-04
Report Date/Time: Tuesday, November 23, 2010 18:50:38
Page 1

Approved: November 24, 2010

⌈	Na	23	771047.553	2.64	0.1544	0.005	3.156	mg/L
|	Mg	24	427427.933	1.48	0.1364	0.004	3.259	mg/L
|	K	39	638023.765	0.60	0.0088	0.002	17.458	mg/L
|	Ca	43	5808.935	0.02	0.2824	0.002	0.826	mg/L
|	Fe	54	54571.617	0.01	-0.0028	0.002	84.460	mg/L
|	Fe	57	7910.585	0.00	-0.0017	0.000	26.997	mg/L
⌊>	Sc-1	45	288486.673	288486.67				mg/L
	Cl	35	31129.716	-270.84				mg/L
	Kr	83	39.000	3.00				mg/L
	Br	81	6396.712	18.01				mg/L
	P	31	12607.276	3091.39				mg/L
	S	34	179783.276	-5093.67				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.728			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.296			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.609			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.836			
⌈	Na	23					

Sample ID: L1011060803S WG349181-04
Report Date/Time: Tuesday, November 23, 2010 18:50:38
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011060803S WG349181-04
Report Date/Time: Tuesday, November 23, 2010 18:50:38
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011060805SD WG349181-05

Sample Date/Time: Tuesday, November 23, 2010 18:55:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 35
Method File: C:\elandata\Method\6020a.mth
Sample Description: 50

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21740.326	-0.01				ug/L
|	Be	9	137.334	0.00	0.4841	0.074	15.219	ug/L
|	Al	27	28340.640	0.08	4.0631	0.698	17.168	ug/L
⌊>	Sc	45	283599.748	283599.75				ug/L
⌈	Ti	49	80.008	0.00	0.1077	0.028	26.369	ug/L
|	V	51	7811.673	0.02	0.5333	0.017	3.275	ug/L
|	Cr	52	13237.555	0.01	0.5515	0.010	1.773	ug/L
|	Cr	53	620.081	0.00	0.3965	0.091	22.849	ug/L
|	Mn	55	29172.114	0.09	2.2800	0.018	0.808	ug/L
|	Co	59	5277.112	0.02	0.5108	0.005	0.990	ug/L
|	Ni	60	1423.782	0.00	0.6697	0.024	3.574	ug/L
|	Cu	65	1101.738	0.00	0.5052	0.004	0.725	ug/L
|	Zn	66	3136.190	0.01	1.4825	0.025	1.664	ug/L
|>	Ge	72	326197.839	326197.84				ug/L
|	As	75	211.644	0.00	0.4601	0.069	14.983	ug/L
|	Se	77	83.342	0.00	0.6444	0.535	82.955	ug/L
|	Se	82	31.015	0.00	0.3649	0.068	18.717	ug/L
⌊	Rb	85	222.671	0.00				mg/L
	Y	89	206848.085	7922.60				ug/L
	Rh	103	6.667	-2.67				ug/L
⌈	Mo	98	42.973	0.00	-0.0021	0.001	65.839	ug/L
|	Ag	107	1632.483	0.01	0.5071	0.014	2.743	ug/L
|	Cd	114	446.153	0.00	0.5731	0.023	4.078	ug/L
|>	In	115	251333.210	251333.21				ug/L
|	Sn	118	1528.117	0.00	0.0206	0.040	191.731	ug/L
⌊	Sb	123	1455.323	0.01	0.5509	0.012	2.178	ug/L
⌈	Ba	135	770.371	0.00	0.5916	0.043	7.303	ug/L
|	Ce	140	213.357	0.00				ug/L
⌊>	Tb	159	310516.020	310516.02				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	2713.062	0.01	0.5180	0.014	2.777	ug/L
|	Tl	205	6432.712	0.02	0.4690	0.012	2.483	ug/L
|	Pb	206	3164.199	0.00	0.3406	0.011	3.095	ug/L
|	Pb	207	2702.726	0.00	0.3349	0.025	7.527	ug/L
|	Pb	208	12634.949	0.02	0.3316	0.010	3.166	ug/L
|	U	238	14290.017	0.04	0.5150	0.017	3.349	ug/L
⌊>	Bi	209	346261.857	346261.86				ug/L

Sample ID: L1011060805SD WG349181-05
Report Date/Time: Tuesday, November 23, 2010 18:57:22
Page 1

Approved: November 24, 2010

⌈	Na	23	825174.571	2.87	0.1693	0.002	1.305	mg/L
|	Mg	24	432707.024	1.53	0.1409	0.001	0.916	mg/L
|	K	39	664637.779	0.74	0.0137	0.002	13.723	mg/L
|	Ca	43	5972.388	0.02	0.2958	0.019	6.304	mg/L
|	Fe	54	51951.469	0.01	-0.0063	0.004	55.830	mg/L
|	Fe	57	7867.214	0.00	-0.0013	0.001	92.510	mg/L
⌊>	Sc-1	45	283599.748	283599.75				mg/L
	Cl	35	32631.830	1231.27				mg/L
	Kr	83	36.667	0.67				mg/L
	Br	81	6288.644	-90.06				mg/L
	P	31	13616.623	4100.73				mg/L
	S	34	201094.937	16217.99				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.502			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.288			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.416			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.978			
⌈	Na	23					

Sample ID: L1011060805SD WG349181-05
Report Date/Time: Tuesday, November 23, 2010 18:57:22
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011060805SD WG349181-05
Report Date/Time: Tuesday, November 23, 2010 18:57:22
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, November 23, 2010 19:01:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25515.858	0.01				ug/L
|	Be	9	4.000	-0.00	0.0154	0.007	45.523	ug/L
|	Al	27	20904992.257	73.88	3575.5141	145.222	4.062	ug/L
⌊>	Sc	45	282861.424	282861.42				ug/L
⌈	Ti	49	54845.540	0.16	86.5926	3.429	3.960	ug/L
|	V	51	2492.241	-0.00	-0.0377	0.021	55.862	ug/L
|	Cr	52	9132.594	0.00	-0.0219	0.034	155.891	ug/L
|	Cr	53	976.812	0.00	0.7369	0.039	5.327	ug/L
|	Mn	55	3199.211	0.01	0.2133	0.008	3.922	ug/L
|	Co	59	1888.197	0.00	0.1604	0.001	0.404	ug/L
|	Ni	60	1200.418	0.00	0.5361	0.021	3.946	ug/L
|	Cu	65	715.033	0.00	0.2867	0.012	4.080	ug/L
|	Zn	66	2161.589	0.00	0.4811	0.027	5.552	ug/L
|>	Ge	72	340823.449	340823.45				ug/L
|	As	75	-105.009	0.00	-0.0008	0.010	1179.030	ug/L
|	Se	77	66.674	0.00	0.2827	0.284	100.424	ug/L
|	Se	82	-0.678	-0.00	-0.1124	0.185	164.965	ug/L
⌊	Rb	85	1235.089	0.00				mg/L
	Y	89	201465.994	2540.51				ug/L
	Rh	103	6.333	-3.00				ug/L
⌈	Mo	98	143124.250	0.56	94.4530	1.164	1.232	ug/L
|	Ag	107	54.001	0.00	-0.0077	0.003	33.148	ug/L
|	Cd	114	88.446	0.00	0.1195	0.008	6.712	ug/L
|>	In	115	254673.132	254673.13				ug/L
|	Sn	118	1400.098	-0.00	-0.0322	0.030	91.847	ug/L
⌊	Sb	123	118.163	0.00	0.0411	0.001	2.729	ug/L
⌈	Ba	135	47.001	0.00	0.0131	0.005	38.391	ug/L
|	Ce	140	133.348	0.00				ug/L
⌊>	Tb	159	316797.585	316797.58				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	64.001	0.00	0.0090	0.001	16.691	ug/L
|	Tl	205	160.017	0.00	-0.0232	0.001	3.369	ug/L
|	Pb	206	1044.398	-0.00	-0.1637	0.004	2.417	ug/L
|	Pb	207	925.052	-0.00	-0.1325	0.008	5.837	ug/L
|	Pb	208	4253.067	-0.01	-0.1533	0.005	3.354	ug/L
|	U	238	14.333	-0.00	-0.0126	0.000	0.828	ug/L
⌊>	Bi	209	357059.285	357059.28				ug/L

Sample ID: QC Std 4
Report Date/Time: Tuesday, November 23, 2010 19:04:08
Page 1

Approved: November 24, 2010

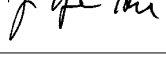
Na	23	54527866.612	192.73	12.1115	0.326	2.695	mg/L	
Mg	24	13349419.155	47.19	4.8320	0.170	3.514	mg/L	
K	39	37221866.403	129.98	4.7988	0.027	0.573	mg/L	
Ca	43	268952.031	0.95	14.0617	0.107	0.762	mg/L	
Fe	54	5947816.892	20.85	12.2760	0.190	1.544	mg/L	
Fe	57	2481894.369	8.75	10.8707	0.442	4.062	mg/L	
> Sc-1	45	282861.424	282861.42				mg/L	
Cl	35	1851527.763	1820127.21				mg/L	
Kr	83	39.667	3.67				mg/L	
Br	81	5851.045	-527.66				mg/L	
P	31	1655185.323	1645669.43				mg/L	
S	34	346224.349	161347.40				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		102.919			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		101.621			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		101.427			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		100.002			
Na	23					

Sample ID: QC Std 4
Report Date/Time: Tuesday, November 23, 2010 19:04:08
Page 2

Approved: November 24, 2010



Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Tuesday, November 23, 2010 19:04:08
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, November 23, 2010 19:08:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28874.963	0.02				ug/L
|	Be	9	31279.522	0.11	111.3496	4.256	3.822	ug/L
|	Al	27	28934775.075	103.25	4996.5059	183.975	3.682	ug/L
⌊>	Sc	45	280363.602	280363.60				ug/L
⌈	Ti	49	74023.692	0.21	114.8686	1.027	0.894	ug/L
|	V	51	905666.818	2.60	89.4061	1.255	1.404	ug/L
|	Cr	52	767420.149	2.19	90.9929	0.496	0.545	ug/L
|	Cr	53	92050.909	0.26	93.4003	0.895	0.958	ug/L
|	Mn	55	1245613.272	3.59	92.7359	1.096	1.182	ug/L
|	Co	59	964578.748	2.78	91.6131	0.785	0.857	ug/L
|	Ni	60	200651.608	0.58	91.5740	1.179	1.288	ug/L
|	Cu	65	193137.195	0.56	95.1318	0.235	0.247	ug/L
|	Zn	66	111754.108	0.32	97.1830	0.816	0.839	ug/L
|>	Ge	72	346677.289	346677.29				ug/L
|	As	75	71206.709	0.21	99.0741	1.586	1.601	ug/L
|	Se	77	5588.788	0.02	97.2417	3.907	4.018	ug/L
|	Se	82	6548.197	0.02	93.1023	2.144	2.303	ug/L
⌊	Rb	85	1628.149	0.00				mg/L
	Y	89	194686.267	-4239.22				ug/L
	Rh	103	35.000	25.67				ug/L
⌈	Mo	98	193919.003	0.76	127.7462	1.370	1.073	ug/L
|	Ag	107	268056.926	1.05	86.0512	12.523	14.553	ug/L
|	Cd	114	82374.843	0.32	102.5820	1.158	1.129	ug/L
|>	In	115	255125.656	255125.66				ug/L
|	Sn	118	1632.400	0.00	0.0494	0.026	53.348	ug/L
⌊	Sb	123	269997.592	1.06	101.2884	0.258	0.254	ug/L
⌈	Ba	135	126755.256	0.40	99.3024	1.083	1.091	ug/L
|	Ce	140	220.024	0.00				ug/L
⌊>	Tb	159	316398.686	316398.69				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	528778.150	1.49	98.7422	0.205	0.207	ug/L
|	Tl	205	1294281.113	3.64	98.6861	1.843	1.867	ug/L
|	Pb	206	439414.735	1.23	99.7824	1.304	1.307	ug/L
|	Pb	207	395613.216	1.11	99.2153	1.136	1.145	ug/L
|	Pb	208	1813265.693	5.07	100.1005	1.071	1.070	ug/L
|	U	238	2708309.917	7.61	97.3298	0.889	0.913	ug/L
⌊>	Bi	209	355931.885	355931.88				ug/L

Sample ID: QC Std 5
Report Date/Time: Tuesday, November 23, 2010 19:10:55
Page 1

Approved: November 24, 2010

Na	23	76957294.457	274.72	17.2687	0.713	4.130	mg/L
Mg	24	18642989.380	66.56	6.8210	0.253	3.704	mg/L
K	39	50275540.809	177.71	6.5660	0.109	1.658	mg/L
Ca	43	361984.767	1.29	19.1056	0.241	1.260	mg/L
Fe	54	8070149.288	28.64	16.8662	0.715	4.242	mg/L
Fe	57	3358140.060	11.97	14.8739	0.772	5.193	mg/L
> Sc-1	45	280363.602	280363.60				mg/L
Cl	35	2056204.572	2024804.01				mg/L
Kr	83	43.001	7.00				mg/L
Br	81	5917.083	-461.62				mg/L
P	31	1859819.737	1850303.85				mg/L
S	34	399567.497	214690.55				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	89.406				
Cr	52	90.993				
Cr	53					
Mn	55	92.736				
Co	59	91.613				
Ni	60	91.574				
Cu	65	95.132				
Zn	66	97.183				
> Ge	72		104.687			
As	75	99.074				
Se	77					
Se	82	93.102				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	86.051				
Cd	114	102.582				
> In	115		101.802			
Sn	118					
Sb	123	101.288				
Ba	135	99.302				
Ce	140					
> Tb	159		101.299			
Ho	165					
Tl	203	98.742				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.100				
U	238	97.330				
> Bi	209		99.687			
Na	23					

Sample ID: QC Std 5
Report Date/Time: Tuesday, November 23, 2010 19:10:55
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Tuesday, November 23, 2010 19:10:55
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 23, 2010 19:15:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25683.071	0.01				ug/L
|	Be	9	15789.790	0.06	55.0809	3.000	5.446	ug/L
|	Al	27	308729.893	1.06	51.4741	2.810	5.460	ug/L
⌊>	Sc	45	286401.381	286401.38				ug/L
⌈	Ti	49	59442.093	0.17	91.9257	0.831	0.904	ug/L
|	V	51	472686.528	1.35	46.3711	0.565	1.218	ug/L
|	Cr	52	400819.784	1.13	46.8200	0.416	0.889	ug/L
|	Cr	53	46673.366	0.13	47.0715	1.556	3.306	ug/L
|	Mn	55	623604.526	1.79	46.2578	0.387	0.837	ug/L
|	Co	59	505344.518	1.45	47.8262	0.536	1.121	ug/L
|	Ni	60	103692.883	0.30	47.1582	0.669	1.419	ug/L
|	Cu	65	98490.977	0.28	48.3158	0.371	0.768	ug/L
|	Zn	66	57308.347	0.16	48.9548	0.766	1.564	ug/L
|>	Ge	72	347849.685	347849.69				ug/L
|	As	75	35636.543	0.10	49.4916	0.526	1.064	ug/L
|	Se	77	2977.408	0.01	51.2171	2.531	4.942	ug/L
|	Se	82	3429.319	0.01	48.5433	0.128	0.264	ug/L
⌊	Rb	85	1403.779	0.00				mg/L
	Y	89	204949.592	6024.11				ug/L
	Rh	103	15.333	6.00				ug/L
⌈	Mo	98	152663.777	0.59	98.8521	0.895	0.905	ug/L
|	Ag	107	159889.229	0.62	50.4481	0.281	0.556	ug/L
|	Cd	114	41322.728	0.16	50.5923	0.546	1.080	ug/L
|>	In	115	259561.306	259561.31				ug/L
|	Sn	118	142177.480	0.54	49.3369	0.904	1.831	ug/L
⌊	Sb	123	137376.052	0.53	50.6661	0.952	1.879	ug/L
⌈	Ba	135	64625.479	0.20	50.0953	0.732	1.462	ug/L
|	Ce	140	40.004	0.00				ug/L
⌊>	Tb	159	319681.867	319681.87				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	270156.117	0.75	50.0955	0.142	0.283	ug/L
|	Tl	205	657438.425	1.83	49.7588	0.059	0.119	ug/L
|	Pb	206	218707.429	0.61	49.1135	0.053	0.108	ug/L
|	Pb	207	202981.917	0.56	50.3702	0.129	0.256	ug/L
|	Pb	208	911101.126	2.52	49.7512	0.544	1.093	ug/L
|	U	238	1425157.018	3.98	50.8571	0.949	1.866	ug/L
⌊>	Bi	209	358427.005	358427.00				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 19:17:41
Page 1

Approved: November 24, 2010

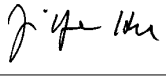
Na	23	23400700.347	81.79	5.1331	0.208	4.046	mg/L
Mg	24	14466085.014	50.59	5.1809	0.229	4.418	mg/L
K	39	39124560.438	135.26	4.9941	0.260	5.197	mg/L
Ca	43	96560.326	0.34	4.9836	0.217	4.349	mg/L
Fe	54	2580719.873	8.85	5.2066	0.337	6.474	mg/L
Fe	57	1275536.670	4.44	5.5129	0.359	6.513	mg/L
Sc-1	45	286401.381	286401.38				mg/L
Cl	35	31609.216	208.66				mg/L
Kr	83	36.334	0.33				mg/L
Br	81	6191.917	-186.79				mg/L
P	31	8857.922	-657.97				mg/L
S	34	200670.548	15793.60				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	92.742				
Cr	52	93.640				
Cr	53					
Mn	55	92.516				
Co	59	95.652				
Ni	60	94.316				
Cu	65	96.632				
Zn	66	97.910				
Ge	72		105.041			
As	75	98.983				
Se	77					
Se	82	97.087				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.896				
Cd	114	101.185				
In	115		103.571			
Sn	118					
Sb	123	101.332				
Ba	135	100.191				
Ce	140					
Tb	159		102.351			
Ho	165					
Tl	203	100.191				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.502				
U	238	101.714				
Bi	209		100.385			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 19:17:41
Page 2

Approved: November 24, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 19:17:41
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 23, 2010 19:22:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26033.915	0.00				ug/L
|	Be	9	2.667	-0.00	0.0101	0.004	37.095	ug/L
|	Al	27	6001.819	-0.00	0.1815	0.111	61.352	ug/L
⌊>	Sc	45	303555.860	303555.86				ug/L
⌈	Ti	49	46.671	-0.00	0.0462	0.009	19.743	ug/L
|	V	51	2878.848	-0.00	-0.0118	0.005	44.683	ug/L
|	Cr	52	9061.194	-0.00	-0.0801	0.004	4.990	ug/L
|	Cr	53	253.362	-0.00	-0.0236	0.034	144.950	ug/L
|	Mn	55	330.342	0.00	-0.0051	0.000	9.137	ug/L
|	Co	59	176.337	-0.00	-0.0057	0.000	8.405	ug/L
|	Ni	60	23.334	0.00	-0.0107	0.002	22.037	ug/L
|	Cu	65	85.335	-0.00	-0.0310	0.005	15.041	ug/L
|	Zn	66	1299.431	-0.00	-0.3444	0.046	13.399	ug/L
|>	Ge	72	356700.016	356700.02				ug/L
|	As	75	-153.320	-0.00	-0.0602	0.063	105.460	ug/L
|	Se	77	70.007	0.00	0.2809	0.439	156.160	ug/L
|	Se	82	4.670	0.00	-0.0407	0.124	305.745	ug/L
⌊	Rb	85	13.000	-0.00				mg/L
	Y	89	216193.908	17268.42				ug/L
	Rh	103	7.667	-1.67				ug/L
⌈	Mo	98	196.424	0.00	0.0923	0.017	18.732	ug/L
|	Ag	107	22.667	-0.00	-0.0181	0.002	11.013	ug/L
|	Cd	114	4.479	-0.00	0.0144	0.004	29.202	ug/L
|>	In	115	267949.352	267949.35				ug/L
|	Sn	118	1132.197	-0.00	-0.1484	0.008	5.405	ug/L
⌊	Sb	123	284.753	0.00	0.0983	0.007	7.260	ug/L
⌈	Ba	135	11.000	-0.00	-0.0154	0.003	17.833	ug/L
|	Ce	140	33.337	0.00				ug/L
⌊>	Tb	159	329871.670	329871.67				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	30.667	0.00	0.0025	0.001	22.622	ug/L
|	Tl	205	40.004	0.00	-0.0325	0.003	7.744	ug/L
|	Pb	206	824.376	-0.00	-0.2209	0.003	1.407	ug/L
|	Pb	207	666.029	-0.00	-0.2039	0.009	4.421	ug/L
|	Pb	208	3221.905	-0.01	-0.2172	0.005	2.261	ug/L
|	U	238	52.667	0.00	-0.0113	0.000	0.916	ug/L
⌊>	Bi	209	371397.093	371397.09				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 19:24:24
Page 1

Approved: November 24, 2010

⌈	Na	23	12852.873	0.00	-0.0111	0.000	0.686	mg/L
|	Mg	24	286.699	0.00	-0.0158	0.000	0.055	mg/L
|	K	39	462329.071	-0.09	-0.0167	0.002	9.795	mg/L
|	Ca	43	180.020	-0.00	-0.0070	0.001	13.551	mg/L
|	Fe	54	50507.840	-0.01	-0.0162	0.000	2.255	mg/L
|	Fe	57	7323.418	-0.00	-0.0058	0.002	36.946	mg/L
⌊>	Sc-1	45	303555.860	303555.86				mg/L
	Cl	35	25392.199	-6008.36				mg/L
	Kr	83	38.000	2.00				mg/L
	Br	81	6616.855	238.15				mg/L
	P	31	10278.626	762.74				mg/L
	S	34	178411.094	-6465.85				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		107.713			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.918			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.613			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.018			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 19:24:24
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 19:24:24

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: PBS 78 WG348764-02

Sample Date/Time: Tuesday, November 23, 2010 19:28:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 36
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25231.796	0.00				ug/L
|	Be	9	6.667	-0.00	0.0236	0.022	92.223	ug/L
|	Al	27	8537.005	0.01	0.5930	0.162	27.307	ug/L
⌊>	Sc	45	302216.481	302216.48				ug/L
⌈	Ti	49	50.005	-0.00	0.0518	0.015	28.182	ug/L
|	V	51	3001.593	0.00	0.0027	0.010	389.365	ug/L
|	Cr	52	9207.329	-0.00	-0.0536	0.013	23.352	ug/L
|	Cr	53	280.032	0.00	0.0057	0.053	939.102	ug/L
|	Mn	55	762.370	0.00	0.0267	0.000	0.974	ug/L
|	Co	59	184.337	-0.00	-0.0048	0.000	7.020	ug/L
|	Ni	60	58.667	0.00	0.0052	0.005	89.881	ug/L
|	Cu	65	113.668	0.00	-0.0170	0.004	24.508	ug/L
|	Zn	66	2767.744	0.00	0.9357	0.026	2.730	ug/L
|>	Ge	72	353576.384	353576.38				ug/L
|	As	75	-88.726	0.00	0.0264	0.049	186.792	ug/L
|	Se	77	70.007	0.00	0.2925	0.612	209.152	ug/L
|	Se	82	6.731	0.00	-0.0108	0.134	1243.093	ug/L
⌊	Rb	85	17.000	-0.00				mg/L
	Y	89	212893.678	13968.20				ug/L
	Rh	103	9.000	-0.33				ug/L
⌈	Mo	98	71.535	0.00	0.0147	0.010	65.278	ug/L
|	Ag	107	26.000	0.00	-0.0169	0.001	5.391	ug/L
|	Cd	114	11.889	0.00	0.0234	0.010	41.134	ug/L
|>	In	115	264011.819	264011.82				ug/L
|	Sn	118	1426.235	-0.00	-0.0413	0.018	42.976	ug/L
⌊	Sb	123	126.452	0.00	0.0425	0.003	8.044	ug/L
⌈	Ba	135	21.334	0.00	-0.0075	0.005	65.417	ug/L
|	Ce	140	6.667	-0.00				ug/L
⌊>	Tb	159	326860.225	326860.22				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	66.334	0.00	0.0092	0.002	17.117	ug/L
|	Tl	205	156.684	0.00	-0.0237	0.003	10.916	ug/L
|	Pb	206	890.715	-0.00	-0.2019	0.007	3.408	ug/L
|	Pb	207	763.370	-0.00	-0.1761	0.003	1.909	ug/L
|	Pb	208	3485.271	-0.01	-0.1988	0.003	1.548	ug/L
|	U	238	21.334	-0.00	-0.0124	0.000	2.065	ug/L
⌊>	Bi	209	362771.573	362771.57				ug/L

Sample ID: PBS 78 WG348764-02
Report Date/Time: Tuesday, November 23, 2010 19:31:09
Page 1

Approved: November 24, 2010

⌈	Na	23	17490.365	0.02	-0.0101	0.000	1.058	mg/L
|	Mg	24	1993.732	0.01	-0.0152	0.000	0.358	mg/L
|	K	39	482700.535	-0.01	-0.0140	0.002	13.519	mg/L
|	Ca	43	233.359	0.00	-0.0043	0.003	62.066	mg/L
|	Fe	54	49227.213	-0.01	-0.0183	0.002	9.750	mg/L
|	Fe	57	6903.074	-0.00	-0.0074	0.001	17.855	mg/L
⌊>	Sc-1	45	302216.481	302216.48				mg/L
	Cl	35	28414.335	-2986.22				mg/L
	Kr	83	31.000	-5.00				mg/L
	Br	81	6484.102	105.40				mg/L
	P	31	8897.291	-618.60				mg/L
	S	34	196584.397	11707.45				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.770			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.347			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.649			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.602			
⌈	Na	23					

Sample ID: PBS 78 WG348764-02
Report Date/Time: Tuesday, November 23, 2010 19:31:09
Page 2

Approved: November 24, 2010

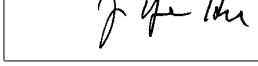
Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 78 WG348764-02
Report Date/Time: Tuesday, November 23, 2010 19:31:09
Page 3

Approved: November 24, 2010



Method 6020 - Summary Report

Sample ID: LCSS 78 WG348764-03

Sample Date/Time: Tuesday, November 23, 2010 19:35:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 37
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26017.151	0.01				ug/L
|	Be	9	7451.442	0.03	25.6124	1.000	3.903	ug/L
|	Al	27	162917.994	0.54	26.4015	1.549	5.867	ug/L
|>	Sc	45	290323.740	290323.74				ug/L
⌈	Ti	49	83.342	0.00	0.0998	0.062	62.428	ug/L
|	V	51	243185.899	0.66	22.7779	0.280	1.227	ug/L
|	Cr	52	214778.220	0.57	23.5566	0.099	0.421	ug/L
|	Cr	53	24692.919	0.07	23.7926	0.378	1.590	ug/L
|	Mn	55	332835.760	0.92	23.7098	0.062	0.262	ug/L
|	Co	59	256964.005	0.71	23.3564	0.243	1.042	ug/L
|	Ni	60	53230.870	0.15	23.2500	0.404	1.737	ug/L
|	Cu	65	52247.331	0.14	24.5945	0.357	1.454	ug/L
|	Zn	66	30553.914	0.08	24.3687	0.142	0.582	ug/L
|>	Ge	72	361984.833	361984.83				ug/L
|	As	75	18617.158	0.05	24.9173	0.168	0.672	ug/L
|	Se	77	1480.258	0.00	23.9960	2.626	10.945	ug/L
|	Se	82	1798.526	0.00	24.4118	0.558	2.284	ug/L
⌊	Rb	85	20.667	0.00				mg/L
	Y	89	217249.342	18323.86				ug/L
	Rh	103	16.667	7.33				ug/L
⌈	Mo	98	96.088	0.00	0.0286	0.004	15.093	ug/L
|	Ag	107	85811.809	0.32	25.8525	0.313	1.210	ug/L
|	Cd	114	21830.582	0.08	25.5333	0.144	0.562	ug/L
|>	In	115	271710.849	271710.85				ug/L
|	Sn	118	1134.998	-0.00	-0.1528	0.016	10.225	ug/L
⌊	Sb	123	70656.358	0.26	24.8871	0.206	0.826	ug/L
⌈	Ba	135	33429.458	0.10	25.0761	0.423	1.688	ug/L
|	Ce	140	30.003	-0.00				ug/L
|>	Tb	159	330188.975	330188.98				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	140540.179	0.38	25.2849	0.193	0.764	ug/L
|	Tl	205	338805.637	0.92	24.8627	0.439	1.764	ug/L
|	Pb	206	116285.037	0.31	25.1441	0.053	0.209	ug/L
|	Pb	207	102822.025	0.27	24.5723	0.302	1.230	ug/L
|	Pb	208	471737.678	1.26	24.8017	0.084	0.338	ug/L
|	U	238	729966.885	1.98	25.2676	0.271	1.074	ug/L
|>	Bi	209	369390.120	369390.12				ug/L

Sample ID: LCSS 78 WG348764-03
Report Date/Time: Tuesday, November 23, 2010 19:37:53
Page 1

Approved: November 24, 2010

⌈	Na	23	22310.426	0.04	-0.0089	0.000	1.158	mg/L
|	Mg	24	1296.882	0.00	-0.0154	0.000	0.377	mg/L
|	K	39	471949.747	0.02	-0.0129	0.002	13.812	mg/L
|	Ca	43	226.692	0.00	-0.0042	0.001	24.942	mg/L
|	Fe	54	53614.506	0.01	-0.0053	0.005	91.816	mg/L
|	Fe	57	7109.911	-0.00	-0.0054	0.002	38.480	mg/L
⌊>	Sc-1	45	290323.740	290323.74				mg/L
	Cl	35	29261.418	-2139.14				mg/L
	Kr	83	37.667	1.67				mg/L
	Br	81	6472.762	94.06				mg/L
	P	31	9531.876	15.99				mg/L
	S	34	181058.548	-3818.40				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		109.309			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.419			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.715			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.456			
⌈	Na	23					

Sample ID: LCSS 78 WG348764-03
Report Date/Time: Tuesday, November 23, 2010 19:37:53
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046817 WG348764-01

Sample Date/Time: Tuesday, November 23, 2010 19:42:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25065.144	0.00				ug/L
|	Be	9	33.333	0.00	0.1109	0.036	32.655	ug/L
|	Al	27	5527891.181	18.25	883.5276	55.093	6.236	ug/L
⌊>	Sc	45	302714.559	302714.56				ug/L
⌈	Ti	49	10559.964	0.03	15.4868	0.334	2.153	ug/L
|	V	51	35361.334	0.09	3.0251	0.151	4.982	ug/L
|	Cr	52	48478.491	0.11	4.3701	0.188	4.300	ug/L
|	Cr	53	4784.965	0.01	4.3331	0.482	11.120	ug/L
|	Mn	55	921338.954	2.51	64.8985	3.613	5.568	ug/L
|	Co	59	34914.718	0.09	3.1165	0.201	6.458	ug/L
|	Ni	60	19536.626	0.05	8.4181	0.384	4.565	ug/L
|	Cu	65	31599.931	0.09	14.6678	0.740	5.044	ug/L
|	Zn	66	47645.214	0.13	38.3368	1.725	4.501	ug/L
| >	Ge	72	366304.993	366304.99				ug/L
|	As	75	845.231	0.00	1.2588	0.023	1.813	ug/L
|	Se	77	96.677	0.00	0.6959	0.474	68.071	ug/L
|	Se	82	14.020	0.00	0.0856	0.279	325.463	ug/L
⌊	Rb	85	11138.995	0.03				mg/L
	Y	89	233255.777	34330.29				ug/L
	Rh	103	11.000	1.67				ug/L
⌈	Mo	98	354.727	0.00	0.1884	0.002	0.947	ug/L
|	Ag	107	264.340	0.00	0.0546	0.010	18.507	ug/L
|	Cd	114	202.922	0.00	0.2461	0.008	3.446	ug/L
| >	In	115	271990.825	271990.83				ug/L
|	Sn	118	1311.419	-0.00	-0.0941	0.016	17.357	ug/L
⌊	Sb	123	230.665	0.00	0.0779	0.009	11.537	ug/L
⌈	Ba	135	14283.376	0.04	10.7649	0.921	8.555	ug/L
|	Ce	140	89206.354	0.27				ug/L
⌊>	Tb	159	328389.041	328389.04				ug/L
⌈	Ho	165	1126.843	0.00				ug/L
|	Tl	203	195.671	0.00	0.0322	0.003	8.979	ug/L
|	Tl	205	466.724	0.00	-0.0011	0.005	469.322	ug/L
|	Pb	206	34821.677	0.09	7.2477	0.386	5.329	ug/L
|	Pb	207	29423.310	0.08	6.7706	0.413	6.099	ug/L
|	Pb	208	138151.099	0.35	6.9882	0.380	5.437	ug/L
|	U	238	3227.887	0.01	0.0987	0.005	4.712	ug/L
⌊>	Bi	209	369315.729	369315.73				ug/L

Sample ID: L1011046817 WG348764-01
Report Date/Time: Tuesday, November 23, 2010 19:44:38
Page 1

Approved: November 24, 2010

⌈	Na	23	388974.482	1.25	0.0671	0.006	8.347	mg/L
|	Mg	24	12464616.079	41.20	4.2161	0.197	4.672	mg/L
|	K	39	2055356.019	5.19	0.1784	0.016	8.703	mg/L
|	Ca	43	227277.876	0.75	11.1091	0.795	7.153	mg/L
|	Fe	54	2907962.665	9.44	5.5524	0.529	9.532	mg/L
|	Fe	57	1445275.061	4.75	5.9038	0.433	7.332	mg/L
⌊>	Sc-1	45	302714.559	302714.56				mg/L
	Cl	35	40766.935	9366.38				mg/L
	Kr	83	36.000	0.00				mg/L
	Br	81	6879.700	501.00				mg/L
	P	31	65299.931	55784.04				mg/L
	S	34	218953.467	34076.52				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		110.614			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.531			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.138			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.435			
⌈	Na	23					

Sample ID: L1011046817 WG348764-01
Report Date/Time: Tuesday, November 23, 2010 19:44:38
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011046817 WG348764-01
Report Date/Time: Tuesday, November 23, 2010 19:44:38
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046818S WG348764-04

Sample Date/Time: Tuesday, November 23, 2010 19:49:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 39
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24713.939	0.00				ug/L
|	Be	9	1427.439	0.00	4.8157	0.981	20.365	ug/L
|	Al	27	6377443.542	21.58	1044.6702	182.423	17.462	ug/L
⌊>	Sc	45	295163.203	295163.20				ug/L
⌈	Ti	49	8934.946	0.02	13.5064	2.221	16.447	ug/L
|	V	51	72543.946	0.20	6.7213	1.118	16.634	ug/L
|	Cr	52	77970.980	0.19	7.9955	1.400	17.505	ug/L
|	Cr	53	8494.492	0.02	8.1589	1.130	13.855	ug/L
|	Mn	55	1206529.457	3.40	87.6544	15.685	17.894	ug/L
|	Co	59	67729.483	0.19	6.2559	0.982	15.695	ug/L
|	Ni	60	20589.429	0.06	9.1507	1.607	17.562	ug/L
|	Cu	65	22770.190	0.06	10.8802	1.787	16.423	ug/L
|	Zn	66	57259.149	0.16	47.8503	7.411	15.488	ug/L
| >	Ge	72	355726.175	355726.17				ug/L
|	As	75	4150.472	0.01	5.7727	0.799	13.842	ug/L
|	Se	77	336.706	0.00	4.8547	0.791	16.300	ug/L
|	Se	82	333.332	0.00	4.5239	0.649	14.338	ug/L
⌊	Rb	85	10744.957	0.03				mg/L
	Y	89	231018.035	32092.55				ug/L
	Rh	103	14.333	5.00				ug/L
⌈	Mo	98	217.498	0.00	0.1083	0.028	26.041	ug/L
|	Ag	107	13640.553	0.05	4.2293	0.626	14.813	ug/L
|	Cd	114	4121.002	0.02	4.9940	0.958	19.178	ug/L
| >	In	115	262914.638	262914.64				ug/L
|	Sn	118	1911.783	0.00	0.1289	0.011	8.221	ug/L
⌊	Sb	123	552.347	0.00	0.1978	0.018	8.897	ug/L
⌈	Ba	135	18863.238	0.06	14.5907	2.103	14.410	ug/L
|	Ce	140	94228.573	0.29				ug/L
⌊>	Tb	159	319715.202	319715.20				ug/L
⌈	Ho	165	1256.873	0.00				ug/L
|	Tl	203	23176.789	0.06	4.3125	0.623	14.443	ug/L
|	Tl	205	56051.985	0.16	4.2270	0.712	16.846	ug/L
|	Pb	206	54503.768	0.15	11.9916	1.919	16.003	ug/L
|	Pb	207	45701.804	0.12	11.1052	1.808	16.276	ug/L
|	Pb	208	217544.125	0.59	11.6336	1.835	15.769	ug/L
|	U	238	127372.581	0.36	4.5517	0.675	14.826	ug/L
⌊>	Bi	209	356873.437	356873.44				ug/L

Sample ID: L1011046818S WG348764-04
Report Date/Time: Tuesday, November 23, 2010 19:51:23
Page 1

Approved: November 24, 2010

⌈	Na	23	455954.640	1.51	0.0833	0.015	17.814	mg/L
|	Mg	24	15678725.024	53.12	5.4406	0.828	15.214	mg/L
|	K	39	2073354.336	5.41	0.1868	0.033	17.661	mg/L
|	Ca	43	290533.026	0.98	14.5443	2.511	17.266	mg/L
|	Fe	54	1993882.242	6.58	3.8648	0.603	15.590	mg/L
|	Fe	57	1012132.720	3.40	4.2271	0.663	15.687	mg/L
⌊>	Sc-1	45	295163.203	295163.20				mg/L
	Cl	35	51277.174	19876.62				mg/L
	Kr	83	39.667	3.67				mg/L
	Br	81	6891.041	512.34				mg/L
	P	31	61511.184	51995.30				mg/L
	S	34	233946.225	49069.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		107.419			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.910			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.361			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.950			
⌈	Na	23					

Sample ID: L1011046818S WG348764-04
Report Date/Time: Tuesday, November 23, 2010 19:51:23
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046819SD WG348764-05

Sample Date/Time: Tuesday, November 23, 2010 19:55:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 40
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26317.926	0.00				ug/L
|	Be	9	1450.773	0.00	4.7124	0.552	11.712	ug/L
|	Al	27	8706625.957	28.33	1371.2409	191.685	13.979	ug/L
⌊>	Sc	45	307076.922	307076.92				ug/L
⌈	Ti	49	10550.041	0.03	15.8745	2.648	16.679	ug/L
|	V	51	84102.351	0.23	7.7981	1.166	14.949	ug/L
|	Cr	52	83082.119	0.21	8.5450	1.204	14.088	ug/L
|	Cr	53	8921.583	0.02	8.5410	1.264	14.794	ug/L
|	Mn	55	1545412.652	4.33	111.7044	15.331	13.725	ug/L
|	Co	59	68138.246	0.19	6.2618	0.822	13.134	ug/L
|	Ni	60	21110.071	0.06	9.3348	1.360	14.572	ug/L
|	Cu	65	38275.971	0.11	18.2414	2.014	11.039	ug/L
|	Zn	66	73022.075	0.20	61.1097	7.951	13.011	ug/L
| >	Ge	72	357464.605	357464.61				ug/L
|	As	75	4341.973	0.01	6.0022	0.627	10.443	ug/L
|	Se	77	400.049	0.00	5.9214	2.197	37.104	ug/L
|	Se	82	351.362	0.00	4.7491	0.381	8.013	ug/L
⌊	Rb	85	15800.073	0.04				mg/L
	Y	89	241683.715	42758.23				ug/L
	Rh	103	19.667	10.33				ug/L
⌈	Mo	98	266.833	0.00	0.1398	0.017	12.005	ug/L
|	Ag	107	14008.021	0.05	4.3418	0.502	11.564	ug/L
|	Cd	114	4379.143	0.02	5.3028	0.752	14.173	ug/L
| >	In	115	262961.864	262961.86				ug/L
|	Sn	118	2663.157	0.00	0.3893	0.098	25.278	ug/L
⌊	Sb	123	379.755	0.00	0.1350	0.018	12.997	ug/L
⌈	Ba	135	36101.035	0.11	27.5157	3.303	12.004	ug/L
|	Ce	140	128499.634	0.40				ug/L
⌊>	Tb	159	324959.087	324959.09				ug/L
⌈	Ho	165	1800.344	0.01				ug/L
|	Tl	203	24455.389	0.07	4.5328	0.534	11.787	ug/L
|	Tl	205	59823.591	0.17	4.4964	0.663	14.751	ug/L
|	Pb	206	92468.050	0.25	20.5377	2.768	13.476	ug/L
|	Pb	207	78149.610	0.21	19.1725	2.504	13.060	ug/L
|	Pb	208	365818.522	1.00	19.7471	2.586	13.096	ug/L
|	U	238	134796.509	0.38	4.7988	0.625	13.034	ug/L
⌊>	Bi	209	358378.485	358378.49				ug/L

Sample ID: L1011046819SD WG348764-05
Report Date/Time: Tuesday, November 23, 2010 19:58:08
Page 1

Approved: November 24, 2010

⌈	Na	23	471277.402	1.50	0.0828	0.013	15.276	mg/L
|	Mg	24	23369342.552	76.11	7.8018	0.909	11.651	mg/L
|	K	39	2778422.223	7.44	0.2619	0.035	13.401	mg/L
|	Ca	43	399569.370	1.30	19.2506	2.515	13.066	mg/L
|	Fe	54	2710615.839	8.65	5.0874	0.646	12.696	mg/L
|	Fe	57	1375069.362	4.45	5.5306	0.700	12.664	mg/L
⌊>	Sc-1	45	307076.922	307076.92				mg/L
	Cl	35	49181.333	17780.78				mg/L
	Kr	83	36.334	0.33				mg/L
	Br	81	6883.702	505.00				mg/L
	P	31	77221.817	67705.93				mg/L
	S	34	247535.654	62658.71				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		107.944			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.928			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.040			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.372			
⌈	Na	23					

Sample ID: L1011046819SD WG348764-05
Report Date/Time: Tuesday, November 23, 2010 19:58:08
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011046819SD WG348764-05
Report Date/Time: Tuesday, November 23, 2010 19:58:08
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046801

Sample Date/Time: Tuesday, November 23, 2010 20:02:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 41
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25917.131	0.00				ug/L
|	Be	9	30.667	0.00	0.1015	0.013	12.346	ug/L
|	Al	27	7219700.016	23.58	1141.0333	151.227	13.253	ug/L
⌊>	Sc	45	305773.022	305773.02				ug/L
⌈	Ti	49	5999.087	0.02	8.7224	1.142	13.093	ug/L
|	V	51	31324.761	0.08	2.6251	0.410	15.608	ug/L
|	Cr	52	33517.983	0.06	2.6424	0.455	17.221	ug/L
|	Cr	53	3284.212	0.01	2.8652	0.538	18.794	ug/L
|	Mn	55	547349.907	1.48	38.2576	5.935	15.513	ug/L
|	Co	59	14238.818	0.04	1.2485	0.222	17.745	ug/L
|	Ni	60	7513.293	0.02	3.2002	0.580	18.125	ug/L
|	Cu	65	14332.930	0.04	6.5640	1.084	16.509	ug/L
|	Zn	66	69059.935	0.18	55.7955	8.480	15.198	ug/L
|>	Ge	72	368968.252	368968.25				ug/L
|	As	75	441.472	0.00	0.7237	0.030	4.181	ug/L
|	Se	77	80.008	0.00	0.4116	0.577	140.255	ug/L
|	Se	82	14.316	0.00	0.0876	0.118	134.669	ug/L
⌊	Rb	85	13668.315	0.04				mg/L
	Y	89	234388.348	35462.86				ug/L
	Rh	103	7.000	-2.33				ug/L
⌈	Mo	98	221.721	0.00	0.1062	0.013	11.960	ug/L
|	Ag	107	170.003	0.00	0.0262	0.005	20.478	ug/L
|	Cd	114	179.791	0.00	0.2193	0.062	28.089	ug/L
|>	In	115	272046.256	272046.26				ug/L
|	Sn	118	1663.739	0.00	0.0240	0.057	238.473	ug/L
⌊	Sb	123	62.287	-0.00	0.0186	0.002	10.117	ug/L
⌈	Ba	135	17404.941	0.05	13.2439	2.394	18.076	ug/L
|	Ce	140	82701.215	0.25				ug/L
⌊>	Tb	159	325536.260	325536.26				ug/L
⌈	Ho	165	1136.848	0.00				ug/L
|	Tl	203	815.045	0.00	0.1436	0.059	40.973	ug/L
|	Tl	205	2013.755	0.01	0.1124	0.055	48.491	ug/L
|	Pb	206	32464.652	0.08	6.7193	1.275	18.977	ug/L
|	Pb	207	27523.490	0.07	6.2999	1.169	18.560	ug/L
|	Pb	208	128241.028	0.33	6.4486	1.270	19.688	ug/L
|	U	238	3185.549	0.01	0.0970	0.019	19.768	ug/L
⌊>	Bi	209	370265.785	370265.79				ug/L

Sample ID: L1011046801
Report Date/Time: Tuesday, November 23, 2010 20:04:54
Page 1

Approved: November 24, 2010

Na	23	415477.836	1.32	0.0716	0.011	15.401	mg/L	
Mg	24	5897306.146	19.28	1.9645	0.278	14.136	mg/L	
K	39	1947935.848	4.76	0.1625	0.029	17.812	mg/L	
Ca	43	120662.748	0.39	5.8203	1.033	17.744	mg/L	
Fe	54	1797823.896	5.71	3.3538	0.372	11.087	mg/L	
Fe	57	785903.746	2.54	3.1563	0.514	16.288	mg/L	
> Sc-1	45	305773.022	305773.02				mg/L	
Cl	35	47727.685	16327.13				mg/L	
Kr	83	40.334	4.33				mg/L	
Br	81	7496.142	1117.44				mg/L	
P	31	61582.604	52066.72				mg/L	
S	34	222608.055	37731.11				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		111.418			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		108.553			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		104.225			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.701			
Na	23					

Sample ID: L1011046801
Report Date/Time: Tuesday, November 23, 2010 20:04:54
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011046801
Report Date/Time: Tuesday, November 23, 2010 20:04:54
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046802

Sample Date/Time: Tuesday, November 23, 2010 20:09:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 42
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26785.920	0.01				ug/L
|	Be	9	18.000	0.00	0.0605	0.001	1.228	ug/L
|	Al	27	6672867.213	21.95	1062.5025	27.427	2.581	ug/L
⌊>	Sc	45	303641.435	303641.43				ug/L
⌈	Ti	49	8988.270	0.03	13.5819	0.370	2.722	ug/L
|	V	51	63181.235	0.17	5.8132	0.106	1.828	ug/L
|	Cr	52	36250.290	0.08	3.1069	0.097	3.115	ug/L
|	Cr	53	3374.242	0.01	3.0732	0.218	7.096	ug/L
|	Mn	55	514818.914	1.45	37.3626	0.713	1.907	ug/L
|	Co	59	13555.317	0.04	1.2339	0.023	1.846	ug/L
|	Ni	60	8150.402	0.02	3.6076	0.094	2.604	ug/L
|	Cu	65	23795.517	0.07	11.3672	0.181	1.594	ug/L
|	Zn	66	143969.194	0.40	122.4786	3.008	2.456	ug/L
| >	Ge	72	355510.883	355510.88				ug/L
|	As	75	513.233	0.00	0.8428	0.014	1.690	ug/L
|	Se	77	56.673	-0.00	0.0583	0.389	667.321	ug/L
|	Se	82	18.690	0.00	0.1547	0.095	61.266	ug/L
⌊	Rb	85	12089.758	0.03				mg/L
	Y	89	226632.018	27706.53				ug/L
	Rh	103	16.000	6.67				ug/L
⌈	Mo	98	253.791	0.00	0.1293	0.015	11.247	ug/L
|	Ag	107	461.349	0.00	0.1168	0.002	1.700	ug/L
|	Cd	114	387.334	0.00	0.4705	0.068	14.459	ug/L
| >	In	115	266473.850	266473.85				ug/L
|	Sn	118	1780.825	0.00	0.0753	0.011	14.639	ug/L
⌊	Sb	123	59.991	-0.00	0.0182	0.000	1.402	ug/L
⌈	Ba	135	18567.743	0.06	13.9357	0.107	0.767	ug/L
|	Ce	140	83203.003	0.25				ug/L
⌊>	Tb	159	329763.649	329763.65				ug/L
⌈	Ho	165	1246.870	0.00				ug/L
|	Tl	203	735.368	0.00	0.1294	0.018	14.202	ug/L
|	Tl	205	1973.733	0.01	0.1096	0.034	31.069	ug/L
|	Pb	206	88844.553	0.24	19.1293	0.266	1.388	ug/L
|	Pb	207	73310.473	0.19	17.4285	0.108	0.620	ug/L
|	Pb	208	347648.360	0.92	18.1881	0.146	0.802	ug/L
|	U	238	3278.904	0.01	0.1005	0.002	2.430	ug/L
⌊>	Bi	209	369129.499	369129.50				ug/L

Sample ID: L1011046802
Report Date/Time: Tuesday, November 23, 2010 20:11:40
Page 1

Approved: November 24, 2010

Na	23	391307.585	1.25	0.0673	0.001	1.152	mg/L
Mg	24	6034967.333	19.87	2.0256	0.029	1.437	mg/L
K	39	1947107.148	4.80	0.1643	0.001	0.724	mg/L
Ca	43	111694.837	0.37	5.4305	0.046	0.854	mg/L
Fe	54	1933224.585	6.19	3.6373	0.059	1.617	mg/L
Fe	57	803957.181	2.62	3.2554	0.025	0.781	mg/L
> Sc-1	45	303641.435	303641.43				mg/L
Cl	35	47716.254	16315.70				mg/L
Kr	83	35.667	-0.33				mg/L
Br	81	7155.226	776.52				mg/L
P	31	73303.799	63787.91				mg/L
S	34	242945.083	58068.14				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		107.354			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		106.330			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		105.578			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.383			
Na	23					

Sample ID: L1011046802
Report Date/Time: Tuesday, November 23, 2010 20:11:40
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046802PS WG349468-01

Sample Date/Time: Tuesday, November 23, 2010 20:16:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 43
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25850.101	0.00				ug/L
|	Be	9	16167.078	0.05	53.0530	2.286	4.308	ug/L
|	Al	27	6912435.477	22.73	1100.2387	46.074	4.188	ug/L
⌊>	Sc	45	303812.973	303812.97				ug/L
⌈	Ti	49	9081.700	0.03	13.6300	0.599	4.395	ug/L
|	V	51	572029.618	1.59	54.5812	0.706	1.294	ug/L
|	Cr	52	465341.975	1.27	52.9746	1.559	2.943	ug/L
|	Cr	53	55445.598	0.15	54.3808	2.235	4.110	ug/L
|	Mn	55	1201495.298	3.36	86.6395	2.236	2.581	ug/L
|	Co	59	547496.735	1.53	50.3513	0.237	0.471	ug/L
|	Ni	60	120725.948	0.34	53.3563	0.946	1.772	ug/L
|	Cu	65	130337.896	0.36	62.1539	0.798	1.284	ug/L
|	Zn	66	201106.110	0.56	170.4600	1.759	1.032	ug/L
|>	Ge	72	357962.972	357962.97				ug/L
|	As	75	38943.222	0.11	52.5460	0.504	0.959	ug/L
|	Se	77	2750.654	0.01	45.8833	1.865	4.065	ug/L
|	Se	82	3483.994	0.01	47.9243	0.751	1.566	ug/L
⌊	Rb	85	12126.804	0.03				mg/L
	Y	89	228466.692	29541.21				ug/L
	Rh	103	26.667	17.33				ug/L
⌈	Mo	98	268.280	0.00	0.1359	0.003	2.366	ug/L
|	Ag	107	174268.053	0.64	52.7762	1.317	2.496	ug/L
|	Cd	114	45860.319	0.17	53.8865	1.160	2.152	ug/L
|>	In	115	270453.990	270453.99				ug/L
|	Sn	118	1932.453	0.00	0.1175	0.010	8.321	ug/L
⌊	Sb	123	148031.100	0.55	52.3857	0.327	0.624	ug/L
⌈	Ba	135	86950.253	0.26	65.1968	0.902	1.384	ug/L
|	Ce	140	82819.913	0.25				ug/L
⌊>	Tb	159	330552.611	330552.61				ug/L
⌈	Ho	165	1290.213	0.00				ug/L
|	Tl	203	293975.514	0.79	52.6404	0.257	0.488	ug/L
|	Tl	205	720549.245	1.94	52.6661	0.796	1.511	ug/L
|	Pb	206	332059.858	0.89	72.1950	0.771	1.068	ug/L
|	Pb	207	285080.851	0.76	68.4428	0.744	1.087	ug/L
|	Pb	208	1334288.434	3.57	70.5159	0.149	0.211	ug/L
|	U	238	1563329.104	4.21	53.8665	0.101	0.188	ug/L
⌊>	Bi	209	371184.237	371184.24				ug/L

Sample ID: L1011046802PS WG349468-01
Report Date/Time: Tuesday, November 23, 2010 20:18:26
Page 1

Approved: November 24, 2010

⌈	Na	23	390766.551	1.25	0.0671	0.003	5.004	mg/L
|	Mg	24	6092500.568	20.05	2.0441	0.045	2.223	mg/L
|	K	39	1949489.659	4.81	0.1644	0.001	0.455	mg/L
|	Ca	43	111738.655	0.37	5.4295	0.064	1.171	mg/L
|	Fe	54	1902881.108	6.09	3.5763	0.029	0.814	mg/L
|	Fe	57	783616.953	2.55	3.1708	0.113	3.572	mg/L
⌊>	Sc-1	45	303812.973	303812.97				mg/L
	Cl	35	48320.483	16919.93				mg/L
	Kr	83	37.667	1.67				mg/L
	Br	81	7123.871	745.17				mg/L
	P	31	73398.500	63882.61				mg/L
	S	34	226013.747	41136.80				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		108.094			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.918			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.831			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.958			
⌈	Na	23					

Sample ID: L1011046802PS WG349468-01
Report Date/Time: Tuesday, November 23, 2010 20:18:26
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Sample ID: L1011046802PS WG349468-01
Report Date/Time: Tuesday, November 23, 2010 20:18:26
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046802SDL WG349468-02

Sample Date/Time: Tuesday, November 23, 2010 20:23:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 44
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26000.474	0.00				ug/L
|	Be	9	12.667	0.00	0.0435	0.009	20.274	ug/L
|	Al	27	1725813.752	5.72	277.1585	10.247	3.697	ug/L
⌊>	Sc	45	300690.882	300690.88				ug/L
⌈	Ti	49	1910.374	0.01	2.7651	0.134	4.848	ug/L
|	V	51	15159.466	0.03	1.1234	0.017	1.513	ug/L
|	Cr	52	14559.070	0.01	0.5066	0.015	2.867	ug/L
|	Cr	53	820.117	0.00	0.5113	0.157	30.804	ug/L
|	Mn	55	104561.193	0.28	7.2956	0.022	0.308	ug/L
|	Co	59	2918.455	0.01	0.2388	0.003	1.118	ug/L
|	Ni	60	1836.854	0.00	0.7676	0.013	1.667	ug/L
|	Cu	65	5098.017	0.01	2.2918	0.032	1.378	ug/L
|	Zn	66	32528.478	0.08	25.5479	0.160	0.628	ug/L
|>	Ge	72	368557.831	368557.83				ug/L
|	As	75	-7.074	0.00	0.1383	0.027	19.382	ug/L
|	Se	77	50.005	-0.00	-0.0843	0.495	587.247	ug/L
|	Se	82	5.000	0.00	-0.0371	0.055	147.617	ug/L
⌊	Rb	85	2548.684	0.01				mg/L
	Y	89	219624.028	20698.54				ug/L
	Rh	103	8.333	-1.00				ug/L
⌈	Mo	98	70.380	0.00	0.0120	0.006	47.758	ug/L
|	Ag	107	113.668	0.00	0.0086	0.006	65.564	ug/L
|	Cd	114	85.020	0.00	0.1068	0.006	5.612	ug/L
|>	In	115	276436.757	276436.76				ug/L
|	Sn	118	972.447	-0.00	-0.2128	0.020	9.458	ug/L
⌊	Sb	123	354.045	0.00	0.1193	0.015	12.571	ug/L
⌈	Ba	135	3870.454	0.01	2.8639	0.009	0.311	ug/L
|	Ce	140	17687.402	0.05				ug/L
⌊>	Tb	159	332297.280	332297.28				ug/L
⌈	Ho	165	263.363	0.00				ug/L
|	Tl	203	746.369	0.00	0.1292	0.004	3.014	ug/L
|	Tl	205	1733.658	0.00	0.0900	0.010	11.425	ug/L
|	Pb	206	19454.767	0.05	3.8065	0.029	0.770	ug/L
|	Pb	207	16093.435	0.04	3.4782	0.063	1.805	ug/L
|	Pb	208	75646.863	0.18	3.5887	0.077	2.151	ug/L
|	U	238	775.038	0.00	0.0133	0.001	7.083	ug/L
⌊>	Bi	209	375215.219	375215.22				ug/L

Approved: November 24, 2010

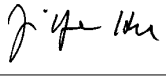
⌈	Na	23	108452.432	0.32	0.0089	0.001	8.913	mg/L
|	Mg	24	1644176.421	5.47	0.5460	0.012	2.136	mg/L
|	K	39	851938.257	1.23	0.0318	0.003	9.996	mg/L
|	Ca	43	22146.729	0.07	1.0747	0.002	0.141	mg/L
|	Fe	54	439650.798	1.29	0.7480	0.033	4.400	mg/L
|	Fe	57	165504.968	0.53	0.6490	0.030	4.560	mg/L
⌊>	Sc-1	45	300690.882	300690.88				mg/L
	Cl	35	33833.814	2433.26				mg/L
	Kr	83	38.334	2.33				mg/L
	Br	81	6576.829	198.13				mg/L
	P	31	22701.758	13185.87				mg/L
	S	34	192925.922	8048.97				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		111.294			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.305			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.390			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.087			
⌈	Na	23					

Sample ID: L1011046802SDL WG349468-02
Report Date/Time: Tuesday, November 23, 2010 20:25:13
Page 2

Approved: November 24, 2010



| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011046802SDL WG349468-02
Report Date/Time: Tuesday, November 23, 2010 20:25:13
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 23, 2010 20:29:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24162.703	-0.00				ug/L
|	Be	9	15191.531	0.05	50.9691	1.032	2.025	ug/L
|	Al	27	309001.506	1.02	49.5354	0.725	1.463	ug/L
⌊>	Sc	45	297254.115	297254.11				ug/L
⌈	Ti	49	60156.419	0.18	94.9322	1.441	1.517	ug/L
|	V	51	477416.367	1.39	47.7958	0.328	0.685	ug/L
|	Cr	52	404777.825	1.16	48.2823	0.135	0.279	ug/L
|	Cr	53	46395.553	0.14	47.7433	2.678	5.609	ug/L
|	Mn	55	631459.456	1.85	47.7976	0.785	1.641	ug/L
|	Co	59	495558.089	1.45	47.8541	0.542	1.132	ug/L
|	Ni	60	103992.676	0.31	48.2579	0.699	1.448	ug/L
|	Cu	65	98211.238	0.29	49.1624	0.393	0.799	ug/L
|	Zn	66	56979.779	0.16	49.6888	0.319	0.642	ug/L
|>	Ge	72	340889.295	340889.29				ug/L
|	As	75	35317.912	0.10	50.0459	0.498	0.996	ug/L
|	Se	77	2683.962	0.01	47.0331	1.917	4.075	ug/L
|	Se	82	3446.995	0.01	49.7915	0.379	0.761	ug/L
⌊	Rb	85	1371.441	0.00				mg/L
	Y	89	206980.595	8055.11				ug/L
	Rh	103	18.000	8.67				ug/L
⌈	Mo	98	154492.250	0.60	100.7928	2.421	2.402	ug/L
|	Ag	107	158931.262	0.62	50.5222	0.553	1.094	ug/L
|	Cd	114	41778.892	0.16	51.5346	1.231	2.390	ug/L
|>	In	115	257634.065	257634.06				ug/L
|	Sn	118	142328.512	0.55	49.7568	0.953	1.915	ug/L
⌊	Sb	123	135833.606	0.53	50.4659	0.842	1.669	ug/L
⌈	Ba	135	63388.239	0.20	49.6772	0.577	1.161	ug/L
|	Ce	140	46.671	0.00				ug/L
⌊>	Tb	159	316200.749	316200.75				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	264265.437	0.75	49.6245	0.443	0.892	ug/L
|	Tl	205	661524.250	1.87	50.7082	0.467	0.920	ug/L
|	Pb	206	214389.899	0.60	48.7558	0.426	0.875	ug/L
|	Pb	207	198350.318	0.56	49.8429	0.245	0.491	ug/L
|	Pb	208	887130.637	2.49	49.0537	0.288	0.587	ug/L
|	U	238	1391723.382	3.93	50.2935	0.507	1.008	ug/L
⌊>	Bi	209	353925.375	353925.38				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 20:31:58
Page 1

Approved: November 24, 2010

Na	23	23109728.416	77.70	4.8764	0.028	0.576	mg/L
Mg	24	14221429.948	47.84	4.8986	0.088	1.804	mg/L
K	39	40216786.369	133.69	4.9362	0.094	1.913	mg/L
Ca	43	100745.459	0.34	5.0012	0.131	2.615	mg/L
Fe	54	2575990.396	8.49	4.9918	0.060	1.194	mg/L
Fe	57	1254398.505	4.20	5.2123	0.252	4.830	mg/L
> Sc-1	45	297254.115	297254.11				mg/L
Cl	35	29410.532	-1990.03				mg/L
Kr	83	36.000	-0.00				mg/L
Br	81	6185.913	-192.79				mg/L
P	31	9934.274	418.39				mg/L
S	34	202772.036	17895.09				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	95.592				
Cr	52	96.565				
Cr	53					
Mn	55	95.595				
Co	59	95.708				
Ni	60	96.516				
Cu	65	98.325				
Zn	66	99.378				
> Ge	72		102.939			
As	75	100.092				
Se	77					
Se	82	99.583				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.044				
Cd	114	103.069				
> In	115		102.802			
Sn	118					
Sb	123	100.932				
Ba	135	99.354				
Ce	140					
> Tb	159		101.236			
Ho	165					
Tl	203	99.249				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.107				
U	238	100.587				
> Bi	209		99.125			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 20:31:58
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 20:31:58
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 23, 2010 20:36:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25298.709	0.00				ug/L
|	Be	9	8.667	0.00	0.0299	0.016	53.487	ug/L
|	Al	27	5818.362	-0.00	0.1598	0.078	48.935	ug/L
⌊>	Sc	45	301774.085	301774.09				ug/L
⌈	Ti	49	33.337	-0.00	0.0263	0.032	120.254	ug/L
|	V	51	2870.477	-0.00	-0.0116	0.003	26.164	ug/L
|	Cr	52	8886.369	-0.00	-0.0970	0.009	9.098	ug/L
|	Cr	53	166.685	-0.00	-0.1085	0.045	41.829	ug/L
|	Mn	55	322.008	0.00	-0.0056	0.001	19.173	ug/L
|	Co	59	190.337	-0.00	-0.0044	0.002	37.182	ug/L
|	Ni	60	17.667	-0.00	-0.0132	0.001	6.916	ug/L
|	Cu	65	86.001	-0.00	-0.0306	0.001	4.155	ug/L
|	Zn	66	1165.746	-0.00	-0.4560	0.044	9.632	ug/L
|>	Ge	72	355472.921	355472.92				ug/L
|	As	75	-157.864	-0.00	-0.0665	0.017	25.801	ug/L
|	Se	77	36.670	-0.00	-0.2813	0.397	141.010	ug/L
|	Se	82	1.667	-0.00	-0.0809	0.036	44.878	ug/L
⌊	Rb	85	18.000	-0.00				mg/L
	Y	89	217627.735	18702.25				ug/L
	Rh	103	6.667	-2.67				ug/L
⌈	Mo	98	150.605	0.00	0.0627	0.022	34.945	ug/L
|	Ag	107	16.667	-0.00	-0.0200	0.001	3.459	ug/L
|	Cd	114	-0.297	-0.00	0.0088	0.009	97.126	ug/L
|>	In	115	270621.516	270621.52				ug/L
|	Sn	118	1078.858	-0.00	-0.1701	0.022	13.015	ug/L
⌊	Sb	123	238.623	0.00	0.0811	0.003	4.065	ug/L
⌈	Ba	135	14.667	0.00	-0.0127	0.004	32.260	ug/L
|	Ce	140	30.003	-0.00				ug/L
⌊>	Tb	159	329572.096	329572.10				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	29.000	0.00	0.0022	0.001	33.044	ug/L
|	Tl	205	30.003	-0.00	-0.0332	0.001	2.267	ug/L
|	Pb	206	726.034	-0.00	-0.2423	0.007	3.031	ug/L
|	Pb	207	609.358	-0.00	-0.2175	0.011	5.237	ug/L
|	Pb	208	2862.524	-0.01	-0.2361	0.005	2.086	ug/L
|	U	238	41.334	0.00	-0.0117	0.000	2.900	ug/L
⌊>	Bi	209	371043.653	371043.65				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 20:38:41
Page 1

Approved: November 24, 2010

⌈	Na	23	11103.956	-0.00	-0.0115	0.000	0.676	mg/L
|	Mg	24	333.372	0.00	-0.0158	0.000	0.064	mg/L
|	K	39	464055.663	-0.07	-0.0162	0.002	12.186	mg/L
|	Ca	43	183.353	-0.00	-0.0067	0.001	10.006	mg/L
|	Fe	54	53186.926	0.00	-0.0103	0.006	56.878	mg/L
|	Fe	57	6669.558	-0.00	-0.0083	0.002	24.782	mg/L
⌊>	Sc-1	45	301774.085	301774.09				mg/L
	Cl	35	24956.442	-6444.12				mg/L
	Kr	83	38.334	2.33				mg/L
	Br	81	6408.720	30.02				mg/L
	P	31	9931.601	415.71				mg/L
	S	34	178199.337	-6677.61				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		107.343			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.985			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.517			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.919			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 20:38:41
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 20:38:41

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044929

Sample Date/Time: Tuesday, November 23, 2010 20:43:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 45
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24664.223	0.00				ug/L
|	Be	9	34.000	0.00	0.1159	0.045	39.065	ug/L
|	Al	27	8109678.775	27.30	1321.5142	220.027	16.650	ug/L
⌊>	Sc	45	296259.462	296259.46				ug/L
⌈	Ti	49	5238.592	0.01	8.0053	1.582	19.764	ug/L
|	V	51	31418.527	0.08	2.7834	0.537	19.286	ug/L
|	Cr	52	29609.940	0.06	2.3715	0.533	22.481	ug/L
|	Cr	53	2757.328	0.01	2.4959	0.439	17.572	ug/L
|	Mn	55	686260.905	1.95	50.4452	9.936	19.697	ug/L
|	Co	59	16614.209	0.05	1.5365	0.283	18.418	ug/L
|	Ni	60	9115.671	0.03	4.0886	0.821	20.089	ug/L
|	Cu	65	10261.116	0.03	4.9220	0.855	17.372	ug/L
|	Zn	66	22456.121	0.06	18.1095	3.243	17.908	ug/L
|>	Ge	72	351773.428	351773.43				ug/L
|	As	75	435.912	0.00	0.7464	0.196	26.272	ug/L
|	Se	77	76.675	0.00	0.4147	0.428	103.187	ug/L
|	Se	82	4.977	0.00	-0.0329	0.167	507.163	ug/L
⌊	Rb	85	15781.821	0.04				mg/L
	Y	89	232235.947	33310.46				ug/L
	Rh	103	11.000	1.67				ug/L
⌈	Mo	98	323.766	0.00	0.1769	0.050	28.540	ug/L
|	Ag	107	80.668	0.00	0.0002	0.004	1840.796	ug/L
|	Cd	114	48.590	0.00	0.0681	0.036	52.869	ug/L
|>	In	115	262041.285	262041.29				ug/L
|	Sn	118	941.778	-0.00	-0.2058	0.003	1.350	ug/L
⌊	Sb	123	102.580	0.00	0.0341	0.002	6.717	ug/L
⌈	Ba	135	22719.540	0.07	17.5124	3.051	17.421	ug/L
|	Ce	140	96447.187	0.30				ug/L
⌊>	Tb	159	321083.866	321083.87				ug/L
⌈	Ho	165	1433.583	0.00				ug/L
|	Tl	203	243.005	0.00	0.0419	0.001	3.457	ug/L
|	Tl	205	566.739	0.00	0.0073	0.002	22.772	ug/L
|	Pb	206	13026.773	0.03	2.5333	0.468	18.472	ug/L
|	Pb	207	10899.495	0.03	2.3459	0.435	18.537	ug/L
|	Pb	208	51625.679	0.12	2.4384	0.466	19.110	ug/L
|	U	238	3765.762	0.01	0.1206	0.023	19.065	ug/L
⌊>	Bi	209	359839.215	359839.22				ug/L

Sample ID: L1011044929
Report Date/Time: Tuesday, November 23, 2010 20:45:28
Page 1

Approved: November 24, 2010

Na	23	263038.402	0.85	0.0420	0.009	21.288	mg/L
Mg	24	5266063.615	17.74	1.8066	0.329	18.226	mg/L
K	39	2153660.497	5.65	0.1956	0.036	18.243	mg/L
Ca	43	102641.011	0.35	5.1022	0.897	17.575	mg/L
Fe	54	1843257.579	6.04	3.5475	0.271	7.631	mg/L
Fe	57	882473.782	2.95	3.6615	0.536	14.646	mg/L
Sc-1	45	296259.462	296259.46				mg/L
Cl	35	56913.573	25513.02				mg/L
Kr	83	41.000	5.00				mg/L
Br	81	7101.187	722.48				mg/L
P	31	78617.939	69102.05				mg/L
S	34	212611.227	27734.28				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		106.225			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		104.561			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		102.799			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		100.781			
Na	23					

Sample ID: L1011044929
Report Date/Time: Tuesday, November 23, 2010 20:45:28
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011044929
Report Date/Time: Tuesday, November 23, 2010 20:45:28
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044930

Sample Date/Time: Tuesday, November 23, 2010 20:50:04
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 46
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25165.255	0.00				ug/L
|	Be	9	35.333	0.00	0.1176	0.027	22.884	ug/L
|	Al	27	8998222.277	29.70	1437.2815	186.414	12.970	ug/L
⌊>	Sc	45	303126.604	303126.60				ug/L
⌈	Ti	49	5688.870	0.02	8.5916	1.210	14.088	ug/L
|	V	51	35179.152	0.09	3.1095	0.330	10.627	ug/L
|	Cr	52	32604.200	0.07	2.6799	0.296	11.029	ug/L
|	Cr	53	2924.057	0.01	2.6293	0.361	13.735	ug/L
|	Mn	55	1930640.988	5.43	140.1679	8.354	5.960	ug/L
|	Co	59	16603.346	0.05	1.5165	0.158	10.397	ug/L
|	Ni	60	9265.409	0.03	4.1046	0.442	10.770	ug/L
|	Cu	65	11003.881	0.03	5.2201	0.676	12.944	ug/L
|	Zn	66	34630.445	0.09	28.3526	2.680	9.451	ug/L
|>	Ge	72	355717.766	355717.77				ug/L
|	As	75	493.808	0.00	0.8169	0.098	12.037	ug/L
|	Se	77	70.007	0.00	0.2844	0.440	154.778	ug/L
|	Se	82	24.400	0.00	0.2352	0.095	40.286	ug/L
⌊	Rb	85	16076.801	0.05				mg/L
	Y	89	241571.225	42645.74				ug/L
	Rh	103	11.000	1.67				ug/L
⌈	Mo	98	267.833	0.00	0.1392	0.026	18.441	ug/L
|	Ag	107	168.670	0.00	0.0272	0.005	17.211	ug/L
|	Cd	114	60.379	0.00	0.0816	0.009	11.062	ug/L
|>	In	115	264639.116	264639.12				ug/L
|	Sn	118	1304.618	-0.00	-0.0843	0.013	15.532	ug/L
⌊	Sb	123	76.453	0.00	0.0243	0.003	14.109	ug/L
⌈	Ba	135	22414.835	0.07	17.2299	2.046	11.873	ug/L
|	Ce	140	119334.786	0.37				ug/L
⌊>	Tb	159	322400.459	322400.46				ug/L
⌈	Ho	165	1850.357	0.01				ug/L
|	Tl	203	212.338	0.00	0.0362	0.007	20.355	ug/L
|	Tl	205	566.740	0.00	0.0073	0.005	69.597	ug/L
|	Pb	206	18031.536	0.04	3.6585	0.375	10.254	ug/L
|	Pb	207	15136.691	0.04	3.3976	0.377	11.086	ug/L
|	Pb	208	71538.565	0.18	3.5267	0.361	10.224	ug/L
|	U	238	3761.415	0.01	0.1204	0.009	7.811	ug/L
⌊>	Bi	209	360199.056	360199.06				ug/L

Sample ID: L1011044930
Report Date/Time: Tuesday, November 23, 2010 20:52:16
Page 1

Approved: November 24, 2010

Na	23	343541.774	1.10	0.0576	0.008	13.844	mg/L
Mg	24	8807262.032	29.08	2.9714	0.318	10.714	mg/L
K	39	2083946.152	5.27	0.1816	0.024	13.296	mg/L
Ca	43	156669.868	0.52	7.6436	0.943	12.339	mg/L
Fe	54	2175312.997	7.01	4.1186	0.496	12.040	mg/L
Fe	57	1071833.942	3.51	4.3623	0.358	8.209	mg/L
Sc-1	45	303126.604	303126.60				mg/L
Cl	35	40100.919	8700.36				mg/L
Kr	83	30.667	-5.33				mg/L
Br	81	6824.328	445.62				mg/L
P	31	80008.074	70492.19				mg/L
S	34	217786.891	32909.94				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		107.416			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		105.598			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		103.221			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		100.882			
Na	23					

Sample ID: L1011044930
Report Date/Time: Tuesday, November 23, 2010 20:52:16
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044931

Sample Date/Time: Tuesday, November 23, 2010 20:56:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 47
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24312.989	-0.00				ug/L
|	Be	9	49.333	0.00	0.1594	0.047	29.240	ug/L
|	Al	27	10140088.587	32.67	1580.9399	438.001	27.705	ug/L
⌊>	Sc	45	310245.938	310245.94				ug/L
⌈	Ti	49	8567.999	0.02	12.7248	3.082	24.222	ug/L
|	V	51	40505.788	0.10	3.5571	0.910	25.583	ug/L
|	Cr	52	35280.903	0.07	2.9230	0.850	29.065	ug/L
|	Cr	53	3194.187	0.01	2.8427	0.839	29.523	ug/L
|	Mn	55	2714640.541	7.51	193.7987	50.310	25.960	ug/L
|	Co	59	22792.510	0.06	2.0541	0.584	28.451	ug/L
|	Ni	60	10774.476	0.03	4.6943	1.174	25.005	ug/L
|	Cu	65	8119.197	0.02	3.7653	1.030	27.354	ug/L
|	Zn	66	19549.532	0.05	15.0829	3.580	23.733	ug/L
|>	Ge	72	361766.426	361766.43				ug/L
|	As	75	678.748	0.00	1.0514	0.172	16.359	ug/L
|	Se	77	70.007	0.00	0.2696	0.612	226.996	ug/L
|	Se	82	7.339	0.00	-0.0042	0.124	2992.996	ug/L
⌊	Rb	85	16239.711	0.04				mg/L
	Y	89	239649.562	40724.08				ug/L
	Rh	103	12.333	3.00				ug/L
⌈	Mo	98	166.423	0.00	0.0734	0.018	24.086	ug/L
|	Ag	107	92.668	0.00	0.0033	0.007	217.719	ug/L
|	Cd	114	32.977	0.00	0.0482	0.009	18.370	ug/L
|>	In	115	268262.893	268262.89				ug/L
|	Sn	118	811.633	-0.00	-0.2576	0.008	3.119	ug/L
⌊	Sb	123	48.910	-0.00	0.0141	0.002	15.392	ug/L
⌈	Ba	135	20705.628	0.06	15.7910	4.158	26.334	ug/L
|	Ce	140	118334.365	0.36				ug/L
⌊>	Tb	159	324312.008	324312.01				ug/L
⌈	Ho	165	1646.978	0.00				ug/L
|	Tl	203	167.336	0.00	0.0280	0.005	19.338	ug/L
|	Tl	205	436.720	0.00	-0.0024	0.009	362.009	ug/L
|	Pb	206	12043.645	0.03	2.3213	0.647	27.856	ug/L
|	Pb	207	9960.947	0.02	2.1211	0.639	30.141	ug/L
|	Pb	208	47305.385	0.11	2.2109	0.631	28.542	ug/L
|	U	238	3830.801	0.01	0.1234	0.033	26.800	ug/L
⌊>	Bi	209	358853.539	358853.54				ug/L

Approved: November 24, 2010

⌈	Na	23	347700.034	1.08	0.0567	0.016	28.794	mg/L
|	Mg	24	16813842.523	54.15	5.5469	1.432	25.816	mg/L
|	K	39	3078981.171	8.32	0.2944	0.066	22.253	mg/L
|	Ca	43	361805.720	1.16	17.2408	4.773	27.683	mg/L
|	Fe	54	2888623.131	9.13	5.3716	1.536	28.600	mg/L
|	Fe	57	1448422.226	4.64	5.7663	1.577	27.347	mg/L
⌊>	Sc-1	45	310245.938	310245.94				mg/L
	Cl	35	35041.964	3641.41				mg/L
	Kr	83	37.667	1.67				mg/L
	Br	81	6574.828	196.12				mg/L
	P	31	72629.388	63113.50				mg/L
	S	34	212679.643	27802.70				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		109.243			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.044			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.833			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.505			
⌈	Na	23					

Sample ID: L1011044931
Report Date/Time: Tuesday, November 23, 2010 20:59:00
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046803

Sample Date/Time: Tuesday, November 23, 2010 21:03:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 48
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23694.708	-0.00				ug/L
|	Be	9	24.000	0.00	0.0809	0.011	12.998	ug/L
|	Al	27	4281490.341	14.23	688.7377	126.429	18.357	ug/L
⌊>	Sc	45	300292.792	300292.79				ug/L
⌈	Ti	49	7183.354	0.02	10.6054	2.026	19.107	ug/L
|	V	51	23452.211	0.06	1.9253	0.377	19.560	ug/L
|	Cr	52	36536.935	0.07	3.0437	0.645	21.196	ug/L
|	Cr	53	3584.354	0.01	3.2034	0.772	24.115	ug/L
|	Mn	55	310938.634	0.85	22.0502	4.586	20.798	ug/L
|	Co	59	10632.525	0.03	0.9409	0.167	17.707	ug/L
|	Ni	60	4998.998	0.01	2.1548	0.448	20.805	ug/L
|	Cu	65	17058.390	0.05	7.9450	1.587	19.973	ug/L
|	Zn	66	93014.509	0.25	76.8139	15.054	19.598	ug/L
| >	Ge	72	363986.805	363986.80				ug/L
|	As	75	397.150	0.00	0.6736	0.106	15.736	ug/L
|	Se	77	80.008	0.00	0.4267	0.325	76.265	ug/L
|	Se	82	14.336	0.00	0.0906	0.057	63.074	ug/L
⌊	Rb	85	8300.922	0.02				mg/L
	Y	89	230557.408	31631.92				ug/L
	Rh	103	12.000	2.67				ug/L
⌈	Mo	98	157.277	0.00	0.0666	0.022	33.431	ug/L
|	Ag	107	249.672	0.00	0.0504	0.013	25.688	ug/L
|	Cd	114	222.882	0.00	0.2702	0.071	26.387	ug/L
| >	In	115	271059.699	271059.70				ug/L
|	Sn	118	1649.070	0.00	0.0208	0.042	204.275	ug/L
⌊	Sb	123	58.451	-0.00	0.0173	0.001	7.128	ug/L
⌈	Ba	135	18959.928	0.06	14.3079	2.688	18.787	ug/L
|	Ce	140	65827.680	0.20				ug/L
⌊>	Tb	159	327742.257	327742.26				ug/L
⌈	Ho	165	920.135	0.00				ug/L
|	Tl	203	190.670	0.00	0.0312	0.006	19.813	ug/L
|	Tl	205	430.052	0.00	-0.0040	0.004	111.653	ug/L
|	Pb	206	45876.044	0.12	9.6342	2.055	21.326	ug/L
|	Pb	207	38678.149	0.10	8.9767	1.924	21.439	ug/L
|	Pb	208	182048.061	0.47	9.2920	1.991	21.426	ug/L
|	U	238	2561.696	0.01	0.0752	0.018	23.776	ug/L
⌊>	Bi	209	370975.939	370975.94				ug/L

Sample ID: L1011046803
Report Date/Time: Tuesday, November 23, 2010 21:05:44
Page 1

Approved: November 24, 2010

Na	23	253643.631	0.81	0.0393	0.009	22.333	mg/L	
Mg	24	3758944.842	12.51	1.2689	0.252	19.859	mg/L	
K	39	1651379.559	3.89	0.1304	0.025	19.103	mg/L	
Ca	43	61734.962	0.20	3.0261	0.624	20.624	mg/L	
Fe	54	1295598.179	4.13	2.4260	0.445	18.337	mg/L	
Fe	57	530408.031	1.74	2.1578	0.370	17.155	mg/L	
> Sc-1	45	300292.792	300292.79				mg/L	
Cl	35	41126.418	9725.86				mg/L	
Kr	83	38.000	2.00				mg/L	
Br	81	6800.979	422.28				mg/L	
P	31	50280.423	40764.53				mg/L	
S	34	232988.931	48111.98				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		109.913			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		108.160			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		104.931			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.900			
Na	23					

Sample ID: L1011046803
Report Date/Time: Tuesday, November 23, 2010 21:05:44
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011046803
Report Date/Time: Tuesday, November 23, 2010 21:05:44
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046804

Sample Date/Time: Tuesday, November 23, 2010 21:10:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 49
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24964.521	-0.00				ug/L
|	Be	9	24.000	0.00	0.0793	0.006	7.514	ug/L
|	Al	27	5161541.908	16.83	814.8205	181.264	22.246	ug/L
⌊>	Sc	45	307097.098	307097.10				ug/L
⌈	Ti	49	5935.762	0.02	8.6256	2.321	26.905	ug/L
|	V	51	23960.509	0.06	1.9370	0.408	21.039	ug/L
|	Cr	52	34939.142	0.07	2.7960	0.642	22.959	ug/L
|	Cr	53	3150.837	0.01	2.7377	0.885	32.341	ug/L
|	Mn	55	373613.745	1.01	26.0787	5.553	21.294	ug/L
|	Co	59	13011.798	0.03	1.1378	0.244	21.406	ug/L
|	Ni	60	5654.703	0.02	2.4015	0.559	23.257	ug/L
|	Cu	65	9372.582	0.03	4.2623	0.866	20.326	ug/L
|	Zn	66	43554.856	0.11	34.6083	7.241	20.922	ug/L
|>	Ge	72	370392.529	370392.53				ug/L
|	As	75	384.831	0.00	0.6498	0.160	24.693	ug/L
|	Se	77	33.337	-0.00	-0.3594	0.262	72.875	ug/L
|	Se	82	18.026	0.00	0.1372	0.167	121.431	ug/L
⌊	Rb	85	9208.412	0.02				mg/L
	Y	89	232958.622	34033.14				ug/L
	Rh	103	13.333	4.00				ug/L
⌈	Mo	98	119.678	0.00	0.0429	0.010	24.382	ug/L
|	Ag	107	284.340	0.00	0.0605	0.011	17.557	ug/L
|	Cd	114	187.475	0.00	0.2277	0.033	14.450	ug/L
|>	In	115	272918.354	272918.35				ug/L
|	Sn	118	1853.240	0.00	0.0860	0.087	101.101	ug/L
⌊	Sb	123	42.075	-0.00	0.0114	0.003	30.057	ug/L
⌈	Ba	135	16515.517	0.05	12.5321	2.727	21.758	ug/L
|	Ce	140	69970.205	0.21				ug/L
⌊>	Tb	159	326568.603	326568.60				ug/L
⌈	Ho	165	1020.154	0.00				ug/L
|	Tl	203	180.003	0.00	0.0294	0.005	16.360	ug/L
|	Tl	205	463.391	0.00	-0.0014	0.006	443.213	ug/L
|	Pb	206	38916.493	0.10	8.1529	1.912	23.451	ug/L
|	Pb	207	32273.793	0.08	7.4653	1.537	20.584	ug/L
|	Pb	208	153317.592	0.40	7.8029	1.795	23.002	ug/L
|	U	238	2401.322	0.01	0.0701	0.020	29.035	ug/L
⌊>	Bi	209	370016.929	370016.93				ug/L

Sample ID: L1011046804
Report Date/Time: Tuesday, November 23, 2010 21:12:29
Page 1

Approved: November 24, 2010

⌈	Na	23	220769.250	0.68	0.0316	0.008	26.643	mg/L
|	Mg	24	5939762.001	19.40	1.9771	0.433	21.883	mg/L
|	K	39	1627606.366	3.70	0.1235	0.029	23.159	mg/L
|	Ca	43	100876.725	0.33	4.8616	1.088	22.388	mg/L
|	Fe	54	1487197.345	4.68	2.7460	0.568	20.688	mg/L
|	Fe	57	611808.739	1.97	2.4491	0.594	24.253	mg/L
⌊>	Sc-1	45	307097.098	307097.10				mg/L
	Cl	35	39922.871	8522.31				mg/L
	Kr	83	35.334	-0.67				mg/L
	Br	81	7061.826	683.12				mg/L
	P	31	51315.297	41799.41				mg/L
	S	34	238359.181	53482.23				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		111.848			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.901			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.555			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.631			
⌈	Na	23					

Sample ID: L1011046804
Report Date/Time: Tuesday, November 23, 2010 21:12:29
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011046804
Report Date/Time: Tuesday, November 23, 2010 21:12:29
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046805

Sample Date/Time: Tuesday, November 23, 2010 21:17:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 50
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27053.211	0.01				ug/L
|	Be	9	26.667	0.00	0.0885	0.016	18.183	ug/L
|	Al	27	5858598.245	19.25	931.7394	268.323	28.798	ug/L
⌊>	Sc	45	304811.010	304811.01				ug/L
⌈	Ti	49	9245.368	0.02	13.4990	3.379	25.028	ug/L
|	V	51	19599.462	0.04	1.5402	0.378	24.546	ug/L
|	Cr	52	474106.804	1.26	52.5033	14.422	27.470	ug/L
|	Cr	53	54909.884	0.15	52.3905	14.582	27.833	ug/L
|	Mn	55	500225.728	1.36	35.0775	8.915	25.417	ug/L
|	Co	59	13683.569	0.04	1.2030	0.319	26.488	ug/L
|	Ni	60	7276.465	0.02	3.1089	0.674	21.671	ug/L
|	Cu	65	16861.687	0.05	7.7610	2.081	26.815	ug/L
|	Zn	66	183429.553	0.49	151.1165	38.863	25.717	ug/L
| >	Ge	72	368087.072	368087.07				ug/L
|	As	75	934.390	0.00	1.3707	0.262	19.120	ug/L
|	Se	77	90.010	0.00	0.5778	1.157	200.180	ug/L
|	Se	82	10.632	0.00	0.0386	0.081	209.274	ug/L
⌊	Rb	85	10958.296	0.03				mg/L
	Y	89	234566.100	35640.62				ug/L
	Rh	103	11.000	1.67				ug/L
⌈	Mo	98	146.240	0.00	0.0595	0.017	27.986	ug/L
|	Ag	107	871.048	0.00	0.2372	0.054	22.732	ug/L
|	Cd	114	1037.081	0.00	1.2197	0.317	25.992	ug/L
| >	In	115	272038.769	272038.77				ug/L
|	Sn	118	5284.105	0.01	1.2349	0.381	30.884	ug/L
⌊	Sb	123	41.201	-0.00	0.0111	0.002	21.787	ug/L
⌈	Ba	135	15884.336	0.05	11.7884	3.175	26.935	ug/L
|	Ce	140	85376.571	0.26				ug/L
⌊>	Tb	159	333852.917	333852.92				ug/L
⌈	Ho	165	1190.197	0.00				ug/L
|	Tl	203	318.342	0.00	0.0531	0.010	19.097	ug/L
|	Tl	205	776.775	0.00	0.0204	0.009	42.683	ug/L
|	Pb	206	69554.134	0.18	14.5473	3.903	26.830	ug/L
|	Pb	207	59537.175	0.15	13.7627	3.558	25.856	ug/L
|	Pb	208	276530.754	0.71	14.0573	3.735	26.573	ug/L
|	U	238	2564.371	0.01	0.0738	0.024	32.331	ug/L
⌊>	Bi	209	377529.817	377529.82				ug/L

Sample ID: L1011046805
Report Date/Time: Tuesday, November 23, 2010 21:19:14
Page 1

Approved: November 24, 2010

Na	23	305709.780	0.97	0.0494	0.014	27.863	mg/L	
Mg	24	6773609.508	22.28	2.2729	0.583	25.649	mg/L	
K	39	1844963.301	4.45	0.1510	0.020	13.328	mg/L	
Ca	43	116146.888	0.38	5.6424	1.571	27.837	mg/L	
Fe	54	1569331.963	4.99	2.9296	0.642	21.910	mg/L	
Fe	57	686193.058	2.23	2.7718	0.773	27.891	mg/L	
Sc-1	45	304811.010	304811.01				mg/L	
Cl	35	44335.471	12934.91				mg/L	
Kr	83	42.334	6.33				mg/L	
Br	81	6768.290	389.59				mg/L	
P	31	70005.970	60490.08				mg/L	
S	34	213916.273	29039.32				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		111.152			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		108.550			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		106.888			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		105.736			
Na	23					

Sample ID: L1011046805
Report Date/Time: Tuesday, November 23, 2010 21:19:14
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046806

Sample Date/Time: Tuesday, November 23, 2010 21:23:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 51
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26802.549	0.01				ug/L
|	Be	9	46.667	0.00	0.1538	0.034	22.153	ug/L
|	Al	27	11831060.189	38.73	1874.3201	442.814	23.625	ug/L
⌊>	Sc	45	305375.973	305375.97				ug/L
⌈	Ti	49	14829.535	0.04	22.1706	5.373	24.235	ug/L
|	V	51	51484.401	0.13	4.6274	1.119	24.179	ug/L
|	Cr	52	58140.011	0.14	5.5914	1.370	24.508	ug/L
|	Cr	53	6129.231	0.02	5.7410	1.512	26.331	ug/L
|	Mn	55	1582831.129	4.40	113.5912	20.256	17.832	ug/L
|	Co	59	21344.762	0.06	1.9332	0.464	24.011	ug/L
|	Ni	60	11448.551	0.03	5.0180	1.175	23.416	ug/L
|	Cu	65	12922.756	0.04	6.0701	1.438	23.690	ug/L
|	Zn	66	101465.037	0.28	84.8947	20.228	23.827	ug/L
|>	Ge	72	360070.810	360070.81				ug/L
|	As	75	1165.013	0.00	1.7079	0.344	20.153	ug/L
|	Se	77	70.007	0.00	0.2759	0.349	126.412	ug/L
|	Se	82	20.699	0.00	0.1805	0.186	103.248	ug/L
⌊	Rb	85	21433.723	0.06				mg/L
	Y	89	243674.678	44749.20				ug/L
	Rh	103	20.000	10.67				ug/L
⌈	Mo	98	251.718	0.00	0.1273	0.034	26.603	ug/L
|	Ag	107	117.002	0.00	0.0108	0.007	60.941	ug/L
|	Cd	114	627.816	0.00	0.7547	0.175	23.231	ug/L
|>	In	115	267861.948	267861.95				ug/L
|	Sn	118	1116.996	-0.00	-0.1533	0.022	14.029	ug/L
⌊	Sb	123	34.119	-0.00	0.0088	0.002	19.520	ug/L
⌈	Ba	135	26964.558	0.08	20.6462	4.702	22.775	ug/L
|	Ce	140	135703.573	0.42				ug/L
⌊>	Tb	159	323091.412	323091.41				ug/L
⌈	Ho	165	2093.777	0.01				ug/L
|	Tl	203	228.005	0.00	0.0396	0.011	28.325	ug/L
|	Tl	205	516.733	0.00	0.0040	0.013	319.528	ug/L
|	Pb	206	39497.617	0.11	8.6103	2.299	26.699	ug/L
|	Pb	207	32580.772	0.09	7.8411	1.956	24.946	ug/L
|	Pb	208	155093.960	0.42	8.2123	2.158	26.273	ug/L
|	U	238	5652.370	0.02	0.1901	0.046	24.349	ug/L
⌊>	Bi	209	356398.706	356398.71				ug/L

Sample ID: L1011046806
Report Date/Time: Tuesday, November 23, 2010 21:26:00
Page 1

Approved: November 24, 2010

⌈	Na	23	353561.704	1.12	0.0591	0.015	24.640	mg/L
|	Mg	24	25194004.636	82.52	8.4606	1.843	21.779	mg/L
|	K	39	3882405.328	11.11	0.3976	0.091	22.976	mg/L
|	Ca	43	431674.356	1.41	20.9171	5.078	24.275	mg/L
|	Fe	54	2654175.116	8.52	5.0081	1.206	24.076	mg/L
|	Fe	57	1345837.818	4.38	5.4437	1.433	26.319	mg/L
⌊>	Sc-1	45	305375.973	305375.97				mg/L
	Cl	35	41092.958	9692.40				mg/L
	Kr	83	34.667	-1.33				mg/L
	Br	81	7023.132	644.43				mg/L
	P	31	79992.305	70476.42				mg/L
	S	34	277689.430	92812.48				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		108.731			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.884			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.442			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.817			
⌈	Na	23					

Sample ID: L1011046806
Report Date/Time: Tuesday, November 23, 2010 21:26:00
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046807

Sample Date/Time: Tuesday, November 23, 2010 21:30:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 52
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26117.426	0.00				ug/L
|	Be	9	52.000	0.00	0.1673	0.016	9.719	ug/L
|	Al	27	12136411.052	38.85	1880.2597	227.004	12.073	ug/L
⌊>	Sc	45	311686.850	311686.85				ug/L
⌈	Ti	49	9759.182	0.03	14.5613	2.845	19.538	ug/L
|	V	51	51007.070	0.13	4.5743	0.638	13.954	ug/L
|	Cr	52	60791.291	0.14	5.8880	0.819	13.910	ug/L
|	Cr	53	6429.398	0.02	6.0241	0.843	13.988	ug/L
|	Mn	55	1760483.464	4.89	126.1837	16.403	12.999	ug/L
|	Co	59	24793.200	0.07	2.2452	0.267	11.906	ug/L
|	Ni	60	13051.403	0.04	5.7144	0.779	13.636	ug/L
|	Cu	65	14377.559	0.04	6.7503	0.813	12.040	ug/L
|	Zn	66	74213.376	0.20	61.5997	7.977	12.950	ug/L
|>	Ge	72	360327.307	360327.31				ug/L
|	As	75	668.136	0.00	1.0412	0.155	14.863	ug/L
|	Se	77	43.338	-0.00	-0.1794	0.421	234.595	ug/L
|	Se	82	10.945	0.00	0.0468	0.225	480.335	ug/L
⌊	Rb	85	20793.980	0.06				mg/L
	Y	89	241372.254	42446.77				ug/L
	Rh	103	16.334	7.00				ug/L
⌈	Mo	98	170.610	0.00	0.0774	0.003	3.868	ug/L
|	Ag	107	103.668	0.00	0.0071	0.005	68.436	ug/L
|	Cd	114	421.680	0.00	0.5152	0.070	13.563	ug/L
|>	In	115	265007.267	265007.27				ug/L
|	Sn	118	1626.266	0.00	0.0259	0.032	123.852	ug/L
⌊	Sb	123	38.658	-0.00	0.0106	0.005	45.519	ug/L
⌈	Ba	135	29951.508	0.09	22.9306	2.627	11.456	ug/L
|	Ce	140	134781.197	0.42				ug/L
⌊>	Tb	159	323397.768	323397.77				ug/L
⌈	Ho	165	2010.404	0.01				ug/L
|	Tl	203	209.004	0.00	0.0361	0.004	10.216	ug/L
|	Tl	205	433.387	0.00	-0.0023	0.010	443.767	ug/L
|	Pb	206	40700.081	0.11	8.8925	1.226	13.789	ug/L
|	Pb	207	33609.414	0.09	8.1081	1.115	13.752	ug/L
|	Pb	208	158965.860	0.43	8.4350	1.163	13.788	ug/L
|	U	238	4131.240	0.01	0.1356	0.021	15.814	ug/L
⌊>	Bi	209	355257.639	355257.64				ug/L

Sample ID: L1011046807
Report Date/Time: Tuesday, November 23, 2010 21:32:45
Page 1

Approved: November 24, 2010

Na	23	354366.307	1.10	0.0576	0.008	14.628	mg/L
Mg	24	22990742.255	73.64	7.5484	1.004	13.295	mg/L
K	39	4218339.385	11.91	0.4273	0.047	10.947	mg/L
Ca	43	425690.884	1.36	20.1682	2.397	11.886	mg/L
Fe	54	2819444.832	8.86	5.2118	0.453	8.686	mg/L
Fe	57	1414735.261	4.51	5.5997	0.669	11.951	mg/L
Sc-1	45	311686.850	311686.85				mg/L
Cl	35	40179.895	8779.34				mg/L
Kr	83	44.667	8.67				mg/L
Br	81	6757.617	378.91				mg/L
P	31	75091.072	65575.18				mg/L
S	34	249291.828	64414.88				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		108.808			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		105.745			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		103.540			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		99.498			
Na	23					

Sample ID: L1011046807
Report Date/Time: Tuesday, November 23, 2010 21:32:45
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046808

Sample Date/Time: Tuesday, November 23, 2010 21:37:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 53
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25348.825	-0.00				ug/L
|	Be	9	45.333	0.00	0.1479	0.009	5.853	ug/L
|	Al	27	12958334.722	42.03	2034.2957	346.041	17.010	ug/L
⌊>	Sc	45	308936.633	308936.63				ug/L
⌈	Ti	49	11814.925	0.03	17.4733	2.916	16.686	ug/L
|	V	51	55519.918	0.14	4.9586	0.883	17.809	ug/L
|	Cr	52	54254.009	0.12	5.0778	1.013	19.957	ug/L
|	Cr	53	5418.707	0.01	4.9904	1.036	20.759	ug/L
|	Mn	55	1883106.249	5.18	133.7336	16.363	12.235	ug/L
|	Co	59	24589.192	0.07	2.2069	0.363	16.456	ug/L
|	Ni	60	13584.814	0.04	5.8961	0.952	16.145	ug/L
|	Cu	65	13786.408	0.04	6.4120	0.969	15.115	ug/L
|	Zn	66	69505.802	0.19	57.0883	10.045	17.595	ug/L
|>	Ge	72	364094.529	364094.53				ug/L
|	As	75	739.960	0.00	1.1289	0.208	18.396	ug/L
|	Se	77	40.004	-0.00	-0.2394	0.296	123.588	ug/L
|	Se	82	17.334	0.00	0.1312	0.043	32.803	ug/L
⌊	Rb	85	24166.806	0.07				mg/L
	Y	89	243800.326	44874.84				ug/L
	Rh	103	14.000	4.67				ug/L
⌈	Mo	98	191.903	0.00	0.0900	0.023	25.113	ug/L
|	Ag	107	101.668	0.00	0.0062	0.002	32.238	ug/L
|	Cd	114	506.997	0.00	0.6127	0.138	22.509	ug/L
|>	In	115	267396.153	267396.15				ug/L
|	Sn	118	1349.158	-0.00	-0.0734	0.032	43.787	ug/L
⌊	Sb	123	39.077	-0.00	0.0106	0.002	17.323	ug/L
⌈	Ba	135	20634.122	0.06	15.7809	2.250	14.255	ug/L
|	Ce	140	142093.922	0.44				ug/L
⌊>	Tb	159	323431.990	323431.99				ug/L
⌈	Ho	165	2087.097	0.01				ug/L
|	Tl	203	219.005	0.00	0.0377	0.007	19.390	ug/L
|	Tl	205	483.394	0.00	0.0013	0.006	453.384	ug/L
|	Pb	206	37474.190	0.10	8.1026	1.522	18.784	ug/L
|	Pb	207	30984.216	0.08	7.3979	1.406	19.000	ug/L
|	Pb	208	147674.513	0.39	7.7570	1.393	17.957	ug/L
|	U	238	4873.588	0.01	0.1612	0.028	17.150	ug/L
⌊>	Bi	209	357862.805	357862.80				ug/L

Sample ID: L1011046808
Report Date/Time: Tuesday, November 23, 2010 21:39:31
Page 1

Approved: November 24, 2010

⌈	Na	23	387288.234	1.22	0.0652	0.015	22.244	mg/L
|	Mg	24	26213628.542	85.09	8.7244	1.778	20.381	mg/L
|	K	39	5371060.379	15.81	0.5718	0.103	17.979	mg/L
|	Ca	43	447166.427	1.45	21.4648	4.102	19.111	mg/L
|	Fe	54	3065524.897	9.77	5.7471	1.103	19.196	mg/L
|	Fe	57	1580813.842	5.10	6.3385	1.136	17.919	mg/L
⌊>	Sc-1	45	308936.633	308936.63				mg/L
	Cl	35	43032.402	11631.84				mg/L
	Kr	83	38.334	2.33				mg/L
	Br	81	6752.280	373.58				mg/L
	P	31	84215.850	74699.96				mg/L
	S	34	278821.231	93944.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		109.946			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.698			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.551			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.227			
⌈	Na	23					

Sample ID: L1011046808
Report Date/Time: Tuesday, November 23, 2010 21:39:31
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046809

Sample Date/Time: Tuesday, November 23, 2010 21:44:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 54
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24513.415	-0.00				ug/L
|	Be	9	31.333	0.00	0.1041	0.026	25.317	ug/L
|	Al	27	9189350.628	30.18	1460.7014	154.778	10.596	ug/L
⌊>	Sc	45	304104.966	304104.97				ug/L
⌈	Ti	49	7737.131	0.02	11.7040	1.563	13.351	ug/L
|	V	51	39798.167	0.10	3.5604	0.385	10.813	ug/L
|	Cr	52	69612.096	0.17	7.0233	0.681	9.697	ug/L
|	Cr	53	7246.708	0.02	6.9290	0.923	13.320	ug/L
|	Mn	55	2214648.351	6.24	161.0368	16.425	10.199	ug/L
|	Co	59	23094.669	0.06	2.1205	0.199	9.395	ug/L
|	Ni	60	12297.735	0.03	5.4614	0.610	11.177	ug/L
|	Cu	65	13070.046	0.04	6.2196	0.606	9.738	ug/L
|	Zn	66	17118.874	0.04	13.2955	1.268	9.534	ug/L
|>	Ge	72	355141.313	355141.31				ug/L
|	As	75	725.775	0.00	1.1322	0.112	9.920	ug/L
|	Se	77	53.339	-0.00	0.0072	0.560	7796.586	ug/L
|	Se	82	8.319	0.00	0.0113	0.066	583.124	ug/L
⌊	Rb	85	16583.645	0.05				mg/L
	Y	89	248959.011	50033.53				ug/L
	Rh	103	20.334	11.00				ug/L
⌈	Mo	98	140.902	0.00	0.0595	0.019	31.326	ug/L
|	Ag	107	82.001	0.00	0.0006	0.001	238.458	ug/L
|	Cd	114	30.466	0.00	0.0460	0.007	16.165	ug/L
|>	In	115	262616.373	262616.37				ug/L
|	Sn	118	995.916	-0.00	-0.1878	0.004	1.975	ug/L
⌊	Sb	123	32.080	-0.00	0.0083	0.000	4.906	ug/L
⌈	Ba	135	29241.637	0.09	22.7430	2.282	10.032	ug/L
|	Ce	140	156214.040	0.49				ug/L
⌊>	Tb	159	318282.637	318282.64				ug/L
⌈	Ho	165	2440.546	0.01				ug/L
|	Tl	203	155.003	0.00	0.0268	0.007	25.528	ug/L
|	Tl	205	383.379	0.00	-0.0054	0.007	137.954	ug/L
|	Pb	206	11373.620	0.03	2.2617	0.298	13.173	ug/L
|	Pb	207	9562.027	0.02	2.1069	0.270	12.796	ug/L
|	Pb	208	44763.758	0.11	2.1591	0.283	13.096	ug/L
|	U	238	3955.161	0.01	0.1329	0.017	13.048	ug/L
⌊>	Bi	209	346935.310	346935.31				ug/L

Sample ID: L1011046809
Report Date/Time: Tuesday, November 23, 2010 21:46:18
Page 1

Approved: November 24, 2010

⌈	Na	23	337145.238	1.07	0.0559	0.006	10.425	mg/L
|	Mg	24	36639487.998	120.43	12.3550	1.165	9.428	mg/L
|	K	39	3650939.201	10.39	0.3712	0.027	7.394	mg/L
|	Ca	43	640959.683	2.11	31.1779	2.974	9.540	mg/L
|	Fe	54	2548653.036	8.20	4.8221	0.403	8.368	mg/L
|	Fe	57	1298311.037	4.24	5.2684	0.481	9.132	mg/L
⌊>	Sc-1	45	304104.966	304104.97				mg/L
	Cl	35	40453.667	9053.11				mg/L
	Kr	83	40.000	4.00				mg/L
	Br	81	6577.496	198.79				mg/L
	P	31	87394.828	77878.94				mg/L
	S	34	222562.983	37686.03				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		107.242			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.790			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.903			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.167			
⌈	Na	23					

Sample ID: L1011046809
Report Date/Time: Tuesday, November 23, 2010 21:46:18
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 23, 2010 21:50:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24396.423	0.00				ug/L
|	Be	9	15007.261	0.05	52.2253	2.663	5.099	ug/L
|	Al	27	307149.627	1.05	51.0794	2.175	4.258	ug/L
⌊>	Sc	45	286702.729	286702.73				ug/L
⌈	Ti	49	58563.504	0.17	92.9865	1.279	1.376	ug/L
|	V	51	468009.953	1.37	47.1388	0.263	0.558	ug/L
|	Cr	52	399494.866	1.15	47.9359	0.143	0.299	ug/L
|	Cr	53	46753.712	0.14	48.4097	0.568	1.174	ug/L
|	Mn	55	621066.807	1.83	47.2999	0.652	1.378	ug/L
|	Co	59	489399.483	1.44	47.5537	0.982	2.065	ug/L
|	Ni	60	101694.155	0.30	47.4803	0.397	0.837	ug/L
|	Cu	65	96398.367	0.28	48.5499	0.140	0.289	ug/L
|	Zn	66	55795.782	0.16	48.9340	0.267	0.546	ug/L
|>	Ge	72	338811.532	338811.53				ug/L
|	As	75	35224.674	0.10	50.2221	0.536	1.067	ug/L
|	Se	77	2890.707	0.01	51.0354	2.409	4.721	ug/L
|	Se	82	3423.006	0.01	49.7502	0.766	1.540	ug/L
⌊	Rb	85	1386.443	0.00				mg/L
	Y	89	207682.043	8756.56				ug/L
	Rh	103	17.667	8.33				ug/L
⌈	Mo	98	155307.936	0.61	102.2651	1.242	1.214	ug/L
|	Ag	107	159625.180	0.63	51.2163	0.261	0.510	ug/L
|	Cd	114	41451.542	0.16	51.6039	0.520	1.008	ug/L
|>	In	115	255238.300	255238.30				ug/L
|	Sn	118	141850.901	0.55	50.0552	0.546	1.092	ug/L
⌊	Sb	123	135354.641	0.53	50.7529	0.313	0.617	ug/L
⌈	Ba	135	63439.902	0.20	49.9853	0.489	0.977	ug/L
|	Ce	140	80.008	0.00				ug/L
⌊>	Tb	159	314493.535	314493.53				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	266898.882	0.76	50.5538	0.438	0.866	ug/L
|	Tl	205	646939.020	1.84	50.0139	0.541	1.082	ug/L
|	Pb	206	213786.050	0.60	49.0389	0.724	1.475	ug/L
|	Pb	207	199010.398	0.56	50.4459	0.318	0.631	ug/L
|	Pb	208	891876.427	2.52	49.7465	0.638	1.283	ug/L
|	U	238	1408067.697	4.01	51.3220	0.749	1.460	ug/L
⌊>	Bi	209	350899.536	350899.54				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 21:53:03
Page 1

Approved: November 24, 2010

Na	23	23466271.486	81.82	5.1349	0.050	0.975	mg/L
Mg	24	14323939.054	49.96	5.1166	0.061	1.188	mg/L
K	39	39628409.730	136.62	5.0446	0.188	3.731	mg/L
Ca	43	98031.461	0.34	5.0481	0.180	3.564	mg/L
Fe	54	2523497.087	8.63	5.0723	0.061	1.211	mg/L
Fe	57	1247344.447	4.33	5.3725	0.115	2.145	mg/L
Sc-1	45	286702.729	286702.73				mg/L
Cl	35	29155.782	-2244.77				mg/L
Kr	83	33.667	-2.33				mg/L
Br	81	6062.504	-316.20				mg/L
P	31	9501.863	-14.03				mg/L
S	34	199871.318	14994.37				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	94.278				
Cr	52	95.872				
Cr	53					
Mn	55	94.600				
Co	59	95.107				
Ni	60	94.961				
Cu	65	97.100				
Zn	66	97.868				
Ge	72		102.311			
As	75	100.444				
Se	77					
Se	82	99.500				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	102.433				
Cd	114	103.208				
In	115		101.846			
Sn	118					
Sb	123	101.506				
Ba	135	99.971				
Ce	140					
Tb	159		100.689			
Ho	165					
Tl	203	101.108				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.493				
U	238	102.644				
Bi	209		98.277			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 21:53:03
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 21:53:03
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 23, 2010 21:57:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23694.725	-0.00				ug/L
|	Be	9	5.333	-0.00	0.0195	0.014	73.427	ug/L
|	Al	27	5234.727	-0.00	0.0878	0.120	136.309	ug/L
⌊>	Sc	45	293067.572	293067.57				ug/L
⌈	Ti	49	46.671	-0.00	0.0490	0.010	20.255	ug/L
|	V	51	2803.982	-0.00	-0.0084	0.009	108.048	ug/L
|	Cr	52	8756.254	-0.00	-0.0757	0.009	11.860	ug/L
|	Cr	53	183.353	-0.00	-0.0855	0.032	37.229	ug/L
|	Mn	55	318.675	0.00	-0.0050	0.001	23.125	ug/L
|	Co	59	172.337	-0.00	-0.0055	0.001	19.156	ug/L
|	Ni	60	26.000	0.00	-0.0091	0.002	26.524	ug/L
|	Cu	65	83.335	-0.00	-0.0305	0.006	18.103	ug/L
|	Zn	66	1182.415	-0.00	-0.4046	0.064	15.720	ug/L
|>	Ge	72	343211.501	343211.50				ug/L
|	As	75	-153.607	-0.00	-0.0678	0.036	52.881	ug/L
|	Se	77	66.674	0.00	0.2743	0.415	151.254	ug/L
|	Se	82	-4.687	-0.00	-0.1712	0.107	62.669	ug/L
⌊	Rb	85	17.000	-0.00				mg/L
	Y	89	215216.114	16290.63				ug/L
	Rh	103	6.000	-3.33				ug/L
⌈	Mo	98	151.162	0.00	0.0651	0.022	33.523	ug/L
|	Ag	107	17.000	-0.00	-0.0198	0.001	6.071	ug/L
|	Cd	114	4.669	-0.00	0.0146	0.009	61.850	ug/L
|>	In	115	265033.318	265033.32				ug/L
|	Sn	118	1063.523	-0.00	-0.1677	0.016	9.443	ug/L
⌊	Sb	123	207.874	0.00	0.0717	0.007	9.690	ug/L
⌈	Ba	135	12.000	0.00	-0.0144	0.002	13.854	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	321060.281	321060.28				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	25.000	0.00	0.0016	0.000	18.819	ug/L
|	Tl	205	50.005	0.00	-0.0317	0.003	8.437	ug/L
|	Pb	206	650.361	-0.00	-0.2557	0.003	1.224	ug/L
|	Pb	207	540.687	-0.00	-0.2312	0.002	1.041	ug/L
|	Pb	208	2535.151	-0.01	-0.2505	0.001	0.482	ug/L
|	U	238	45.334	0.00	-0.0115	0.000	0.754	ug/L
⌊>	Bi	209	362990.331	362990.33				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 21:59:47
Page 1

Approved: November 24, 2010

Na	23	10443.167	-0.00	-0.0115	0.000	0.457	mg/L
Mg	24	496.729	0.00	-0.0157	0.000	0.188	mg/L
K	39	467222.182	-0.01	-0.0141	0.002	13.842	mg/L
Ca	43	193.355	0.00	-0.0060	0.001	23.894	mg/L
Fe	54	50714.251	-0.00	-0.0123	0.002	14.157	mg/L
Fe	57	6669.557	-0.00	-0.0075	0.001	15.433	mg/L
Sc-1	45	293067.572	293067.57				mg/L
Cl	35	25761.149	-5639.41				mg/L
Kr	83	40.667	4.67				mg/L
Br	81	6336.674	-42.03				mg/L
P	31	9724.755	208.87				mg/L
S	34	193684.853	8807.90				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		103.640			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		105.755			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		102.792			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		101.663			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 21:59:47
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 21:59:47
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046810

Sample Date/Time: Tuesday, November 23, 2010 22:04:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 55
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24780.852	0.00				ug/L
|	Be	9	29.333	0.00	0.1034	0.039	37.332	ug/L
|	Al	27	5382571.440	18.78	908.9893	211.831	23.304	ug/L
⌊>	Sc	45	286719.391	286719.39				ug/L
⌈	Ti	49	5829.041	0.02	8.8374	2.628	29.741	ug/L
|	V	51	57142.680	0.15	5.2515	1.263	24.051	ug/L
|	Cr	52	35554.075	0.07	3.0401	0.774	25.463	ug/L
|	Cr	53	3444.292	0.01	3.1580	0.836	26.485	ug/L
|	Mn	55	608995.712	1.72	44.3732	10.493	23.648	ug/L
|	Co	59	13598.682	0.04	1.2427	0.294	23.687	ug/L
|	Ni	60	8662.286	0.02	3.8500	0.873	22.672	ug/L
|	Cu	65	55419.601	0.16	26.6705	5.929	22.231	ug/L
|	Zn	66	208194.835	0.58	178.4376	40.606	22.757	ug/L
|>	Ge	72	354624.616	354624.62				ug/L
|	As	75	794.040	0.00	1.2272	0.231	18.843	ug/L
|	Se	77	53.339	-0.00	0.0043	0.546	12700.555	ug/L
|	Se	82	20.968	0.00	0.1876	0.031	16.320	ug/L
⌊	Rb	85	10208.094	0.03				mg/L
	Y	89	230243.375	31317.89				ug/L
	Rh	103	15.667	6.33				ug/L
⌈	Mo	98	276.134	0.00	0.1451	0.021	14.807	ug/L
|	Ag	107	126.002	0.00	0.0141	0.007	47.184	ug/L
|	Cd	114	373.994	0.00	0.4598	0.117	25.457	ug/L
|>	In	115	263969.968	263969.97				ug/L
|	Sn	118	1543.053	0.00	-0.0006	0.063	11107.062	ug/L
⌊	Sb	123	86.537	0.00	0.0280	0.006	21.192	ug/L
⌈	Ba	135	21950.817	0.07	17.0031	3.744	22.022	ug/L
|	Ce	140	62732.226	0.20				ug/L
⌊>	Tb	159	319024.358	319024.36				ug/L
⌈	Ho	165	920.136	0.00				ug/L
|	Tl	203	172.337	0.00	0.0288	0.003	10.631	ug/L
|	Tl	205	430.052	0.00	-0.0031	0.005	168.125	ug/L
|	Pb	206	87514.463	0.24	19.2598	4.299	22.319	ug/L
|	Pb	207	72976.965	0.20	17.7372	3.775	21.283	ug/L
|	Pb	208	344197.610	0.93	18.4078	4.127	22.422	ug/L
|	U	238	2854.121	0.01	0.0879	0.025	28.727	ug/L
⌊>	Bi	209	360757.519	360757.52				ug/L

Sample ID: L1011046810
Report Date/Time: Tuesday, November 23, 2010 22:06:33
Page 1

Approved: November 24, 2010

⌈	Na	23	481735.829	1.64	0.0920	0.022	24.094	mg/L
|	Mg	24	9564911.104	33.41	3.4158	0.804	23.524	mg/L
|	K	39	1714911.004	4.38	0.1484	0.016	11.093	mg/L
|	Ca	43	168793.502	0.59	8.7117	2.102	24.126	mg/L
|	Fe	54	2023169.683	6.88	4.0461	0.572	14.126	mg/L
|	Fe	57	967024.496	3.35	4.1628	1.111	26.691	mg/L
⌊>	Sc-1	45	286719.391	286719.39				mg/L
	Cl	35	40268.248	8867.69				mg/L
	Kr	83	42.001	6.00				mg/L
	Br	81	7214.602	835.90				mg/L
	P	31	55679.799	46163.91				mg/L
	S	34	238902.681	54025.73				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		107.086			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.331			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.140			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.038			
⌈	Na	23					

Sample ID: L1011046810
Report Date/Time: Tuesday, November 23, 2010 22:06:33
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046811

Sample Date/Time: Tuesday, November 23, 2010 22:11:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 56
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25616.110	0.00				ug/L
|	Be	9	23.333	0.00	0.0774	0.046	59.382	ug/L
|	Al	27	4064527.370	13.35	646.3005	155.771	24.102	ug/L
⌊>	Sc	45	302784.247	302784.25				ug/L
⌈	Ti	49	9325.459	0.03	13.8050	3.675	26.618	ug/L
|	V	51	30569.273	0.08	2.6035	0.736	28.273	ug/L
|	Cr	52	81366.953	0.20	8.1955	2.417	29.498	ug/L
|	Cr	53	8968.445	0.02	8.4487	2.507	29.669	ug/L
|	Mn	55	609884.306	1.68	43.3692	11.476	26.462	ug/L
|	Co	59	12122.759	0.03	1.0784	0.289	26.777	ug/L
|	Ni	60	6882.879	0.02	2.9814	0.839	28.126	ug/L
|	Cu	65	32003.715	0.09	14.9994	3.841	25.609	ug/L
|	Zn	66	206849.093	0.57	172.9796	45.436	26.267	ug/L
|>	Ge	72	363871.612	363871.61				ug/L
|	As	75	708.766	0.00	1.0877	0.199	18.310	ug/L
|	Se	77	66.674	0.00	0.1995	0.573	287.085	ug/L
|	Se	82	19.021	0.00	0.1529	0.106	69.197	ug/L
⌊	Rb	85	7856.925	0.02				mg/L
	Y	89	234238.354	35312.87				ug/L
	Rh	103	13.667	4.33				ug/L
⌈	Mo	98	383.988	0.00	0.2080	0.036	17.362	ug/L
|	Ag	107	140.336	0.00	0.0176	0.012	67.837	ug/L
|	Cd	114	502.947	0.00	0.6009	0.165	27.466	ug/L
|>	In	115	270641.563	270641.56				ug/L
|	Sn	118	2216.783	0.00	0.2137	0.129	60.580	ug/L
⌊	Sb	123	69.117	-0.00	0.0211	0.005	25.759	ug/L
⌈	Ba	135	11566.083	0.04	8.8274	2.096	23.745	ug/L
|	Ce	140	73324.476	0.23				ug/L
⌊>	Tb	159	323208.827	323208.83				ug/L
⌈	Ho	165	986.816	0.00				ug/L
|	Tl	203	204.671	0.00	0.0346	0.004	12.873	ug/L
|	Tl	205	513.399	0.00	0.0031	0.012	388.319	ug/L
|	Pb	206	60877.736	0.16	13.2656	3.465	26.123	ug/L
|	Pb	207	50974.864	0.14	12.2691	3.107	25.322	ug/L
|	Pb	208	240657.964	0.65	12.7436	3.331	26.135	ug/L
|	U	238	3767.112	0.01	0.1202	0.035	29.019	ug/L
⌊>	Bi	209	361688.876	361688.88				ug/L

Sample ID: L1011046811
Report Date/Time: Tuesday, November 23, 2010 22:13:20
Page 1

Approved: November 24, 2010

Na	23	524121.933	1.69	0.0948	0.020	21.370	mg/L
Mg	24	14310676.939	47.10	4.8220	1.115	23.116	mg/L
K	39	1637125.663	3.80	0.1271	0.016	12.863	mg/L
Ca	43	246463.595	0.81	11.9926	2.887	24.069	mg/L
Fe	54	1846089.337	5.91	3.4732	0.546	15.719	mg/L
Fe	57	825020.448	2.69	3.3384	0.819	24.520	mg/L
> Sc-1	45	302784.247	302784.25				mg/L
Cl	35	51411.903	20011.35				mg/L
Kr	83	36.000	-0.00				mg/L
Br	81	7217.271	838.57				mg/L
P	31	49455.636	39939.75				mg/L
S	34	243105.230	58228.28				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		109.879			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		107.993			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		103.480			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		101.299			
Na	23					

Sample ID: L1011046811
Report Date/Time: Tuesday, November 23, 2010 22:13:20
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046812

Sample Date/Time: Tuesday, November 23, 2010 22:17:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 57
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23477.558	-0.00				ug/L
|	Be	9	25.333	0.00	0.0877	0.033	37.398	ug/L
|	Al	27	4551198.996	15.61	755.5125	69.541	9.204	ug/L
⌊>	Sc	45	291539.884	291539.88				ug/L
⌈	Ti	49	9185.172	0.03	13.8898	1.632	11.752	ug/L
|	V	51	25594.861	0.06	2.1854	0.193	8.826	ug/L
|	Cr	52	37461.859	0.08	3.2522	0.235	7.221	ug/L
|	Cr	53	3470.950	0.01	3.1737	0.144	4.545	ug/L
|	Mn	55	957201.123	2.69	69.5532	5.184	7.453	ug/L
|	Co	59	12914.832	0.04	1.1756	0.101	8.565	ug/L
|	Ni	60	7028.876	0.02	3.1105	0.140	4.494	ug/L
|	Cu	65	10805.625	0.03	5.1272	0.350	6.817	ug/L
|	Zn	66	127009.571	0.35	107.9668	6.993	6.477	ug/L
|>	Ge	72	355248.733	355248.73				ug/L
|	As	75	532.734	0.00	0.8696	0.090	10.302	ug/L
|	Se	77	40.004	-0.00	-0.2225	0.456	204.711	ug/L
|	Se	82	6.936	0.00	-0.0088	0.188	2128.593	ug/L
⌊	Rb	85	7619.650	0.02				mg/L
	Y	89	238627.229	39701.75				ug/L
	Rh	103	15.333	6.00				ug/L
⌈	Mo	98	197.460	0.00	0.0945	0.010	10.957	ug/L
|	Ag	107	67.001	0.00	-0.0043	0.003	80.992	ug/L
|	Cd	114	952.554	0.00	1.1519	0.050	4.354	ug/L
|>	In	115	264803.971	264803.97				ug/L
|	Sn	118	2590.336	0.00	0.3576	0.032	9.074	ug/L
⌊	Sb	123	67.033	-0.00	0.0209	0.004	17.728	ug/L
⌈	Ba	135	15174.353	0.05	11.8630	0.821	6.921	ug/L
|	Ce	140	97533.253	0.31				ug/L
⌊>	Tb	159	316574.763	316574.76				ug/L
⌈	Ho	165	1313.551	0.00				ug/L
|	Tl	203	186.004	0.00	0.0322	0.001	4.188	ug/L
|	Tl	205	460.057	0.00	0.0002	0.007	3923.591	ug/L
|	Pb	206	43907.018	0.12	9.7452	0.878	9.012	ug/L
|	Pb	207	37094.191	0.10	9.0983	0.614	6.753	ug/L
|	Pb	208	175210.644	0.48	9.4531	0.764	8.077	ug/L
|	U	238	3649.704	0.01	0.1198	0.009	7.154	ug/L
⌊>	Bi	209	351305.650	351305.65				ug/L

Sample ID: L1011046812
Report Date/Time: Tuesday, November 23, 2010 22:20:08
Page 1

Approved: November 24, 2010

⌈	Na	23	448870.421	1.50	0.0832	0.008	9.451	mg/L
|	Mg	24	22387988.712	76.89	7.8825	0.742	9.419	mg/L
|	K	39	1814373.879	4.61	0.1571	0.015	9.232	mg/L
|	Ca	43	416126.513	1.43	21.1394	1.713	8.103	mg/L
|	Fe	54	1602877.052	5.33	3.1293	0.293	9.361	mg/L
|	Fe	57	646788.403	2.20	2.7255	0.280	10.258	mg/L
⌊>	Sc-1	45	291539.884	291539.88				mg/L
	Cl	35	42781.990	11381.43				mg/L
	Kr	83	45.667	9.67				mg/L
	Br	81	6735.601	356.90				mg/L
	P	31	65031.277	55515.39				mg/L
	S	34	221846.979	36970.03				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		107.275			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.663			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.356			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.391			
⌈	Na	23					

Sample ID: L1011046812
Report Date/Time: Tuesday, November 23, 2010 22:20:08
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046813

Sample Date/Time: Tuesday, November 23, 2010 22:24:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 58
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23494.386	-0.00				ug/L
|	Be	9	24.667	0.00	0.0832	0.015	17.809	ug/L
|	Al	27	4782036.116	15.89	769.1398	78.939	10.263	ug/L
⌊>	Sc	45	300963.526	300963.53				ug/L
⌈	Ti	49	8070.753	0.02	12.2474	1.279	10.443	ug/L
|	V	51	25744.999	0.06	2.2091	0.168	7.605	ug/L
|	Cr	52	38997.234	0.08	3.4492	0.338	9.799	ug/L
|	Cr	53	3664.379	0.01	3.3790	0.476	14.101	ug/L
|	Mn	55	1113296.046	3.15	81.1943	7.330	9.028	ug/L
|	Co	59	13604.443	0.04	1.2441	0.122	9.794	ug/L
|	Ni	60	7308.088	0.02	3.2471	0.267	8.208	ug/L
|	Cu	65	10603.094	0.03	5.0483	0.493	9.764	ug/L
|	Zn	66	111698.959	0.31	95.1279	8.295	8.720	ug/L
|>	Ge	72	353838.757	353838.76				ug/L
|	As	75	553.824	0.00	0.9013	0.066	7.300	ug/L
|	Se	77	73.341	0.00	0.3518	0.197	56.068	ug/L
|	Se	82	7.322	0.00	-0.0019	0.200	10767.519	ug/L
⌊	Rb	85	7927.909	0.02				mg/L
	Y	89	237839.751	38914.27				ug/L
	Rh	103	16.667	7.33				ug/L
⌈	Mo	98	188.424	0.00	0.0880	0.013	15.334	ug/L
|	Ag	107	70.001	0.00	-0.0035	0.002	65.060	ug/L
|	Cd	114	928.366	0.00	1.1155	0.109	9.795	ug/L
|>	In	115	266497.789	266497.79				ug/L
|	Sn	118	1383.296	-0.00	-0.0605	0.024	40.014	ug/L
⌊	Sb	123	83.160	0.00	0.0265	0.005	18.659	ug/L
⌈	Ba	135	16675.461	0.05	13.0251	1.240	9.522	ug/L
|	Ce	140	93810.307	0.30				ug/L
⌊>	Tb	159	316988.502	316988.50				ug/L
⌈	Ho	165	1223.532	0.00				ug/L
|	Tl	203	141.002	0.00	0.0242	0.004	18.140	ug/L
|	Tl	205	350.041	0.00	-0.0078	0.006	71.356	ug/L
|	Pb	206	42716.022	0.12	9.6524	0.997	10.326	ug/L
|	Pb	207	35453.502	0.10	8.8478	0.944	10.667	ug/L
|	Pb	208	166520.082	0.46	9.1380	0.878	9.605	ug/L
|	U	238	3981.836	0.01	0.1346	0.013	9.550	ug/L
⌊>	Bi	209	344851.774	344851.77				ug/L

Sample ID: L1011046813
Report Date/Time: Tuesday, November 23, 2010 22:26:56
Page 1

Approved: November 24, 2010

⌈	Na	23	390302.298	1.26	0.0679	0.008	12.244	mg/L
|	Mg	24	23674136.294	78.78	8.0765	0.919	11.374	mg/L
|	K	39	1847238.841	4.53	0.1542	0.019	12.185	mg/L
|	Ca	43	409257.156	1.36	20.1400	2.207	10.961	mg/L
|	Fe	54	1618115.711	5.21	3.0584	0.379	12.383	mg/L
|	Fe	57	649739.501	2.14	2.6508	0.241	9.101	mg/L
⌊>	Sc-1	45	300963.526	300963.53				mg/L
	Cl	35	43760.893	12360.34				mg/L
	Kr	83	39.667	3.67				mg/L
	Br	81	6660.217	281.51				mg/L
	P	31	65009.536	55493.65				mg/L
	S	34	214304.757	29427.81				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.849			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.339			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.488			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.583			
⌈	Na	23					

Sample ID: L1011046813
Report Date/Time: Tuesday, November 23, 2010 22:26:56
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046814

Sample Date/Time: Tuesday, November 23, 2010 22:31:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 59
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21840.508	-0.01				ug/L
|	Be	9	26.000	0.00	0.0855	0.018	21.596	ug/L
|	Al	27	5140969.895	16.66	806.5877	215.680	26.740	ug/L
⌊>	Sc	45	308624.398	308624.40				ug/L
⌈	Ti	49	5328.659	0.02	8.2795	1.747	21.106	ug/L
|	V	51	27959.989	0.07	2.4924	0.589	23.622	ug/L
|	Cr	52	28887.808	0.06	2.3451	0.632	26.967	ug/L
|	Cr	53	2553.931	0.01	2.3363	0.726	31.087	ug/L
|	Mn	55	1567271.539	4.54	117.1981	27.704	23.638	ug/L
|	Co	59	13936.534	0.04	1.3079	0.322	24.640	ug/L
|	Ni	60	9267.510	0.03	4.2282	0.920	21.762	ug/L
|	Cu	65	6334.481	0.02	3.0644	0.785	25.608	ug/L
|	Zn	66	26572.373	0.07	22.0960	4.645	21.020	ug/L
|>	Ge	72	345456.955	345456.96				ug/L
|	As	75	402.829	0.00	0.7094	0.137	19.280	ug/L
|	Se	77	60.006	0.00	0.1501	0.320	213.001	ug/L
|	Se	82	3.983	0.00	-0.0461	0.133	289.147	ug/L
⌊	Rb	85	8383.003	0.02				mg/L
	Y	89	239573.424	40647.94				ug/L
	Rh	103	15.334	6.00				ug/L
⌈	Mo	98	248.722	0.00	0.1279	0.020	15.661	ug/L
|	Ag	107	60.667	0.00	-0.0061	0.003	45.504	ug/L
|	Cd	114	132.512	0.00	0.1690	0.034	20.116	ug/L
|>	In	115	263322.111	263322.11				ug/L
|	Sn	118	1201.006	-0.00	-0.1178	0.019	15.856	ug/L
⌊	Sb	123	43.954	-0.00	0.0126	0.002	13.277	ug/L
⌈	Ba	135	22722.416	0.07	17.8357	4.677	26.220	ug/L
|	Ce	140	101542.015	0.32				ug/L
⌊>	Tb	159	316195.163	316195.16				ug/L
⌈	Ho	165	1580.287	0.00				ug/L
|	Tl	203	119.335	0.00	0.0204	0.001	6.048	ug/L
|	Tl	205	283.366	0.00	-0.0127	0.005	38.586	ug/L
|	Pb	206	13812.956	0.04	2.9071	0.736	25.310	ug/L
|	Pb	207	11584.372	0.03	2.6984	0.704	26.107	ug/L
|	Pb	208	54497.222	0.14	2.7843	0.719	25.810	ug/L
|	U	238	4356.692	0.01	0.1514	0.039	25.797	ug/L
⌊>	Bi	209	339334.460	339334.46				ug/L

Approved: November 24, 2010

⌈	Na	23	366876.035	1.15	0.0611	0.015	24.594	mg/L
|	Mg	24	42205049.051	136.98	14.0547	3.504	24.930	mg/L
|	K	39	1973414.609	4.79	0.1638	0.018	11.010	mg/L
|	Ca	43	758588.490	2.46	36.4297	9.026	24.775	mg/L
|	Fe	54	1776956.983	5.59	3.2836	0.610	18.591	mg/L
|	Fe	57	843372.304	2.71	3.3662	0.855	25.399	mg/L
⌊>	Sc-1	45	308624.398	308624.40				mg/L
	Cl	35	39123.063	7722.51				mg/L
	Kr	83	40.334	4.33				mg/L
	Br	81	6563.487	184.78				mg/L
	P	31	65904.547	56388.66				mg/L
	S	34	234689.205	49812.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.318			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.072			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.234			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.038			
⌈	Na	23					

Sample ID: L1011046814
Report Date/Time: Tuesday, November 23, 2010 22:33:40
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046815

Sample Date/Time: Tuesday, November 23, 2010 22:38:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 60
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21690.268	-0.01				ug/L
|	Be	9	26.667	0.00	0.0911	0.016	17.321	ug/L
|	Al	27	5393335.865	18.18	880.0489	167.071	18.984	ug/L
⌊>	Sc	45	296446.961	296446.96				ug/L
⌈	Ti	49	4191.325	0.01	6.3690	1.401	22.002	ug/L
|	V	51	25079.795	0.06	2.1522	0.423	19.665	ug/L
|	Cr	52	27973.205	0.05	2.1630	0.466	21.559	ug/L
|	Cr	53	2360.517	0.01	2.0869	0.271	12.997	ug/L
|	Mn	55	604150.036	1.71	44.1872	8.725	19.746	ug/L
|	Co	59	12535.210	0.03	1.1483	0.247	21.489	ug/L
|	Ni	60	7099.322	0.02	3.1637	0.626	19.779	ug/L
|	Cu	65	12210.772	0.03	5.8433	1.182	20.222	ug/L
|	Zn	66	30126.228	0.08	24.6731	4.626	18.749	ug/L
|>	Ge	72	352744.062	352744.06				ug/L
|	As	75	374.609	0.00	0.6589	0.134	20.340	ug/L
|	Se	77	56.673	-0.00	0.0680	0.885	1300.980	ug/L
|	Se	82	14.719	0.00	0.1018	0.028	27.930	ug/L
⌊	Rb	85	11273.587	0.03				mg/L
	Y	89	233290.230	34364.75				ug/L
	Rh	103	13.000	3.67				ug/L
⌈	Mo	98	190.679	0.00	0.0895	0.019	21.227	ug/L
|	Ag	107	92.001	0.00	0.0033	0.001	44.647	ug/L
|	Cd	114	68.801	0.00	0.0912	0.001	0.632	ug/L
|>	In	115	266234.947	266234.95				ug/L
|	Sn	118	1043.521	-0.00	-0.1763	0.018	10.013	ug/L
⌊	Sb	123	44.159	-0.00	0.0125	0.003	21.153	ug/L
⌈	Ba	135	13553.230	0.04	10.6128	2.304	21.708	ug/L
|	Ce	140	68477.713	0.22				ug/L
⌊>	Tb	159	316539.278	316539.28				ug/L
⌈	Ho	165	960.143	0.00				ug/L
|	Tl	203	174.670	0.00	0.0302	0.005	17.258	ug/L
|	Tl	205	416.718	0.00	-0.0031	0.011	365.878	ug/L
|	Pb	206	32820.903	0.09	7.2076	1.557	21.608	ug/L
|	Pb	207	27615.730	0.07	6.7031	1.444	21.545	ug/L
|	Pb	208	129574.431	0.35	6.9131	1.458	21.096	ug/L
|	U	238	2931.138	0.01	0.0940	0.022	23.772	ug/L
⌊>	Bi	209	350092.089	350092.09				ug/L

Sample ID: L1011046815
Report Date/Time: Tuesday, November 23, 2010 22:40:25
Page 1

Approved: November 24, 2010

Na	23	493835.770	1.63	0.0911	0.019	20.698	mg/L	
Mg	24	12966996.122	43.78	4.4808	0.979	21.848	mg/L	
K	39	1840441.821	4.60	0.1568	0.013	8.393	mg/L	
Ca	43	195415.257	0.66	9.7485	1.838	18.851	mg/L	
Fe	54	1642368.981	5.37	3.1522	0.727	23.063	mg/L	
Fe	57	659082.661	2.20	2.7292	0.569	20.838	mg/L	
> Sc-1	45	296446.961	296446.96				mg/L	
Cl	35	44336.771	12936.21				mg/L	
Kr	83	32.334	-3.67				mg/L	
Br	81	7639.585	1260.88				mg/L	
P	31	57148.885	47633.00				mg/L	
S	34	225195.605	40318.66				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		106.519			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		106.234			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		101.344			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		98.051			
Na	23					

Sample ID: L1011046815
Report Date/Time: Tuesday, November 23, 2010 22:40:25
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011046815
Report Date/Time: Tuesday, November 23, 2010 22:40:25
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011046816

Sample Date/Time: Tuesday, November 23, 2010 22:44:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 61
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

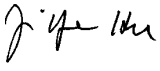
User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21840.524	-0.01				ug/L
|	Be	9	20.000	0.00	0.0660	0.017	26.419	ug/L
|	Al	27	5631588.477	18.20	881.1595	77.868	8.837	ug/L
⌊>	Sc	45	308795.800	308795.80				ug/L
⌈	Ti	49	7710.432	0.02	11.5873	1.349	11.640	ug/L
|	V	51	26115.495	0.06	2.2205	0.217	9.775	ug/L
|	Cr	52	39369.787	0.08	3.4482	0.430	12.471	ug/L
|	Cr	53	3544.316	0.01	3.2244	0.150	4.657	ug/L
|	Mn	55	721521.553	2.02	52.1069	6.186	11.872	ug/L
|	Co	59	17843.859	0.05	1.6229	0.181	11.181	ug/L
|	Ni	60	7792.142	0.02	3.4304	0.442	12.873	ug/L
|	Cu	65	13379.820	0.04	6.3277	0.767	12.119	ug/L
|	Zn	66	50988.901	0.14	42.2040	4.320	10.235	ug/L
| >	Ge	72	357496.685	357496.68				ug/L
|	As	75	598.079	0.00	0.9538	0.085	8.958	ug/L
|	Se	77	66.674	0.00	0.2244	0.422	188.037	ug/L
|	Se	82	8.029	0.00	0.0065	0.118	1804.735	ug/L
⌊	Rb	85	9311.444	0.03				mg/L
	Y	89	234685.836	35760.35				ug/L
	Rh	103	9.667	0.33				ug/L
⌈	Mo	98	229.087	0.00	0.1121	0.020	17.802	ug/L
|	Ag	107	162.003	0.00	0.0243	0.002	7.370	ug/L
|	Cd	114	121.711	0.00	0.1526	0.018	12.122	ug/L
| >	In	115	269195.992	269195.99				ug/L
|	Sn	118	1361.026	-0.00	-0.0728	0.005	6.419	ug/L
⌊	Sb	123	32.494	-0.00	0.0082	0.002	20.816	ug/L
⌈	Ba	135	11225.125	0.03	8.5908	1.070	12.456	ug/L
|	Ce	140	86211.691	0.27				ug/L
⌊>	Tb	159	323442.803	323442.80				ug/L
⌈	Ho	165	886.795	0.00				ug/L
|	Tl	203	151.669	0.00	0.0255	0.003	13.438	ug/L
|	Tl	205	333.373	0.00	-0.0099	0.007	70.181	ug/L
|	Pb	206	27129.293	0.07	5.8019	0.634	10.919	ug/L
|	Pb	207	22515.088	0.06	5.3189	0.619	11.635	ug/L
|	Pb	208	106047.996	0.28	5.5056	0.600	10.902	ug/L
|	U	238	2639.377	0.01	0.0820	0.010	11.704	ug/L
⌊>	Bi	209	354845.922	354845.92				ug/L

Sample ID: L1011046816
Report Date/Time: Tuesday, November 23, 2010 22:47:10
Page 1

Approved: November 24, 2010



⌈	Na	23	355956.981	1.11	0.0587	0.006	10.063	mg/L
|	Mg	24	12008172.929	38.87	3.9767	0.316	7.957	mg/L
|	K	39	1854587.313	4.40	0.1492	0.015	10.349	mg/L
|	Ca	43	198247.316	0.64	9.4829	0.937	9.878	mg/L
|	Fe	54	1784617.605	5.60	3.2899	0.177	5.391	mg/L
|	Fe	57	816485.875	2.62	3.2494	0.226	6.966	mg/L
⌊>	Sc-1	45	308795.800	308795.80				mg/L
	Cl	35	40646.452	9245.89				mg/L
	Kr	83	35.000	-1.00				mg/L
	Br	81	6617.522	238.82				mg/L
	P	31	73487.049	63971.16				mg/L
	S	34	227008.447	42131.50				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		107.954			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.416			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.555			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.382			
⌈	Na	23					

Sample ID: L1011046816
Report Date/Time: Tuesday, November 23, 2010 22:47:10
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011046816
Report Date/Time: Tuesday, November 23, 2010 22:47:10
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, November 23, 2010 22:51:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26083.978	0.01				ug/L
|	Be	9	7.333	-0.00	0.0265	0.004	15.530	ug/L
|	Al	27	22543098.571	77.36	3743.5705	68.658	1.834	ug/L
⌊>	Sc	45	291350.539	291350.54				ug/L
⌈	Ti	49	57081.506	0.16	87.6856	0.400	0.456	ug/L
|	V	51	2599.854	-0.00	-0.0340	0.014	42.640	ug/L
|	Cr	52	9206.995	-0.00	-0.0430	0.014	33.647	ug/L
|	Cr	53	986.815	0.00	0.7188	0.193	26.791	ug/L
|	Mn	55	3269.901	0.01	0.2122	0.006	2.905	ug/L
|	Co	59	1904.200	0.00	0.1571	0.007	4.183	ug/L
|	Ni	60	1244.423	0.00	0.5414	0.014	2.593	ug/L
|	Cu	65	753.703	0.00	0.2958	0.007	2.202	ug/L
|	Zn	66	1878.862	0.00	0.1819	0.052	28.457	ug/L
|>	Ge	72	350171.852	350171.85				ug/L
|	As	75	-129.621	0.00	-0.0313	0.063	202.261	ug/L
|	Se	77	90.009	0.00	0.6508	0.615	94.450	ug/L
|	Se	82	0.643	-0.00	-0.0952	0.037	38.789	ug/L
⌊	Rb	85	1247.424	0.00				mg/L
	Y	89	204078.403	5152.92				ug/L
	Rh	103	6.000	-3.33				ug/L
⌈	Mo	98	148610.212	0.57	95.2525	1.069	1.123	ug/L
|	Ag	107	46.334	0.00	-0.0105	0.004	34.143	ug/L
|	Cd	114	105.432	0.00	0.1369	0.011	8.148	ug/L
|>	In	115	262188.442	262188.44				ug/L
|	Sn	118	987.915	-0.00	-0.1900	0.009	4.520	ug/L
⌊	Sb	123	110.370	0.00	0.0370	0.005	13.068	ug/L
⌈	Ba	135	48.001	0.00	0.0135	0.004	28.641	ug/L
|	Ce	140	136.681	0.00				ug/L
⌊>	Tb	159	320549.684	320549.68				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	54.667	0.00	0.0073	0.001	19.939	ug/L
|	Tl	205	110.012	0.00	-0.0270	0.002	8.700	ug/L
|	Pb	206	763.703	-0.00	-0.2264	0.005	2.403	ug/L
|	Pb	207	632.693	-0.00	-0.2049	0.011	5.321	ug/L
|	Pb	208	2961.201	-0.01	-0.2237	0.002	1.027	ug/L
|	U	238	12.667	-0.00	-0.0127	0.000	0.697	ug/L
⌊>	Bi	209	354926.495	354926.50				ug/L

Sample ID: QC Std 4
Report Date/Time: Tuesday, November 23, 2010 22:53:56
Page 1

Approved: November 24, 2010

⌈	Na	23	56642535.855	194.39	12.2162	0.122	0.998	mg/L
|	Mg	24	13904356.470	47.72	4.8860	0.117	2.394	mg/L
|	K	39	38138408.042	129.30	4.7737	0.047	0.994	mg/L
|	Ca	43	274336.390	0.94	13.9250	0.098	0.702	mg/L
|	Fe	54	6073792.966	20.67	12.1706	0.214	1.754	mg/L
|	Fe	57	2548815.427	8.72	10.8392	0.114	1.053	mg/L
⌊>	Sc-1	45	291350.539	291350.54				mg/L
	Cl	35	1874546.200	1843145.64				mg/L
	Kr	83	41.000	5.00				mg/L
	Br	81	5916.416	-462.29				mg/L
	P	31	1706969.425	1697453.54				mg/L
	S	34	349133.649	164256.70				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.742			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.620			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.628			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.405			
⌈	Na	23					

Sample ID: QC Std 4
Report Date/Time: Tuesday, November 23, 2010 22:53:56
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	Cd	114	ICSA IS OUT OF LIMITS (+/-RL)
QC Std 4	Pb	208	ICSA IS OUT OF LIMITS (+/-RL)

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, November 23, 2010 22:58:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28039.277	0.01				ug/L
|	Be	9	32162.990	0.11	111.7243	4.703	4.210	ug/L
|	Al	27	30588190.794	106.52	5154.5194	187.065	3.629	ug/L
⌊>	Sc	45	287235.421	287235.42				ug/L
⌈	Ti	49	76029.275	0.21	113.9917	5.288	4.639	ug/L
|	V	51	922222.629	2.56	87.9607	1.450	1.648	ug/L
|	Cr	52	785316.563	2.16	89.9578	0.498	0.554	ug/L
|	Cr	53	94170.724	0.26	92.3218	0.987	1.069	ug/L
|	Mn	55	1273009.580	3.55	91.5720	2.247	2.454	ug/L
|	Co	59	983830.132	2.74	90.2859	0.810	0.897	ug/L
|	Ni	60	206721.086	0.58	91.1572	0.980	1.075	ug/L
|	Cu	65	198528.961	0.55	94.4858	0.389	0.412	ug/L
|	Zn	66	115033.375	0.32	96.6469	0.851	0.880	ug/L
|>	Ge	72	358792.713	358792.71				ug/L
|	As	75	73902.216	0.21	99.3491	0.982	0.989	ug/L
|	Se	77	5815.606	0.02	97.7819	3.090	3.160	ug/L
|	Se	82	6713.373	0.02	92.2235	1.160	1.258	ug/L
⌊	Rb	85	1710.830	0.00				mg/L
	Y	89	201367.307	2441.82				ug/L
	Rh	103	32.667	23.33				ug/L
⌈	Mo	98	202568.414	0.77	129.8518	1.425	1.098	ug/L
|	Ag	107	238991.409	0.91	74.7204	16.585	22.196	ug/L
|	Cd	114	85531.550	0.33	103.6385	0.917	0.885	ug/L
|>	In	115	262197.971	262197.97				ug/L
|	Sn	118	1433.036	-0.00	-0.0355	0.017	47.878	ug/L
⌊	Sb	123	276945.281	1.06	101.0944	0.575	0.569	ug/L
⌈	Ba	135	128168.116	0.40	99.6554	1.565	1.570	ug/L
|	Ce	140	223.358	0.00				ug/L
⌊>	Tb	159	318785.521	318785.52				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	544233.479	1.52	100.9678	2.401	2.378	ug/L
|	Tl	205	1339295.547	3.74	101.4542	2.866	2.825	ug/L
|	Pb	206	451852.340	1.26	101.9405	1.596	1.566	ug/L
|	Pb	207	398191.299	1.11	99.1996	0.410	0.413	ug/L
|	Pb	208	1834301.961	5.10	100.5914	1.045	1.039	ug/L
|	U	238	2772491.703	7.74	98.9703	0.556	0.562	ug/L
⌊>	Bi	209	358306.239	358306.24				ug/L

Sample ID: QC Std 5
Report Date/Time: Tuesday, November 23, 2010 23:00:43
Page 1

Approved: November 24, 2010

Na	23	80398413.207	279.92	17.5961	0.445	2.529	mg/L
Mg	24	19754188.087	68.79	7.0505	0.291	4.128	mg/L
K	39	51982661.763	179.41	6.6287	0.140	2.113	mg/L
Ca	43	375592.048	1.31	19.3508	0.525	2.713	mg/L
Fe	54	8203789.975	28.39	16.7203	0.403	2.412	mg/L
Fe	57	3469208.311	12.06	14.9814	0.329	2.199	mg/L
> Sc-1	45	287235.421	287235.42				mg/L
Cl	35	2138228.629	2106828.07				mg/L
Kr	83	35.000	-1.00				mg/L
Br	81	6013.141	-365.56				mg/L
P	31	1919412.141	1909896.25				mg/L
S	34	410461.391	225584.44				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	87.961				
Cr	52	89.958				
Cr	53					
Mn	55	91.572				
Co	59	90.286				
Ni	60	91.157				
Cu	65	94.486				
Zn	66	96.647				
> Ge	72		108.345			
As	75	99.349				
Se	77					
Se	82	92.223				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	74.720				
Cd	114	103.638				
> In	115		104.624			
Sn	118					
Sb	123	101.094				
Ba	135	99.655				
Ce	140					
> Tb	159		102.064			
Ho	165					
Tl	203	100.968				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.591				
U	238	98.970				
> Bi	209		100.352			
Na	23					

Sample ID: QC Std 5
Report Date/Time: Tuesday, November 23, 2010 23:00:43
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Ag	107	ICSAB IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 5
Report Date/Time: Tuesday, November 23, 2010 23:00:43
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 23, 2010 23:05:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26351.450	0.00				ug/L
|	Be	9	15899.975	0.05	52.4261	4.217	8.043	ug/L
|	Al	27	329302.181	1.07	51.8787	3.035	5.849	ug/L
⌊>	Sc	45	303326.363	303326.36				ug/L
⌈	Ti	49	61920.762	0.17	91.9110	3.634	3.954	ug/L
|	V	51	490302.582	1.34	46.1584	0.910	1.971	ug/L
|	Cr	52	411887.454	1.11	46.1589	0.628	1.360	ug/L
|	Cr	53	48522.400	0.13	46.9683	2.424	5.161	ug/L
|	Mn	55	649036.013	1.79	46.2020	0.485	1.050	ug/L
|	Co	59	505752.211	1.39	45.9266	0.280	0.611	ug/L
|	Ni	60	105817.045	0.29	46.1796	0.768	1.662	ug/L
|	Cu	65	100774.969	0.28	47.4363	0.230	0.485	ug/L
|	Zn	66	58893.848	0.16	48.2613	0.778	1.612	ug/L
|>	Ge	72	362487.348	362487.35				ug/L
|	As	75	37496.050	0.10	49.9684	0.723	1.448	ug/L
|	Se	77	2817.346	0.01	46.4017	1.910	4.116	ug/L
|	Se	82	3592.370	0.01	48.8023	0.537	1.100	ug/L
⌊	Rb	85	1476.124	0.00				mg/L
	Y	89	214807.241	15881.76				ug/L
	Rh	103	20.334	11.00				ug/L
⌈	Mo	98	161669.321	0.60	101.4034	0.899	0.886	ug/L
|	Ag	107	165520.597	0.62	50.5905	0.454	0.896	ug/L
|	Cd	114	42984.782	0.16	50.9755	0.822	1.613	ug/L
|>	In	115	267950.745	267950.74				ug/L
|	Sn	118	147276.737	0.54	49.5006	0.518	1.047	ug/L
⌊	Sb	123	140594.794	0.52	50.2208	0.536	1.067	ug/L
⌈	Ba	135	65539.061	0.20	49.6494	0.423	0.851	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	327097.173	327097.17				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	275467.854	0.76	50.4862	1.138	2.254	ug/L
|	Tl	205	672217.959	1.85	50.2813	0.202	0.402	ug/L
|	Pb	206	222721.479	0.61	49.4315	0.229	0.464	ug/L
|	Pb	207	203810.496	0.56	49.9832	0.797	1.594	ug/L
|	Pb	208	923550.700	2.53	49.8402	0.479	0.960	ug/L
|	U	238	1448677.076	3.99	51.0855	0.467	0.913	ug/L
⌊>	Bi	209	362683.625	362683.62				ug/L

Approved: November 24, 2010

Na	23	24244928.766	80.07	5.0249	0.282	5.604	mg/L
Mg	24	15323061.139	50.60	5.1822	0.238	4.597	mg/L
K	39	40263193.541	131.37	4.8503	0.217	4.475	mg/L
Ca	43	100940.423	0.33	4.9212	0.257	5.230	mg/L
Fe	54	2611837.083	8.46	4.9760	0.440	8.852	mg/L
Fe	57	1300984.537	4.27	5.3052	0.247	4.649	mg/L
Sc-1	45	303326.363	303326.36				mg/L
Cl	35	32572.969	1172.41				mg/L
Kr	83	37.334	1.33				mg/L
Br	81	6388.040	9.34				mg/L
P	31	9757.475	241.59				mg/L
S	34	190965.583	6088.64				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	92.317				
Cr	52	92.318				
Cr	53					
Mn	55	92.404				
Co	59	91.853				
Ni	60	92.359				
Cu	65	94.873				
Zn	66	96.523				
Ge	72		109.461			
As	75	99.937				
Se	77					
Se	82	97.605				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.181				
Cd	114	101.951				
In	115		106.919			
Sn	118					
Sb	123	100.442				
Ba	135	99.299				
Ce	140					
Tb	159		104.725			
Ho	165					
Tl	203	100.972				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.680				
U	238	102.171				
Bi	209		101.578			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 23:07:29
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 23, 2010 23:07:29
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 23, 2010 23:12:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27036.660	0.00				ug/L
|	Be	9	4.000	-0.00	0.0141	0.006	43.970	ug/L
|	Al	27	5718.363	-0.00	0.1184	0.219	184.965	ug/L
⌊>	Sc	45	310239.764	310239.76				ug/L
⌈	Ti	49	43.338	-0.00	0.0394	0.022	55.958	ug/L
|	V	51	2962.260	-0.00	-0.0109	0.002	15.874	ug/L
|	Cr	52	9313.428	-0.00	-0.0781	0.011	14.044	ug/L
|	Cr	53	306.702	0.00	0.0219	0.007	31.174	ug/L
|	Mn	55	339.009	0.00	-0.0051	0.001	20.284	ug/L
|	Co	59	170.670	-0.00	-0.0066	0.001	14.877	ug/L
|	Ni	60	24.000	0.00	-0.0107	0.000	3.464	ug/L
|	Cu	65	86.668	-0.00	-0.0315	0.005	15.830	ug/L
|	Zn	66	1129.408	-0.00	-0.5149	0.028	5.512	ug/L
|>	Ge	72	365909.042	365909.04				ug/L
|	As	75	-136.270	0.00	-0.0319	0.037	116.117	ug/L
|	Se	77	33.337	-0.00	-0.3557	0.252	70.817	ug/L
|	Se	82	0.983	-0.00	-0.0907	0.041	45.537	ug/L
⌊	Rb	85	13.667	-0.00				mg/L
	Y	89	221924.310	22998.83				ug/L
	Rh	103	4.333	-5.00				ug/L
⌈	Mo	98	198.794	0.00	0.0934	0.014	15.180	ug/L
|	Ag	107	27.334	0.00	-0.0167	0.001	3.198	ug/L
|	Cd	114	3.552	-0.00	0.0133	0.008	63.321	ug/L
|>	In	115	268924.751	268924.75				ug/L
|	Sn	118	1000.850	-0.00	-0.1942	0.009	4.683	ug/L
⌊	Sb	123	295.919	0.00	0.1020	0.009	8.941	ug/L
⌈	Ba	135	13.000	0.00	-0.0140	0.003	24.326	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	331323.981	331323.98				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	20.334	0.00	0.0007	0.000	71.697	ug/L
|	Tl	205	43.338	0.00	-0.0323	0.000	1.311	ug/L
|	Pb	206	617.359	-0.00	-0.2666	0.005	1.955	ug/L
|	Pb	207	555.021	-0.00	-0.2313	0.007	2.927	ug/L
|	Pb	208	2513.150	-0.01	-0.2553	0.003	1.030	ug/L
|	U	238	47.667	0.00	-0.0115	0.000	3.235	ug/L
⌊>	Bi	209	372711.066	372711.07				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 23:14:12
Page 1

Approved: November 24, 2010

⌈	Na	23	11891.591	-0.00	-0.0114	0.000	0.219	mg/L
|	Mg	24	320.037	0.00	-0.0158	0.000	0.124	mg/L
|	K	39	470317.052	-0.09	-0.0170	0.002	10.499	mg/L
|	Ca	43	160.017	-0.00	-0.0081	0.001	15.781	mg/L
|	Fe	54	50634.765	-0.01	-0.0181	0.002	9.814	mg/L
|	Fe	57	6896.400	-0.00	-0.0082	0.000	4.244	mg/L
⌊>	Sc-1	45	310239.764	310239.76				mg/L
	Cl	35	28523.288	-2877.27				mg/L
	Kr	83	40.334	4.33				mg/L
	Br	81	6756.949	378.25				mg/L
	P	31	9652.670	136.78				mg/L
	S	34	184396.590	-480.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		110.494			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.308			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.078			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.386			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 23:14:12
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 23, 2010 23:14:12
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: PBS 06 WG348722-02

Sample Date/Time: Tuesday, November 23, 2010 23:18:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 62
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25716.477	0.00				ug/L
|	Be	9	6.000	-0.00	0.0207	0.011	54.304	ug/L
|	Al	27	6185.246	-0.00	0.1925	0.011	5.900	ug/L
⌊>	Sc	45	309362.526	309362.53				ug/L
⌈	Ti	49	33.337	-0.00	0.0244	0.008	31.420	ug/L
|	V	51	2890.887	-0.00	-0.0194	0.002	11.146	ug/L
|	Cr	52	9161.954	-0.00	-0.1021	0.013	12.949	ug/L
|	Cr	53	200.022	-0.00	-0.0823	0.018	21.272	ug/L
|	Mn	55	2209.266	0.01	0.1259	0.001	0.529	ug/L
|	Co	59	180.670	-0.00	-0.0058	0.001	22.007	ug/L
|	Ni	60	42.001	0.00	-0.0030	0.004	119.302	ug/L
|	Cu	65	92.001	-0.00	-0.0293	0.002	8.097	ug/L
|	Zn	66	1414.448	-0.00	-0.2843	0.024	8.294	ug/L
|>	Ge	72	368334.229	368334.23				ug/L
|	As	75	-143.858	-0.00	-0.0408	0.017	41.858	ug/L
|	Se	77	60.006	-0.00	0.0811	0.156	192.216	ug/L
|	Se	82	-3.696	-0.00	-0.1540	0.082	53.303	ug/L
⌊	Rb	85	16.667	-0.00				mg/L
	Y	89	223441.103	24515.62				ug/L
	Rh	103	7.333	-2.00				ug/L
⌈	Mo	98	66.128	0.00	0.0097	0.004	44.835	ug/L
|	Ag	107	22.000	-0.00	-0.0184	0.002	9.980	ug/L
|	Cd	114	5.017	-0.00	0.0149	0.008	51.633	ug/L
|>	In	115	274198.575	274198.58				ug/L
|	Sn	118	923.109	-0.00	-0.2265	0.006	2.492	ug/L
⌊	Sb	123	109.706	0.00	0.0349	0.004	11.869	ug/L
⌈	Ba	135	19.334	0.00	-0.0093	0.003	27.605	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	333808.591	333808.59				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	27.334	0.00	0.0019	0.001	65.723	ug/L
|	Tl	205	50.005	0.00	-0.0318	0.002	7.819	ug/L
|	Pb	206	616.692	-0.00	-0.2664	0.006	2.280	ug/L
|	Pb	207	502.351	-0.00	-0.2435	0.003	1.351	ug/L
|	Pb	208	2401.471	-0.01	-0.2608	0.003	1.271	ug/L
|	U	238	22.667	0.00	-0.0123	0.000	0.948	ug/L
⌊>	Bi	209	371594.399	371594.40				ug/L

Approved: November 24, 2010

⌈	Na	23	15109.584	0.01	-0.0107	0.000	0.156	mg/L
|	Mg	24	800.112	0.00	-0.0156	0.000	0.064	mg/L
|	K	39	469628.587	-0.09	-0.0169	0.001	6.383	mg/L
|	Ca	43	173.352	-0.00	-0.0074	0.002	23.094	mg/L
|	Fe	54	51483.409	-0.01	-0.0162	0.001	3.967	mg/L
|	Fe	57	6739.613	-0.00	-0.0088	0.001	10.524	mg/L
⌊>	Sc-1	45	309362.526	309362.53				mg/L
	Cl	35	29215.288	-2185.27				mg/L
	Kr	83	41.667	5.67				mg/L
	Br	81	6744.941	366.24				mg/L
	P	31	10479.491	963.60				mg/L
	S	34	181376.045	-3500.90				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		111.226			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.412			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.873			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.073			
⌈	Na	23					

Sample ID: PBS 06 WG348722-02
Report Date/Time: Tuesday, November 23, 2010 23:20:58
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 06 WG348722-02
Report Date/Time: Tuesday, November 23, 2010 23:20:58
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: LCSS 06 WG348722-03

Sample Date/Time: Tuesday, November 23, 2010 23:25:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 63
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25883.572	0.00				ug/L
|	Be	9	7795.038	0.03	25.0895	0.983	3.918	ug/L
|	Al	27	164103.219	0.51	24.8382	0.272	1.095	ug/L
⌊>	Sc	45	309982.842	309982.84				ug/L
⌈	Ti	49	86.676	0.00	0.1003	0.036	36.311	ug/L
|	V	51	248024.119	0.65	22.4387	0.104	0.465	ug/L
|	Cr	52	217720.871	0.55	23.0463	0.405	1.758	ug/L
|	Cr	53	24950.250	0.07	23.2172	0.242	1.043	ug/L
|	Mn	55	337252.934	0.90	23.2091	0.137	0.591	ug/L
|	Co	59	262621.081	0.70	23.0617	0.102	0.444	ug/L
|	Ni	60	54316.677	0.14	22.9210	0.404	1.763	ug/L
|	Cu	65	52889.359	0.14	24.0502	0.186	0.774	ug/L
|	Zn	66	32774.287	0.08	25.3057	0.277	1.096	ug/L
|>	Ge	72	374692.016	374692.02				ug/L
|	As	75	18867.560	0.05	24.4001	0.402	1.646	ug/L
|	Se	77	1526.937	0.00	23.8974	2.296	9.607	ug/L
|	Se	82	1819.860	0.00	23.8628	0.638	2.674	ug/L
⌊	Rb	85	28.000	0.00				mg/L
	Y	89	227746.805	28821.32				ug/L
	Rh	103	14.333	5.00				ug/L
⌈	Mo	98	143.235	0.00	0.0555	0.001	1.759	ug/L
|	Ag	107	87091.492	0.31	25.5764	0.182	0.711	ug/L
|	Cd	114	22003.942	0.08	25.0881	0.463	1.844	ug/L
|>	In	115	278729.389	278729.39				ug/L
|	Sn	118	814.033	-0.00	-0.2670	0.018	6.591	ug/L
⌊	Sb	123	70893.580	0.25	24.3412	0.363	1.490	ug/L
⌈	Ba	135	32943.839	0.10	24.4155	0.384	1.574	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	334220.548	334220.55				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	138866.259	0.37	24.8770	0.255	1.027	ug/L
|	Tl	205	338993.722	0.91	24.7705	0.304	1.228	ug/L
|	Pb	206	115362.790	0.31	24.8334	0.411	1.654	ug/L
|	Pb	207	102046.056	0.27	24.2783	0.259	1.068	ug/L
|	Pb	208	469897.447	1.25	24.5963	0.418	1.700	ug/L
|	U	238	725327.340	1.96	24.9979	0.431	1.725	ug/L
⌊>	Bi	209	371004.136	371004.14				ug/L

Sample ID: LCSS 06 WG348722-03
Report Date/Time: Tuesday, November 23, 2010 23:27:44
Page 1

Approved: November 24, 2010

⌈	Na	23	36386.390	0.08	-0.0064	0.000	1.624	mg/L
|	Mg	24	1686.978	0.00	-0.0153	0.000	0.347	mg/L
|	K	39	483329.622	-0.05	-0.0154	0.001	7.314	mg/L
|	Ca	43	350.041	0.00	0.0010	0.002	191.904	mg/L
|	Fe	54	52206.883	-0.01	-0.0150	0.004	29.080	mg/L
|	Fe	57	6626.191	-0.00	-0.0092	0.001	11.131	mg/L
⌊>	Sc-1	45	309982.842	309982.84				mg/L
	Cl	35	31692.145	291.59				mg/L
	Kr	83	38.000	2.00				mg/L
	Br	81	6806.317	427.61				mg/L
	P	31	9552.574	36.69				mg/L
	S	34	174946.325	-9930.62				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.146			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.220			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		107.005			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.908			
⌈	Na	23					

Sample ID: LCSS 06 WG348722-03
Report Date/Time: Tuesday, November 23, 2010 23:27:44
Page 2

Approved: November 24, 2010

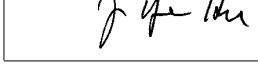
Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 06 WG348722-03
Report Date/Time: Tuesday, November 23, 2010 23:27:44
Page 3

Approved: November 24, 2010



Method 6020 - Summary Report

Sample ID: L1011044928 WG348722-01

Sample Date/Time: Tuesday, November 23, 2010 23:32:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 64
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26418.257	0.00				ug/L
|	Be	9	45.333	0.00	0.1491	0.027	18.406	ug/L
|	Al	27	8598264.077	28.07	1358.4478	147.834	10.883	ug/L
⌊>	Sc	45	306218.034	306218.03				ug/L
⌈	Ti	49	10720.153	0.03	15.1534	0.512	3.380	ug/L
|	V	51	38915.656	0.09	3.2264	0.288	8.930	ug/L
|	Cr	52	34781.235	0.06	2.6711	0.236	8.832	ug/L
|	Cr	53	3124.137	0.01	2.6266	0.317	12.064	ug/L
|	Mn	55	858631.973	2.26	58.2944	3.815	6.545	ug/L
|	Co	59	17187.648	0.04	1.4672	0.102	6.952	ug/L
|	Ni	60	8218.135	0.02	3.4006	0.220	6.470	ug/L
|	Cu	65	11467.043	0.03	5.0836	0.366	7.200	ug/L
|	Zn	66	48158.956	0.12	37.3106	2.834	7.594	ug/L
|>	Ge	72	380030.301	380030.30				ug/L
|	As	75	649.952	0.00	0.9710	0.097	9.952	ug/L
|	Se	77	80.008	0.00	0.3714	0.275	73.988	ug/L
|	Se	82	12.325	0.00	0.0558	0.076	135.963	ug/L
⌊	Rb	85	14840.844	0.04				mg/L
	Y	89	242372.844	43447.36				ug/L
	Rh	103	14.000	4.67				ug/L
⌈	Mo	98	212.242	0.00	0.0992	0.017	17.153	ug/L
|	Ag	107	102.668	0.00	0.0057	0.004	78.293	ug/L
|	Cd	114	121.104	0.00	0.1494	0.008	5.394	ug/L
|>	In	115	274311.043	274311.04				ug/L
|	Sn	118	2156.099	0.00	0.1825	0.035	18.921	ug/L
⌊	Sb	123	206.750	0.00	0.0688	0.004	6.030	ug/L
⌈	Ba	135	12790.014	0.04	9.6601	0.951	9.847	ug/L
|	Ce	140	96262.611	0.29				ug/L
⌊>	Tb	159	327587.641	327587.64				ug/L
⌈	Ho	165	1330.222	0.00				ug/L
|	Tl	203	196.671	0.00	0.0329	0.002	7.299	ug/L
|	Tl	205	433.386	0.00	-0.0031	0.005	164.956	ug/L
|	Pb	206	18986.608	0.05	3.8271	0.372	9.731	ug/L
|	Pb	207	15743.572	0.04	3.5054	0.259	7.388	ug/L
|	Pb	208	74271.037	0.18	3.6318	0.359	9.892	ug/L
|	U	238	3483.311	0.01	0.1091	0.011	10.006	ug/L
⌊>	Bi	209	364579.595	364579.60				ug/L

Sample ID: L1011044928 WG348722-01
Report Date/Time: Tuesday, November 23, 2010 23:34:30
Page 1

Approved: November 24, 2010

⌈	Na	23	338493.580	1.07	0.0558	0.006	10.516	mg/L
|	Mg	24	12767316.926	41.70	4.2681	0.257	6.026	mg/L
|	K	39	2595486.810	6.87	0.2407	0.016	6.466	mg/L
|	Ca	43	179485.598	0.59	8.6653	0.641	7.394	mg/L
|	Fe	54	2007194.066	6.38	3.7493	0.284	7.564	mg/L
|	Fe	57	990599.826	3.21	3.9865	0.330	8.275	mg/L
⌊>	Sc-1	45	306218.034	306218.03				mg/L
	Cl	35	46468.392	15067.83				mg/L
	Kr	83	39.334	3.33				mg/L
	Br	81	7134.545	755.84				mg/L
	P	31	65762.599	56246.71				mg/L
	S	34	251267.650	66390.70				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		114.758			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.457			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.882			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.109			
⌈	Na	23					

Sample ID: L1011044928 WG348722-01
Report Date/Time: Tuesday, November 23, 2010 23:34:30
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011044928 WG348722-01
Report Date/Time: Tuesday, November 23, 2010 23:34:30
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044928S WG348722-04

Sample Date/Time: Tuesday, November 23, 2010 23:39:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 65
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25699.690	0.00				ug/L
|	Be	9	1536.120	0.01	5.0962	0.847	16.628	ug/L
|	Al	27	7787224.436	25.88	1252.6780	176.261	14.071	ug/L
⌊>	Sc	45	300842.080	300842.08				ug/L
⌈	Ti	49	9475.494	0.03	13.7211	1.988	14.486	ug/L
|	V	51	81336.874	0.21	7.2398	0.966	13.341	ug/L
|	Cr	52	71512.724	0.17	6.8864	1.020	14.818	ug/L
|	Cr	53	7994.015	0.02	7.3290	0.814	11.107	ug/L
|	Mn	55	1117153.676	3.01	77.7353	11.011	14.165	ug/L
|	Co	59	67802.168	0.18	5.9984	0.837	13.949	ug/L
|	Ni	60	19118.685	0.05	8.1364	1.171	14.389	ug/L
|	Cu	65	19544.847	0.05	8.9320	1.261	14.116	ug/L
|	Zn	66	39323.358	0.10	30.9793	4.180	13.492	ug/L
|>	Ge	72	371092.344	371092.34				ug/L
|	As	75	4486.836	0.01	5.9729	0.713	11.941	ug/L
|	Se	77	416.717	0.00	5.9247	0.876	14.789	ug/L
|	Se	82	353.988	0.00	4.6049	0.542	11.775	ug/L
⌊	Rb	85	13009.989	0.04				mg/L
	Y	89	238089.022	39163.54				ug/L
	Rh	103	15.333	6.00				ug/L
⌈	Mo	98	252.051	0.00	0.1257	0.012	9.593	ug/L
|	Ag	107	15001.823	0.06	4.5188	0.554	12.264	ug/L
|	Cd	114	4584.768	0.02	5.3938	0.719	13.338	ug/L
|>	In	115	270711.606	270711.61				ug/L
|	Sn	118	2677.161	0.00	0.3678	0.095	25.935	ug/L
⌊	Sb	123	1704.657	0.01	0.5997	0.051	8.506	ug/L
⌈	Ba	135	18237.015	0.06	13.9285	1.936	13.898	ug/L
|	Ce	140	97900.046	0.30				ug/L
⌊>	Tb	159	323978.660	323978.66				ug/L
⌈	Ho	165	1383.572	0.00				ug/L
|	Tl	203	25261.018	0.07	4.6626	0.495	10.624	ug/L
|	Tl	205	61523.358	0.17	4.6055	0.574	12.457	ug/L
|	Pb	206	40268.267	0.11	8.6792	1.223	14.091	ug/L
|	Pb	207	34880.887	0.09	8.3188	1.241	14.915	ug/L
|	Pb	208	162317.702	0.43	8.5085	1.187	13.955	ug/L
|	U	238	136687.746	0.38	4.8458	0.614	12.667	ug/L
⌊>	Bi	209	359902.369	359902.37				ug/L

Sample ID: L1011044928S WG348722-04
Report Date/Time: Tuesday, November 23, 2010 23:41:16
Page 1

Approved: November 24, 2010

⌈	Na	23	398964.732	1.29	0.0697	0.010	13.665	mg/L
|	Mg	24	12574386.246	41.82	4.2803	0.574	13.400	mg/L
|	K	39	2164252.312	5.59	0.1933	0.029	14.946	mg/L
|	Ca	43	250423.166	0.83	12.3145	1.597	12.970	mg/L
|	Fe	54	2339184.123	7.60	4.4701	0.694	15.524	mg/L
|	Fe	57	1183344.887	3.91	4.8559	0.705	14.518	mg/L
⌊>	Sc-1	45	300842.080	300842.08				mg/L
	Cl	35	45479.195	14078.64				mg/L
	Kr	83	41.000	5.00				mg/L
	Br	81	6838.338	459.63				mg/L
	P	31	53333.328	43817.44				mg/L
	S	34	287873.805	102996.86				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		112.059			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.021			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.726			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.799			
⌈	Na	23					

Sample ID: L1011044928S WG348722-04
Report Date/Time: Tuesday, November 23, 2010 23:41:16
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011044928S WG348722-04
Report Date/Time: Tuesday, November 23, 2010 23:41:16
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044928SD WG348722-05

Sample Date/Time: Tuesday, November 23, 2010 23:45:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 66
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24797.432	0.00				ug/L
|	Be	9	1662.806	0.01	5.6041	0.856	15.270	ug/L
|	Al	27	7542154.355	25.48	1233.2433	228.932	18.563	ug/L
⌊>	Sc	45	296569.053	296569.05				ug/L
⌈	Ti	49	9972.712	0.03	14.5479	2.422	16.646	ug/L
|	V	51	85986.734	0.22	7.7249	1.175	15.214	ug/L
|	Cr	52	75281.795	0.18	7.3668	1.161	15.766	ug/L
|	Cr	53	8124.179	0.02	7.5044	1.414	18.847	ug/L
|	Mn	55	2068141.952	5.61	144.9075	21.627	14.925	ug/L
|	Co	59	70860.077	0.19	6.3126	0.977	15.474	ug/L
|	Ni	60	19494.466	0.05	8.3514	1.314	15.731	ug/L
|	Cu	65	18558.987	0.05	8.5353	1.354	15.869	ug/L
|	Zn	66	55940.820	0.15	45.0023	6.659	14.797	ug/L
|>	Ge	72	368700.656	368700.66				ug/L
|	As	75	4572.009	0.01	6.1254	0.867	14.147	ug/L
|	Se	77	330.038	0.00	4.5429	0.384	8.448	ug/L
|	Se	82	394.338	0.00	5.1749	0.285	5.509	ug/L
⌊	Rb	85	12062.149	0.03				mg/L
	Y	89	244098.089	45172.61				ug/L
	Rh	103	16.667	7.33				ug/L
⌈	Mo	98	182.606	0.00	0.0829	0.010	11.978	ug/L
|	Ag	107	15916.294	0.06	4.8122	0.718	14.917	ug/L
|	Cd	114	4747.240	0.02	5.6073	1.095	19.522	ug/L
|>	In	115	270108.369	270108.37				ug/L
|	Sn	118	1567.057	0.00	-0.0042	0.053	1257.694	ug/L
⌊	Sb	123	646.438	0.00	0.2262	0.034	14.963	ug/L
⌈	Ba	135	19869.635	0.06	15.4484	2.714	17.570	ug/L
|	Ce	140	122712.671	0.39				ug/L
⌊>	Tb	159	318582.899	318582.90				ug/L
⌈	Ho	165	1530.272	0.00				ug/L
|	Tl	203	25709.633	0.07	4.8482	0.719	14.837	ug/L
|	Tl	205	61835.209	0.18	4.7294	0.656	13.866	ug/L
|	Pb	206	38684.924	0.10	8.5157	1.727	20.275	ug/L
|	Pb	207	33359.441	0.09	8.1225	1.476	18.167	ug/L
|	Pb	208	155340.484	0.42	8.3143	1.616	19.438	ug/L
|	U	238	146520.571	0.42	5.3101	0.947	17.840	ug/L
⌊>	Bi	209	352916.770	352916.77				ug/L

Sample ID: L1011044928SD WG348722-05
Report Date/Time: Tuesday, November 23, 2010 23:48:03
Page 1

Approved: November 24, 2010

⌈	Na	23	396593.321	1.30	0.0705	0.013	19.079	mg/L
|	Mg	24	26850551.786	90.76	9.3070	1.586	17.046	mg/L
|	K	39	2316163.288	6.21	0.2165	0.032	14.890	mg/L
|	Ca	43	416561.951	1.41	20.8246	3.326	15.974	mg/L
|	Fe	54	2478966.904	8.20	4.8212	0.842	17.464	mg/L
|	Fe	57	1231244.081	4.14	5.1369	0.937	18.247	mg/L
⌊>	Sc-1	45	296569.053	296569.05				mg/L
	Cl	35	50691.497	19290.94				mg/L
	Kr	83	39.334	3.33				mg/L
	Br	81	6869.025	490.32				mg/L
	P	31	63878.282	54362.39				mg/L
	S	34	251710.382	66833.43				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		111.337			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.780			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.999			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.842			
⌈	Na	23					

Sample ID: L1011044928SD WG348722-05
Report Date/Time: Tuesday, November 23, 2010 23:48:03
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011044928SD WG348722-05
Report Date/Time: Tuesday, November 23, 2010 23:48:03
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044909

Sample Date/Time: Tuesday, November 23, 2010 23:52:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 67
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24162.764	-0.00				ug/L
|	Be	9	43.333	0.00	0.1424	0.015	10.819	ug/L
|	Al	27	8653641.064	28.25	1367.2131	53.926	3.944	ug/L
⌊>	Sc	45	306029.467	306029.47				ug/L
⌈	Ti	49	14762.383	0.04	21.5822	1.247	5.779	ug/L
|	V	51	54748.312	0.14	4.8241	0.277	5.748	ug/L
|	Cr	52	31955.016	0.06	2.4800	0.171	6.906	ug/L
|	Cr	53	2854.029	0.01	2.4657	0.318	12.890	ug/L
|	Mn	55	846418.433	2.30	59.4097	2.730	4.595	ug/L
|	Co	59	21437.517	0.06	1.8983	0.073	3.858	ug/L
|	Ni	60	7460.864	0.02	3.1904	0.210	6.589	ug/L
|	Cu	65	9329.450	0.03	4.2644	0.229	5.363	ug/L
|	Zn	66	59953.259	0.16	48.4383	2.052	4.237	ug/L
|>	Ge	72	367728.970	367728.97				ug/L
|	As	75	1025.421	0.00	1.4904	0.088	5.902	ug/L
|	Se	77	56.672	-0.00	0.0285	0.098	342.805	ug/L
|	Se	82	10.302	0.00	0.0340	0.055	160.688	ug/L
⌊	Rb	85	14617.827	0.04				mg/L
	Y	89	240146.456	41220.97				ug/L
	Rh	103	11.333	2.00				ug/L
⌈	Mo	98	214.940	0.00	0.1022	0.003	2.979	ug/L
|	Ag	107	138.336	0.00	0.0167	0.005	27.456	ug/L
|	Cd	114	115.696	0.00	0.1445	0.011	7.439	ug/L
|>	In	115	271485.085	271485.09				ug/L
|	Sn	118	1635.868	0.00	0.0155	0.044	283.205	ug/L
⌊	Sb	123	62.204	-0.00	0.0186	0.001	5.260	ug/L
⌈	Ba	135	16259.713	0.05	12.3592	0.426	3.448	ug/L
|	Ce	140	102924.202	0.32				ug/L
⌊>	Tb	159	325541.555	325541.55				ug/L
⌈	Ho	165	1486.926	0.00				ug/L
|	Tl	203	562.688	0.00	0.1021	0.007	7.288	ug/L
|	Tl	205	1300.215	0.00	0.0637	0.004	6.873	ug/L
|	Pb	206	34689.148	0.09	7.5059	0.361	4.814	ug/L
|	Pb	207	28802.398	0.08	6.8833	0.237	3.437	ug/L
|	Pb	208	137032.878	0.36	7.2040	0.277	3.839	ug/L
|	U	238	3731.068	0.01	0.1210	0.007	5.585	ug/L
⌊>	Bi	209	356036.112	356036.11				ug/L

Sample ID: L1011044909
Report Date/Time: Tuesday, November 23, 2010 23:54:50
Page 1

Approved: November 24, 2010

⌈	Na	23	528495.685	1.69	0.0949	0.006	5.836	mg/L
|	Mg	24	8397054.760	27.44	2.8027	0.115	4.091	mg/L
|	K	39	2471932.895	6.47	0.2259	0.006	2.816	mg/L
|	Ca	43	190209.723	0.62	9.1864	0.385	4.195	mg/L
|	Fe	54	2049208.841	6.52	3.8320	0.125	3.254	mg/L
|	Fe	57	1037419.716	3.36	4.1773	0.196	4.696	mg/L
⌊>	Sc-1	45	306029.467	306029.47				mg/L
	Cl	35	45411.544	14010.99				mg/L
	Kr	83	42.001	6.00				mg/L
	Br	81	6713.587	334.88				mg/L
	P	31	56886.045	47370.16				mg/L
	S	34	223204.260	38327.31				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		111.044			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.329			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.227			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.716			
⌈	Na	23					

Sample ID: L1011044909
Report Date/Time: Tuesday, November 23, 2010 23:54:50
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011044909
Report Date/Time: Tuesday, November 23, 2010 23:54:50
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044910

Sample Date/Time: Tuesday, November 23, 2010 23:59:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 68
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27437.735	0.01				ug/L
|	Be	9	34.000	0.00	0.1116	0.024	21.932	ug/L
|	Al	27	10058876.978	32.77	1586.1862	43.419	2.737	ug/L
⌊>	Sc	45	306768.156	306768.16				ug/L
⌈	Ti	49	9722.369	0.03	14.2920	0.738	5.161	ug/L
|	V	51	51154.827	0.13	4.5163	0.037	0.827	ug/L
|	Cr	52	55193.143	0.12	5.1468	0.058	1.119	ug/L
|	Cr	53	5595.462	0.01	5.1252	0.296	5.779	ug/L
|	Mn	55	1135804.007	3.11	80.2046	1.347	1.680	ug/L
|	Co	59	20082.686	0.05	1.7874	0.024	1.327	ug/L
|	Ni	60	11253.776	0.03	4.8514	0.072	1.484	ug/L
|	Cu	65	207261.238	0.57	96.8260	0.932	0.962	ug/L
|	Zn	66	129907.997	0.35	107.3014	1.043	0.972	ug/L
|>	Ge	72	365516.857	365516.86				ug/L
|	As	75	707.157	0.00	1.0796	0.059	5.510	ug/L
|	Se	77	60.006	-0.00	0.0901	0.334	370.462	ug/L
|	Se	82	10.374	0.00	0.0366	0.100	273.142	ug/L
⌊	Rb	85	16220.643	0.04				mg/L
	Y	89	236719.425	37793.94				ug/L
	Rh	103	28.000	18.67				ug/L
⌈	Mo	98	238.128	0.00	0.1176	0.006	5.396	ug/L
|	Ag	107	882.381	0.00	0.2431	0.005	2.248	ug/L
|	Cd	114	321.843	0.00	0.3883	0.036	9.186	ug/L
|>	In	115	269652.432	269652.43				ug/L
|	Sn	118	2035.674	0.00	0.1542	0.005	3.510	ug/L
⌊	Sb	123	73.786	0.00	0.0228	0.003	12.041	ug/L
⌈	Ba	135	28972.876	0.09	22.0644	0.468	2.122	ug/L
|	Ce	140	118111.884	0.36				ug/L
⌊>	Tb	159	325200.546	325200.55				ug/L
⌈	Ho	165	1546.941	0.00				ug/L
|	Tl	203	542.020	0.00	0.0958	0.017	18.203	ug/L
|	Tl	205	1450.251	0.00	0.0725	0.015	20.082	ug/L
|	Pb	206	282259.205	0.77	62.3362	1.255	2.014	ug/L
|	Pb	207	230683.196	0.63	56.2369	0.308	0.548	ug/L
|	Pb	208	1094751.617	2.98	58.7547	0.783	1.333	ug/L
|	U	238	3786.088	0.01	0.1195	0.003	2.300	ug/L
⌊>	Bi	209	365132.742	365132.74				ug/L

Approved: November 24, 2010

Na	23	447776.232	1.42	0.0780	0.001	1.157	mg/L
Mg	24	11759972.757	38.34	3.9221	0.070	1.792	mg/L
K	39	2920129.837	7.91	0.2794	0.008	2.891	mg/L
Ca	43	208172.107	0.68	10.0325	0.223	2.225	mg/L
Fe	54	2505970.583	7.99	4.6998	0.096	2.034	mg/L
Fe	57	1232124.910	3.99	4.9576	0.116	2.335	mg/L
Sc-1	45	306768.156	306768.16				mg/L
Cl	35	45850.212	14449.65				mg/L
Kr	83	33.667	-2.33				mg/L
Br	81	6728.930	350.23				mg/L
P	31	84482.075	74966.19				mg/L
S	34	234739.241	49862.29				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		110.376			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		107.598			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		104.117			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		102.263			
Na	23					

Sample ID: L1011044910
Report Date/Time: Wednesday, November 24, 2010 00:01:38
Page 2

Approved: November 24, 2010

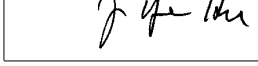
Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Sample ID: L1011044910
Report Date/Time: Wednesday, November 24, 2010 00:01:38
Page 3

Approved: November 24, 2010



Method 6020 - Summary Report

Sample ID: L1011044910PS WG349367-01

Sample Date/Time: Wednesday, November 24, 2010 00:06:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 69
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27304.072	0.00				ug/L
|	Be	9	16178.414	0.05	51.7448	0.313	0.604	ug/L
|	Al	27	10484909.009	33.61	1626.6710	71.214	4.378	ug/L
⌊>	Sc	45	311735.122	311735.12				ug/L
⌈	Ti	49	9749.058	0.03	14.3695	0.219	1.522	ug/L
|	V	51	559074.450	1.53	52.3809	0.502	0.959	ug/L
|	Cr	52	481864.259	1.30	53.8877	0.525	0.975	ug/L
|	Cr	53	56756.300	0.15	54.6643	0.889	1.627	ug/L
|	Mn	55	1817502.515	4.99	128.7240	1.185	0.920	ug/L
|	Co	59	555423.287	1.52	50.1753	1.325	2.641	ug/L
|	Ni	60	122899.840	0.34	53.3462	0.610	1.143	ug/L
|	Cu	65	307949.523	0.84	144.3226	1.011	0.701	ug/L
|	Zn	66	185566.791	0.50	154.3426	0.595	0.385	ug/L
|>	Ge	72	364467.188	364467.19				ug/L
|	As	75	38912.757	0.11	51.5702	0.475	0.920	ug/L
|	Se	77	2967.404	0.01	48.6668	0.683	1.403	ug/L
|	Se	82	3497.357	0.01	47.2485	0.880	1.861	ug/L
⌊	Rb	85	16041.686	0.04				mg/L
	Y	89	236210.802	37285.32				ug/L
	Rh	103	44.667	35.33				ug/L
⌈	Mo	98	255.645	0.00	0.1267	0.008	6.503	ug/L
|	Ag	107	173203.488	0.64	52.0107	0.246	0.474	ug/L
|	Cd	114	45309.250	0.17	52.7897	0.777	1.472	ug/L
|>	In	115	272719.276	272719.28				ug/L
|	Sn	118	2160.367	0.00	0.1881	0.018	9.835	ug/L
⌊	Sb	123	146241.617	0.54	51.3210	0.546	1.064	ug/L
⌈	Ba	135	95660.665	0.29	71.6521	1.154	1.610	ug/L
|	Ce	140	118732.812	0.36				ug/L
⌊>	Tb	159	330913.702	330913.70				ug/L
⌈	Ho	165	1480.258	0.00				ug/L
|	Tl	203	289169.311	0.78	51.9551	0.728	1.402	ug/L
|	Tl	205	707812.464	1.91	51.9103	0.868	1.672	ug/L
|	Pb	206	513990.510	1.38	112.3435	2.109	1.877	ug/L
|	Pb	207	435833.188	1.17	105.1880	1.522	1.447	ug/L
|	Pb	208	2041365.435	5.50	108.4529	1.627	1.500	ug/L
|	U	238	1505816.646	4.07	52.0612	0.818	1.572	ug/L
⌊>	Bi	209	369981.847	369981.85				ug/L

Approved: November 24, 2010

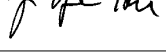
Na	23	446961.596	1.40	0.0764	0.003	3.418	mg/L	
Mg	24	11656801.613	37.39	3.8252	0.123	3.226	mg/L	
K	39	2863881.859	7.58	0.2670	0.005	1.983	mg/L	
Ca	43	206347.760	0.66	9.7850	0.069	0.707	mg/L	
Fe	54	2385352.360	7.48	4.3951	0.064	1.460	mg/L	
Fe	57	1212378.915	3.86	4.7998	0.163	3.395	mg/L	
> Sc-1	45	311735.122	311735.12				mg/L	
Cl	35	44948.132	13547.58				mg/L	
Kr	83	34.667	-1.33				mg/L	
Br	81	6776.963	398.26				mg/L	
P	31	82957.611	73441.72				mg/L	
S	34	224526.443	39649.50				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		110.059			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		108.822			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		105.947			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.622			
Na	23					

Sample ID: L1011044910PS WG349367-01
Report Date/Time: Wednesday, November 24, 2010 00:08:25
Page 2

Approved: November 24, 2010



Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Cu 65 Upper, S, EEE	Cu	65	
Zn 66 Upper, S, EEE	Zn	66	
Pb 206 Upper, S, EEE	Pb	206	
Pb 208 Upper, S, EEE	Pb	208	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044910SDL WG349367-02

Sample Date/Time: Wednesday, November 24, 2010 00:13:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 70
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24697.145	-0.00				ug/L
|	Be	9	22.000	0.00	0.0718	0.018	24.467	ug/L
|	Al	27	2158386.868	6.90	334.0523	7.101	2.126	ug/L
⌊>	Sc	45	311975.362	311975.36				ug/L
⌈	Ti	49	2173.787	0.01	3.1457	0.186	5.908	ug/L
|	V	51	12994.023	0.03	0.9203	0.030	3.268	ug/L
|	Cr	52	18707.341	0.02	0.9728	0.049	4.992	ug/L
|	Cr	53	1360.229	0.00	1.0263	0.152	14.805	ug/L
|	Mn	55	236885.745	0.64	16.5464	0.352	2.130	ug/L
|	Co	59	4383.004	0.01	0.3692	0.002	0.534	ug/L
|	Ni	60	2379.640	0.01	0.9995	0.003	0.334	ug/L
|	Cu	65	43495.154	0.12	20.0726	0.005	0.026	ug/L
|	Zn	66	30362.664	0.08	23.7206	0.169	0.711	ug/L
|>	Ge	72	368976.903	368976.90				ug/L
|	As	75	51.094	0.00	0.2142	0.073	34.219	ug/L
|	Se	77	53.339	-0.00	-0.0297	0.191	642.890	ug/L
|	Se	82	8.058	0.00	0.0039	0.112	2878.176	ug/L
⌊	Rb	85	3434.624	0.01				mg/L
	Y	89	222714.824	23789.34				ug/L
	Rh	103	10.667	1.33				ug/L
⌈	Mo	98	55.530	0.00	0.0033	0.001	26.123	ug/L
|	Ag	107	210.671	0.00	0.0381	0.006	16.609	ug/L
|	Cd	114	82.009	0.00	0.1044	0.012	11.401	ug/L
|>	In	115	273480.918	273480.92				ug/L
|	Sn	118	1242.211	-0.00	-0.1195	0.008	7.042	ug/L
⌊	Sb	123	296.669	0.00	0.1005	0.013	12.754	ug/L
⌈	Ba	135	6096.586	0.02	4.5578	0.064	1.406	ug/L
|	Ce	140	24352.059	0.07				ug/L
⌊>	Tb	159	329909.570	329909.57				ug/L
⌈	Ho	165	323.371	0.00				ug/L
|	Tl	203	138.336	0.00	0.0220	0.001	4.843	ug/L
|	Tl	205	326.705	0.00	-0.0113	0.001	11.361	ug/L
|	Pb	206	60155.339	0.16	12.8697	0.228	1.774	ug/L
|	Pb	207	48624.429	0.13	11.4777	0.146	1.273	ug/L
|	Pb	208	231877.357	0.61	12.0457	0.139	1.157	ug/L
|	U	238	970.723	0.00	0.0206	0.000	2.280	ug/L
⌊>	Bi	209	367854.447	367854.45				ug/L

Approved: November 24, 2010

Na	23	119289.160	0.34	0.0103	0.000	2.776	mg/L
Mg	24	2451846.963	7.86	0.7914	0.009	1.118	mg/L
K	39	1127444.264	2.01	0.0607	0.002	3.970	mg/L
Ca	43	44121.543	0.14	2.0783	0.047	2.257	mg/L
Fe	54	663968.348	1.95	1.1401	0.049	4.281	mg/L
Fe	57	257793.030	0.80	0.9913	0.010	1.049	mg/L
> Sc-1	45	311975.362	311975.36				mg/L
Cl	35	38266.419	6865.86				mg/L
Kr	83	31.667	-4.33				mg/L
Br	81	6503.447	124.74				mg/L
P	31	25514.518	15998.63				mg/L
S	34	190074.476	5197.53				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		111.420			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		109.126			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		105.625			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.026			
Na	23					

Sample ID: L1011044910SDL WG349367-02
Report Date/Time: Wednesday, November 24, 2010 00:15:14
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011044910SDL WG349367-02
Report Date/Time: Wednesday, November 24, 2010 00:15:14
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 00:19:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24831.027	0.00				ug/L
|	Be	9	15732.372	0.05	52.1911	2.742	5.255	ug/L
|	Al	27	314521.449	1.02	49.8196	0.353	0.708	ug/L
⌊>	Sc	45	300826.270	300826.27				ug/L
⌈	Ti	49	62484.179	0.17	94.2167	1.125	1.194	ug/L
|	V	51	484761.896	1.35	46.3641	0.601	1.296	ug/L
|	Cr	52	405555.057	1.11	46.1734	0.290	0.629	ug/L
|	Cr	53	47577.728	0.13	46.7754	1.548	3.310	ug/L
|	Mn	55	635805.992	1.78	45.9828	0.764	1.661	ug/L
|	Co	59	498395.385	1.40	45.9860	0.417	0.906	ug/L
|	Ni	60	103966.357	0.29	46.0960	0.172	0.373	ug/L
|	Cu	65	99976.979	0.28	47.8156	0.406	0.850	ug/L
|	Zn	66	57284.521	0.16	47.6731	0.435	0.913	ug/L
|>	Ge	72	356771.291	356771.29				ug/L
|	As	75	36597.566	0.10	49.5541	0.827	1.670	ug/L
|	Se	77	2907.382	0.01	48.7165	4.253	8.730	ug/L
|	Se	82	3585.673	0.01	49.4888	0.577	1.166	ug/L
⌊	Rb	85	1384.776	0.00				mg/L
	Y	89	214711.862	15786.38				ug/L
	Rh	103	15.667	6.33				ug/L
⌈	Mo	98	159991.545	0.60	101.1267	2.031	2.008	ug/L
|	Ag	107	165092.965	0.62	50.8454	0.409	0.804	ug/L
|	Cd	114	42295.228	0.16	50.5416	0.485	0.960	ug/L
|>	In	115	265908.504	265908.50				ug/L
|	Sn	118	144217.992	0.54	48.8352	0.401	0.820	ug/L
⌊	Sb	123	137089.824	0.52	49.3395	0.765	1.551	ug/L
⌈	Ba	135	64080.999	0.20	49.3376	0.637	1.292	ug/L
|	Ce	140	60.006	0.00				ug/L
⌊>	Tb	159	321834.866	321834.87				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	268817.245	0.76	50.6741	1.270	2.507	ug/L
|	Tl	205	659553.402	1.87	50.7452	0.836	1.648	ug/L
|	Pb	206	216599.608	0.61	49.4507	0.897	1.813	ug/L
|	Pb	207	201031.653	0.57	50.7158	0.648	1.278	ug/L
|	Pb	208	898277.803	2.53	49.8629	0.361	0.723	ug/L
|	U	238	1397277.298	3.96	50.6838	0.603	1.190	ug/L
⌊>	Bi	209	352606.316	352606.32				ug/L

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 00:21:59
Page 1

Approved: November 24, 2010

Na	23	23362450.516	77.65	4.8727	0.140	2.863	mg/L
Mg	24	14436015.676	48.00	4.9148	0.078	1.595	mg/L
K	39	40559867.959	133.24	4.9193	0.077	1.562	mg/L
Ca	43	100782.288	0.33	4.9445	0.098	1.987	mg/L
Fe	54	2597989.386	8.46	4.9775	0.186	3.729	mg/L
Fe	57	1259858.946	4.16	5.1712	0.090	1.743	mg/L
Sc-1	45	300826.270	300826.27				mg/L
Cl	35	34231.835	2831.28				mg/L
Kr	83	40.667	4.67				mg/L
Br	81	6239.283	-139.42				mg/L
P	31	8788.533	-727.36				mg/L
S	34	187172.650	2295.70				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	92.728				
Cr	52	92.347				
Cr	53					
Mn	55	91.966				
Co	59	91.972				
Ni	60	92.192				
Cu	65	95.631				
Zn	66	95.346				
Ge	72		107.735			
As	75	99.108				
Se	77					
Se	82	98.978				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.691				
Cd	114	101.083				
In	115		106.104			
Sn	118					
Sb	123	98.679				
Ba	135	98.675				
Ce	140					
Tb	159		103.040			
Ho	165					
Tl	203	101.348				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.726				
U	238	101.368				
Bi	209		98.755			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 00:21:59

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 00:21:59
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 00:26:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24830.834	0.00				ug/L
|	Be	9	6.000	-0.00	0.0216	0.018	82.674	ug/L
|	Al	27	5968.454	-0.00	0.2179	0.098	44.759	ug/L
⌊>	Sc	45	291299.857	291299.86				ug/L
⌈	Ti	49	50.005	-0.00	0.0519	0.029	56.782	ug/L
|	V	51	2883.503	-0.00	-0.0079	0.007	82.805	ug/L
|	Cr	52	8991.798	-0.00	-0.0752	0.015	19.923	ug/L
|	Cr	53	210.023	-0.00	-0.0638	0.051	79.397	ug/L
|	Mn	55	310.675	0.00	-0.0062	0.001	22.116	ug/L
|	Co	59	185.337	-0.00	-0.0047	0.002	32.091	ug/L
|	Ni	60	24.000	0.00	-0.0103	0.002	23.108	ug/L
|	Cu	65	97.001	-0.00	-0.0249	0.005	21.922	ug/L
|	Zn	66	1118.407	-0.00	-0.4877	0.045	9.322	ug/L
| >	Ge	72	352315.630	352315.63				ug/L
|	As	75	-96.961	0.00	0.0149	0.027	180.196	ug/L
|	Se	77	46.671	-0.00	-0.1025	0.109	106.100	ug/L
|	Se	82	8.733	0.00	0.0185	0.084	455.726	ug/L
⌊	Rb	85	20.667	0.00				mg/L
	Y	89	218847.097	19921.61				ug/L
	Rh	103	6.000	-3.33				ug/L
⌈	Mo	98	135.386	0.00	0.0555	0.023	40.809	ug/L
|	Ag	107	20.334	-0.00	-0.0187	0.001	6.745	ug/L
|	Cd	114	6.739	-0.00	0.0173	0.012	67.119	ug/L
| >	In	115	263776.117	263776.12				ug/L
|	Sn	118	1164.335	-0.00	-0.1312	0.030	22.790	ug/L
⌊	Sb	123	225.914	0.00	0.0786	0.008	10.715	ug/L
⌈	Ba	135	12.667	0.00	-0.0140	0.003	21.734	ug/L
|	Ce	140	33.337	0.00				ug/L
⌊>	Tb	159	324160.519	324160.52				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	26.000	0.00	0.0019	0.001	70.598	ug/L
|	Tl	205	70.007	0.00	-0.0301	0.003	8.904	ug/L
|	Pb	206	557.688	-0.00	-0.2741	0.007	2.416	ug/L
|	Pb	207	488.684	-0.00	-0.2419	0.010	4.134	ug/L
|	Pb	208	2254.123	-0.01	-0.2636	0.003	1.130	ug/L
|	U	238	54.334	0.00	-0.0112	0.001	5.145	ug/L
⌊>	Bi	209	356696.368	356696.37				ug/L

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 00:28:42
Page 1

Approved: November 24, 2010

⌈	Na	23	10106.114	-0.00	-0.0116	0.000	0.356	mg/L
|	Mg	24	420.051	0.00	-0.0157	0.000	0.031	mg/L
|	K	39	481287.695	0.04	-0.0120	0.001	7.029	mg/L
|	Ca	43	166.685	-0.00	-0.0072	0.002	31.148	mg/L
|	Fe	54	50295.362	-0.00	-0.0125	0.001	7.160	mg/L
|	Fe	57	7219.999	-0.00	-0.0050	0.001	27.461	mg/L
⌊>	Sc-1	45	291299.857	291299.86				mg/L
	Cl	35	32724.143	1323.59				mg/L
	Kr	83	30.667	-5.33				mg/L
	Br	81	6496.110	117.41				mg/L
	P	31	9716.826	200.94				mg/L
	S	34	191974.884	7097.94				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.389			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.253			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.784			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.901			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 00:28:42
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 00:28:42

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044911

Sample Date/Time: Wednesday, November 24, 2010 00:33:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 71
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24012.129	-0.00				ug/L
|	Be	9	25.333	0.00	0.0860	0.010	11.733	ug/L
|	Al	27	4799378.801	16.01	774.9828	90.325	11.655	ug/L
⌊>	Sc	45	299023.638	299023.64				ug/L
⌈	Ti	49	4604.860	0.01	6.8246	0.706	10.343	ug/L
|	V	51	22442.441	0.05	1.8408	0.248	13.493	ug/L
|	Cr	52	44436.977	0.10	3.9740	0.552	13.892	ug/L
|	Cr	53	4301.361	0.01	3.9195	0.436	11.128	ug/L
|	Mn	55	598243.921	1.65	42.6605	5.054	11.847	ug/L
|	Co	59	11220.133	0.03	0.9994	0.132	13.248	ug/L
|	Ni	60	5475.234	0.02	2.3737	0.293	12.330	ug/L
|	Cu	65	17135.680	0.05	8.0220	1.123	14.002	ug/L
|	Zn	66	196654.201	0.54	164.8590	18.427	11.177	ug/L
|>	Ge	72	361964.601	361964.60				ug/L
|	As	75	470.397	0.00	0.7735	0.041	5.360	ug/L
|	Se	77	53.339	-0.00	-0.0131	0.092	698.646	ug/L
|	Se	82	7.664	0.00	-0.0001	0.096	83821.281	ug/L
⌊	Rb	85	8200.126	0.02				mg/L
	Y	89	238074.716	39149.23				ug/L
	Rh	103	16.334	7.00				ug/L
⌈	Mo	98	231.831	0.00	0.1143	0.013	11.247	ug/L
|	Ag	107	140.002	0.00	0.0177	0.008	43.225	ug/L
|	Cd	114	1381.210	0.01	1.6425	0.214	13.057	ug/L
|>	In	115	268549.425	268549.43				ug/L
|	Sn	118	1484.644	-0.00	-0.0299	0.034	114.796	ug/L
⌊	Sb	123	98.283	0.00	0.0317	0.006	19.398	ug/L
⌈	Ba	135	15226.523	0.05	11.5289	1.424	12.350	ug/L
|	Ce	140	75307.382	0.23				ug/L
⌊>	Tb	159	326729.336	326729.34				ug/L
⌈	Ho	165	1066.831	0.00				ug/L
|	Tl	203	171.337	0.00	0.0288	0.004	13.018	ug/L
|	Tl	205	400.048	0.00	-0.0051	0.003	53.523	ug/L
|	Pb	206	88624.187	0.24	19.6413	2.335	11.886	ug/L
|	Pb	207	73367.552	0.20	17.9541	2.300	12.812	ug/L
|	Pb	208	346521.610	0.95	18.6605	2.262	12.120	ug/L
|	U	238	2565.692	0.01	0.0784	0.012	15.179	ug/L
⌊>	Bi	209	358901.196	358901.20				ug/L

Sample ID: L1011044911
Report Date/Time: Wednesday, November 24, 2010 00:35:27
Page 1

Approved: November 24, 2010

⌈	Na	23	324698.423	1.05	0.0545	0.004	6.497	mg/L
|	Mg	24	9239914.526	30.87	3.1551	0.265	8.408	mg/L
|	K	39	1665913.701	3.96	0.1330	0.013	9.698	mg/L
|	Ca	43	169610.713	0.57	8.3721	0.889	10.624	mg/L
|	Fe	54	1415148.067	4.55	2.6714	0.247	9.252	mg/L
|	Fe	57	576084.213	1.90	2.3563	0.251	10.665	mg/L
⌊>	Sc-1	45	299023.638	299023.64				mg/L
	Cl	35	55000.176	23599.62				mg/L
	Kr	83	38.667	2.67				mg/L
	Br	81	7488.136	1109.43				mg/L
	P	31	69201.321	59685.43				mg/L
	S	34	222873.993	37997.05				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		109.303			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.158			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.607			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.518			
⌈	Na	23					

Sample ID: L1011044911
Report Date/Time: Wednesday, November 24, 2010 00:35:27
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044912

Sample Date/Time: Wednesday, November 24, 2010 00:40:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 72
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25048.153	-0.00				ug/L
|	Be	9	58.000	0.00	0.1850	0.028	15.367	ug/L
|	Al	27	13861589.605	43.98	2128.5067	26.414	1.241	ug/L
⌊>	Sc	45	315071.710	315071.71				ug/L
⌈	Ti	49	7590.316	0.02	11.3125	0.903	7.979	ug/L
|	V	51	46553.174	0.12	4.1471	0.064	1.550	ug/L
|	Cr	52	120953.587	0.31	12.8339	0.356	2.771	ug/L
|	Cr	53	13370.276	0.04	12.8175	0.493	3.850	ug/L
|	Mn	55	990230.170	2.75	70.9224	1.523	2.147	ug/L
|	Co	59	23639.161	0.07	2.1387	0.064	2.990	ug/L
|	Ni	60	13255.248	0.04	5.8009	0.135	2.323	ug/L
|	Cu	65	27127.358	0.07	12.7937	0.224	1.754	ug/L
|	Zn	66	308341.929	0.85	260.3941	4.163	1.599	ug/L
|>	Ge	72	360320.658	360320.66				ug/L
|	As	75	1122.270	0.00	1.6479	0.118	7.153	ug/L
|	Se	77	56.673	-0.00	0.0469	0.348	741.445	ug/L
|	Se	82	35.009	0.00	0.3756	0.079	20.912	ug/L
⌊	Rb	85	25481.016	0.07				mg/L
	Y	89	245597.527	46672.04				ug/L
	Rh	103	17.000	7.67				ug/L
⌈	Mo	98	227.274	0.00	0.1123	0.007	6.060	ug/L
|	Ag	107	305.341	0.00	0.0688	0.007	10.655	ug/L
|	Cd	114	3663.581	0.01	4.3714	0.184	4.201	ug/L
|>	In	115	266819.685	266819.68				ug/L
|	Sn	118	1156.067	-0.00	-0.1386	0.014	9.824	ug/L
⌊	Sb	123	68.868	-0.00	0.0214	0.004	18.834	ug/L
⌈	Ba	135	35374.823	0.11	27.0983	0.529	1.954	ug/L
|	Ce	140	129057.234	0.40				ug/L
⌊>	Tb	159	323356.742	323356.74				ug/L
⌈	Ho	165	1706.983	0.00				ug/L
|	Tl	203	402.012	0.00	0.0718	0.004	5.182	ug/L
|	Tl	205	1093.502	0.00	0.0477	0.003	5.378	ug/L
|	Pb	206	123102.681	0.34	27.5569	0.174	0.632	ug/L
|	Pb	207	105021.519	0.29	25.9680	0.583	2.243	ug/L
|	Pb	208	490403.681	1.35	26.6840	0.198	0.740	ug/L
|	U	238	4208.928	0.01	0.1376	0.004	2.562	ug/L
⌊>	Bi	209	357305.624	357305.62				ug/L

Sample ID: L1011044912
Report Date/Time: Wednesday, November 24, 2010 00:42:13
Page 1

Approved: November 24, 2010

Na	23	527810.071	1.64	0.0916	0.002	2.317	mg/L
Mg	24	10749617.382	34.13	3.4896	0.070	2.001	mg/L
K	39	3777264.080	10.38	0.3707	0.003	0.809	mg/L
Ca	43	220331.592	0.70	10.3368	0.265	2.562	mg/L
Fe	54	2450606.173	7.60	4.4678	0.085	1.892	mg/L
Fe	57	1234481.564	3.89	4.8356	0.101	2.096	mg/L
> Sc-1	45	315071.710	315071.71				mg/L
Cl	35	50220.498	18819.94				mg/L
Kr	83	37.334	1.33				mg/L
Br	81	7233.283	854.58				mg/L
P	31	82809.466	73293.58				mg/L
S	34	213475.388	28598.44				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		108.806			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		106.468			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		103.527			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		100.071			
Na	23					

Sample ID: L1011044912
Report Date/Time: Wednesday, November 24, 2010 00:42:13
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044913

Sample Date/Time: Wednesday, November 24, 2010 00:46:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 73
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23193.813	-0.01				ug/L
|	Be	9	74.667	0.00	0.2354	0.050	21.063	ug/L
|	Al	27	18144754.413	57.22	2769.1374	281.090	10.151	ug/L
⌊>	Sc	45	316005.596	316005.60				ug/L
⌈	Ti	49	13317.079	0.04	19.8975	3.941	19.805	ug/L
|	V	51	67574.487	0.18	6.1603	0.782	12.688	ug/L
|	Cr	52	59027.485	0.14	5.6918	0.979	17.195	ug/L
|	Cr	53	6426.087	0.02	6.0296	1.211	20.076	ug/L
|	Mn	55	2094125.946	5.82	150.2650	23.459	15.612	ug/L
|	Co	59	34091.484	0.09	3.0991	0.464	14.980	ug/L
|	Ni	60	18725.954	0.05	8.2166	1.245	15.154	ug/L
|	Cu	65	13260.694	0.04	6.2271	0.885	14.208	ug/L
|	Zn	66	29887.635	0.08	23.9612	3.096	12.923	ug/L
|>	Ge	72	359899.283	359899.28				ug/L
|	As	75	1025.338	0.00	1.5202	0.173	11.376	ug/L
|	Se	77	70.007	0.00	0.2750	0.340	123.811	ug/L
|	Se	82	1.620	-0.00	-0.0818	0.027	33.025	ug/L
⌊	Rb	85	30981.567	0.09				mg/L
	Y	89	252268.631	53343.15				ug/L
	Rh	103	15.667	6.33				ug/L
⌈	Mo	98	129.828	0.00	0.0507	0.013	24.988	ug/L
|	Ag	107	108.668	0.00	0.0082	0.005	57.862	ug/L
|	Cd	114	107.765	0.00	0.1369	0.018	13.320	ug/L
|>	In	115	267607.045	267607.04				ug/L
|	Sn	118	801.365	-0.00	-0.2603	0.013	4.905	ug/L
⌊	Sb	123	51.078	-0.00	0.0149	0.004	25.490	ug/L
⌈	Ba	135	43504.629	0.14	33.5483	5.086	15.159	ug/L
|	Ce	140	179480.558	0.56				ug/L
⌊>	Tb	159	321256.214	321256.21				ug/L
⌈	Ho	165	2437.211	0.01				ug/L
|	Tl	203	241.005	0.00	0.0427	0.004	10.407	ug/L
|	Tl	205	653.420	0.00	0.0151	0.009	61.181	ug/L
|	Pb	206	17063.205	0.04	3.5441	0.511	14.431	ug/L
|	Pb	207	14234.051	0.04	3.2689	0.493	15.074	ug/L
|	Pb	208	67785.207	0.17	3.4214	0.516	15.084	ug/L
|	U	238	5173.074	0.01	0.1754	0.027	15.623	ug/L
⌊>	Bi	209	351039.441	351039.44				ug/L

Sample ID: L1011044913
Report Date/Time: Wednesday, November 24, 2010 00:48:58
Page 1

Approved: November 24, 2010

⌈	Na	23	566845.089	1.75	0.0988	0.009	9.311	mg/L
|	Mg	24	23970729.306	75.62	7.7524	0.832	10.730	mg/L
|	K	39	6393494.275	18.59	0.6748	0.038	5.601	mg/L
|	Ca	43	520012.212	1.64	24.2815	2.341	9.639	mg/L
|	Fe	54	3816987.784	11.87	6.9831	0.673	9.632	mg/L
|	Fe	57	1809066.793	5.70	7.0820	0.460	6.492	mg/L
⌊>	Sc-1	45	316005.596	316005.60				mg/L
	Cl	35	44247.018	12846.46				mg/L
	Kr	83	43.667	7.67				mg/L
	Br	81	6514.121	135.42				mg/L
	P	31	89908.163	80392.27				mg/L
	S	34	214954.762	30077.81				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		108.679			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.782			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.855			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.316			
⌈	Na	23					

Sample ID: L1011044913
Report Date/Time: Wednesday, November 24, 2010 00:48:58
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044914

Sample Date/Time: Wednesday, November 24, 2010 00:53:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 74
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25332.250	-0.00				ug/L
|	Be	9	27.333	0.00	0.0903	0.024	26.500	ug/L
|	Al	27	6169809.740	20.08	971.9407	94.135	9.685	ug/L
|>	Sc	45	307354.680	307354.68				ug/L
⌈	Ti	49	7703.754	0.02	11.1954	1.140	10.179	ug/L
|	V	51	26310.123	0.06	2.1562	0.177	8.219	ug/L
|	Cr	52	40587.494	0.08	3.4344	0.326	9.498	ug/L
|	Cr	53	3771.094	0.01	3.3280	0.430	12.920	ug/L
|	Mn	55	436139.430	1.18	30.4496	2.555	8.391	ug/L
|	Co	59	11469.046	0.03	1.0004	0.086	8.580	ug/L
|	Ni	60	5939.829	0.02	2.5233	0.210	8.341	ug/L
|	Cu	65	13565.008	0.04	6.2017	0.332	5.359	ug/L
|	Zn	66	65067.680	0.17	52.4316	4.249	8.104	ug/L
|>	Ge	72	369626.344	369626.34				ug/L
|	As	75	322.546	0.00	0.5679	0.019	3.281	ug/L
|	Se	77	70.007	0.00	0.2467	0.879	356.124	ug/L
|	Se	82	13.977	0.00	0.0822	0.039	46.844	ug/L
⌊	Rb	85	11168.355	0.03				mg/L
	Y	89	235128.819	36203.34				ug/L
	Rh	103	14.000	4.67				ug/L
⌈	Mo	98	151.382	0.00	0.0625	0.008	12.190	ug/L
|	Ag	107	187.337	0.00	0.0313	0.010	32.417	ug/L
|	Cd	114	454.599	0.00	0.5389	0.052	9.677	ug/L
|>	In	115	272695.488	272695.49				ug/L
|	Sn	118	1082.192	-0.00	-0.1717	0.004	2.385	ug/L
⌊	Sb	123	50.868	-0.00	0.0145	0.003	21.340	ug/L
⌈	Ba	135	18587.158	0.06	14.1136	0.842	5.968	ug/L
|	Ce	140	80246.438	0.25				ug/L
|>	Tb	159	325886.109	325886.11				ug/L
⌈	Ho	165	1236.867	0.00				ug/L
|	Tl	203	158.670	0.00	0.0262	0.004	14.967	ug/L
|	Tl	205	426.719	0.00	-0.0035	0.011	304.916	ug/L
|	Pb	206	40664.968	0.11	8.7164	0.812	9.313	ug/L
|	Pb	207	33533.349	0.09	7.9358	0.679	8.555	ug/L
|	Pb	208	158825.975	0.42	8.2672	0.656	7.937	ug/L
|	U	238	2829.431	0.01	0.0869	0.010	10.999	ug/L
|>	Bi	209	362047.438	362047.44				ug/L

Sample ID: L1011044914
Report Date/Time: Wednesday, November 24, 2010 00:55:44
Page 1

Approved: November 24, 2010

⌈	Na	23	295512.803	0.92	0.0467	0.005	10.777	mg/L
|	Mg	24	5852223.496	19.06	1.9419	0.182	9.364	mg/L
|	K	39	1888968.699	4.54	0.1546	0.013	8.389	mg/L
|	Ca	43	114164.616	0.37	5.4889	0.440	8.017	mg/L
|	Fe	54	1540452.265	4.84	2.8435	0.266	9.341	mg/L
|	Fe	57	620042.557	1.99	2.4757	0.270	10.890	mg/L
⌊>	Sc-1	45	307354.680	307354.68				mg/L
	Cl	35	48917.355	17516.80				mg/L
	Kr	83	41.000	5.00				mg/L
	Br	81	7670.279	1291.58				mg/L
	P	31	57631.402	48115.51				mg/L
	S	34	217514.826	32637.88				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		111.616			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.812			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.337			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.399			
⌈	Na	23					

Sample ID: L1011044914
Report Date/Time: Wednesday, November 24, 2010 00:55:44
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011044914
Report Date/Time: Wednesday, November 24, 2010 00:55:44
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044915

Sample Date/Time: Wednesday, November 24, 2010 01:00:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 75
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26501.739	0.00				ug/L
|	Be	9	25.333	0.00	0.0840	0.005	5.586	ug/L
|	Al	27	6087282.480	19.90	963.2975	72.947	7.573	ug/L
⌊>	Sc	45	305668.422	305668.42				ug/L
⌈	Ti	49	5118.510	0.01	7.4544	1.230	16.504	ug/L
|	V	51	23884.030	0.06	1.9371	0.207	10.665	ug/L
|	Cr	52	32861.088	0.06	2.5750	0.290	11.279	ug/L
|	Cr	53	3047.439	0.01	2.6445	0.330	12.496	ug/L
|	Mn	55	289079.586	0.78	20.2313	1.885	9.315	ug/L
|	Co	59	11102.629	0.03	0.9706	0.083	8.524	ug/L
|	Ni	60	5711.360	0.02	2.4324	0.195	7.998	ug/L
|	Cu	65	10624.758	0.03	4.8563	0.295	6.078	ug/L
|	Zn	66	42101.902	0.11	33.5124	2.992	8.929	ug/L
|>	Ge	72	368507.546	368507.55				ug/L
|	As	75	205.100	0.00	0.4157	0.031	7.357	ug/L
|	Se	77	53.339	-0.00	-0.0275	0.259	942.750	ug/L
|	Se	82	13.325	0.00	0.0751	0.180	240.177	ug/L
⌊	Rb	85	10914.414	0.03				mg/L
	Y	89	235272.351	36346.87				ug/L
	Rh	103	7.000	-2.33				ug/L
⌈	Mo	98	131.609	0.00	0.0501	0.002	3.577	ug/L
|	Ag	107	102.668	0.00	0.0058	0.004	74.014	ug/L
|	Cd	114	224.820	0.00	0.2708	0.045	16.625	ug/L
|>	In	115	273322.716	273322.72				ug/L
|	Sn	118	1263.680	-0.00	-0.1120	0.015	13.668	ug/L
⌊	Sb	123	55.201	-0.00	0.0160	0.002	13.769	ug/L
⌈	Ba	135	13279.652	0.04	10.0337	0.871	8.684	ug/L
|	Ce	140	81244.739	0.25				ug/L
⌊>	Tb	159	327395.754	327395.75				ug/L
⌈	Ho	165	1120.175	0.00				ug/L
|	Tl	203	150.003	0.00	0.0247	0.002	6.782	ug/L
|	Tl	205	313.370	0.00	-0.0118	0.004	33.469	ug/L
|	Pb	206	53518.982	0.14	11.6638	1.263	10.832	ug/L
|	Pb	207	43221.375	0.12	10.3919	0.923	8.882	ug/L
|	Pb	208	207285.028	0.56	10.9698	1.057	9.632	ug/L
|	U	238	2119.913	0.01	0.0622	0.006	9.451	ug/L
⌊>	Bi	209	360087.515	360087.52				ug/L

Sample ID: L1011044915
Report Date/Time: Wednesday, November 24, 2010 01:02:31
Page 1

Approved: November 24, 2010

⌈	Na	23	245764.048	0.77	0.0368	0.005	12.644	mg/L
|	Mg	24	4526332.280	14.82	1.5062	0.178	11.835	mg/L
|	K	39	1829001.071	4.38	0.1484	0.013	8.905	mg/L
|	Ca	43	61277.775	0.20	2.9540	0.309	10.454	mg/L
|	Fe	54	1344798.006	4.23	2.4792	0.190	7.663	mg/L
|	Fe	57	546805.178	1.76	2.1889	0.223	10.188	mg/L
⌊>	Sc-1	45	305668.422	305668.42				mg/L
	Cl	35	55659.901	24259.34				mg/L
	Kr	83	39.334	3.33				mg/L
	Br	81	7732.990	1354.29				mg/L
	P	31	58530.193	49014.30				mg/L
	S	34	214358.089	29481.14				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		111.279			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.063			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.820			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.850			
⌈	Na	23					

Sample ID: L1011044915
Report Date/Time: Wednesday, November 24, 2010 01:02:31
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011044915
Report Date/Time: Wednesday, November 24, 2010 01:02:31
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044916

Sample Date/Time: Wednesday, November 24, 2010 01:07:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 76
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24028.895	-0.00				ug/L
|	Be	9	24.667	0.00	0.0821	0.019	23.374	ug/L
|	Al	27	4740652.881	15.57	753.4595	47.136	6.256	ug/L
⌊>	Sc	45	303968.192	303968.19				ug/L
⌈	Ti	49	7787.151	0.02	11.4019	0.864	7.580	ug/L
|	V	51	25532.608	0.06	2.1013	0.125	5.926	ug/L
|	Cr	52	23248.262	0.04	1.5006	0.142	9.440	ug/L
|	Cr	53	1823.682	0.00	1.4802	0.083	5.608	ug/L
|	Mn	55	513312.613	1.40	36.1082	2.463	6.821	ug/L
|	Co	59	11665.257	0.03	1.0254	0.051	4.941	ug/L
|	Ni	60	5177.726	0.01	2.2127	0.077	3.485	ug/L
|	Cu	65	7731.738	0.02	3.5306	0.239	6.777	ug/L
|	Zn	66	18039.460	0.04	13.5914	0.846	6.224	ug/L
|>	Ge	72	366898.859	366898.86				ug/L
|	As	75	407.255	0.00	0.6823	0.057	8.407	ug/L
|	Se	77	46.671	-0.00	-0.1350	0.101	74.686	ug/L
|	Se	82	25.719	0.00	0.2418	0.048	19.800	ug/L
⌊	Rb	85	9478.257	0.03				mg/L
	Y	89	233815.061	34889.58				ug/L
	Rh	103	8.667	-0.67				ug/L
⌈	Mo	98	224.717	0.00	0.1094	0.010	8.960	ug/L
|	Ag	107	58.001	0.00	-0.0074	0.001	13.491	ug/L
|	Cd	114	48.167	0.00	0.0660	0.010	15.479	ug/L
|>	In	115	269251.432	269251.43				ug/L
|	Sn	118	825.901	-0.00	-0.2538	0.009	3.585	ug/L
⌊	Sb	123	42.369	-0.00	0.0117	0.003	25.578	ug/L
⌈	Ba	135	24353.903	0.08	18.6374	0.940	5.042	ug/L
|	Ce	140	68716.021	0.21				ug/L
⌊>	Tb	159	323593.661	323593.66				ug/L
⌈	Ho	165	886.795	0.00				ug/L
|	Tl	203	137.336	0.00	0.0225	0.003	13.924	ug/L
|	Tl	205	283.366	0.00	-0.0139	0.005	34.817	ug/L
|	Pb	206	40501.793	0.11	8.7641	0.568	6.480	ug/L
|	Pb	207	35514.436	0.09	8.5076	0.491	5.775	ug/L
|	Pb	208	163734.171	0.44	8.6176	0.552	6.403	ug/L
|	U	238	2561.354	0.01	0.0782	0.004	4.786	ug/L
⌊>	Bi	209	358626.997	358627.00				ug/L

Sample ID: L1011044916
Report Date/Time: Wednesday, November 24, 2010 01:09:17
Page 1

Approved: November 24, 2010

⌈	Na	23	295484.113	0.93	0.0473	0.002	4.011	mg/L
|	Mg	24	8234962.236	27.08	2.7657	0.110	3.967	mg/L
|	K	39	1826357.461	4.41	0.1495	0.020	13.502	mg/L
|	Ca	43	141786.280	0.47	6.8855	0.431	6.265	mg/L
|	Fe	54	1424424.218	4.51	2.6454	0.133	5.014	mg/L
|	Fe	57	586406.061	1.90	2.3617	0.048	2.052	mg/L
⌊>	Sc-1	45	303968.192	303968.19				mg/L
	Cl	35	51505.646	20105.09				mg/L
	Kr	83	32.334	-3.67				mg/L
	Br	81	7243.289	864.59				mg/L
	P	31	49578.876	40062.99				mg/L
	S	34	216263.629	31386.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		110.793			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.438			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.603			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.441			
⌈	Na	23					

Sample ID: L1011044916
Report Date/Time: Wednesday, November 24, 2010 01:09:17
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011044916
Report Date/Time: Wednesday, November 24, 2010 01:09:17
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044917

Sample Date/Time: Wednesday, November 24, 2010 01:13:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 77
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24546.831	-0.00				ug/L
|	Be	9	21.333	0.00	0.0706	0.014	19.923	ug/L
|	Al	27	3722099.042	12.13	587.4203	66.418	11.307	ug/L
⌊>	Sc	45	306407.723	306407.72				ug/L
⌈	Ti	49	5665.512	0.02	8.2370	0.732	8.885	ug/L
|	V	51	22027.694	0.05	1.7604	0.159	9.029	ug/L
|	Cr	52	20424.731	0.03	1.1657	0.102	8.780	ug/L
|	Cr	53	1373.567	0.00	1.0397	0.237	22.841	ug/L
|	Mn	55	499444.919	1.35	34.9120	3.247	9.300	ug/L
|	Co	59	11015.876	0.03	0.9610	0.094	9.827	ug/L
|	Ni	60	4620.119	0.01	1.9602	0.188	9.584	ug/L
|	Cu	65	6672.301	0.02	3.0177	0.258	8.564	ug/L
|	Zn	66	23518.600	0.06	18.0410	1.339	7.423	ug/L
|>	Ge	72	369131.861	369131.86				ug/L
|	As	75	293.138	0.00	0.5301	0.110	20.804	ug/L
|	Se	77	70.007	0.00	0.2448	0.006	2.475	ug/L
|	Se	82	8.699	0.00	0.0126	0.130	1034.476	ug/L
⌊	Rb	85	6026.548	0.02				mg/L
	Y	89	235145.821	36220.34				ug/L
	Rh	103	12.333	3.00				ug/L
⌈	Mo	98	178.980	0.00	0.0794	0.007	8.939	ug/L
|	Ag	107	156.669	0.00	0.0221	0.005	23.277	ug/L
|	Cd	114	43.628	0.00	0.0601	0.024	40.175	ug/L
|>	In	115	272750.440	272750.44				ug/L
|	Sn	118	893.640	-0.00	-0.2347	0.011	4.529	ug/L
⌊	Sb	123	36.203	-0.00	0.0094	0.002	23.509	ug/L
⌈	Ba	135	7585.303	0.02	5.7851	0.602	10.410	ug/L
|	Ce	140	61387.631	0.19				ug/L
⌊>	Tb	159	323892.485	323892.48				ug/L
⌈	Ho	165	756.772	0.00				ug/L
|	Tl	203	109.002	0.00	0.0172	0.002	10.333	ug/L
|	Tl	205	260.030	0.00	-0.0157	0.008	48.011	ug/L
|	Pb	206	129705.498	0.36	28.9644	2.718	9.384	ug/L
|	Pb	207	96570.279	0.27	23.7726	2.077	8.739	ug/L
|	Pb	208	482795.168	1.33	26.1819	2.528	9.655	ug/L
|	U	238	2202.932	0.01	0.0655	0.007	10.008	ug/L
⌊>	Bi	209	358719.240	358719.24				ug/L

Sample ID: L1011044917
Report Date/Time: Wednesday, November 24, 2010 01:16:04
Page 1

Approved: November 24, 2010

⌈	Na	23	215646.422	0.67	0.0305	0.003	9.758	mg/L
|	Mg	24	5749714.390	18.77	1.9125	0.163	8.509	mg/L
|	K	39	1298800.211	2.63	0.0838	0.005	6.107	mg/L
|	Ca	43	109284.934	0.36	5.2684	0.540	10.255	mg/L
|	Fe	54	1321240.308	4.14	2.4280	0.182	7.492	mg/L
|	Fe	57	551109.917	1.77	2.2014	0.252	11.451	mg/L
⌊>	Sc-1	45	306407.723	306407.72				mg/L
	Cl	35	46343.143	14942.59				mg/L
	Kr	83	34.667	-1.33				mg/L
	Br	81	6632.867	254.16				mg/L
	P	31	48419.339	38903.45				mg/L
	S	34	220403.335	35526.39				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		111.467			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.834			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.699			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.467			
⌈	Na	23					

Sample ID: L1011044917
Report Date/Time: Wednesday, November 24, 2010 01:16:04
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011044917
Report Date/Time: Wednesday, November 24, 2010 01:16:04
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044918

Sample Date/Time: Wednesday, November 24, 2010 01:20:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 78
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24713.946	-0.00				ug/L
|	Be	9	43.333	0.00	0.1453	0.016	10.671	ug/L
|	Al	27	8440146.630	28.22	1365.9457	364.162	26.660	ug/L
⌊>	Sc	45	299437.933	299437.93				ug/L
⌈	Ti	49	7503.648	0.02	10.9929	2.416	21.979	ug/L
|	V	51	103018.093	0.27	9.3610	1.961	20.947	ug/L
|	Cr	52	39155.177	0.08	3.3080	0.830	25.083	ug/L
|	Cr	53	3717.768	0.01	3.3064	1.070	32.376	ug/L
|	Mn	55	841738.612	2.30	59.2699	13.799	23.282	ug/L
|	Co	59	16701.249	0.04	1.4789	0.354	23.939	ug/L
|	Ni	60	9337.592	0.03	4.0110	0.922	22.994	ug/L
|	Cu	65	16202.380	0.04	7.4831	1.752	23.417	ug/L
|	Zn	66	397619.832	1.08	330.5017	72.564	21.956	ug/L
|>	Ge	72	366996.996	366997.00				ug/L
|	As	75	1029.000	0.00	1.4993	0.217	14.477	ug/L
|	Se	77	43.338	-0.00	-0.1916	0.088	46.167	ug/L
|	Se	82	16.331	0.00	0.1163	0.150	129.191	ug/L
⌊	Rb	85	16446.241	0.04				mg/L
	Y	89	235375.530	36450.05				ug/L
	Rh	103	12.000	2.67				ug/L
⌈	Mo	98	622.304	0.00	0.3568	0.066	18.508	ug/L
|	Ag	107	158.670	0.00	0.0232	0.007	31.454	ug/L
|	Cd	114	175.290	0.00	0.2157	0.063	29.304	ug/L
|>	In	115	270145.358	270145.36				ug/L
|	Sn	118	1582.126	0.00	0.0004	0.058	15213.096	ug/L
⌊	Sb	123	36.702	-0.00	0.0097	0.002	21.674	ug/L
⌈	Ba	135	18879.180	0.06	14.5723	3.013	20.676	ug/L
|	Ce	140	84657.580	0.26				ug/L
⌊>	Tb	159	320527.740	320527.74				ug/L
⌈	Ho	165	1266.878	0.00				ug/L
|	Tl	203	234.005	0.00	0.0399	0.003	8.414	ug/L
|	Tl	205	540.069	0.00	0.0050	0.009	187.860	ug/L
|	Pb	206	39226.236	0.10	8.3731	1.835	21.915	ug/L
|	Pb	207	32912.002	0.09	7.7636	1.782	22.958	ug/L
|	Pb	208	154823.863	0.41	8.0296	1.740	21.672	ug/L
|	U	238	3516.006	0.01	0.1109	0.028	25.021	ug/L
⌊>	Bi	209	363203.752	363203.75				ug/L

Sample ID: L1011044918
Report Date/Time: Wednesday, November 24, 2010 01:22:52
Page 1

Approved: November 24, 2010

Na	23	341624.173	1.10	0.0581	0.013	23.179	mg/L
Mg	24	6793321.155	22.74	2.3205	0.567	24.425	mg/L
K	39	2190045.584	5.71	0.1980	0.037	18.827	mg/L
Ca	43	128935.662	0.43	6.3691	1.406	22.077	mg/L
Fe	54	3643401.550	12.02	7.0707	1.702	24.075	mg/L
Fe	57	1737291.413	5.78	7.1784	1.076	14.983	mg/L
> Sc-1	45	299437.933	299437.93				mg/L
Cl	35	47546.784	16146.23				mg/L
Kr	83	38.667	2.67				mg/L
Br	81	6866.357	487.65				mg/L
P	31	76082.995	66567.11				mg/L
S	34	232154.915	47277.97				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		110.822			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		107.795			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		102.621			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		101.723			
Na	23					

Sample ID: L1011044918
Report Date/Time: Wednesday, November 24, 2010 01:22:52
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044919

Sample Date/Time: Wednesday, November 24, 2010 01:27:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 79
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25833.487	0.00				ug/L
|	Be	9	36.000	0.00	0.1169	0.012	10.591	ug/L
|	Al	27	7211208.081	23.15	1120.4621	113.081	10.092	ug/L
⌊>	Sc	45	310961.543	310961.54				ug/L
⌈	Ti	49	9535.517	0.03	13.7661	1.278	9.287	ug/L
|	V	51	34487.773	0.08	2.8940	0.323	11.148	ug/L
|	Cr	52	35702.858	0.07	2.8561	0.333	11.657	ug/L
|	Cr	53	3207.502	0.01	2.7666	0.162	5.871	ug/L
|	Mn	55	1058038.488	2.84	73.4077	8.785	11.967	ug/L
|	Co	59	17959.419	0.05	1.5681	0.192	12.238	ug/L
|	Ni	60	9444.594	0.03	3.9974	0.523	13.086	ug/L
|	Cu	65	11018.211	0.03	4.9893	0.524	10.505	ug/L
|	Zn	66	130581.353	0.35	105.9542	11.832	11.167	ug/L
|>	Ge	72	372333.567	372333.57				ug/L
|	As	75	934.612	0.00	1.3575	0.142	10.438	ug/L
|	Se	77	50.005	-0.00	-0.0919	0.567	617.059	ug/L
|	Se	82	18.325	0.00	0.1395	0.207	148.146	ug/L
⌊	Rb	85	12978.904	0.03				mg/L
	Y	89	244528.070	45602.59				ug/L
	Rh	103	13.000	3.67				ug/L
⌈	Mo	98	205.867	0.00	0.0952	0.018	18.701	ug/L
|	Ag	107	137.002	0.00	0.0158	0.003	19.822	ug/L
|	Cd	114	330.678	0.00	0.3914	0.027	6.854	ug/L
|>	In	115	274927.561	274927.56				ug/L
|	Sn	118	902.574	-0.00	-0.2341	0.005	1.931	ug/L
⌊	Sb	123	39.909	-0.00	0.0105	0.002	15.881	ug/L
⌈	Ba	135	17974.080	0.05	13.5480	1.263	9.323	ug/L
|	Ce	140	107815.640	0.33				ug/L
⌊>	Tb	159	328303.010	328303.01				ug/L
⌈	Ho	165	1556.947	0.00				ug/L
|	Tl	203	205.004	0.00	0.0349	0.004	11.068	ug/L
|	Tl	205	420.051	0.00	-0.0037	0.006	157.902	ug/L
|	Pb	206	30985.954	0.08	6.5885	0.792	12.026	ug/L
|	Pb	207	25828.088	0.07	6.0671	0.613	10.104	ug/L
|	Pb	208	121853.398	0.32	6.2926	0.715	11.363	ug/L
|	U	238	3969.832	0.01	0.1280	0.014	10.584	ug/L
⌊>	Bi	209	359886.945	359886.94				ug/L

Sample ID: L1011044919
Report Date/Time: Wednesday, November 24, 2010 01:29:40
Page 1

Approved: November 24, 2010

⌈	Na	23	311610.955	0.96	0.0492	0.003	6.694	mg/L
|	Mg	24	15310760.046	49.20	5.0382	0.463	9.197	mg/L
|	K	39	2112769.356	5.18	0.1783	0.012	6.669	mg/L
|	Ca	43	261995.792	0.84	12.4499	1.100	8.831	mg/L
|	Fe	54	1883671.921	5.88	3.4527	0.306	8.871	mg/L
|	Fe	57	943962.686	3.01	3.7340	0.456	12.215	mg/L
⌊>	Sc-1	45	310961.543	310961.54				mg/L
	Cl	35	47177.022	15776.47				mg/L
	Kr	83	39.334	3.33				mg/L
	Br	81	7006.456	627.75				mg/L
	P	31	68381.315	58865.43				mg/L
	S	34	231672.557	46795.61				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		112.434			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.703			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.111			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.794			
⌈	Na	23					

Sample ID: L1011044919
Report Date/Time: Wednesday, November 24, 2010 01:29:40
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044920

Sample Date/Time: Wednesday, November 24, 2010 01:34:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 80
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25616.115	0.00				ug/L
|	Be	9	35.333	0.00	0.1176	0.034	29.181	ug/L
|	Al	27	6240974.551	20.48	991.3024	101.958	10.285	ug/L
⌊>	Sc	45	305312.943	305312.94				ug/L
⌈	Ti	49	5105.152	0.01	7.3689	0.584	7.921	ug/L
|	V	51	56776.713	0.14	4.9590	0.357	7.193	ug/L
|	Cr	52	30365.729	0.06	2.2646	0.148	6.545	ug/L
|	Cr	53	2787.336	0.01	2.3733	0.264	11.138	ug/L
|	Mn	55	717203.178	1.93	49.8154	3.416	6.857	ug/L
|	Co	59	14658.615	0.04	1.2776	0.126	9.873	ug/L
|	Ni	60	8032.984	0.02	3.4013	0.261	7.677	ug/L
|	Cu	65	12115.480	0.03	5.5012	0.388	7.049	ug/L
|	Zn	66	165775.476	0.44	135.0938	9.177	6.793	ug/L
|>	Ge	72	371485.909	371485.91				ug/L
|	As	75	807.482	0.00	1.1942	0.136	11.424	ug/L
|	Se	77	90.009	0.00	0.5642	0.430	76.182	ug/L
|	Se	82	14.018	0.00	0.0818	0.059	72.202	ug/L
⌊	Rb	85	10607.076	0.03				mg/L
	Y	89	237135.570	38210.09				ug/L
	Rh	103	8.000	-1.33				ug/L
⌈	Mo	98	338.434	0.00	0.1754	0.016	9.193	ug/L
|	Ag	107	161.336	0.00	0.0229	0.010	41.978	ug/L
|	Cd	114	131.504	0.00	0.1606	0.019	11.954	ug/L
|>	In	115	275867.694	275867.69				ug/L
|	Sn	118	839.235	-0.00	-0.2561	0.004	1.745	ug/L
⌊	Sb	123	55.159	-0.00	0.0158	0.004	23.909	ug/L
⌈	Ba	135	15317.277	0.05	11.6228	1.170	10.067	ug/L
|	Ce	140	80542.112	0.25				ug/L
⌊>	Tb	159	326199.316	326199.32				ug/L
⌈	Ho	165	1170.186	0.00				ug/L
|	Tl	203	180.003	0.00	0.0296	0.005	16.326	ug/L
|	Tl	205	400.048	0.00	-0.0059	0.007	120.464	ug/L
|	Pb	206	37559.053	0.10	7.8909	0.694	8.800	ug/L
|	Pb	207	31708.725	0.08	7.3641	0.672	9.130	ug/L
|	Pb	208	148286.818	0.38	7.5692	0.676	8.936	ug/L
|	U	238	3130.523	0.01	0.0958	0.008	8.449	ug/L
⌊>	Bi	209	367696.570	367696.57				ug/L

Approved: November 24, 2010

⌈	Na	23	310319.189	0.98	0.0503	0.006	11.878	mg/L
|	Mg	24	6904265.906	22.66	2.3123	0.197	8.529	mg/L
|	K	39	1769627.844	4.20	0.1418	0.013	9.040	mg/L
|	Ca	43	132574.399	0.43	6.4288	0.583	9.073	mg/L
|	Fe	54	2565114.845	8.25	4.8527	0.592	12.201	mg/L
|	Fe	57	1240568.577	4.05	5.0349	0.719	14.278	mg/L
⌊>	Sc-1	45	305312.943	305312.94				mg/L
	Cl	35	47116.746	15716.19				mg/L
	Kr	83	36.334	0.33				mg/L
	Br	81	8227.383	1848.68				mg/L
	P	31	82718.651	73202.76				mg/L
	S	34	226703.036	41826.09				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		112.178			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.078			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.437			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.982			
⌈	Na	23					

Sample ID: L1011044920
Report Date/Time: Wednesday, November 24, 2010 01:36:28
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 01:41:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23394.042	-0.00				ug/L
|	Be	9	15282.347	0.05	51.6400	2.739	5.304	ug/L
|	Al	27	322743.019	1.07	52.1320	1.266	2.428	ug/L
⌊>	Sc	45	295334.248	295334.25				ug/L
⌈	Ti	49	62645.270	0.18	96.0143	1.733	1.805	ug/L
|	V	51	482919.067	1.37	46.9572	0.440	0.936	ug/L
|	Cr	52	403934.861	1.12	46.7679	0.780	1.667	ug/L
|	Cr	53	47711.643	0.14	47.6884	0.426	0.894	ug/L
|	Mn	55	643700.087	1.83	47.3266	0.752	1.589	ug/L
|	Co	59	499231.270	1.42	46.8279	0.532	1.137	ug/L
|	Ni	60	105465.623	0.30	47.5376	0.471	0.990	ug/L
|	Cu	65	99446.039	0.28	48.3505	0.078	0.161	ug/L
|	Zn	66	57314.686	0.16	48.5149	0.402	0.829	ug/L
| >	Ge	72	350958.030	350958.03				ug/L
|	As	75	36460.268	0.10	50.1828	0.060	0.119	ug/L
|	Se	77	2894.042	0.01	49.2900	2.624	5.323	ug/L
|	Se	82	3482.999	0.01	48.8701	1.370	2.802	ug/L
⌊	Rb	85	1410.447	0.00				mg/L
	Y	89	211024.382	12098.90				ug/L
	Rh	103	19.334	10.00				ug/L
⌈	Mo	98	159219.288	0.60	101.2770	1.212	1.197	ug/L
|	Ag	107	163786.041	0.62	50.7654	0.389	0.767	ug/L
|	Cd	114	42391.332	0.16	50.9783	0.450	0.884	ug/L
| >	In	115	264220.232	264220.23				ug/L
|	Sn	118	145708.683	0.55	49.6643	0.331	0.667	ug/L
⌊	Sb	123	137522.495	0.52	49.8127	0.506	1.015	ug/L
⌈	Ba	135	63764.669	0.20	49.1333	1.474	3.000	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	321659.986	321659.99				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	268690.403	0.77	50.9387	0.445	0.874	ug/L
|	Tl	205	657492.746	1.88	50.8722	1.362	2.678	ug/L
|	Pb	206	216626.739	0.61	49.7383	0.703	1.413	ug/L
|	Pb	207	197350.371	0.56	50.0691	0.193	0.386	ug/L
|	Pb	208	894534.604	2.53	49.9403	0.412	0.825	ug/L
|	U	238	1396462.316	3.98	50.9437	0.277	0.544	ug/L
⌊>	Bi	209	350572.355	350572.35				ug/L

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 01:43:13
Page 1

Approved: November 24, 2010

⌈	Na	23	23974447.816	81.23	5.0981	0.283	5.550	mg/L
|	Mg	24	14755844.087	50.01	5.1208	0.214	4.189	mg/L
|	K	39	40329489.500	135.04	4.9859	0.149	2.998	mg/L
|	Ca	43	100101.864	0.34	5.0078	0.235	4.688	mg/L
|	Fe	54	2585826.923	8.59	5.0483	0.195	3.859	mg/L
|	Fe	57	1311486.758	4.42	5.4881	0.192	3.494	mg/L
⌊>	Sc-1	45	295334.248	295334.25				mg/L
	Cl	35	34921.543	3520.99				mg/L
	Kr	83	37.000	1.00				mg/L
	Br	81	6419.393	40.69				mg/L
	P	31	10349.393	833.50				mg/L
	S	34	192794.546	7917.60				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	93.914				
|	Cr	52	93.536				
|	Cr	53					
|	Mn	55	94.653				
|	Co	59	93.656				
|	Ni	60	95.075				
|	Cu	65	96.701				
|	Zn	66	97.030				
|>	Ge	72		105.979			
|	As	75	100.366				
|	Se	77					
|	Se	82	97.740				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	101.531				
|	Cd	114	101.957				
|>	In	115		105.430			
|	Sn	118					
⌊	Sb	123	99.625				
⌈	Ba	135	98.267				
|	Ce	140					
⌊>	Tb	159		102.984			
⌈	Ho	165					
|	Tl	203	101.877				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.881				
|	U	238	101.887				
⌊>	Bi	209		98.186			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 01:43:13

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 01:43:13
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 01:47:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24229.321	-0.00				ug/L
|	Be	9	11.333	0.00	0.0379	0.010	25.747	ug/L
|	Al	27	6168.572	-0.00	0.1920	0.055	28.864	ug/L
⌊>	Sc	45	308743.708	308743.71				ug/L
⌈	Ti	49	46.671	-0.00	0.0475	0.017	36.432	ug/L
|	V	51	2912.636	-0.00	-0.0029	0.002	67.772	ug/L
|	Cr	52	9090.554	-0.00	-0.0556	0.009	15.766	ug/L
|	Cr	53	166.685	-0.00	-0.1053	0.092	87.282	ug/L
|	Mn	55	297.341	-0.00	-0.0070	0.001	7.814	ug/L
|	Co	59	173.337	-0.00	-0.0057	0.001	24.690	ug/L
|	Ni	60	21.334	0.00	-0.0114	0.002	13.167	ug/L
|	Cu	65	81.001	-0.00	-0.0324	0.006	19.973	ug/L
|	Zn	66	1061.400	-0.00	-0.5308	0.003	0.521	ug/L
|>	Ge	72	349728.644	349728.64				ug/L
|	As	75	-120.625	0.00	-0.0188	0.041	216.966	ug/L
|	Se	77	36.670	-0.00	-0.2714	0.267	98.490	ug/L
|	Se	82	8.360	0.00	0.0133	0.137	1029.265	ug/L
⌊	Rb	85	19.000	0.00				mg/L
	Y	89	217085.849	18160.37				ug/L
	Rh	103	9.333	-0.00				ug/L
⌈	Mo	98	150.423	0.00	0.0647	0.013	20.440	ug/L
|	Ag	107	16.667	-0.00	-0.0198	0.001	5.135	ug/L
|	Cd	114	7.587	-0.00	0.0182	0.004	23.378	ug/L
|>	In	115	264396.054	264396.05				ug/L
|	Sn	118	995.116	-0.00	-0.1904	0.008	4.328	ug/L
⌊	Sb	123	202.081	0.00	0.0698	0.005	6.512	ug/L
⌈	Ba	135	13.000	0.00	-0.0137	0.002	17.173	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	321881.750	321881.75				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	18.334	-0.00	0.0004	0.001	190.761	ug/L
|	Tl	205	36.670	-0.00	-0.0327	0.001	2.536	ug/L
|	Pb	206	532.353	-0.00	-0.2819	0.004	1.305	ug/L
|	Pb	207	469.682	-0.00	-0.2485	0.007	2.946	ug/L
|	Pb	208	2094.106	-0.01	-0.2744	0.003	1.158	ug/L
|	U	238	33.667	0.00	-0.0119	0.000	2.216	ug/L
⌊>	Bi	209	362654.896	362654.90				ug/L

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 01:49:56
Page 1

Approved: November 24, 2010

⌈	Na	23	9725.703	-0.01	-0.0118	0.000	0.648	mg/L
|	Mg	24	320.037	0.00	-0.0158	0.000	0.116	mg/L
|	K	39	481276.400	-0.05	-0.0154	0.000	3.145	mg/L
|	Ca	43	193.355	0.00	-0.0065	0.002	36.383	mg/L
|	Fe	54	50088.285	-0.01	-0.0187	0.003	16.845	mg/L
|	Fe	57	6776.310	-0.00	-0.0086	0.001	16.254	mg/L
⌊>	Sc-1	45	308743.708	308743.71				mg/L
	Cl	35	32894.689	1494.13				mg/L
	Kr	83	35.334	-0.67				mg/L
	Br	81	6579.497	200.79				mg/L
	P	31	9988.343	472.45				mg/L
	S	34	189340.156	4463.21				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.608			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.501			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.055			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.570			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 01:49:56
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 01:49:56

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044921

Sample Date/Time: Wednesday, November 24, 2010 01:54:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 81
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24914.425	0.00				ug/L
|	Be	9	24.000	0.00	0.0819	0.001	0.964	ug/L
|	Al	27	6639138.681	22.32	1080.1094	90.489	8.378	ug/L
⌊>	Sc	45	297081.893	297081.89				ug/L
⌈	Ti	49	11651.325	0.03	17.6283	1.915	10.863	ug/L
|	V	51	35803.326	0.09	3.1719	0.293	9.248	ug/L
|	Cr	52	67652.036	0.16	6.7896	0.709	10.449	ug/L
|	Cr	53	6599.529	0.02	6.2832	0.940	14.953	ug/L
|	Mn	55	1155245.186	3.25	83.9516	9.041	10.770	ug/L
|	Co	59	13992.640	0.04	1.2755	0.128	9.998	ug/L
|	Ni	60	7528.258	0.02	3.3333	0.350	10.485	ug/L
|	Cu	65	10056.516	0.03	4.7667	0.487	10.210	ug/L
|	Zn	66	139312.643	0.39	118.5615	11.361	9.583	ug/L
|>	Ge	72	355403.519	355403.52				ug/L
|	As	75	675.788	0.00	1.0638	0.099	9.300	ug/L
|	Se	77	50.005	-0.00	-0.0560	0.444	794.055	ug/L
|	Se	82	16.012	0.00	0.1187	0.083	69.824	ug/L
⌊	Rb	85	11773.057	0.03				mg/L
	Y	89	239484.201	40558.72				ug/L
	Rh	103	17.000	7.67				ug/L
⌈	Mo	98	229.347	0.00	0.1157	0.003	2.199	ug/L
|	Ag	107	92.335	0.00	0.0038	0.003	69.160	ug/L
|	Cd	114	962.034	0.00	1.1709	0.146	12.485	ug/L
|>	In	115	263020.693	263020.69				ug/L
|	Sn	118	1537.585	0.00	-0.0009	0.016	1755.266	ug/L
⌊	Sb	123	66.369	-0.00	0.0208	0.004	20.017	ug/L
⌈	Ba	135	25206.115	0.08	19.4206	1.643	8.458	ug/L
|	Ce	140	112673.215	0.35				ug/L
⌊>	Tb	159	321451.461	321451.46				ug/L
⌈	Ho	165	1636.966	0.00				ug/L
|	Tl	203	162.336	0.00	0.0281	0.003	9.892	ug/L
|	Tl	205	423.385	0.00	-0.0024	0.001	26.849	ug/L
|	Pb	206	44067.077	0.12	9.8802	0.833	8.429	ug/L
|	Pb	207	36273.716	0.10	8.9786	0.833	9.276	ug/L
|	Pb	208	172519.578	0.48	9.3953	0.822	8.744	ug/L
|	U	238	4217.936	0.01	0.1420	0.014	9.912	ug/L
⌊>	Bi	209	347815.591	347815.59				ug/L

Sample ID: L1011044921
Report Date/Time: Wednesday, November 24, 2010 01:56:45
Page 1

Approved: November 24, 2010

⌈	Na	23	295679.514	0.96	0.0488	0.005	10.681	mg/L
|	Mg	24	16944071.799	57.01	5.8408	0.421	7.208	mg/L
|	K	39	2292985.599	6.11	0.2125	0.016	7.373	mg/L
|	Ca	43	305238.805	1.03	15.1921	0.926	6.099	mg/L
|	Fe	54	1855192.780	6.07	3.5654	0.116	3.253	mg/L
|	Fe	57	823342.507	2.74	3.4078	0.256	7.512	mg/L
⌊>	Sc-1	45	297081.893	297081.89				mg/L
	Cl	35	49636.888	18236.33				mg/L
	Kr	83	37.000	1.00				mg/L
	Br	81	7032.474	653.77				mg/L
	P	31	75402.341	65886.45				mg/L
	S	34	220141.580	35264.63				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		107.322			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.952			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.917			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.413			
⌈	Na	23					

Sample ID: L1011044921
Report Date/Time: Wednesday, November 24, 2010 01:56:45
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044922

Sample Date/Time: Wednesday, November 24, 2010 02:01:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 82
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26317.988	0.00				ug/L
|	Be	9	34.667	0.00	0.1164	0.021	18.322	ug/L
|	Al	27	6888992.951	22.89	1107.8912	175.018	15.797	ug/L
⌊>	Sc	45	300378.206	300378.21				ug/L
⌈	Ti	49	7847.270	0.02	11.4724	2.182	19.023	ug/L
|	V	51	30938.730	0.08	2.6033	0.393	15.090	ug/L
|	Cr	52	30900.839	0.06	2.3641	0.449	18.999	ug/L
|	Cr	53	2730.652	0.01	2.3490	0.405	17.222	ug/L
|	Mn	55	526612.634	1.43	36.9883	6.187	16.727	ug/L
|	Co	59	14993.280	0.04	1.3224	0.236	17.844	ug/L
|	Ni	60	7026.917	0.02	3.0065	0.498	16.563	ug/L
|	Cu	65	48713.846	0.13	22.5931	3.889	17.212	ug/L
|	Zn	66	182106.247	0.49	150.2586	23.441	15.600	ug/L
|>	Ge	72	367255.515	367255.51				ug/L
|	As	75	582.582	0.00	0.9115	0.156	17.094	ug/L
|	Se	77	73.341	0.00	0.3058	0.094	30.642	ug/L
|	Se	82	15.342	0.00	0.1021	0.021	20.092	ug/L
⌊	Rb	85	12249.374	0.03				mg/L
	Y	89	243593.365	44667.88				ug/L
	Rh	103	18.334	9.00				ug/L
⌈	Mo	98	201.643	0.00	0.0920	0.008	8.968	ug/L
|	Ag	107	176.337	0.00	0.0274	0.007	24.104	ug/L
|	Cd	114	200.551	0.00	0.2401	0.040	16.785	ug/L
|>	In	115	275923.733	275923.73				ug/L
|	Sn	118	947.245	-0.00	-0.2205	0.012	5.562	ug/L
⌊	Sb	123	58.912	-0.00	0.0171	0.003	14.797	ug/L
⌈	Ba	135	18999.896	0.06	14.3528	2.515	17.523	ug/L
|	Ce	140	96678.359	0.30				ug/L
⌊>	Tb	159	327877.576	327877.58				ug/L
⌈	Ho	165	1420.247	0.00				ug/L
|	Tl	203	218.005	0.00	0.0367	0.007	17.758	ug/L
|	Tl	205	420.051	0.00	-0.0042	0.008	179.902	ug/L
|	Pb	206	67133.717	0.18	14.5110	2.128	14.666	ug/L
|	Pb	207	53733.688	0.14	12.8124	2.250	17.562	ug/L
|	Pb	208	258024.710	0.69	13.5426	2.127	15.705	ug/L
|	U	238	3350.936	0.01	0.1042	0.017	16.296	ug/L
⌊>	Bi	209	365225.278	365225.28				ug/L

Approved: November 24, 2010

Na	23	253656.411	0.81	0.0393	0.008	19.293	mg/L	
Mg	24	6872125.030	22.86	2.3321	0.337	14.439	mg/L	
K	39	1790556.198	4.35	0.1475	0.006	4.213	mg/L	
Ca	43	127620.859	0.42	6.2682	1.021	16.296	mg/L	
Fe	54	1785357.605	5.76	3.3860	0.395	11.656	mg/L	
Fe	57	782636.583	2.58	3.1995	0.501	15.668	mg/L	
> Sc-1	45	300378.206	300378.21				mg/L	
Cl	35	49925.021	18524.46				mg/L	
Kr	83	37.334	1.33				mg/L	
Br	81	6852.347	473.64				mg/L	
P	31	74883.906	65368.02				mg/L	
S	34	222490.192	37613.24				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		110.901			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		110.100			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		104.975			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		102.289			
Na	23					

Sample ID: L1011044922
Report Date/Time: Wednesday, November 24, 2010 02:03:34
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044923

Sample Date/Time: Wednesday, November 24, 2010 02:08:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 83
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25348.757	0.00				ug/L
|	Be	9	23.333	0.00	0.0789	0.008	9.854	ug/L
|	Al	27	4228266.239	14.09	681.9808	210.905	30.925	ug/L
⌊>	Sc	45	300120.779	300120.78				ug/L
⌈	Ti	49	5458.779	0.01	8.0134	2.328	29.054	ug/L
|	V	51	21297.037	0.05	1.7120	0.545	31.856	ug/L
|	Cr	52	20177.708	0.03	1.1593	0.468	40.327	ug/L
|	Cr	53	1593.631	0.00	1.2657	0.566	44.725	ug/L
|	Mn	55	332500.209	0.91	23.4697	7.607	32.413	ug/L
|	Co	59	8563.607	0.02	0.7499	0.223	29.706	ug/L
|	Ni	60	4380.396	0.01	1.8763	0.597	31.819	ug/L
|	Cu	65	4517.790	0.01	2.0411	0.636	31.151	ug/L
|	Zn	66	17304.817	0.04	13.0294	3.948	30.301	ug/L
| >	Ge	72	366202.485	366202.49				ug/L
|	As	75	187.956	0.00	0.3954	0.101	25.586	ug/L
|	Se	77	60.006	-0.00	0.0888	0.580	652.731	ug/L
|	Se	82	2.267	0.00	-0.0734	0.193	262.833	ug/L
⌊	Rb	85	10697.311	0.03				mg/L
	Y	89	230642.628	31717.14				ug/L
	Rh	103	8.000	-1.33				ug/L
⌈	Mo	98	173.460	0.00	0.0778	0.030	39.004	ug/L
|	Ag	107	49.001	0.00	-0.0101	0.003	29.522	ug/L
|	Cd	114	25.837	0.00	0.0397	0.008	21.406	ug/L
| >	In	115	268602.719	268602.72				ug/L
|	Sn	118	941.778	-0.00	-0.2137	0.035	16.350	ug/L
⌊	Sb	123	42.199	-0.00	0.0117	0.002	13.386	ug/L
⌈	Ba	135	10095.499	0.03	7.7691	2.379	30.617	ug/L
|	Ce	140	55408.691	0.17				ug/L
⌊>	Tb	159	321443.345	321443.35				ug/L
⌈	Ho	165	636.752	0.00				ug/L
|	Tl	203	142.336	0.00	0.0235	0.002	7.848	ug/L
|	Tl	205	280.032	0.00	-0.0141	0.008	58.874	ug/L
|	Pb	206	8532.219	0.02	1.5385	0.527	34.279	ug/L
|	Pb	207	6824.152	0.01	1.3479	0.433	32.150	ug/L
|	Pb	208	32767.964	0.07	1.4222	0.472	33.221	ug/L
|	U	238	2189.276	0.01	0.0654	0.025	37.752	ug/L
⌊>	Bi	209	357767.324	357767.32				ug/L

Sample ID: L1011044923
Report Date/Time: Wednesday, November 24, 2010 02:10:19
Page 1

Approved: November 24, 2010

Na	23	366565.512	1.18	0.0631	0.019	29.431	mg/L	
Mg	24	3183612.486	10.62	1.0751	0.322	29.975	mg/L	
K	39	1906565.971	4.74	0.1621	0.021	13.000	mg/L	
Ca	43	68588.926	0.23	3.3724	1.044	30.963	mg/L	
Fe	54	1124233.002	3.57	2.0957	0.690	32.926	mg/L	
Fe	57	462330.142	1.52	1.8817	0.648	34.445	mg/L	
> Sc-1	45	300120.779	300120.78				mg/L	
Cl	35	45236.821	13836.26				mg/L	
Kr	83	46.001	10.00				mg/L	
Br	81	6788.971	410.27				mg/L	
P	31	42627.638	33111.75				mg/L	
S	34	205707.000	20830.05				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		110.583			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		107.179			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		102.915			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		100.201			
Na	23					

Sample ID: L1011044923
Report Date/Time: Wednesday, November 24, 2010 02:10:19
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011044923
Report Date/Time: Wednesday, November 24, 2010 02:10:19
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044924

Sample Date/Time: Wednesday, November 24, 2010 02:14:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 84
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24446.667	-0.00				ug/L
|	Be	9	22.667	0.00	0.0733	0.026	35.891	ug/L
|	Al	27	6361057.695	20.23	979.3240	144.897	14.796	ug/L
⌊>	Sc	45	313866.419	313866.42				ug/L
⌈	Ti	49	8274.300	0.02	12.1259	1.850	15.256	ug/L
|	V	51	49516.750	0.13	4.3504	0.580	13.331	ug/L
|	Cr	52	27618.700	0.05	1.9992	0.370	18.499	ug/L
|	Cr	53	2307.164	0.01	1.9471	0.136	7.002	ug/L
|	Mn	55	882535.763	2.41	62.1493	9.251	14.885	ug/L
|	Co	59	17178.474	0.05	1.5219	0.239	15.696	ug/L
|	Ni	60	9284.132	0.03	3.9884	0.616	15.450	ug/L
|	Cu	65	13960.690	0.04	6.4387	0.996	15.468	ug/L
|	Zn	66	128441.288	0.35	105.7938	15.429	14.584	ug/L
|>	Ge	72	366539.657	366539.66				ug/L
|	As	75	791.915	0.00	1.1883	0.166	13.965	ug/L
|	Se	77	50.005	-0.00	-0.0805	0.496	615.551	ug/L
|	Se	82	12.690	0.00	0.0667	0.001	1.050	ug/L
⌊	Rb	85	11534.474	0.03				mg/L
	Y	89	240348.309	41422.83				ug/L
	Rh	103	9.667	0.33				ug/L
⌈	Mo	98	323.022	0.00	0.1673	0.023	13.909	ug/L
|	Ag	107	92.668	0.00	0.0027	0.003	99.873	ug/L
|	Cd	114	49.876	0.00	0.0669	0.004	5.884	ug/L
|>	In	115	273911.686	273911.69				ug/L
|	Sn	118	2572.067	0.00	0.3214	0.091	28.409	ug/L
⌊	Sb	123	37.784	-0.00	0.0099	0.001	9.184	ug/L
⌈	Ba	135	11127.063	0.03	8.4913	1.375	16.189	ug/L
|	Ce	140	132597.157	0.41				ug/L
⌊>	Tb	159	324218.448	324218.45				ug/L
⌈	Ho	165	1280.210	0.00				ug/L
|	Tl	203	179.670	0.00	0.0305	0.003	8.900	ug/L
|	Tl	205	393.381	0.00	-0.0055	0.005	97.222	ug/L
|	Pb	206	17674.977	0.04	3.6215	0.520	14.371	ug/L
|	Pb	207	14774.878	0.04	3.3477	0.520	15.542	ug/L
|	Pb	208	69312.825	0.17	3.4463	0.497	14.420	ug/L
|	U	238	3109.521	0.01	0.0984	0.015	15.293	ug/L
⌊>	Bi	209	356318.727	356318.73				ug/L

Sample ID: L1011044924
Report Date/Time: Wednesday, November 24, 2010 02:17:05
Page 1

Approved: November 24, 2010

⌈	Na	23	549468.735	1.71	0.0963	0.011	11.514	mg/L
|	Mg	24	14438770.609	45.97	4.7062	0.756	16.063	mg/L
|	K	39	2064212.745	4.97	0.1703	0.021	12.330	mg/L
|	Ca	43	256686.223	0.82	12.0850	1.945	16.095	mg/L
|	Fe	54	2023760.411	6.27	3.6825	0.607	16.495	mg/L
|	Fe	57	1008092.474	3.18	3.9541	0.569	14.387	mg/L
⌊>	Sc-1	45	313866.419	313866.42				mg/L
	Cl	35	45763.827	14363.27				mg/L
	Kr	83	35.667	-0.33				mg/L
	Br	81	6645.541	266.84				mg/L
	P	31	63956.403	54440.51				mg/L
	S	34	212334.143	27457.19				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		110.684			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.298			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.803			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.795			
⌈	Na	23					

Sample ID: L1011044924
Report Date/Time: Wednesday, November 24, 2010 02:17:05
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044925

Sample Date/Time: Wednesday, November 24, 2010 02:21:39
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 85
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25215.125	-0.00				ug/L
|	Be	9	32.667	0.00	0.1091	0.056	51.079	ug/L
|	Al	27	4627985.230	15.19	735.5087	202.036	27.469	ug/L
⌊>	Sc	45	305585.329	305585.33				ug/L
⌈	Ti	49	5362.012	0.01	7.9647	1.631	20.481	ug/L
|	V	51	27426.098	0.07	2.3184	0.555	23.918	ug/L
|	Cr	52	23016.824	0.04	1.5148	0.437	28.873	ug/L
|	Cr	53	1800.348	0.00	1.4843	0.404	27.236	ug/L
|	Mn	55	705594.805	1.95	50.4121	11.768	23.343	ug/L
|	Co	59	12838.665	0.03	1.1488	0.277	24.076	ug/L
|	Ni	60	6073.974	0.02	2.6407	0.636	24.100	ug/L
|	Cu	65	8320.658	0.02	3.8652	0.885	22.903	ug/L
|	Zn	66	35778.064	0.09	28.8547	6.889	23.875	ug/L
|>	Ge	72	361238.227	361238.23				ug/L
|	As	75	520.365	0.00	0.8414	0.144	17.088	ug/L
|	Se	77	53.339	-0.00	-0.0106	0.260	2459.120	ug/L
|	Se	82	-3.061	-0.00	-0.1459	0.009	5.906	ug/L
⌊	Rb	85	6804.083	0.02				mg/L
	Y	89	232314.140	33388.66				ug/L
	Rh	103	20.334	11.00				ug/L
⌈	Mo	98	174.090	0.00	0.0771	0.024	31.137	ug/L
|	Ag	107	87.668	0.00	0.0015	0.003	167.180	ug/L
|	Cd	114	58.717	0.00	0.0779	0.029	36.915	ug/L
|>	In	115	270583.223	270583.22				ug/L
|	Sn	118	945.511	-0.00	-0.2150	0.012	5.507	ug/L
⌊	Sb	123	42.996	-0.00	0.0119	0.001	6.843	ug/L
⌈	Ba	135	8021.080	0.03	6.1908	1.539	24.853	ug/L
|	Ce	140	66034.066	0.21				ug/L
⌊>	Tb	159	320718.652	320718.65				ug/L
⌈	Ho	165	843.455	0.00				ug/L
|	Tl	203	123.669	0.00	0.0206	0.003	14.662	ug/L
|	Tl	205	290.033	0.00	-0.0128	0.002	16.240	ug/L
|	Pb	206	26774.714	0.07	5.8285	1.280	21.955	ug/L
|	Pb	207	22645.990	0.06	5.4527	1.287	23.602	ug/L
|	Pb	208	106350.544	0.28	5.6265	1.298	23.072	ug/L
|	U	238	2002.229	0.01	0.0603	0.018	30.641	ug/L
⌊>	Bi	209	348859.282	348859.28				ug/L

Sample ID: L1011044925
Report Date/Time: Wednesday, November 24, 2010 02:23:51
Page 1

Approved: November 24, 2010

⌈	Na	23	174241.589	0.53	0.0222	0.005	24.175	mg/L
|	Mg	24	10823359.870	35.56	3.6369	0.923	25.385	mg/L
|	K	39	1440067.481	3.11	0.1017	0.022	21.601	mg/L
|	Ca	43	314492.699	1.03	15.2728	3.683	24.113	mg/L
|	Fe	54	1677772.442	5.33	3.1332	0.628	20.052	mg/L
|	Fe	57	731268.010	2.38	2.9508	0.819	27.771	mg/L
⌊>	Sc-1	45	305585.329	305585.33				mg/L
	Cl	35	41681.377	10280.82				mg/L
	Kr	83	45.334	9.33				mg/L
	Br	81	6692.240	313.54				mg/L
	P	31	45580.791	36064.90				mg/L
	S	34	215758.701	30881.75				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		109.083			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.969			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.682			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.706			
⌈	Na	23					

Sample ID: L1011044925
Report Date/Time: Wednesday, November 24, 2010 02:23:51
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011044925
Report Date/Time: Wednesday, November 24, 2010 02:23:51
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044926

Sample Date/Time: Wednesday, November 24, 2010 02:28:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 86
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23528.024	-0.01				ug/L
|	Be	9	33.333	0.00	0.1082	0.021	19.588	ug/L
|	Al	27	6373616.191	20.46	990.3840	162.311	16.389	ug/L
⌊>	Sc	45	311563.105	311563.11				ug/L
⌈	Ti	49	4494.804	0.01	6.6081	0.881	13.339	ug/L
|	V	51	28851.464	0.07	2.4266	0.359	14.800	ug/L
|	Cr	52	27922.130	0.05	2.0483	0.317	15.499	ug/L
|	Cr	53	2313.838	0.01	1.9640	0.386	19.655	ug/L
|	Mn	55	996476.387	2.73	70.4992	9.727	13.797	ug/L
|	Co	59	13983.120	0.04	1.2405	0.226	18.234	ug/L
|	Ni	60	7893.901	0.02	3.4031	0.476	13.984	ug/L
|	Cu	65	7400.856	0.02	3.3951	0.541	15.924	ug/L
|	Zn	66	29603.803	0.08	23.3736	2.976	12.732	ug/L
|>	Ge	72	364812.205	364812.21				ug/L
|	As	75	3310.477	0.01	4.5189	0.412	9.111	ug/L
|	Se	77	93.343	0.00	0.6506	0.523	80.332	ug/L
|	Se	82	16.667	0.00	0.1214	0.095	78.000	ug/L
⌊	Rb	85	12683.230	0.03				mg/L
	Y	89	238425.762	39500.28				ug/L
	Rh	103	9.000	-0.33				ug/L
⌈	Mo	98	390.505	0.00	0.2139	0.028	13.103	ug/L
|	Ag	107	83.001	0.00	0.0004	0.004	1147.572	ug/L
|	Cd	114	36.268	0.00	0.0521	0.019	35.604	ug/L
|>	In	115	268036.417	268036.42				ug/L
|	Sn	118	1072.191	-0.00	-0.1689	0.011	6.788	ug/L
⌊	Sb	123	40.786	-0.00	0.0112	0.002	16.653	ug/L
⌈	Ba	135	16511.956	0.05	12.8018	1.852	14.468	ug/L
|	Ce	140	73411.040	0.23				ug/L
⌊>	Tb	159	319407.930	319407.93				ug/L
⌈	Ho	165	1103.507	0.00				ug/L
|	Tl	203	165.003	0.00	0.0279	0.005	18.287	ug/L
|	Tl	205	410.050	0.00	-0.0040	0.007	183.677	ug/L
|	Pb	206	10247.753	0.02	1.9413	0.338	17.436	ug/L
|	Pb	207	8545.444	0.02	1.7918	0.291	16.261	ug/L
|	Pb	208	40314.492	0.09	1.8516	0.312	16.841	ug/L
|	U	238	3538.340	0.01	0.1144	0.022	19.049	ug/L
⌊>	Bi	209	355124.274	355124.27				ug/L

Sample ID: L1011044926
Report Date/Time: Wednesday, November 24, 2010 02:30:37
Page 1

Approved: November 24, 2010

Na	23	551339.904	1.73	0.0976	0.013	13.585	mg/L	
Mg	24	16674814.548	53.58	5.4875	0.778	14.181	mg/L	
K	39	2015423.063	4.86	0.1665	0.022	13.194	mg/L	
Ca	43	281816.561	0.90	13.3874	1.662	12.415	mg/L	
Fe	54	1760139.440	5.48	3.2172	0.276	8.577	mg/L	
Fe	57	814169.038	2.59	3.2174	0.595	18.486	mg/L	
> Sc-1	45	311563.105	311563.11				mg/L	
Cl	35	52759.492	21358.93				mg/L	
Kr	83	38.334	2.33				mg/L	
Br	81	6797.644	418.94				mg/L	
P	31	57179.352	47663.46				mg/L	
S	34	226663.198	41786.25				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		110.163			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		106.953			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		102.263			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		99.460			
Na	23					

Sample ID: L1011044926
Report Date/Time: Wednesday, November 24, 2010 02:30:37
Page 2

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011044926
Report Date/Time: Wednesday, November 24, 2010 02:30:37
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: L1011044927

Sample Date/Time: Wednesday, November 24, 2010 02:35:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 87
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23360.605	-0.01				ug/L
|	Be	9	55.333	0.00	0.1822	0.032	17.688	ug/L
|	Al	27	14343357.438	46.93	2271.0691	399.334	17.584	ug/L
⌊>	Sc	45	305015.828	305015.83				ug/L
⌈	Ti	49	14452.136	0.04	21.9479	4.415	20.118	ug/L
|	V	51	61486.457	0.17	5.6744	0.917	16.167	ug/L
|	Cr	52	50668.763	0.12	4.8195	0.942	19.535	ug/L
|	Cr	53	5071.825	0.01	4.7812	1.017	21.261	ug/L
|	Mn	55	1933201.304	5.46	140.9312	17.438	12.373	ug/L
|	Co	59	29480.413	0.08	2.7208	0.461	16.962	ug/L
|	Ni	60	16027.240	0.05	7.1445	1.283	17.952	ug/L
|	Cu	65	11584.947	0.03	5.5209	0.985	17.839	ug/L
|	Zn	66	26009.928	0.07	21.0244	3.739	17.783	ug/L
|>	Ge	72	354354.208	354354.21				ug/L
|	As	75	774.480	0.00	1.2012	0.177	14.732	ug/L
|	Se	77	80.008	0.00	0.4691	0.765	163.066	ug/L
|	Se	82	6.629	0.00	-0.0113	0.097	854.169	ug/L
⌊	Rb	85	26206.505	0.07				mg/L
	Y	89	246674.837	47749.35				ug/L
	Rh	103	21.334	12.00				ug/L
⌈	Mo	98	173.601	0.00	0.0809	0.015	17.973	ug/L
|	Ag	107	84.668	0.00	0.0016	0.004	248.644	ug/L
|	Cd	114	27.652	0.00	0.0428	0.020	45.955	ug/L
|>	In	115	261160.143	261160.14				ug/L
|	Sn	118	1008.584	-0.00	-0.1815	0.015	8.415	ug/L
⌊	Sb	123	29.366	-0.00	0.0074	0.002	30.095	ug/L
⌈	Ba	135	35381.939	0.11	28.0044	4.496	16.056	ug/L
|	Ce	140	168708.959	0.54				ug/L
⌊>	Tb	159	312868.037	312868.04				ug/L
⌈	Ho	165	2237.142	0.01				ug/L
|	Tl	203	222.005	0.00	0.0405	0.008	19.708	ug/L
|	Tl	205	596.744	0.00	0.0123	0.007	58.591	ug/L
|	Pb	206	13220.011	0.03	2.7603	0.492	17.810	ug/L
|	Pb	207	10950.210	0.03	2.5265	0.469	18.546	ug/L
|	Pb	208	51618.768	0.13	2.6123	0.475	18.199	ug/L
|	U	238	5081.032	0.01	0.1784	0.031	17.571	ug/L
⌊>	Bi	209	339202.734	339202.73				ug/L

Sample ID: L1011044927
Report Date/Time: Wednesday, November 24, 2010 02:37:24
Page 1

Approved: November 24, 2010

⌈	Na	23	715021.564	2.30	0.1335	0.020	14.731	mg/L
|	Mg	24	23671402.717	77.49	7.9436	1.320	16.618	mg/L
|	K	39	5457089.745	16.26	0.5886	0.071	12.031	mg/L
|	Ca	43	497337.259	1.63	24.0912	3.611	14.988	mg/L
|	Fe	54	3264103.049	10.51	6.1816	1.060	17.141	mg/L
|	Fe	57	1655782.547	5.39	6.7017	1.049	15.659	mg/L
⌊>	Sc-1	45	305015.828	305015.83				mg/L
	Cl	35	41092.278	9691.72				mg/L
	Kr	83	42.667	6.67				mg/L
	Br	81	6295.982	-82.72				mg/L
	P	31	83348.056	73832.17				mg/L
	S	34	209371.379	24494.43				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		107.005			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.209			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.169			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.001			
⌈	Na	23					

Sample ID: L1011044927
Report Date/Time: Wednesday, November 24, 2010 02:37:24
Page 2

Approved: November 24, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Wednesday, November 24, 2010 02:41:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26368.070	0.01				ug/L
|	Be	9	9.333	0.00	0.0338	0.008	22.857	ug/L
|	Al	27	22252219.879	77.64	3757.1503	21.867	0.582	ug/L
⌊>	Sc	45	286530.535	286530.54				ug/L
⌈	Ti	49	55592.979	0.16	85.0179	0.631	0.742	ug/L
|	V	51	2568.640	-0.00	-0.0382	0.012	31.290	ug/L
|	Cr	52	9049.851	-0.00	-0.0665	0.028	42.117	ug/L
|	Cr	53	976.812	0.00	0.7053	0.080	11.291	ug/L
|	Mn	55	3248.894	0.01	0.2095	0.004	1.822	ug/L
|	Co	59	1899.533	0.00	0.1558	0.005	3.453	ug/L
|	Ni	60	1275.427	0.00	0.5526	0.016	2.912	ug/L
|	Cu	65	726.700	0.00	0.2811	0.005	1.948	ug/L
|	Zn	66	1728.167	0.00	0.0440	0.046	103.396	ug/L
| >	Ge	72	351767.949	351767.95				ug/L
|	As	75	-123.994	0.00	-0.0223	0.026	117.000	ug/L
|	Se	77	66.674	0.00	0.2423	0.554	228.505	ug/L
|	Se	82	-2.661	-0.00	-0.1409	0.085	60.576	ug/L
⌊	Rb	85	1262.759	0.00				mg/L
	Y	89	203717.628	4792.14				ug/L
	Rh	103	9.667	0.33				ug/L
⌈	Mo	98	149181.009	0.57	95.7703	0.630	0.658	ug/L
|	Ag	107	53.001	0.00	-0.0084	0.003	32.966	ug/L
|	Cd	114	78.882	0.00	0.1048	0.009	9.057	ug/L
| >	In	115	261776.395	261776.40				ug/L
|	Sn	118	880.172	-0.00	-0.2270	0.005	2.165	ug/L
⌊	Sb	123	120.160	0.00	0.0406	0.009	21.386	ug/L
⌈	Ba	135	55.667	0.00	0.0195	0.005	25.572	ug/L
|	Ce	140	226.692	0.00				ug/L
⌊>	Tb	159	318874.414	318874.41				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	44.001	0.00	0.0052	0.001	26.763	ug/L
|	Tl	205	120.013	0.00	-0.0263	0.001	3.018	ug/L
|	Pb	206	649.694	-0.00	-0.2531	0.004	1.774	ug/L
|	Pb	207	536.686	-0.00	-0.2296	0.005	2.263	ug/L
|	Pb	208	2533.152	-0.01	-0.2480	0.001	0.601	ug/L
|	U	238	14.333	-0.00	-0.0126	0.000	1.195	ug/L
⌊>	Bi	209	356221.202	356221.20				ug/L

Approved: November 24, 2010

⌈	Na	23	57984012.080	202.34	12.7163	0.181	1.425	mg/L
|	Mg	24	14136689.087	49.34	5.0528	0.124	2.458	mg/L
|	K	39	38072112.083	131.26	4.8461	0.059	1.215	mg/L
|	Ca	43	278591.922	0.97	14.3797	0.193	1.344	mg/L
|	Fe	54	5905335.866	20.43	12.0301	0.129	1.076	mg/L
|	Fe	57	2495016.742	8.68	10.7876	0.016	0.148	mg/L
⌊>	Sc-1	45	286530.535	286530.54				mg/L
	Cl	35	1893071.464	1861670.91				mg/L
	Kr	83	37.667	1.67				mg/L
	Br	81	6061.174	-317.53				mg/L
	P	31	1692738.710	1683222.82				mg/L
	S	34	346018.901	161141.95				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.224			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.455			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.092			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.768			
⌈	Na	23					

Sample ID: QC Std 4
Report Date/Time: Wednesday, November 24, 2010 02:44:10
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	Pb	208	ICSA IS OUT OF LIMITS (+/-RL)

Sample ID: QC Std 4
Report Date/Time: Wednesday, November 24, 2010 02:44:10
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Wednesday, November 24, 2010 02:48:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	27671.591	0.01				ug/L
|	Be	9	31856.673	0.11	109.0055	5.661	5.194	ug/L
|	Al	27	30672392.520	105.21	5091.3852	200.101	3.930	ug/L
⌊>	Sc	45	291783.482	291783.48				ug/L
⌈	Ti	49	76468.911	0.21	115.3403	2.868	2.486	ug/L
|	V	51	930812.919	2.60	89.3156	2.333	2.612	ug/L
|	Cr	52	787241.207	2.18	90.7200	1.509	1.663	ug/L
|	Cr	53	94655.301	0.26	93.3440	1.398	1.498	ug/L
|	Mn	55	1255734.290	3.52	90.8620	1.473	1.621	ug/L
|	Co	59	960053.837	2.69	88.6144	0.504	0.569	ug/L
|	Ni	60	202783.276	0.57	89.9525	2.043	2.271	ug/L
|	Cu	65	196080.443	0.55	93.8591	0.228	0.243	ug/L
|	Zn	66	113104.161	0.31	95.5685	1.282	1.341	ug/L
| >	Ge	72	356735.914	356735.91				ug/L
|	As	75	73444.476	0.21	99.3159	1.591	1.602	ug/L
|	Se	77	5692.189	0.02	96.2368	1.161	1.207	ug/L
|	Se	82	6589.321	0.02	91.0428	0.497	0.546	ug/L
⌊	Rb	85	1670.490	0.00				mg/L
	Y	89	197997.234	-928.25				ug/L
	Rh	103	37.667	28.33				ug/L
⌈	Mo	98	201085.474	0.78	130.6559	3.100	2.373	ug/L
|	Ag	107	238594.513	0.92	75.5029	6.529	8.648	ug/L
|	Cd	114	84861.387	0.33	104.2372	2.668	2.560	ug/L
| >	In	115	258722.282	258722.28				ug/L
|	Sn	118	1283.016	-0.00	-0.0814	0.022	26.488	ug/L
⌊	Sb	123	275212.086	1.06	101.8276	1.802	1.770	ug/L
⌈	Ba	135	126402.806	0.40	99.4160	0.135	0.136	ug/L
|	Ce	140	243.361	0.00				ug/L
⌊>	Tb	159	315128.818	315128.82				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	544333.740	1.54	102.3321	0.197	0.192	ug/L
|	Tl	205	1341244.435	3.79	102.9493	1.111	1.079	ug/L
|	Pb	206	452009.623	1.27	103.3456	1.045	1.011	ug/L
|	Pb	207	394808.875	1.11	99.6809	0.539	0.541	ug/L
|	Pb	208	1819566.433	5.13	101.1306	1.111	1.099	ug/L
|	U	238	2720919.766	7.70	98.4405	1.234	1.254	ug/L
⌊>	Bi	209	353550.735	353550.73				ug/L

Sample ID: QC Std 5
Report Date/Time: Wednesday, November 24, 2010 02:50:57
Page 1

Approved: November 24, 2010

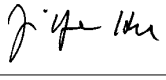
Na	23	77395801.452	265.46	16.6864	0.596	3.572	mg/L
Mg	24	18940949.181	64.97	6.6582	0.249	3.742	mg/L
K	39	50237420.632	170.63	6.3036	0.127	2.017	mg/L
Ca	43	377320.238	1.29	19.1310	0.052	0.274	mg/L
Fe	54	8050801.321	27.45	16.1640	0.758	4.691	mg/L
Fe	57	3396776.466	11.63	14.4576	0.970	6.706	mg/L
Sc-1	45	291783.482	291783.48				mg/L
Cl	35	2089768.883	2058368.33				mg/L
Kr	83	31.000	-5.00				mg/L
Br	81	5847.710	-530.99				mg/L
P	31	1877145.373	1867629.48				mg/L
S	34	397815.582	212938.63				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	89.316				
Cr	52	90.720				
Cr	53					
Mn	55	90.862				
Co	59	88.614				
Ni	60	89.953				
Cu	65	93.859				
Zn	66	95.568				
Ge	72		107.724			
As	75	99.316				
Se	77					
Se	82	91.043				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	75.503				
Cd	114	104.237				
In	115		103.237			
Sn	118					
Sb	123	101.828				
Ba	135	99.416				
Ce	140					
Tb	159		100.893			
Ho	165					
Tl	203	102.332				
Tl	205					
Pb	206					
Pb	207					
Pb	208	101.131				
U	238	98.441				
Bi	209		99.020			
Na	23					

Sample ID: QC Std 5
Report Date/Time: Wednesday, November 24, 2010 02:50:57

Approved: November 24, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Ag	107	ICSAB IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 5
Report Date/Time: Wednesday, November 24, 2010 02:50:57
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 02:55:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24396.446	0.00				ug/L
|	Be	9	16264.556	0.06	54.9793	0.682	1.241	ug/L
|	Al	27	312683.015	1.04	50.5497	2.336	4.621	ug/L
⌊>	Sc	45	294936.899	294936.90				ug/L
⌈	Ti	49	60434.893	0.17	91.3485	3.347	3.664	ug/L
|	V	51	479260.146	1.34	45.9479	0.897	1.953	ug/L
|	Cr	52	406332.987	1.12	46.3791	0.965	2.080	ug/L
|	Cr	53	48050.103	0.13	47.3556	2.175	4.592	ug/L
|	Mn	55	635924.748	1.79	46.1024	0.597	1.294	ug/L
|	Co	59	510928.273	1.44	47.2590	0.794	1.681	ug/L
|	Ni	60	105905.292	0.30	47.0717	0.965	2.050	ug/L
|	Cu	65	101215.393	0.28	48.5253	0.774	1.595	ug/L
|	Zn	66	58698.029	0.16	49.0065	0.573	1.169	ug/L
|>	Ge	72	355939.627	355939.63				ug/L
|	As	75	36781.019	0.10	49.9185	0.291	0.583	ug/L
|	Se	77	2907.382	0.01	48.7949	3.600	7.378	ug/L
|	Se	82	3542.413	0.01	49.0154	1.288	2.628	ug/L
⌊	Rb	85	1405.780	0.00				mg/L
	Y	89	210694.235	11768.75				ug/L
	Rh	103	22.000	12.67				ug/L
⌈	Mo	98	160081.211	0.61	102.6209	3.085	3.006	ug/L
|	Ag	107	165202.769	0.63	51.6035	0.486	0.941	ug/L
|	Cd	114	42500.881	0.16	51.5076	0.529	1.027	ug/L
|>	In	115	262188.584	262188.58				ug/L
|	Sn	118	146417.914	0.55	50.3003	0.375	0.746	ug/L
⌊	Sb	123	140679.048	0.54	51.3517	0.043	0.085	ug/L
⌈	Ba	135	65280.704	0.20	50.5199	0.615	1.216	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	320222.652	320222.65				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	277271.594	0.77	51.3097	0.471	0.917	ug/L
|	Tl	205	675065.130	1.88	50.9893	0.036	0.071	ug/L
|	Pb	206	224034.781	0.62	50.2135	0.788	1.570	ug/L
|	Pb	207	207993.535	0.57	51.5210	0.562	1.091	ug/L
|	Pb	208	926891.954	2.56	50.5156	0.496	0.981	ug/L
|	U	238	1436857.082	4.00	51.1674	0.734	1.435	ug/L
⌊>	Bi	209	359161.012	359161.01				ug/L

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 02:57:43
Page 1

Approved: November 24, 2010

Na	23	23919805.200	81.08	5.0885	0.084	1.647	mg/L
Mg	24	15049703.523	51.04	5.2269	0.116	2.223	mg/L
K	39	39873704.779	133.61	4.9331	0.081	1.636	mg/L
Ca	43	100532.909	0.34	5.0318	0.127	2.516	mg/L
Fe	54	2616149.845	8.70	5.1142	0.177	3.461	mg/L
Fe	57	1305453.370	4.40	5.4660	0.049	0.895	mg/L
Sc-1	45	294936.899	294936.90				mg/L
Cl	35	35264.743	3864.19				mg/L
Kr	83	30.000	-6.00				mg/L
Br	81	6303.987	-74.72				mg/L
P	31	9483.829	-32.06				mg/L
S	34	197981.047	13104.10				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	91.896				
Cr	52	92.758				
Cr	53					
Mn	55	92.205				
Co	59	94.518				
Ni	60	94.143				
Cu	65	97.051				
Zn	66	98.013				
Ge	72		107.483			
As	75	99.837				
Se	77					
Se	82	98.031				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	103.207				
Cd	114	103.015				
In	115		104.620			
Sn	118					
Sb	123	102.703				
Ba	135	101.040				
Ce	140					
Tb	159		102.524			
Ho	165					
Tl	203	102.619				
Tl	205					
Pb	206					
Pb	207					
Pb	208	101.031				
U	238	102.335				
Bi	209		100.591			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 02:57:43

Approved: November 24, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 02:57:43
Page 3

Approved: November 24, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 03:02:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26418.210	0.01				ug/L
|	Be	9	2.667	-0.00	0.0102	0.008	75.278	ug/L
|	Al	27	5985.146	-0.00	0.1935	0.121	62.675	ug/L
⌊>	Sc	45	298799.743	298799.74				ug/L
⌈	Ti	49	56.673	-0.00	0.0614	0.049	80.094	ug/L
|	V	51	2840.680	-0.00	-0.0164	0.008	46.445	ug/L
|	Cr	52	8826.315	-0.00	-0.1110	0.015	13.897	ug/L
|	Cr	53	316.703	0.00	0.0386	0.043	112.586	ug/L
|	Mn	55	321.008	0.00	-0.0058	0.001	12.303	ug/L
|	Co	59	183.004	-0.00	-0.0052	0.001	28.714	ug/L
|	Ni	60	22.334	0.00	-0.0112	0.002	19.169	ug/L
|	Cu	65	88.001	-0.00	-0.0299	0.001	2.055	ug/L
|	Zn	66	1090.070	-0.00	-0.5274	0.018	3.474	ug/L
|>	Ge	72	357939.033	357939.03				ug/L
|	As	75	-135.504	-0.00	-0.0349	0.057	164.504	ug/L
|	Se	77	33.337	-0.00	-0.3452	0.252	72.994	ug/L
|	Se	82	-1.023	-0.00	-0.1182	0.029	24.412	ug/L
⌊	Rb	85	17.000	-0.00				mg/L
	Y	89	216769.134	17843.65				ug/L
	Rh	103	8.333	-1.00				ug/L
⌈	Mo	98	197.346	0.00	0.0931	0.018	18.800	ug/L
|	Ag	107	28.000	0.00	-0.0164	0.001	6.786	ug/L
|	Cd	114	3.831	-0.00	0.0137	0.013	96.104	ug/L
|>	In	115	267734.559	267734.56				ug/L
|	Sn	118	1040.454	-0.00	-0.1792	0.020	11.383	ug/L
⌊	Sb	123	277.002	0.00	0.0957	0.014	14.181	ug/L
⌈	Ba	135	15.000	0.00	-0.0121	0.002	18.014	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	321536.579	321536.58				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	29.000	0.00	0.0023	0.000	14.364	ug/L
|	Tl	205	56.673	0.00	-0.0312	0.001	3.697	ug/L
|	Pb	206	543.687	-0.00	-0.2796	0.005	1.820	ug/L
|	Pb	207	442.348	-0.00	-0.2555	0.010	4.008	ug/L
|	Pb	208	2104.442	-0.01	-0.2740	0.004	1.317	ug/L
|	U	238	53.667	0.00	-0.0112	0.000	3.348	ug/L
⌊>	Bi	209	363251.939	363251.94				ug/L

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 03:04:26
Page 1

Approved: November 24, 2010

⌈	Na	23	10586.667	-0.00	-0.0116	0.000	0.531	mg/L
|	Mg	24	393.380	0.00	-0.0158	0.000	0.036	mg/L
|	K	39	480898.641	0.00	-0.0135	0.001	9.108	mg/L
|	Ca	43	186.687	0.00	-0.0065	0.004	54.367	mg/L
|	Fe	54	49422.324	-0.01	-0.0168	0.002	9.571	mg/L
|	Fe	57	6699.582	-0.00	-0.0079	0.002	21.505	mg/L
⌊>	Sc-1	45	298799.743	298799.74				mg/L
	Cl	35	32616.439	1215.88				mg/L
	Kr	83	41.000	5.00				mg/L
	Br	81	6457.418	78.71				mg/L
	P	31	8811.887	-704.00				mg/L
	S	34	186624.102	1747.15				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		108.087			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.833			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.944			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.737			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 03:04:26
Page 2

Approved: November 24, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 03:04:26

Approved: November 24, 2010

Instrument Tuning Report

File Name: 06302008.tun
File Path: C:\elandata\Tuning\06302008.tun

Sample Information

Sample Date/Time: Wednesday, November 24, 2010 09:55:16

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	623	2060	0.747	
Li	7.016	7.029	1586	2060	0.715	
Co	58.933	58.979	14289	1972	0.696	
Ce	139.905	139.929	34005	2015	0.715	
Tl	204.975	204.976	49701	2255	0.716	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.559
3.000	1.448
4.000	22.878
5.000	9.873
6.000	1.683
7.000	1.497
8.000	49.684
9.000	3.235
58.000	1.801
59.000	1.133
60.000	17.820
139.000	0.984
140.000	0.489
141.000	7.507
204.000	1.681
205.000	0.975
206.000	0.741

Report Date/Time: Wednesday, November 24, 2010 09:56:27
Page 1

Approved: November 29, 2010

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Wednesday, November 24, 2010 09:58:25
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\Elandata\DataSet\112110\Sample.501
Tuning File: C:\elandata\Tuning\06302008.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	51341.9	51341.866	306.153	0.6
	Rh	102.9	279368.5	279368.543	1280.621	0.5
	In	114.9	475941.8	475941.760	2277.645	0.5
	Pb	208.0	179573.8	179573.809	706.438	0.4
	U	238.1	139.1	139.101	26.612	19.1
⌈>	Ba	137.9	267960.8	267960.816	1072.117	0.4
⌊	Ba++	69.0	3798.9	0.014	0.000	1.1
⌈>	Ce	139.9	340570.6	340570.643	1829.761	0.5
⌊	CeO	155.9	7466.1	0.022	0.000	1.5
	Bkgd	220.0	6.3	6.300	1.037	16.5
	Ar2	79.9	3735307.6	3735307.594	21061.402	0.6

Current Optimization File Data

Current Value	Description
1.02	Nebulizer Gas Flow
6.70	Lens Voltage
1500.00	ICP RF Power
-1806.25	Analog Stage Voltage
1000.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	7.0	4423.6
Co	59	33	7.8	114052.0
Rh	103	33	9.3	108080.6
Pb	208	33	10.3	136221.9

Sample ID: Sample
Report Date/Time: Wednesday, November 24, 2010 10:00:33
Page 1

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Wednesday, November 24, 2010 10:11:29
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	32486.087					ug/L
|	Be	9	8.667					ug/L
|	Al	27	6151.894					ug/L
|>	Sc	45	288656.970					ug/L
⌜	Ti	49	36.670					ug/L
|	V	51	2814.077					ug/L
|	Cr	52	8892.374					ug/L
|	Cr	53	400.048					ug/L
|	Mn	55	340.009					ug/L
|	Co	59	217.005					ug/L
|	Ni	60	30.000					ug/L
|	Cu	65	143.336					ug/L
|	Zn	66	1304.098					ug/L
|>	Ge	72	441294.067					ug/L
|	As	75	-163.160					ug/L
|	Se	77	73.341					ug/L
|	Se	82	0.606					ug/L
⌊	Rb	85	13.000					mg/L
	Y	89	250794.098					ug/L
	Rh	103	19.000					ug/L
⌜	Mo	98	18.420					ug/L
|	Ag	107	718.033					ug/L
|	Cd	114	10.666					ug/L
|>	In	115	325460.022					ug/L
|	Sn	118	1060.590					ug/L
⌊	Sb	123	88.831					ug/L
⌜	Ba	135	25.000					ug/L
|	Ce	140	46.671					ug/L
⌊>	Tb	159	422970.818					ug/L
⌜	Ho	165	16.668					ug/L
|	Tl	203	61.667					ug/L
|	Tl	205	160.017					ug/L
|	Pb	206	627.026					ug/L
|	Pb	207	492.350					ug/L
|	Pb	208	2426.808					ug/L
|	U	238	38.000					ug/L
⌊>	Bi	209	432689.098					ug/L

Sample ID: Blank
Report Date/Time: Wednesday, November 24, 2010 10:13:38
Page 1

Approved: November 29, 2010

Na	23	13844.315		mg/L
Mg	24	356.709		mg/L
K	39	459997.401		mg/L
Ca	43	170.019		mg/L
Fe	54	53525.308		mg/L
Fe	57	7220.001		mg/L
Sc-1	45	288656.970		mg/L
Cl	35	25126.195		mg/L
Kr	83	45.334		mg/L
Br	81	8833.236		mg/L
P	31	10494.212		mg/L
S	34	173158.801		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209					
Na	23					

Sample ID: Blank
Report Date/Time: Wednesday, November 24, 2010 10:13:38
Page 2

Approved: November 29, 2010

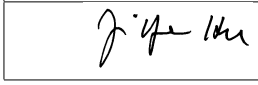
Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Wednesday, November 24, 2010 10:13:38
Page 3

Approved: November 29, 2010



Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Wednesday, November 24, 2010 10:18:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35061.692	0.01				ug/L
|	Be	9	10.667	0.00				ug/L
|	Al	27	6035.167	-0.00				ug/L
⌊>	Sc	45	284302.203	284302.20				ug/L
⌈	Ti	49	36.670	0.00				ug/L
|	V	51	2734.956	-0.00				ug/L
|	Cr	52	8877.028	0.00				ug/L
|	Cr	53	373.378	-0.00				ug/L
|	Mn	55	295.007	-0.00				ug/L
|	Co	59	221.005	0.00				ug/L
|	Ni	60	31.000	0.00				ug/L
|	Cu	65	128.335	-0.00				ug/L
|	Zn	66	1281.095	-0.00				ug/L
|>	Ge	72	439329.310	439329.31				ug/L
|	As	75	-130.460	0.00				ug/L
|	Se	77	76.675	0.00				ug/L
|	Se	82	11.336	0.00				ug/L
⌊	Rb	85	16.667	0.00				mg/L
	Y	89	244818.244	-5975.85				ug/L
	Rh	103	10.667	-8.33				ug/L
⌈	Mo	98	15.749	-0.00				ug/L
|	Ag	107	406.679	-0.00				ug/L
|	Cd	114	15.398	0.00				ug/L
|>	In	115	320607.122	320607.12				ug/L
|	Sn	118	962.846	-0.00				ug/L
⌊	Sb	123	60.786	-0.00				ug/L
⌈	Ba	135	17.667	-0.00				ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	427071.199	427071.20				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	60.001	-0.00				ug/L
|	Tl	205	120.013	-0.00				ug/L
|	Pb	206	598.691	-0.00				ug/L
|	Pb	207	491.684	0.00				ug/L
|	Pb	208	2335.464	-0.00				ug/L
|	U	238	21.334	-0.00				ug/L
⌊>	Bi	209	431948.285	431948.29				ug/L

Sample ID: Standard 1
Report Date/Time: Wednesday, November 24, 2010 10:20:22
Page 1

Approved: November 29, 2010

⌈	Na	23	12996.412	-0.00		mg/L
|	Mg	24	343.374	-0.00		mg/L
|	K	39	450484.692	-0.01		mg/L
|	Ca	43	163.351	-0.00		mg/L
|	Fe	54	53016.303	0.00		mg/L
|	Fe	57	7036.521	-0.00		mg/L
⌊>	Sc-1	45	284302.203	284302.20		mg/L
	Cl	35	23117.358	-2008.84		mg/L
	Kr	83	38.000	-7.33		mg/L
	Br	81	8459.578	-373.66		mg/L
	P	31	10964.013	469.80		mg/L
	S	34	174513.614	1354.81		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 1
Report Date/Time: Wednesday, November 24, 2010 10:20:22
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Wednesday, November 24, 2010 10:20:22
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Wednesday, November 24, 2010 10:24:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36014.807	0.01				ug/L
|	Be	9	144.668	0.00				ug/L
|	Al	27	8870.619	0.01				ug/L
⌊>	Sc	45	285879.361	285879.36				ug/L
⌈	Ti	49	626.749	0.00				ug/L
|	V	51	6962.592	0.01				ug/L
|	Cr	52	12379.783	0.01				ug/L
|	Cr	53	796.779	0.00				ug/L
|	Mn	55	5985.851	0.01				ug/L
|	Co	59	4948.940	0.01				ug/L
|	Ni	60	1065.067	0.00				ug/L
|	Cu	65	1183.415	0.00				ug/L
|	Zn	66	1910.868	0.00				ug/L
|>	Ge	72	435079.591	435079.59				ug/L
|	As	75	166.379	0.00				ug/L
|	Se	77	93.343	0.00				ug/L
|	Se	82	32.621	0.00				ug/L
⌊	Rb	85	28.667	0.00				mg/L
	Y	89	241561.250	-9232.85				ug/L
	Rh	103	8.000	-11.00				ug/L
⌈	Mo	98	1674.869	0.01				ug/L
|	Ag	107	2159.255	0.00				ug/L
|	Cd	114	436.426	0.00				ug/L
|>	In	115	323450.034	323450.03				ug/L
|	Sn	118	2572.731	0.00				ug/L
⌊	Sb	123	1299.885	0.00				ug/L
⌈	Ba	135	682.030	0.00				ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	433258.038	433258.04				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	2823.760	0.01				ug/L
|	Tl	205	7039.849	0.02				ug/L
|	Pb	206	2939.795	0.01				ug/L
|	Pb	207	2603.365	0.00				ug/L
|	Pb	208	11996.306	0.02				ug/L
|	U	238	15300.183	0.04				ug/L
⌊>	Bi	209	432156.173	432156.17				ug/L

Sample ID: Standard 2
Report Date/Time: Wednesday, November 24, 2010 10:27:05
Page 1

Approved: November 29, 2010

⌈	Na	23	268798.140	0.89		mg/L
|	Mg	24	170762.653	0.60		mg/L
|	K	39	875100.424	1.47		mg/L
|	Ca	43	1000.150	0.00		mg/L
|	Fe	54	79473.107	0.09		mg/L
|	Fe	57	19474.291	0.04		mg/L
⌊>	Sc-1	45	285879.361	285879.36		mg/L
	Cl	35	23494.905	-1631.29		mg/L
	Kr	83	43.667	-1.67		mg/L
	Br	81	8480.930	-352.31		mg/L
	P	31	10839.224	345.01		mg/L
	S	34	186158.738	12999.94		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 2
Report Date/Time: Wednesday, November 24, 2010 10:27:05
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Wednesday, November 24, 2010 10:27:05
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Wednesday, November 24, 2010 10:31:39
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34827.298	0.01				ug/L
|	Be	9	19417.510	0.07	50.0000	1.596	3.192	ug/L
|	Al	27	337432.114	1.20	50.0000	0.985	1.971	ug/L
⌊>	Sc	45	277241.236	277241.24				ug/L
⌈	Ti	49	66023.925	0.16	100.0000	1.043	1.043	ug/L
|	V	51	521370.877	1.22	50.0000	0.720	1.440	ug/L
|	Cr	52	446630.263	1.03	50.0000	0.914	1.828	ug/L
|	Cr	53	51621.396	0.12	50.0000	0.442	0.884	ug/L
|	Mn	55	675565.752	1.59	50.0000	0.943	1.885	ug/L
|	Co	59	585090.697	1.38	50.0000	0.898	1.796	ug/L
|	Ni	60	122445.769	0.29	50.0000	0.581	1.162	ug/L
|	Cu	65	125531.666	0.30	50.0000	0.478	0.956	ug/L
|	Zn	66	71804.947	0.17	50.0000	0.392	0.784	ug/L
|>	Ge	72	424076.031	424076.03				ug/L
|	As	75	47121.347	0.11	50.0000	0.733	1.466	ug/L
|	Se	77	3477.620	0.01	50.0000	1.617	3.235	ug/L
|	Se	82	4367.692	0.01	50.0000	0.452	0.904	ug/L
⌊	Rb	85	1728.833	0.00				mg/L
	Y	89	241554.152	-9239.95				ug/L
	Rh	103	23.334	4.33				ug/L
⌈	Mo	98	206947.158	0.66	100.0000	1.145	1.145	ug/L
|	Ag	107	223166.901	0.71	50.0000	0.565	1.130	ug/L
|	Cd	114	51359.603	0.16	50.0000	1.160	2.320	ug/L
|>	In	115	314504.810	314504.81				ug/L
|	Sn	118	178892.176	0.57	50.0000	0.988	1.976	ug/L
⌊	Sb	123	162608.895	0.52	50.0000	0.807	1.613	ug/L
⌈	Ba	135	81609.135	0.19	50.0000	0.413	0.826	ug/L
|	Ce	140	56.672	0.00				ug/L
⌊>	Tb	159	420726.583	420726.58				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	340378.641	0.82	50.0000	0.322	0.643	ug/L
|	Tl	205	837318.082	2.02	50.0000	0.812	1.625	ug/L
|	Pb	206	275024.390	0.66	50.0000	0.198	0.397	ug/L
|	Pb	207	258888.990	0.62	50.0000	0.750	1.499	ug/L
|	Pb	208	1156612.357	2.78	50.0000	0.539	1.077	ug/L
|	U	238	1871931.511	4.51	50.0000	0.450	0.899	ug/L
⌊>	Bi	209	414815.556	414815.56				ug/L

Sample ID: Standard 3
Report Date/Time: Wednesday, November 24, 2010 10:33:50
Page 1

Approved: November 29, 2010

⌈	Na	23	28494194.000	102.73		5.0000	0.046	0.923	mg/L
|	Mg	24	19184740.086	69.20		5.0000	0.059	1.187	mg/L
|	K	39	47680771.691	170.38		5.0000	0.017	0.334	mg/L
|	Ca	43	99570.123	0.36		5.0000	0.112	2.240	mg/L
|	Fe	54	3483476.163	12.38		5.0000	0.110	2.197	mg/L
|	Fe	57	1393365.362	5.00		5.0000	0.168	3.369	mg/L
⌊>	Sc-1	45	277241.236	277241.24					mg/L
	Cl	35	23013.119	-2113.08					mg/L
	Kr	83	37.000	-8.33					mg/L
	Br	81	8188.686	-644.55					mg/L
	P	31	9985.658	-508.55					mg/L
	S	34	196839.062	23680.26					mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 3
Report Date/Time: Wednesday, November 24, 2010 10:33:50
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Wednesday, November 24, 2010 10:33:50
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Wednesday, November 24, 2010 10:38:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	33807.246	0.01				ug/L
|	Be	9	36448.988	0.13	97.9886	6.781	6.921	ug/L
|	Al	27	625400.072	2.29	97.7506	4.472	4.575	ug/L
|>	Sc	45	271406.403	271406.40				ug/L
⌈	Ti	49	127595.381	0.31	198.1742	4.639	2.341	ug/L
|	V	51	1003406.795	2.40	98.9703	1.450	1.465	ug/L
|	Cr	52	854123.196	2.03	99.0076	1.949	1.968	ug/L
|	Cr	53	97237.011	0.23	97.9455	2.186	2.232	ug/L
|	Mn	55	1303220.391	3.12	98.9743	1.363	1.377	ug/L
|	Co	59	1098444.898	2.63	97.6170	2.774	2.841	ug/L
|	Ni	60	233789.259	0.56	98.4668	1.843	1.871	ug/L
|	Cu	65	240181.849	0.57	98.5852	0.739	0.750	ug/L
|	Zn	66	135352.581	0.32	98.2487	0.804	0.819	ug/L
|>	Ge	72	417617.230	417617.23				ug/L
|	As	75	91844.489	0.22	99.3644	1.058	1.064	ug/L
|	Se	77	6549.467	0.02	98.2223	3.755	3.822	ug/L
|	Se	82	8260.814	0.02	97.9649	1.213	1.238	ug/L
⌊	Rb	85	3005.482	0.01				mg/L
	Y	89	238763.975	-12030.12				ug/L
	Rh	103	41.334	22.33				ug/L
⌈	Mo	98	411035.116	1.34	201.9058	0.715	0.354	ug/L
|	Ag	107	423246.846	1.38	98.6945	1.559	1.580	ug/L
|	Cd	114	99452.082	0.32	99.6972	1.116	1.119	ug/L
|>	In	115	306365.928	306365.93				ug/L
|	Sn	118	349986.864	1.14	100.3543	0.909	0.906	ug/L
⌊	Sb	123	303352.995	0.99	97.8293	0.753	0.769	ug/L
⌈	Ba	135	158540.134	0.38	98.9996	1.570	1.586	ug/L
|	Ce	140	320.038	0.00				ug/L
|>	Tb	159	417015.072	417015.07				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	657685.934	1.64	100.0781	1.863	1.862	ug/L
|	Tl	205	1609606.116	4.02	99.8282	2.657	2.661	ug/L
|	Pb	206	551021.768	1.38	101.9416	1.441	1.413	ug/L
|	Pb	207	484747.534	1.21	98.5490	0.553	0.561	ug/L
|	Pb	208	2240287.517	5.59	100.2478	0.847	0.845	ug/L
|	U	238	3582757.647	8.95	99.5978	1.525	1.531	ug/L
|>	Bi	209	400140.429	400140.43				ug/L

Sample ID: Standard 4
Report Date/Time: Wednesday, November 24, 2010 10:40:35
Page 1

Approved: November 29, 2010

Na	23	58522612.661	215.86	10.2476	0.427	4.162	mg/L
Mg	24	37836956.947	139.60	10.0443	0.438	4.357	mg/L
K	39	95382356.289	350.13	10.1366	0.266	2.621	mg/L
Ca	43	196993.067	0.73	10.0584	0.161	1.605	mg/L
Fe	54	6829299.272	25.01	10.0481	0.433	4.306	mg/L
Fe	57	2684562.965	9.88	9.9395	0.442	4.449	mg/L
Sc-1	45	271406.403	271406.40				mg/L
Cl	35	22243.385	-2882.81				mg/L
Kr	83	44.001	-1.33				mg/L
Br	81	7849.750	-983.49				mg/L
P	31	10492.839	-1.37				mg/L
S	34	187182.979	14024.18				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209					
Na	23					

Sample ID: Standard 4
Report Date/Time: Wednesday, November 24, 2010 10:40:35
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 4
Report Date/Time: Wednesday, November 24, 2010 10:40:35
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Wednesday, November 24, 2010 10:45:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 11
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34777.034	0.01				ug/L
|	Be	9	19120.263	0.07	50.8740	1.900	3.735	ug/L
|	Al	27	323775.247	1.16	49.6554	1.637	3.297	ug/L
⌊>	Sc	45	273868.031	273868.03				ug/L
⌈	Ti	49	64342.844	0.15	98.2670	4.063	4.134	ug/L
|	V	51	512820.850	1.20	49.6194	0.516	1.040	ug/L
|	Cr	52	435683.601	1.01	49.1783	1.014	2.062	ug/L
|	Cr	53	50096.838	0.12	49.4562	1.028	2.078	ug/L
|	Mn	55	670868.233	1.58	50.0968	0.595	1.188	ug/L
|	Co	59	567598.801	1.34	49.6028	1.209	2.438	ug/L
|	Ni	60	120820.404	0.28	50.0390	1.146	2.289	ug/L
|	Cu	65	125112.833	0.29	50.4714	0.051	0.101	ug/L
|	Zn	66	72327.013	0.17	51.1889	0.425	0.831	ug/L
|>	Ge	72	424626.691	424626.69				ug/L
|	As	75	46375.968	0.11	49.4645	0.579	1.170	ug/L
|	Se	77	3540.983	0.01	51.8025	4.388	8.471	ug/L
|	Se	82	4277.680	0.01	49.9032	0.779	1.561	ug/L
⌊	Rb	85	1768.507	0.00				mg/L
	Y	89	235917.899	-14876.20				ug/L
	Rh	103	20.667	1.67				ug/L
⌈	Mo	98	205513.247	0.66	99.1241	2.628	2.652	ug/L
|	Ag	107	223072.257	0.71	51.0225	0.996	1.952	ug/L
|	Cd	114	51566.509	0.17	50.7390	0.861	1.696	ug/L
|>	In	115	312159.972	312159.97				ug/L
|	Sn	118	178423.456	0.57	50.0693	0.789	1.577	ug/L
⌊	Sb	123	161449.737	0.52	51.1066	0.598	1.171	ug/L
⌈	Ba	135	80424.589	0.19	49.1520	1.141	2.321	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	426091.642	426091.64				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	343688.911	0.83	50.2494	0.273	0.543	ug/L
|	Tl	205	831238.990	2.00	49.5303	1.034	2.088	ug/L
|	Pb	206	277457.293	0.66	49.2675	0.375	0.762	ug/L
|	Pb	207	257356.764	0.62	50.2307	0.122	0.244	ug/L
|	Pb	208	1159965.993	2.78	49.8265	0.235	0.471	ug/L
|	U	238	1889600.797	4.54	50.4778	0.272	0.540	ug/L
⌊>	Bi	209	416426.474	416426.47				ug/L

Sample ID: QC Std 1
Report Date/Time: Wednesday, November 24, 2010 10:47:18
Page 1

Approved: November 29, 2010

⌈	Na	23	28527188.079	104.15	4.9432	0.099	2.002	mg/L
|	Mg	24	18948372.075	69.21	4.9786	0.131	2.624	mg/L
|	K	39	47070793.381	170.38	4.9313	0.161	3.272	mg/L
|	Ca	43	99219.672	0.36	5.0169	0.130	2.600	mg/L
|	Fe	54	3448150.041	12.41	4.9869	0.166	3.320	mg/L
|	Fe	57	1415521.781	5.15	5.1748	0.112	2.169	mg/L
⌊>	Sc-1	45	273868.031	273868.03				mg/L
	Cl	35	21669.455	-3456.74				mg/L
	Kr	83	33.667	-11.67				mg/L
	Br	81	8244.068	-589.17				mg/L
	P	31	9878.218	-615.99				mg/L
	S	34	188585.223	15426.42				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9	101.748				
|	Al	27	99.311				
⌊>	Sc	45					
⌈	Ti	49	98.267				
|	V	51	99.239				
|	Cr	52	98.357				
|	Cr	53					
|	Mn	55	100.194				
|	Co	59	99.206				
|	Ni	60	100.078				
|	Cu	65	100.943				
|	Zn	66	102.378				
|>	Ge	72		96.223			
|	As	75	98.929				
|	Se	77					
|	Se	82	99.806				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	102.045				
|	Cd	114	101.478				
|>	In	115		95.913			
|	Sn	118					
⌊	Sb	123	102.213				
⌈	Ba	135	98.304				
|	Ce	140					
⌊>	Tb	159		100.738			
⌈	Ho	165					
|	Tl	203	100.499				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.653				
|	U	238	100.956				
⌊>	Bi	209		96.241			
⌈	Na	23	98.864				

Sample ID: QC Std 1
Report Date/Time: Wednesday, November 24, 2010 10:47:18
Page 2

Approved: November 29, 2010

	Mg	24	99.571
	K	39	98.625
	Ca	43	100.338
	Fe	54	99.738
	Fe	57	103.497
>	Sc-1	45	
	Cl	35	
	Kr	83	
	Br	81	
	P	31	
	S	34	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Wednesday, November 24, 2010 10:47:18

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Wednesday, November 24, 2010 10:51:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37068.700	0.02				ug/L
|	Be	9	10.667	0.00	0.0601	0.016	26.164	ug/L
|	Al	27	5701.632	-0.00	-0.0361	0.071	197.271	ug/L
⌊>	Sc	45	274090.633	274090.63				ug/L
⌈	Ti	49	30.003	-0.00	-0.0903	0.000	0.519	ug/L
|	V	51	2690.542	-0.00	-0.0016	0.005	340.522	ug/L
|	Cr	52	8581.100	-0.00	-0.0122	0.012	99.645	ug/L
|	Cr	53	220.025	-0.00	-0.1570	0.053	33.926	ug/L
|	Mn	55	324.342	-0.00	-0.0125	0.002	16.297	ug/L
|	Co	59	206.338	-0.00	-0.0044	0.001	22.430	ug/L
|	Ni	60	19.667	-0.00	-0.0226	0.003	13.859	ug/L
|	Cu	65	128.669	-0.00	-0.0151	0.002	15.087	ug/L
|	Zn	66	1296.430	0.00	-0.0183	0.023	123.428	ug/L
|>	Ge	72	428564.880	428564.88				ug/L
|	As	75	-149.032	0.00	0.0712	0.041	57.844	ug/L
|	Se	77	70.007	-0.00	0.0768	0.145	188.205	ug/L
|	Se	82	2.325	0.00	0.0570	0.173	304.425	ug/L
⌊	Rb	85	17.667	0.00				mg/L
	Y	89	242110.330	-8683.77				ug/L
	Rh	103	10.000	-9.00				ug/L
⌈	Mo	98	117.312	0.00	0.0760	0.010	13.496	ug/L
|	Ag	107	115.668	-0.00	-0.0514	0.003	5.937	ug/L
|	Cd	114	12.720	0.00	-0.0022	0.014	632.634	ug/L
|>	In	115	319928.124	319928.12				ug/L
|	Sn	118	1416.100	0.00	0.0892	0.002	2.359	ug/L
⌊	Sb	123	332.587	0.00	0.1056	0.006	5.606	ug/L
⌈	Ba	135	14.667	-0.00	-0.0011	0.002	157.221	ug/L
|	Ce	140	30.003	-0.00				ug/L
⌊>	Tb	159	429149.092	429149.09				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	38.667	-0.00	0.0077	0.001	13.137	ug/L
|	Tl	205	86.676	-0.00	0.0008	0.001	112.714	ug/L
|	Pb	206	590.690	-0.00	-0.0011	0.003	244.763	ug/L
|	Pb	207	506.351	0.00	0.0065	0.001	14.612	ug/L
|	Pb	208	2347.132	-0.00	0.0015	0.000	24.216	ug/L
|	U	238	77.668	0.00	0.0082	0.000	5.030	ug/L
⌊>	Bi	209	424961.942	424961.94				ug/L

Approved: November 29, 2010

Na	23	14164.793	0.00	-0.0022	0.000	3.572	mg/L
Mg	24	336.706	-0.00	-0.0029	0.000	0.604	mg/L
K	39	465658.891	0.11	0.0006	0.002	299.227	mg/L
Ca	43	180.020	0.00	0.0006	0.004	656.473	mg/L
Fe	54	51278.830	0.00	0.0035	0.005	139.672	mg/L
Fe	57	7420.162	0.00	-0.0013	0.002	115.426	mg/L
> Sc-1	45	274090.633	274090.63				mg/L
Cl	35	22339.593	-2786.60				mg/L
Kr	83	39.334	-6.00				mg/L
Br	81	8625.055	-208.18				mg/L
P	31	10053.728	-440.48				mg/L
S	34	192323.647	19164.85				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		97.115			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		98.300			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		101.461			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		98.214			
Na	23					

Sample ID: QC Std 2
Report Date/Time: Wednesday, November 24, 2010 10:54:01

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Wednesday, November 24, 2010 10:54:01
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Wednesday, November 24, 2010 10:58:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36934.770	0.02				ug/L
|	Be	9	10.000	0.00	0.0581	0.014	23.901	ug/L
|	Al	27	2016.880	-0.01	-0.6183	0.085	13.689	ug/L
⌊>	Sc	45	280205.526	280205.53				ug/L
⌈	Ti	49	20.002	-0.00	-0.1053	0.026	24.992	ug/L
|	V	51	6904.756	0.01	0.4076	0.016	3.871	ug/L
|	Cr	52	15782.269	0.02	0.8177	0.009	1.070	ug/L
|	Cr	53	1166.852	0.00	0.7812	0.160	20.491	ug/L
|	Mn	55	7053.224	0.02	0.4881	0.006	1.178	ug/L
|	Co	59	4757.846	0.01	0.3917	0.004	0.950	ug/L
|	Ni	60	3930.479	0.01	1.5904	0.066	4.121	ug/L
|	Cu	65	2176.259	0.00	0.8085	0.031	3.804	ug/L
|	Zn	66	10109.876	0.02	6.3091	0.039	0.620	ug/L
|>	Ge	72	426576.912	426576.91				ug/L
|	As	75	189.722	0.00	0.4284	0.067	15.711	ug/L
|	Se	77	100.011	0.00	0.5267	0.445	84.433	ug/L
|	Se	82	36.948	0.00	0.4583	0.078	17.003	ug/L
⌊	Rb	85	17.667	0.00				mg/L
	Y	89	242980.991	-7813.11				ug/L
	Rh	103	7.000	-12.00				ug/L
⌈	Mo	98	43.461	0.00	0.0411	0.005	13.122	ug/L
|	Ag	107	1918.203	0.00	0.3478	0.014	4.102	ug/L
|	Cd	114	223.715	0.00	0.1987	0.016	8.017	ug/L
|>	In	115	322671.507	322671.51				ug/L
|	Sn	118	1308.886	0.00	0.0566	0.010	17.001	ug/L
⌊	Sb	123	1400.105	0.00	0.4316	0.007	1.567	ug/L
⌈	Ba	135	1211.085	0.00	0.7351	0.015	2.106	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	423315.311	423315.31				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	625.026	0.00	0.0918	0.003	3.453	ug/L
|	Tl	205	1503.597	0.00	0.0836	0.009	11.066	ug/L
|	Pb	206	2754.407	0.01	0.3765	0.013	3.524	ug/L
|	Pb	207	2532.346	0.00	0.3950	0.010	2.514	ug/L
|	Pb	208	11384.006	0.02	0.3829	0.009	2.253	ug/L
|	U	238	15070.164	0.04	0.4008	0.002	0.543	ug/L
⌊>	Bi	209	424760.160	424760.16				ug/L

Sample ID: QC Std 3
Report Date/Time: Wednesday, November 24, 2010 11:00:50
Page 1

Approved: November 29, 2010

⌈	Na	23	13500.460	0.00	-0.0024	0.000	3.948	mg/L
|	Mg	24	263.363	-0.00	-0.0029	0.000	0.232	mg/L
|	K	39	462261.489	0.06	-0.0009	0.001	101.165	mg/L
|	Ca	43	153.350	-0.00	-0.0009	0.003	363.171	mg/L
|	Fe	54	48843.990	-0.01	-0.0017	0.000	29.525	mg/L
|	Fe	57	7123.251	0.00	-0.0030	0.001	40.797	mg/L
⌊>	Sc-1	45	280205.526	280205.53				mg/L
	Cl	35	21724.240	-3401.96				mg/L
	Kr	83	44.334	-1.00				mg/L
	Br	81	8204.699	-628.54				mg/L
	P	31	10007.015	-487.20				mg/L
	S	34	185188.822	12030.02				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	101.899				
|	Cr	52	102.215				
|	Cr	53					
|	Mn	55	97.622				
|	Co	59	97.932				
|	Ni	60	99.402				
|	Cu	65	101.066				
|	Zn	66	100.945				
|>	Ge	72		96.665			
|	As	75	107.106				
|	Se	77					
|	Se	82	114.585				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	86.961				
|	Cd	114	99.332				
|>	In	115		99.143			
|	Sn	118					
⌊	Sb	123	107.911				
⌈	Ba	135	98.007				
|	Ce	140					
⌊>	Tb	159		100.081			
⌈	Ho	165					
|	Tl	203	114.736				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	95.713				
|	U	238	100.209				
⌊>	Bi	209		98.168			
⌈	Na	23					

Sample ID: QC Std 3
Report Date/Time: Wednesday, November 24, 2010 11:00:50
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 3
Report Date/Time: Wednesday, November 24, 2010 11:00:50
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Wednesday, November 24, 2010 11:05:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36115.420	0.03				ug/L
|	Be	9	6.667	-0.00	0.0507	0.007	13.124	ug/L
|	Al	27	26272410.344	100.71	4306.6543	73.644	1.710	ug/L
⌊>	Sc	45	260877.656	260877.66				ug/L
⌈	Ti	49	58268.432	0.14	92.8301	2.153	2.319	ug/L
|	V	51	2653.217	0.00	0.0084	0.027	317.737	ug/L
|	Cr	52	9114.910	0.00	0.1041	0.015	14.582	ug/L
|	Cr	53	1340.224	0.00	1.0167	0.076	7.429	ug/L
|	Mn	55	3360.265	0.01	0.2255	0.006	2.780	ug/L
|	Co	59	2170.257	0.00	0.1757	0.001	0.563	ug/L
|	Ni	60	1398.112	0.00	0.5738	0.009	1.529	ug/L
|	Cu	65	944.721	0.00	0.3316	0.013	4.010	ug/L
|	Zn	66	2268.614	0.00	0.7614	0.082	10.818	ug/L
|>	Ge	72	406922.332	406922.33				ug/L
|	As	75	-77.534	0.00	0.1421	0.020	14.178	ug/L
|	Se	77	133.348	0.00	1.1173	0.249	22.306	ug/L
|	Se	82	5.687	0.00	0.0993	0.129	130.363	ug/L
⌊	Rb	85	1523.131	0.00				mg/L
	Y	89	222548.709	-28245.39				ug/L
	Rh	103	10.667	-8.33				ug/L
⌈	Mo	98	187195.407	0.62	93.4762	2.575	2.755	ug/L
|	Ag	107	72.668	-0.00	-0.0601	0.003	4.813	ug/L
|	Cd	114	87.144	0.00	0.0747	0.030	39.808	ug/L
|>	In	115	301534.869	301534.87				ug/L
|	Sn	118	1281.282	0.00	0.0737	0.011	14.686	ug/L
⌊	Sb	123	201.291	0.00	0.0689	0.004	5.745	ug/L
⌈	Ba	135	63.668	0.00	0.0302	0.005	17.599	ug/L
|	Ce	140	233.359	0.00				ug/L
⌊>	Tb	159	412791.324	412791.32				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	157.336	0.00	0.0267	0.001	5.012	ug/L
|	Tl	205	300.035	0.00	0.0148	0.003	21.444	ug/L
|	Pb	206	686.697	0.00	0.0264	0.004	15.239	ug/L
|	Pb	207	578.356	0.00	0.0302	0.009	29.666	ug/L
|	Pb	208	2683.501	0.00	0.0258	0.002	7.735	ug/L
|	U	238	22.667	-0.00	0.0068	0.000	2.140	ug/L
⌊>	Bi	209	390134.906	390134.91				ug/L

Sample ID: QC Std 4
Report Date/Time: Wednesday, November 24, 2010 11:07:36
Page 1

Approved: November 29, 2010

Na	23	66661998.085	255.56	12.1323	0.178	1.468	mg/L
Mg	24	17541287.210	67.29	4.8400	0.189	3.902	mg/L
K	39	44182602.120	167.93	4.8603	0.231	4.744	mg/L
Ca	43	272802.161	1.05	14.4995	0.556	3.837	mg/L
Fe	54	7856337.151	29.96	12.0340	0.537	4.464	mg/L
Fe	57	3186385.424	12.20	12.2705	0.501	4.085	mg/L
Sc-1	45	260877.656	260877.66				mg/L
Cl	35	1816667.676	1791541.48				mg/L
Kr	83	36.000	-9.33				mg/L
Br	81	7714.976	-1118.26				mg/L
P	31	1606635.786	1596141.57				mg/L
S	34	342148.739	168989.94				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		92.211			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		92.649			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		97.593			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		90.165			
Na	23					

Sample ID: QC Std 4
Report Date/Time: Wednesday, November 24, 2010 11:07:36

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Wednesday, November 24, 2010 11:07:36

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Wednesday, November 24, 2010 11:12:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38741.577	0.04				ug/L
|	Be	9	37809.359	0.15	107.4667	4.818	4.484	ug/L
|	Al	27	35620552.921	139.05	5945.7589	221.732	3.729	ug/L
⌊>	Sc	45	256363.923	256363.92				ug/L
⌈	Ti	49	77641.399	0.19	122.0355	3.435	2.815	ug/L
|	V	51	959441.700	2.32	95.7816	1.389	1.450	ug/L
|	Cr	52	826489.704	1.98	96.9479	1.034	1.067	ug/L
|	Cr	53	97991.132	0.24	99.9341	3.591	3.593	ug/L
|	Mn	55	1300551.029	3.15	99.9828	1.593	1.593	ug/L
|	Co	59	1096324.548	2.66	98.6024	0.484	0.491	ug/L
|	Ni	60	235798.179	0.57	100.5202	1.944	1.934	ug/L
|	Cu	65	241457.997	0.58	100.3116	0.550	0.548	ug/L
|	Zn	66	136605.248	0.33	100.3851	1.561	1.555	ug/L
|>	Ge	72	412590.834	412590.83				ug/L
|	As	75	90036.565	0.22	98.5973	1.596	1.619	ug/L
|	Se	77	6369.335	0.02	96.6795	5.944	6.148	ug/L
|	Se	82	7762.763	0.02	93.1851	1.423	1.528	ug/L
⌊	Rb	85	2016.890	0.00				mg/L
	Y	89	214157.531	-36636.57				ug/L
	Rh	103	43.334	24.33				ug/L
⌈	Mo	98	242582.480	0.80	120.8835	3.053	2.525	ug/L
|	Ag	107	298301.911	0.99	70.5054	3.284	4.657	ug/L
|	Cd	114	99679.425	0.33	101.3537	1.497	1.477	ug/L
|>	In	115	302067.465	302067.46				ug/L
|	Sn	118	1616.531	0.00	0.1708	0.017	10.173	ug/L
⌊	Sb	123	313847.009	1.04	102.6619	1.295	1.261	ug/L
⌈	Ba	135	154241.100	0.37	97.5186	0.343	0.352	ug/L
|	Ce	140	330.038	0.00				ug/L
⌊>	Tb	159	411799.945	411799.94				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	637277.760	1.66	100.9683	0.608	0.602	ug/L
|	Tl	205	1570534.400	4.09	101.4152	1.159	1.142	ug/L
|	Pb	206	531708.947	1.38	102.4243	0.161	0.157	ug/L
|	Pb	207	472083.860	1.23	99.9388	0.274	0.274	ug/L
|	Pb	208	2170090.609	5.64	101.1161	1.034	1.023	ug/L
|	U	238	3529507.223	9.18	102.1690	1.334	1.306	ug/L
⌊>	Bi	209	384277.749	384277.75				ug/L

Sample ID: QC Std 5
Report Date/Time: Wednesday, November 24, 2010 11:14:23
Page 1

Approved: November 29, 2010

⌈	Na	23	89137310.721	347.87	16.5156	0.713	4.320	mg/L
|	Mg	24	23704930.695	92.52	6.6560	0.192	2.877	mg/L
|	K	39	59060629.496	228.93	6.6267	0.196	2.959	mg/L
|	Ca	43	365410.578	1.43	19.7678	0.700	3.543	mg/L
|	Fe	54	10553812.368	41.02	16.4788	0.700	4.248	mg/L
|	Fe	57	4255891.732	16.59	16.6882	0.482	2.889	mg/L
⌊>	Sc-1	45	256363.923	256363.92				mg/L
	Cl	35	2418417.414	2393291.22				mg/L
	Kr	83	41.334	-4.00				mg/L
	Br	81	7493.475	-1339.76				mg/L
	P	31	2130979.607	2120485.39				mg/L
	S	34	387152.841	213994.04				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	95.782				
|	Cr	52	96.948				
|	Cr	53					
|	Mn	55	99.983				
|	Co	59	98.602				
|	Ni	60	100.520				
|	Cu	65	100.312				
|	Zn	66	100.385				
|>	Ge	72		93.496			
|	As	75	98.597				
|	Se	77					
|	Se	82	93.185				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	70.505				
|	Cd	114	101.354				
|>	In	115		92.812			
|	Sn	118					
⌊	Sb	123	102.662				
⌈	Ba	135	97.519				
|	Ce	140					
⌊>	Tb	159		97.359			
⌈	Ho	165					
|	Tl	203	100.968				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	101.116				
|	U	238	102.169				
⌊>	Bi	209		88.812			
⌈	Na	23					

Sample ID: QC Std 5
Report Date/Time: Wednesday, November 24, 2010 11:14:23
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Ag	107	ICSAB IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 5
Report Date/Time: Wednesday, November 24, 2010 11:14:23

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 11:18:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37436.644	0.03				ug/L
|	Be	9	19704.729	0.07	53.7582	2.521	4.689	ug/L
|	Al	27	319114.774	1.17	50.2118	3.118	6.210	ug/L
⌊>	Sc	45	267209.398	267209.40				ug/L
⌈	Ti	49	62115.184	0.15	97.2816	1.544	1.587	ug/L
|	V	51	505476.660	1.21	50.1764	0.878	1.749	ug/L
|	Cr	52	431857.767	1.02	50.0145	0.431	0.861	ug/L
|	Cr	53	51410.294	0.12	52.0769	1.090	2.093	ug/L
|	Mn	55	662738.837	1.60	50.7660	0.683	1.346	ug/L
|	Co	59	575853.934	1.39	51.6142	0.522	1.011	ug/L
|	Ni	60	122001.979	0.29	51.8241	0.578	1.115	ug/L
|	Cu	65	124878.196	0.30	51.6689	0.495	0.959	ug/L
|	Zn	66	71169.400	0.17	51.6809	0.890	1.723	ug/L
|>	Ge	72	413984.589	413984.59				ug/L
|	As	75	45809.656	0.11	50.1128	0.463	0.923	ug/L
|	Se	77	3644.363	0.01	54.6813	2.419	4.425	ug/L
|	Se	82	4171.945	0.01	49.9268	0.400	0.801	ug/L
⌊	Rb	85	1745.837	0.00				mg/L
	Y	89	226908.090	-23886.01				ug/L
	Rh	103	24.000	5.00				ug/L
⌈	Mo	98	198269.329	0.64	95.8296	2.542	2.653	ug/L
|	Ag	107	215656.262	0.69	49.4328	1.310	2.650	ug/L
|	Cd	114	51716.883	0.17	50.9856	0.383	0.752	ug/L
|>	In	115	311477.114	311477.11				ug/L
|	Sn	118	179130.934	0.57	50.3735	0.550	1.091	ug/L
⌊	Sb	123	161817.521	0.52	51.3393	1.250	2.435	ug/L
⌈	Ba	135	79769.365	0.19	48.4922	1.170	2.413	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	428376.595	428376.60				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	337279.273	0.82	50.2043	0.868	1.728	ug/L
|	Tl	205	823513.866	2.01	49.9601	1.276	2.553	ug/L
|	Pb	206	274050.842	0.67	49.5396	0.164	0.332	ug/L
|	Pb	207	255891.231	0.62	50.8462	0.385	0.757	ug/L
|	Pb	208	1148551.229	2.80	50.2260	0.321	0.640	ug/L
|	U	238	1838914.680	4.50	50.0084	0.338	0.676	ug/L
⌊>	Bi	209	409061.812	409061.81				ug/L

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 11:21:09
Page 1

Approved: November 29, 2010

Na	23	28292422.518	105.89	5.0255	0.134	2.662	mg/L
Mg	24	18328253.646	68.64	4.9370	0.168	3.409	mg/L
K	39	46182242.300	171.36	4.9598	0.151	3.045	mg/L
Ca	43	97782.227	0.37	5.0698	0.208	4.096	mg/L
Fe	54	3359185.284	12.39	4.9790	0.077	1.548	mg/L
Fe	57	1402566.686	5.23	5.2598	0.250	4.758	mg/L
Sc-1	45	267209.398	267209.40				mg/L
Cl	35	24080.292	-1045.90				mg/L
Kr	83	36.334	-9.00				mg/L
Br	81	7921.137	-912.10				mg/L
P	31	10183.230	-310.98				mg/L
S	34	195842.539	22683.74				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	100.353				
Cr	52	100.029				
Cr	53					
Mn	55	101.532				
Co	59	103.228				
Ni	60	103.648				
Cu	65	103.338				
Zn	66	103.362				
Ge	72		93.812			
As	75	100.226				
Se	77					
Se	82	99.854				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.866				
Cd	114	101.971				
In	115		95.704			
Sn	118					
Sb	123	102.679				
Ba	135	96.984				
Ce	140					
Tb	159		101.278			
Ho	165					
Tl	203	100.409				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.452				
U	238	100.017				
Bi	209		94.539			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 11:21:09

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 11:21:09
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 11:25:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36483.224	0.02				ug/L
|	Be	9	10.000	0.00	0.0592	0.010	17.645	ug/L
|	Al	27	5368.147	-0.00	-0.0679	0.170	251.128	ug/L
⌊>	Sc	45	267275.375	267275.38				ug/L
⌈	Ti	49	50.005	0.00	-0.0579	0.030	52.600	ug/L
|	V	51	2761.895	0.00	0.0130	0.012	92.788	ug/L
|	Cr	52	8685.191	0.00	0.0285	0.030	105.990	ug/L
|	Cr	53	333.373	-0.00	-0.0362	0.108	299.393	ug/L
|	Mn	55	291.674	-0.00	-0.0143	0.002	15.128	ug/L
|	Co	59	203.337	-0.00	-0.0041	0.000	10.276	ug/L
|	Ni	60	26.667	-0.00	-0.0194	0.004	21.588	ug/L
|	Cu	65	119.335	-0.00	-0.0174	0.001	8.334	ug/L
|	Zn	66	1330.769	0.00	0.0333	0.025	76.079	ug/L
|>	Ge	72	416533.120	416533.12				ug/L
|	As	75	-153.015	0.00	0.0623	0.036	57.944	ug/L
|	Se	77	73.341	0.00	0.1574	0.231	146.946	ug/L
|	Se	82	3.612	0.00	0.0723	0.052	72.120	ug/L
⌊	Rb	85	13.667	0.00				mg/L
	Y	89	232109.342	-18684.76				ug/L
	Rh	103	7.667	-11.33				ug/L
⌈	Mo	98	98.344	0.00	0.0673	0.002	2.690	ug/L
|	Ag	107	49.334	-0.00	-0.0662	0.001	0.889	ug/L
|	Cd	114	8.295	-0.00	-0.0064	0.007	107.863	ug/L
|>	In	115	318283.089	318283.09				ug/L
|	Sn	118	1392.497	0.00	0.0846	0.015	17.590	ug/L
⌊	Sb	123	273.209	0.00	0.0877	0.006	6.335	ug/L
⌈	Ba	135	12.333	-0.00	-0.0024	0.002	86.466	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	423303.245	423303.25				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	42.667	-0.00	0.0085	0.000	2.487	ug/L
|	Tl	205	83.342	-0.00	0.0007	0.001	130.729	ug/L
|	Pb	206	566.022	-0.00	-0.0030	0.002	59.319	ug/L
|	Pb	207	443.348	-0.00	-0.0035	0.003	79.022	ug/L
|	Pb	208	2159.780	-0.00	-0.0042	0.001	20.571	ug/L
|	U	238	72.668	0.00	0.0081	0.000	3.970	ug/L
⌊>	Bi	209	414839.063	414839.06				ug/L

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 11:27:52
Page 1

Approved: November 29, 2010

Na	23	14321.684	0.01	-0.0021	0.000	1.426	mg/L
Mg	24	406.716	0.00	-0.0029	0.000	0.152	mg/L
K	39	461166.045	0.13	0.0013	0.001	40.591	mg/L
Ca	43	150.016	-0.00	-0.0007	0.001	204.206	mg/L
Fe	54	48685.848	-0.00	0.0015	0.003	172.869	mg/L
Fe	57	7096.561	0.00	-0.0019	0.001	53.667	mg/L
Sc-1	45	267275.375	267275.38				mg/L
Cl	35	23373.966	-1752.23				mg/L
Kr	83	44.667	-0.67				mg/L
Br	81	7913.130	-920.11				mg/L
P	31	10099.132	-395.08				mg/L
S	34	182237.121	9078.32				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		94.389			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		97.795			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		100.079			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		95.875			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 11:27:52

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 11:27:52

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: PBW 57 WG348052-04

Sample Date/Time: Wednesday, November 24, 2010 11:32:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 20
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37787.950	0.03				ug/L
|	Be	9	8.000	-0.00	0.0529	0.023	44.364	ug/L
|	Al	27	6001.801	0.00	0.0221	0.029	131.153	ug/L
⌊>	Sc	45	270924.788	270924.79				ug/L
⌈	Ti	49	43.338	0.00	-0.0692	0.023	33.282	ug/L
|	V	51	2746.140	0.00	0.0078	0.010	127.009	ug/L
|	Cr	52	8689.527	0.00	0.0153	0.014	91.962	ug/L
|	Cr	53	326.705	-0.00	-0.0472	0.064	134.982	ug/L
|	Mn	55	356.343	0.00	-0.0097	0.002	19.987	ug/L
|	Co	59	199.337	-0.00	-0.0047	0.001	16.050	ug/L
|	Ni	60	50.667	0.00	-0.0095	0.001	11.583	ug/L
|	Cu	65	134.336	-0.00	-0.0120	0.005	40.204	ug/L
|	Zn	66	2814.091	0.00	1.0959	0.028	2.541	ug/L
|>	Ge	72	422153.522	422153.52				ug/L
|	As	75	-124.763	0.00	0.0946	0.027	28.316	ug/L
|	Se	77	63.340	-0.00	-0.0062	0.625	10091.874	ug/L
|	Se	82	9.684	0.00	0.1431	0.012	8.648	ug/L
⌊	Rb	85	15.333	0.00				mg/L
	Y	89	231382.927	-19411.17				ug/L
	Rh	103	8.000	-11.00				ug/L
⌈	Mo	98	46.197	0.00	0.0429	0.002	5.440	ug/L
|	Ag	107	32.334	-0.00	-0.0699	0.001	1.639	ug/L
|	Cd	114	8.057	-0.00	-0.0065	0.013	192.630	ug/L
|>	In	115	314697.077	314697.08				ug/L
|	Sn	118	1058.723	0.00	-0.0044	0.006	146.672	ug/L
⌊	Sb	123	131.247	0.00	0.0441	0.002	5.228	ug/L
⌈	Ba	135	16.667	-0.00	0.0003	0.004	1200.803	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	421921.791	421921.79				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	29.667	-0.00	0.0066	0.000	7.072	ug/L
|	Tl	205	70.007	-0.00	-0.0001	0.002	2849.609	ug/L
|	Pb	206	502.018	-0.00	-0.0139	0.007	51.993	ug/L
|	Pb	207	444.348	-0.00	-0.0028	0.005	167.297	ug/L
|	Pb	208	2047.104	-0.00	-0.0086	0.002	27.893	ug/L
|	U	238	34.334	-0.00	0.0071	0.000	0.091	ug/L
⌊>	Bi	209	412706.364	412706.36				ug/L

Approved: November 29, 2010

⌈	Na	23	15797.387	0.01	-0.0019	0.000	9.102	mg/L
|	Mg	24	416.717	0.00	-0.0029	0.000	0.743	mg/L
|	K	39	451700.537	0.08	-0.0003	0.002	597.438	mg/L
|	Ca	43	216.691	0.00	0.0026	0.001	57.450	mg/L
|	Fe	54	51171.743	0.00	0.0043	0.004	97.684	mg/L
|	Fe	57	7243.358	0.00	-0.0017	0.002	96.139	mg/L
⌊>	Sc-1	45	270924.788	270924.79				mg/L
	Cl	35	22947.635	-2178.56				mg/L
	Kr	83	36.334	-9.00				mg/L
	Br	81	8085.270	-747.97				mg/L
	P	31	9355.718	-1138.49				mg/L
	S	34	174304.730	1145.93				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.663			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.693			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.752			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.382			
⌈	Na	23					

Sample ID: PBW 57 WG348052-04
Report Date/Time: Wednesday, November 24, 2010 11:34:38
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 57 WG348052-04
Report Date/Time: Wednesday, November 24, 2010 11:34:38
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: LCSW 57 WG348052-05

Sample Date/Time: Wednesday, November 24, 2010 11:39:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36550.092	0.02				ug/L
|	Be	9	9168.873	0.03	23.8586	0.385	1.615	ug/L
|	Al	27	152081.954	0.52	22.2991	0.154	0.689	ug/L
⌊>	Sc	45	280037.210	280037.21				ug/L
⌈	Ti	49	70.007	0.00	-0.0303	0.054	178.605	ug/L
|	V	51	247492.420	0.57	23.4751	0.406	1.729	ug/L
|	Cr	52	217356.088	0.48	23.6838	0.222	0.938	ug/L
|	Cr	53	24672.876	0.06	23.8214	0.709	2.978	ug/L
|	Mn	55	332693.782	0.77	24.4780	0.515	2.105	ug/L
|	Co	59	281835.410	0.65	24.2635	0.171	0.705	ug/L
|	Ni	60	61433.406	0.14	25.0687	0.428	1.706	ug/L
|	Cu	65	63415.783	0.15	25.1906	0.390	1.549	ug/L
|	Zn	66	35585.563	0.08	24.3478	0.541	2.224	ug/L
|>	Ge	72	430706.493	430706.49				ug/L
|	As	75	22429.915	0.05	23.7096	0.567	2.390	ug/L
|	Se	77	1690.312	0.00	23.8530	0.471	1.974	ug/L
|	Se	82	2057.223	0.00	23.6818	0.580	2.451	ug/L
⌊	Rb	85	19.667	0.00				mg/L
	Y	89	230356.481	-20437.62				ug/L
	Rh	103	15.000	-4.00				ug/L
⌈	Mo	98	40.904	0.00	0.0401	0.002	3.917	ug/L
|	Ag	107	106227.996	0.33	23.8263	0.376	1.576	ug/L
|	Cd	114	25460.484	0.08	24.6099	1.007	4.092	ug/L
|>	In	115	317769.519	317769.52				ug/L
|	Sn	118	978.848	-0.00	-0.0292	0.013	44.254	ug/L
⌊	Sb	123	78756.003	0.25	24.4912	0.328	1.339	ug/L
⌈	Ba	135	39159.929	0.09	23.8524	0.263	1.102	ug/L
|	Ce	140	33.337	-0.00				ug/L
⌊>	Tb	159	427323.628	427323.63				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	161943.074	0.38	23.4059	0.285	1.218	ug/L
|	Tl	205	400363.346	0.95	23.5804	0.349	1.481	ug/L
|	Pb	206	137920.983	0.33	24.1575	0.474	1.961	ug/L
|	Pb	207	120990.455	0.29	23.2946	0.338	1.450	ug/L
|	Pb	208	562816.955	1.33	23.8473	0.308	1.290	ug/L
|	U	238	903494.657	2.14	23.8611	0.258	1.081	ug/L
⌊>	Bi	209	421315.847	421315.85				ug/L

Sample ID: LCSW 57 WG348052-05
Report Date/Time: Wednesday, November 24, 2010 11:41:24
Page 1

Approved: November 29, 2010

⌈	Na	23	17874.417	0.02	-0.0016	0.000	10.212	mg/L
|	Mg	24	576.741	0.00	-0.0028	0.000	0.477	mg/L
|	K	39	449278.193	0.01	-0.0021	0.002	92.697	mg/L
|	Ca	43	193.355	0.00	0.0011	0.003	297.168	mg/L
|	Fe	54	53317.164	0.00	0.0048	0.000	4.556	mg/L
|	Fe	57	6679.567	-0.00	-0.0046	0.001	11.302	mg/L
⌊>	Sc-1	45	280037.210	280037.21				mg/L
	Cl	35	22616.882	-2509.31				mg/L
	Kr	83	40.334	-5.00				mg/L
	Br	81	8034.560	-798.68				mg/L
	P	31	9924.314	-569.90				mg/L
	S	34	171666.391	-1492.41				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.601			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.637			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.029			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.371			
⌈	Na	23					

Sample ID: LCSW 57 WG348052-05
Report Date/Time: Wednesday, November 24, 2010 11:41:24
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 57 WG348052-05
Report Date/Time: Wednesday, November 24, 2010 11:41:24
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011017604 WG348052-01

Sample Date/Time: Wednesday, November 24, 2010 11:45:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 22
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37637.496	0.02				ug/L
|	Be	9	10.000	0.00	0.0578	0.006	10.526	ug/L
|	Al	27	19903.125	0.05	2.0700	0.164	7.924	ug/L
⌊>	Sc	45	284459.293	284459.29				ug/L
⌈	Ti	49	66.674	0.00	-0.0370	0.052	140.803	ug/L
|	V	51	3016.328	0.00	0.0234	0.003	13.232	ug/L
|	Cr	52	8948.091	0.00	0.0072	0.012	168.587	ug/L
|	Cr	53	320.037	-0.00	-0.0657	0.025	38.709	ug/L
|	Mn	55	21786765.359	49.71	1577.3272	5.085	0.322	ug/L
|	Co	59	40847.364	0.09	3.4374	0.090	2.632	ug/L
|	Ni	60	3592.014	0.01	1.4114	0.030	2.111	ug/L
|	Cu	65	244.339	0.00	0.0291	0.002	7.516	ug/L
|	Zn	66	4396.344	0.01	2.1259	0.088	4.123	ug/L
| >	Ge	72	438237.679	438237.68				ug/L
|	As	75	383.678	0.00	0.6225	0.051	8.188	ug/L
|	Se	77	76.675	0.00	0.1509	0.668	442.554	ug/L
|	Se	82	55.299	0.00	0.6541	0.072	10.993	ug/L
⌊	Rb	85	2834.764	0.01				mg/L
	Y	89	231035.054	-19759.04				ug/L
	Rh	103	11.667	-7.33				ug/L
⌈	Mo	98	58.042	0.00	0.0487	0.001	1.191	ug/L
|	Ag	107	55.667	-0.00	-0.0646	0.001	2.117	ug/L
|	Cd	114	6.898	-0.00	-0.0076	0.010	129.444	ug/L
| >	In	115	312921.425	312921.43				ug/L
|	Sn	118	1008.851	-0.00	-0.0167	0.008	49.502	ug/L
⌊	Sb	123	244.998	0.00	0.0802	0.003	3.358	ug/L
⌈	Ba	135	34114.109	0.08	21.4385	0.448	2.089	ug/L
|	Ce	140	2820.683	0.01				ug/L
⌊>	Tb	159	414176.986	414176.99				ug/L
⌈	Ho	165	60.006	0.00				ug/L
|	Tl	203	113.335	0.00	0.0186	0.004	20.476	ug/L
|	Tl	205	263.363	0.00	0.0112	0.006	53.021	ug/L
|	Pb	206	615.025	0.00	0.0040	0.006	157.486	ug/L
|	Pb	207	529.686	0.00	0.0118	0.003	28.907	ug/L
|	Pb	208	2456.144	0.00	0.0069	0.004	55.032	ug/L
|	U	238	253.339	0.00	0.0129	0.000	3.153	ug/L
⌊>	Bi	209	421767.690	421767.69				ug/L

Approved: November 29, 2010

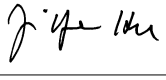
⌈	Na	23	7422002.150	26.09	1.2367	0.100	8.122	mg/L
|	Mg	24	5207156.865	18.33	1.3161	0.068	5.161	mg/L
|	K	39	950948.559	1.75	0.0482	0.003	6.698	mg/L
|	Ca	43	82036.663	0.29	3.9935	0.149	3.743	mg/L
|	Fe	54	4941888.829	17.20	6.9105	0.252	3.643	mg/L
|	Fe	57	2034514.940	7.13	7.1754	0.260	3.618	mg/L
⌊>	Sc-1	45	284459.293	284459.29				mg/L
	Cl	35	81988.747	56862.55				mg/L
	Kr	83	42.334	-3.00				mg/L
	Br	81	32267.312	23434.08				mg/L
	P	31	35328.302	24834.09				mg/L
	S	34	227717.295	54558.49				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.307			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.147			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.921			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.476			
⌈	Na	23					

Sample ID: L1011017604 WG348052-01
Report Date/Time: Wednesday, November 24, 2010 11:48:10
Page 2

Approved: November 29, 2010



| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011017606S WG348052-06

Sample Date/Time: Wednesday, November 24, 2010 11:52:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 23
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34894.116	0.01				ug/L
|	Be	9	1745.486	0.01	4.5193	0.116	2.562	ug/L
|	Al	27	49288.294	0.15	6.5211	0.611	9.373	ug/L
⌊>	Sc	45	283118.711	283118.71				ug/L
⌈	Ti	49	96.677	0.00	0.0095	0.053	562.346	ug/L
|	V	51	48815.600	0.11	4.3992	0.055	1.249	ug/L
|	Cr	52	48250.300	0.09	4.4616	0.082	1.844	ug/L
|	Cr	53	4968.399	0.01	4.4754	0.176	3.939	ug/L
|	Mn	55	22704478.705	52.48	1665.0920	41.224	2.476	ug/L
|	Co	59	95361.645	0.22	8.1594	0.167	2.045	ug/L
|	Ni	60	15248.771	0.04	6.1707	0.037	0.602	ug/L
|	Cu	65	11686.943	0.03	4.5671	0.060	1.313	ug/L
|	Zn	66	11156.999	0.02	6.9487	0.039	0.568	ug/L
|>	Ge	72	432600.374	432600.37				ug/L
|	As	75	5118.391	0.01	5.5608	0.208	3.744	ug/L
|	Se	77	396.714	0.00	4.8448	0.914	18.863	ug/L
|	Se	82	479.699	0.00	5.5187	0.352	6.384	ug/L
⌊	Rb	85	2817.759	0.01				mg/L
	Y	89	228985.368	-21808.73				ug/L
	Rh	103	12.000	-7.00				ug/L
⌈	Mo	98	47.233	0.00	0.0440	0.006	12.528	ug/L
|	Ag	107	3955.156	0.01	0.8432	0.029	3.417	ug/L
|	Cd	114	4931.417	0.02	4.9202	0.168	3.422	ug/L
|>	In	115	307070.658	307070.66				ug/L
|	Sn	118	1010.584	0.00	-0.0107	0.009	82.821	ug/L
⌊	Sb	123	14948.937	0.05	4.8138	0.084	1.751	ug/L
⌈	Ba	135	40616.726	0.10	25.8879	0.538	2.076	ug/L
|	Ce	140	2877.371	0.01				ug/L
⌊>	Tb	159	408488.767	408488.77				ug/L
⌈	Ho	165	53.339	0.00				ug/L
|	Tl	203	29251.023	0.07	4.3437	0.108	2.497	ug/L
|	Tl	205	72015.647	0.18	4.3524	0.110	2.537	ug/L
|	Pb	206	25422.866	0.06	4.4882	0.071	1.583	ug/L
|	Pb	207	22398.283	0.05	4.3554	0.078	1.799	ug/L
|	Pb	208	103937.090	0.25	4.4437	0.086	1.945	ug/L
|	U	238	165269.650	0.40	4.4876	0.082	1.826	ug/L
⌊>	Bi	209	410224.905	410224.91				ug/L

Sample ID: L1011017606S WG348052-06
Report Date/Time: Wednesday, November 24, 2010 11:54:54
Page 1

Approved: November 29, 2010

Na	23	7557210.457	26.65	1.2631	0.067	5.287	mg/L	
Mg	24	5455582.252	19.27	1.3842	0.067	4.831	mg/L	
K	39	961251.061	1.80	0.0497	0.001	2.949	mg/L	
Ca	43	84127.551	0.30	4.1117	0.110	2.677	mg/L	
Fe	54	4966117.333	17.36	6.9741	0.199	2.853	mg/L	
Fe	57	2075068.065	7.31	7.3482	0.201	2.731	mg/L	
> Sc-1	45	283118.711	283118.71				mg/L	
Cl	35	85864.447	60738.25				mg/L	
Kr	83	36.667	-8.67				mg/L	
Br	81	33825.800	24992.56				mg/L	
P	31	36117.847	25623.64				mg/L	
S	34	233354.746	60195.95				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		98.030			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		94.350			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		96.576			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		94.808			
Na	23					

Sample ID: L1011017606S WG348052-06
Report Date/Time: Wednesday, November 24, 2010 11:54:54
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011017606S WG348052-06
Report Date/Time: Wednesday, November 24, 2010 11:54:54
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011017608SD WG348052-07

Sample Date/Time: Wednesday, November 24, 2010 11:59:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 24
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35998.073	0.01				ug/L
|	Be	9	1764.823	0.01	4.4945	0.251	5.585	ug/L
|	Al	27	50410.589	0.15	6.5633	0.325	4.956	ug/L
|>	Sc	45	287581.237	287581.24				ug/L
⌈	Ti	49	70.007	0.00	-0.0325	0.039	120.941	ug/L
|	V	51	50010.676	0.11	4.4277	0.109	2.454	ug/L
|	Cr	52	49088.719	0.09	4.4569	0.125	2.809	ug/L
|	Cr	53	5048.446	0.01	4.4655	0.123	2.760	ug/L
|	Mn	55	21923048.314	49.77	1579.0068	37.145	2.352	ug/L
|	Co	59	93146.410	0.21	7.8260	0.072	0.921	ug/L
|	Ni	60	15274.478	0.03	6.0694	0.078	1.280	ug/L
|	Cu	65	12163.183	0.03	4.6694	0.101	2.168	ug/L
|	Zn	66	11833.450	0.02	7.2768	0.134	1.837	ug/L
|>	Ge	72	440523.968	440523.97				ug/L
|	As	75	5031.949	0.01	5.3768	0.200	3.725	ug/L
|	Se	77	483.394	0.00	5.9798	1.559	26.071	ug/L
|	Se	82	486.326	0.00	5.4945	0.483	8.797	ug/L
⌊	Rb	85	2818.426	0.01				mg/L
	Y	89	224112.424	-26681.67				ug/L
	Rh	103	9.667	-9.33				ug/L
⌈	Mo	98	45.567	0.00	0.0427	0.001	2.781	ug/L
|	Ag	107	4888.578	0.01	1.0370	0.039	3.754	ug/L
|	Cd	114	4818.272	0.02	4.7047	0.073	1.559	ug/L
|>	In	115	313630.762	313630.76				ug/L
|	Sn	118	902.307	-0.00	-0.0473	0.005	9.727	ug/L
⌊	Sb	123	15400.083	0.05	4.8540	0.083	1.718	ug/L
⌈	Ba	135	40976.529	0.10	26.0286	0.158	0.607	ug/L
|	Ce	140	2877.370	0.01				ug/L
|>	Tb	159	409783.806	409783.81				ug/L
⌈	Ho	165	53.339	0.00				ug/L
|	Tl	203	30253.698	0.07	4.4964	0.167	3.711	ug/L
|	Tl	205	74920.771	0.18	4.5325	0.223	4.914	ug/L
|	Pb	206	26006.709	0.06	4.5979	0.117	2.540	ug/L
|	Pb	207	22545.285	0.05	4.3885	0.107	2.436	ug/L
|	Pb	208	105561.344	0.25	4.5187	0.129	2.850	ug/L
|	U	238	168433.612	0.41	4.5773	0.098	2.137	ug/L
|>	Bi	209	409876.807	409876.81				ug/L

Sample ID: L1011017608SD WG348052-07
Report Date/Time: Wednesday, November 24, 2010 12:01:38
Page 1

Approved: November 29, 2010

Na	23	7507402.088	26.07	1.2355	0.021	1.691	mg/L
Mg	24	5371767.198	18.68	1.3417	0.012	0.900	mg/L
K	39	960929.439	1.75	0.0482	0.003	7.058	mg/L
Ca	43	82211.713	0.29	3.9557	0.043	1.097	mg/L
Fe	54	5078462.825	17.49	7.0289	0.291	4.139	mg/L
Fe	57	2063537.080	7.16	7.2024	0.354	4.920	mg/L
> Sc-1	45	287581.237	287581.24				mg/L
Cl	35	92391.546	67265.35				mg/L
Kr	83	41.334	-4.00				mg/L
Br	81	34116.769	25283.53				mg/L
P	31	36305.168	25810.96				mg/L
S	34	227523.840	54365.04				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		99.825			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		96.365			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		96.882			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		94.728			
Na	23					

Sample ID: L1011017608SD WG348052-07
Report Date/Time: Wednesday, November 24, 2010 12:01:38
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011017608SD WG348052-07
Report Date/Time: Wednesday, November 24, 2010 12:01:38
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011017602

Sample Date/Time: Wednesday, November 24, 2010 12:06:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 25
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36951.537	0.02				ug/L
|	Be	9	8.667	0.00	0.0541	0.016	29.281	ug/L
|	Al	27	27705.273	0.07	3.1792	0.384	12.089	ug/L
|>	Sc	45	288452.617	288452.62				ug/L
⌈	Ti	49	100.011	0.00	0.0147	0.060	404.810	ug/L
|	V	51	3237.465	0.00	0.0492	0.003	5.798	ug/L
|	Cr	52	9525.630	0.00	0.0891	0.009	10.658	ug/L
|	Cr	53	253.362	-0.00	-0.1261	0.072	57.472	ug/L
|	Mn	55	1664957.345	3.86	122.4910	0.809	0.660	ug/L
|	Co	59	578.689	0.00	0.0276	0.001	4.299	ug/L
|	Ni	60	2007.555	0.00	0.7885	0.032	4.110	ug/L
|	Cu	65	977.058	0.00	0.3221	0.006	1.798	ug/L
|	Zn	66	3576.675	0.01	1.5947	0.025	1.592	ug/L
|>	Ge	72	431146.905	431146.91				ug/L
|	As	75	-84.744	0.00	0.1393	0.029	20.978	ug/L
|	Se	77	66.674	-0.00	0.0207	0.608	2932.393	ug/L
|	Se	82	14.690	0.00	0.1982	0.024	11.883	ug/L
⌊	Rb	85	4609.442	0.01				mg/L
	Y	89	232061.404	-18732.69				ug/L
	Rh	103	23.334	4.33				ug/L
⌈	Mo	98	62.087	0.00	0.0503	0.006	11.799	ug/L
|	Ag	107	29.667	-0.00	-0.0706	0.001	1.301	ug/L
|	Cd	114	3.871	-0.00	-0.0107	0.006	53.541	ug/L
|>	In	115	316027.965	316027.97				ug/L
|	Sn	118	1141.265	0.00	0.0173	0.005	31.712	ug/L
⌊	Sb	123	131.832	0.00	0.0441	0.004	8.947	ug/L
⌈	Ba	135	99288.832	0.23	61.1484	0.808	1.322	ug/L
|	Ce	140	416.717	0.00				ug/L
|>	Tb	159	422792.521	422792.52				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	28.334	-0.00	0.0063	0.000	2.732	ug/L
|	Tl	205	43.338	-0.00	-0.0017	0.002	135.165	ug/L
|	Pb	206	545.687	-0.00	-0.0085	0.002	19.373	ug/L
|	Pb	207	460.015	-0.00	-0.0019	0.002	106.571	ug/L
|	Pb	208	2132.444	-0.00	-0.0072	0.001	20.369	ug/L
|	U	238	133.002	0.00	0.0097	0.000	0.042	ug/L
|>	Bi	209	422909.499	422909.50				ug/L

Approved: November 29, 2010

Na	23	3423988.281	11.83	0.5592	0.016	2.820	mg/L	
Mg	24	4302506.099	14.92	1.0709	0.029	2.726	mg/L	
K	39	5449004.481	17.30	0.4985	0.008	1.589	mg/L	
Ca	43	300216.809	1.04	14.4241	0.200	1.390	mg/L	
Fe	54	89370.293	0.12	0.0528	0.006	11.657	mg/L	
Fe	57	34860.843	0.10	0.0931	0.006	6.398	mg/L	
> Sc-1	45	288452.617	288452.62				mg/L	
Cl	35	36914.682	11788.49				mg/L	
Kr	83	35.667	-9.67				mg/L	
Br	81	11071.468	2238.23				mg/L	
P	31	16257.884	5763.67				mg/L	
S	34	187801.798	14643.00				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		97.701			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		97.102			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		99.958			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		97.740			
Na	23					

Sample ID: L1011017602
Report Date/Time: Wednesday, November 24, 2010 12:08:22
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011017602PS WG348660-01

Sample Date/Time: Wednesday, November 24, 2010 12:12:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	38307.021	0.02				ug/L
|	Be	9	19574.473	0.07	50.9875	1.213	2.379	ug/L
|	Al	27	325499.526	1.14	48.8485	1.359	2.782	ug/L
⌊>	Sc	45	279640.232	279640.23				ug/L
⌜	Ti	49	106.678	0.00	0.0326	0.050	155.074	ug/L
|	V	51	503864.569	1.22	50.1847	1.222	2.435	ug/L
|	Cr	52	441525.829	1.05	51.3388	1.337	2.604	ug/L
|	Cr	53	50968.025	0.12	51.7952	1.299	2.508	ug/L
|	Mn	55	2274455.505	5.51	174.9038	3.584	2.049	ug/L
|	Co	59	570100.873	1.38	51.2758	1.303	2.541	ug/L
|	Ni	60	122350.265	0.30	52.1526	1.411	2.706	ug/L
|	Cu	65	123909.599	0.30	51.4467	0.025	0.048	ug/L
|	Zn	66	71619.601	0.17	52.1870	0.659	1.264	ug/L
|>	Ge	72	412586.292	412586.29				ug/L
|	As	75	45483.399	0.11	49.9214	0.215	0.431	ug/L
|	Se	77	3357.567	0.01	50.4853	1.631	3.232	ug/L
|	Se	82	4230.954	0.01	50.7938	1.023	2.015	ug/L
⌊	Rb	85	4441.364	0.01				mg/L
	Y	89	230645.820	-20148.28				ug/L
	Rh	103	41.000	22.00				ug/L
⌜	Mo	98	74.791	0.00	0.0561	0.003	5.223	ug/L
|	Ag	107	216203.770	0.68	48.4058	1.183	2.444	ug/L
|	Cd	114	52188.985	0.16	50.2611	0.647	1.287	ug/L
|>	In	115	318859.288	318859.29				ug/L
|	Sn	118	1058.456	0.00	-0.0082	0.014	168.134	ug/L
⌊	Sb	123	161736.490	0.51	50.1194	0.422	0.842	ug/L
⌜	Ba	135	178361.690	0.42	109.6737	1.419	1.294	ug/L
|	Ce	140	470.058	0.00				ug/L
⌊>	Tb	159	423488.538	423488.54				ug/L
⌜	Ho	165	33.337	0.00				ug/L
|	Tl	203	337481.297	0.80	48.4132	0.370	0.765	ug/L
|	Tl	205	836535.050	1.97	48.9049	0.605	1.237	ug/L
|	Pb	206	284141.352	0.67	49.5027	0.233	0.470	ug/L
|	Pb	207	251719.303	0.59	48.2007	0.013	0.027	ug/L
|	Pb	208	1162184.695	2.73	48.9788	0.088	0.179	ug/L
|	U	238	1878098.143	4.42	49.2243	0.354	0.719	ug/L
⌊>	Bi	209	424425.709	424425.71				ug/L

Approved: November 29, 2010

⌈	Na	23	3345290.265	11.92	0.5634	0.008	1.339	mg/L
|	Mg	24	4165529.967	14.90	1.0692	0.010	0.939	mg/L
|	K	39	5251331.884	17.18	0.4951	0.009	1.868	mg/L
|	Ca	43	289520.787	1.03	14.3473	0.238	1.661	mg/L
|	Fe	54	89387.023	0.13	0.0568	0.004	6.683	mg/L
|	Fe	57	32228.484	0.09	0.0873	0.004	4.055	mg/L
⌊>	Sc-1	45	279640.232	279640.23				mg/L
	Cl	35	36130.487	11004.29				mg/L
	Kr	83	38.334	-7.00				mg/L
	Br	81	10820.519	1987.28				mg/L
	P	31	16398.141	5903.93				mg/L
	S	34	197990.837	24832.04				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.495			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.972			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.122			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.090			
⌈	Na	23					

Sample ID: L1011017602PS WG348660-01
Report Date/Time: Wednesday, November 24, 2010 12:15:06
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011017602SDL WG348660-02

Sample Date/Time: Wednesday, November 24, 2010 12:19:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 27
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36768.053	0.02				ug/L
|	Be	9	10.000	0.00	0.0580	0.005	8.620	ug/L
|	Al	27	6485.441	0.00	0.0624	0.067	107.883	ug/L
⌊>	Sc	45	280789.768	280789.77				ug/L
⌈	Ti	49	76.675	0.00	-0.0176	0.031	176.446	ug/L
|	V	51	3021.733	0.00	0.0356	0.008	21.650	ug/L
|	Cr	52	8791.951	0.00	0.0303	0.006	19.224	ug/L
|	Cr	53	150.016	-0.00	-0.2235	0.046	20.557	ug/L
|	Mn	55	321788.779	0.76	24.2239	0.298	1.230	ug/L
|	Co	59	297.007	0.00	0.0039	0.004	94.153	ug/L
|	Ni	60	433.680	0.00	0.1506	0.007	4.964	ug/L
|	Cu	65	288.340	0.00	0.0509	0.008	16.512	ug/L
|	Zn	66	3310.915	0.00	1.4635	0.032	2.178	ug/L
|>	Ge	72	420871.984	420871.98				ug/L
|	As	75	-127.389	0.00	0.0912	0.049	53.468	ug/L
|	Se	77	63.340	-0.00	-0.0072	0.473	6598.441	ug/L
|	Se	82	10.345	0.00	0.1514	0.059	39.227	ug/L
⌊	Rb	85	934.053	0.00				mg/L
	Y	89	227903.772	-22890.33				ug/L
	Rh	103	16.667	-2.33				ug/L
⌈	Mo	98	25.087	0.00	0.0329	0.003	7.984	ug/L
|	Ag	107	60.667	-0.00	-0.0633	0.002	3.167	ug/L
|	Cd	114	16.764	0.00	0.0022	0.007	331.062	ug/L
|>	In	115	310735.905	310735.90				ug/L
|	Sn	118	1265.815	0.00	0.0577	0.058	100.799	ug/L
⌊	Sb	123	270.041	0.00	0.0888	0.003	3.882	ug/L
⌈	Ba	135	19816.482	0.05	12.2136	0.124	1.014	ug/L
|	Ce	140	100.011	0.00				ug/L
⌊>	Tb	159	422194.619	422194.62				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	137.336	0.00	0.0216	0.004	17.162	ug/L
|	Tl	205	246.694	0.00	0.0099	0.002	15.182	ug/L
|	Pb	206	957.056	0.00	0.0604	0.019	30.821	ug/L
|	Pb	207	817.042	0.00	0.0637	0.021	33.328	ug/L
|	Pb	208	3812.661	0.00	0.0609	0.019	30.718	ug/L
|	U	238	240.339	0.00	0.0124	0.003	20.362	ug/L
⌊>	Bi	209	431139.298	431139.30				ug/L

Sample ID: L1011017602SDL WG348660-02
Report Date/Time: Wednesday, November 24, 2010 12:21:51
Page 1

Approved: November 29, 2010

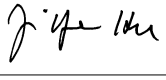
Na	23	717678.464	2.51	0.1168	0.004	3.347	mg/L	
Mg	24	895142.558	3.19	0.2266	0.009	4.086	mg/L	
K	39	1498071.247	3.74	0.1059	0.005	4.437	mg/L	
Ca	43	58734.570	0.21	2.8932	0.101	3.502	mg/L	
Fe	54	36084.716	-0.06	-0.0200	0.003	12.812	mg/L	
Fe	57	12692.658	0.02	0.0169	0.003	17.147	mg/L	
> Sc-1	45	280789.768	280789.77				mg/L	
Cl	35	24288.128	-838.07				mg/L	
Kr	83	37.000	-8.33				mg/L	
Br	81	8260.077	-573.16				mg/L	
P	31	6921.072	-3573.14				mg/L	
S	34	188441.261	15282.46				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		95.372			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		95.476			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		99.816			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		99.642			
Na	23					

Sample ID: L1011017602SDL WG348660-02
Report Date/Time: Wednesday, November 24, 2010 12:21:51
Page 2

Approved: November 29, 2010



Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011017602SDL WG348660-02
Report Date/Time: Wednesday, November 24, 2010 12:21:51
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 12:26:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36332.684	0.02				ug/L
|	Be	9	19082.190	0.07	50.0563	1.274	2.544	ug/L
|	Al	27	322761.366	1.14	48.7799	1.087	2.229	ug/L
⌊>	Sc	45	277686.885	277686.89				ug/L
⌈	Ti	49	65057.454	0.16	102.4761	0.882	0.861	ug/L
|	V	51	515237.597	1.25	51.4408	1.242	2.415	ug/L
|	Cr	52	437667.079	1.04	51.0024	0.573	1.123	ug/L
|	Cr	53	50073.421	0.12	51.0025	0.812	1.592	ug/L
|	Mn	55	664796.454	1.61	51.2119	0.972	1.898	ug/L
|	Co	59	569758.719	1.38	51.3634	0.238	0.464	ug/L
|	Ni	60	119374.022	0.29	50.9970	0.764	1.497	ug/L
|	Cu	65	122236.469	0.30	50.8788	0.182	0.359	ug/L
|	Zn	66	69985.484	0.17	51.0970	0.824	1.612	ug/L
| >	Ge	72	411548.472	411548.47				ug/L
|	As	75	44924.211	0.11	49.4321	0.955	1.932	ug/L
|	Se	77	3504.298	0.01	52.8912	2.520	4.764	ug/L
|	Se	82	4256.582	0.01	51.2340	1.401	2.734	ug/L
⌊	Rb	85	1680.492	0.00				mg/L
	Y	89	231519.531	-19274.57				ug/L
	Rh	103	24.667	5.67				ug/L
⌈	Mo	98	196765.332	0.63	95.1958	1.833	1.926	ug/L
|	Ag	107	218470.492	0.70	50.1208	0.425	0.847	ug/L
|	Cd	114	51043.375	0.16	50.3731	1.556	3.089	ug/L
| >	In	115	311132.537	311132.54				ug/L
|	Sn	118	175600.406	0.56	49.4306	0.758	1.533	ug/L
⌊	Sb	123	159781.655	0.51	50.7441	0.813	1.603	ug/L
⌈	Ba	135	79252.617	0.19	48.6770	0.678	1.393	ug/L
|	Ce	140	73.341	0.00				ug/L
⌊>	Tb	159	423898.205	423898.20				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	336453.574	0.81	49.4736	0.661	1.337	ug/L
|	Tl	205	830975.248	2.01	49.7987	0.544	1.093	ug/L
|	Pb	206	273337.526	0.66	48.8100	0.342	0.700	ug/L
|	Pb	207	258690.853	0.62	50.7769	0.271	0.534	ug/L
|	Pb	208	1149300.963	2.77	49.6472	0.196	0.394	ug/L
|	U	238	1861978.503	4.50	50.0212	0.565	1.130	ug/L
⌊>	Bi	209	414094.709	414094.71				ug/L

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 12:28:36
Page 1

Approved: November 29, 2010

Na	23	28527188.079	102.69	4.8739	0.082	1.676	mg/L
Mg	24	18671682.462	67.23	4.8359	0.091	1.886	mg/L
K	39	47765624.316	170.44	4.9330	0.043	0.874	mg/L
Ca	43	100755.102	0.36	5.0236	0.131	2.598	mg/L
Fe	54	3412639.080	12.11	4.8651	0.166	3.408	mg/L
Fe	57	1386344.428	4.97	4.9957	0.097	1.944	mg/L
> Sc-1	45	277686.885	277686.89				mg/L
Cl	35	22156.519	-2969.68				mg/L
Kr	83	44.334	-1.00				mg/L
Br	81	7718.978	-1114.26				mg/L
P	31	10715.791	221.58				mg/L
S	34	197547.296	24388.50				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	102.882				
Cr	52	102.005				
Cr	53					
Mn	55	102.424				
Co	59	102.727				
Ni	60	101.994				
Cu	65	101.758				
Zn	66	102.194				
> Ge	72		93.259			
As	75	98.864				
Se	77					
Se	82	102.468				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.242				
Cd	114	100.746				
> In	115		95.598			
Sn	118					
Sb	123	101.488				
Ba	135	97.354				
Ce	140					
> Tb	159		100.219			
Ho	165					
Tl	203	98.947				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.294				
U	238	100.042				
> Bi	209		95.703			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 12:28:36

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 12:28:36
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 12:33:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40314.498	0.03				ug/L
|	Be	9	7.333	-0.00	0.0507	0.007	14.273	ug/L
|	Al	27	6001.848	-0.00	-0.0218	0.167	768.528	ug/L
⌊>	Sc	45	283482.501	283482.50				ug/L
⌈	Ti	49	56.673	0.00	-0.0483	0.048	98.425	ug/L
|	V	51	2833.731	0.00	0.0169	0.005	28.581	ug/L
|	Cr	52	8963.773	0.00	0.0493	0.019	38.641	ug/L
|	Cr	53	203.356	-0.00	-0.1704	0.072	42.177	ug/L
|	Mn	55	322.342	-0.00	-0.0122	0.001	6.167	ug/L
|	Co	59	200.337	-0.00	-0.0046	0.002	48.435	ug/L
|	Ni	60	24.334	-0.00	-0.0205	0.003	13.516	ug/L
|	Cu	65	126.002	-0.00	-0.0152	0.004	27.359	ug/L
|	Zn	66	1157.079	-0.00	-0.1036	0.011	10.809	ug/L
|>	Ge	72	421241.852	421241.85				ug/L
|	As	75	-134.224	0.00	0.0841	0.039	46.975	ug/L
|	Se	77	83.342	0.00	0.2955	0.093	31.392	ug/L
|	Se	82	10.386	0.00	0.1515	0.107	70.821	ug/L
⌊	Rb	85	13.333	0.00				mg/L
	Y	89	235541.868	-15252.23				ug/L
	Rh	103	6.667	-12.33				ug/L
⌈	Mo	98	73.270	0.00	0.0557	0.005	8.824	ug/L
|	Ag	107	23.000	-0.00	-0.0721	0.001	1.371	ug/L
|	Cd	114	8.702	-0.00	-0.0059	0.003	55.366	ug/L
|>	In	115	315835.926	315835.93				ug/L
|	Sn	118	1034.320	0.00	-0.0122	0.012	94.170	ug/L
⌊	Sb	123	224.872	0.00	0.0732	0.008	10.963	ug/L
⌈	Ba	135	12.667	-0.00	-0.0022	0.004	166.055	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	424358.453	424358.45				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	32.667	-0.00	0.0068	0.000	3.754	ug/L
|	Tl	205	60.006	-0.00	-0.0008	0.001	150.689	ug/L
|	Pb	206	511.018	-0.00	-0.0158	0.002	12.265	ug/L
|	Pb	207	437.681	-0.00	-0.0074	0.003	39.242	ug/L
|	Pb	208	2081.441	-0.00	-0.0105	0.000	2.490	ug/L
|	U	238	70.334	0.00	0.0080	0.000	5.086	ug/L
⌊>	Bi	209	428887.735	428887.73				ug/L

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 12:35:19
Page 1

Approved: November 29, 2010

⌈	Na	23	12806.145	-0.00	-0.0025	0.000	3.736	mg/L
|	Mg	24	380.046	0.00	-0.0029	0.000	0.719	mg/L
|	K	39	459104.571	0.03	-0.0017	0.002	98.946	mg/L
|	Ca	43	180.020	0.00	0.0003	0.001	399.161	mg/L
|	Fe	54	51110.512	-0.01	0.0008	0.003	385.709	mg/L
|	Fe	57	7026.504	-0.00	-0.0037	0.001	18.289	mg/L
⌊>	Sc-1	45	283482.501	283482.50				mg/L
	Cl	35	21860.538	-3265.66				mg/L
	Kr	83	32.334	-13.00				mg/L
	Br	81	8268.085	-565.15				mg/L
	P	31	10007.724	-486.49				mg/L
	S	34	192564.715	19405.91				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.456			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.043			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.328			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.121			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 12:35:19
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 12:35:19
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011017610

Sample Date/Time: Wednesday, November 24, 2010 12:39:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 28
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36583.493	0.02				ug/L
|	Be	9	12.000	0.00	0.0634	0.019	29.580	ug/L
|	Al	27	35111.586	0.10	4.4101	0.202	4.589	ug/L
⌊>	Sc	45	281528.623	281528.62				ug/L
⌈	Ti	49	86.676	0.00	-0.0029	0.049	1701.914	ug/L
|	V	51	3074.587	0.00	0.0386	0.004	9.374	ug/L
|	Cr	52	9159.619	0.00	0.0651	0.019	29.503	ug/L
|	Cr	53	206.689	-0.00	-0.1682	0.023	13.906	ug/L
|	Mn	55	5184033.517	12.23	387.9068	9.968	2.570	ug/L
|	Co	59	21437.505	0.05	1.8546	0.039	2.103	ug/L
|	Ni	60	2994.812	0.01	1.2122	0.042	3.495	ug/L
|	Cu	65	359.677	0.00	0.0790	0.006	7.152	ug/L
|	Zn	66	4732.834	0.01	2.4723	0.074	2.987	ug/L
|>	Ge	72	423983.855	423983.85				ug/L
|	As	75	19.006	0.00	0.2479	0.046	18.655	ug/L
|	Se	77	53.339	-0.00	-0.1596	0.602	377.472	ug/L
|	Se	82	40.392	0.00	0.5007	0.110	21.971	ug/L
⌊	Rb	85	680.697	0.00				mg/L
	Y	89	229438.595	-21355.50				ug/L
	Rh	103	14.000	-5.00				ug/L
⌈	Mo	98	56.832	0.00	0.0478	0.003	5.746	ug/L
|	Ag	107	35.667	-0.00	-0.0692	0.002	3.346	ug/L
|	Cd	114	49.705	0.00	0.0339	0.011	33.119	ug/L
|>	In	115	316172.459	316172.46				ug/L
|	Sn	118	890.573	-0.00	-0.0526	0.002	4.597	ug/L
⌊	Sb	123	122.911	0.00	0.0413	0.009	22.970	ug/L
⌈	Ba	135	12743.910	0.03	7.8960	0.107	1.356	ug/L
|	Ce	140	393.380	0.00				ug/L
⌊>	Tb	159	419807.359	419807.36				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	39.334	-0.00	0.0078	0.001	13.738	ug/L
|	Tl	205	86.676	-0.00	0.0008	0.002	262.786	ug/L
|	Pb	206	709.366	0.00	0.0194	0.004	20.353	ug/L
|	Pb	207	592.690	0.00	0.0229	0.002	9.863	ug/L
|	Pb	208	2770.512	0.00	0.0191	0.003	14.393	ug/L
|	U	238	125.669	0.00	0.0095	0.000	3.052	ug/L
⌊>	Bi	209	425715.097	425715.10				ug/L

Approved: November 29, 2010

Na	23	3978582.260	14.09	0.6669	0.019	2.859	mg/L
Mg	24	3081387.242	10.96	0.7857	0.036	4.594	mg/L
K	39	1100989.818	2.32	0.0647	0.003	4.723	mg/L
Ca	43	38042.794	0.13	1.8647	0.015	0.815	mg/L
Fe	54	55666.420	0.01	0.0078	0.001	14.927	mg/L
Fe	57	18659.291	0.04	0.0382	0.005	12.787	mg/L
> Sc-1	45	281528.623	281528.62				mg/L
Cl	35	83647.735	58521.54				mg/L
Kr	83	31.667	-13.67				mg/L
Br	81	22245.384	13412.15				mg/L
P	31	8496.282	-1997.93				mg/L
S	34	223424.628	50265.83				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		96.077			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		97.146			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		99.252			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		98.388			
Na	23					

Sample ID: L1011017610
Report Date/Time: Wednesday, November 24, 2010 12:42:04
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011017612

Sample Date/Time: Wednesday, November 24, 2010 12:46:39
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36148.704	0.02				ug/L
|	Be	9	2.667	-0.00	0.0391	0.003	7.810	ug/L
|	Al	27	7686.300	0.01	0.2540	0.064	25.232	ug/L
⌊>	Sc	45	278412.304	278412.30				ug/L
⌈	Ti	49	63.340	0.00	-0.0398	0.036	90.127	ug/L
|	V	51	3873.067	0.00	0.1114	0.011	9.731	ug/L
|	Cr	52	9053.521	0.00	0.0391	0.018	46.307	ug/L
|	Cr	53	236.693	-0.00	-0.1412	0.046	32.925	ug/L
|	Mn	55	192909.296	0.45	14.2087	0.152	1.068	ug/L
|	Co	59	2354.968	0.00	0.1812	0.007	3.767	ug/L
|	Ni	60	1341.770	0.00	0.5187	0.008	1.488	ug/L
|	Cu	65	538.353	0.00	0.1483	0.006	3.981	ug/L
|	Zn	66	4116.222	0.01	1.9875	0.017	0.857	ug/L
|>	Ge	72	429682.232	429682.23				ug/L
|	As	75	197.606	0.00	0.4352	0.020	4.575	ug/L
|	Se	77	53.339	-0.00	-0.1729	0.465	269.155	ug/L
|	Se	82	22.015	0.00	0.2828	0.055	19.375	ug/L
⌊	Rb	85	4427.358	0.01				mg/L
	Y	89	230574.053	-20220.05				ug/L
	Rh	103	10.000	-9.00				ug/L
⌈	Mo	98	181.679	0.00	0.1074	0.006	5.746	ug/L
|	Ag	107	22.667	-0.00	-0.0721	0.000	0.194	ug/L
|	Cd	114	16.136	0.00	0.0013	0.005	354.398	ug/L
|>	In	115	315433.393	315433.39				ug/L
|	Sn	118	948.178	-0.00	-0.0360	0.002	6.393	ug/L
⌊	Sb	123	105.953	0.00	0.0361	0.002	6.143	ug/L
⌈	Ba	135	10032.465	0.02	6.3204	0.061	0.968	ug/L
|	Ce	140	223.358	0.00				ug/L
⌊>	Tb	159	412650.828	412650.83				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	38.667	-0.00	0.0078	0.001	15.947	ug/L
|	Tl	205	106.678	-0.00	0.0020	0.001	33.183	ug/L
|	Pb	206	539.353	-0.00	-0.0093	0.003	31.853	ug/L
|	Pb	207	472.349	-0.00	0.0008	0.004	522.580	ug/L
|	Pb	208	2158.446	-0.00	-0.0057	0.000	6.162	ug/L
|	U	238	81.668	0.00	0.0083	0.000	4.741	ug/L
⌊>	Bi	209	421419.472	421419.47				ug/L

Sample ID: L1011017612
Report Date/Time: Wednesday, November 24, 2010 12:48:50
Page 1

Approved: November 29, 2010

Na	23	3632778.935	13.02	0.6159	0.031	4.994	mg/L	
Mg	24	1492732.794	5.37	0.3836	0.020	5.310	mg/L	
K	39	5299861.983	17.46	0.5031	0.015	3.053	mg/L	
Ca	43	44473.145	0.16	2.2108	0.140	6.315	mg/L	
Fe	54	52337.744	0.00	0.0040	0.005	132.754	mg/L	
Fe	57	15413.417	0.03	0.0272	0.004	14.194	mg/L	
Sc-1	45	278412.304	278412.30				mg/L	
Cl	35	49226.870	24100.67				mg/L	
Kr	83	36.667	-8.67				mg/L	
Br	81	16842.844	8009.61				mg/L	
P	31	32987.659	22493.45				mg/L	
S	34	198700.996	25542.20				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		97.369			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		96.919			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		97.560			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		97.395			
Na	23					

Sample ID: L1011017612
Report Date/Time: Wednesday, November 24, 2010 12:48:50
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011017612
Report Date/Time: Wednesday, November 24, 2010 12:48:50
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011017614

Sample Date/Time: Wednesday, November 24, 2010 12:53:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 30
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38474.237	0.03				ug/L
|	Be	9	13.333	0.00	0.0670	0.005	8.177	ug/L
|	Al	27	95066.729	0.32	13.7469	0.407	2.961	ug/L
⌊>	Sc	45	277052.804	277052.80				ug/L
⌈	Ti	49	240.027	0.00	0.2293	0.042	18.172	ug/L
|	V	51	3528.829	0.00	0.0804	0.014	17.789	ug/L
|	Cr	52	9323.104	0.00	0.0765	0.020	25.503	ug/L
|	Cr	53	263.363	-0.00	-0.1136	0.079	69.735	ug/L
|	Mn	55	692410.742	1.62	51.4144	0.684	1.330	ug/L
|	Co	59	18068.501	0.04	1.5480	0.033	2.126	ug/L
|	Ni	60	5128.366	0.01	2.0824	0.028	1.331	ug/L
|	Cu	65	413.679	0.00	0.0996	0.005	4.862	ug/L
|	Zn	66	8834.266	0.02	5.4098	2.186	40.417	ug/L
|>	Ge	72	427041.873	427041.87				ug/L
|	As	75	-39.782	0.00	0.1857	0.020	10.827	ug/L
|	Se	77	80.008	0.00	0.2332	0.414	177.425	ug/L
|	Se	82	16.681	0.00	0.2226	0.028	12.694	ug/L
⌊	Rb	85	883.048	0.00				mg/L
	Y	89	229506.742	-21287.36				ug/L
	Rh	103	6.000	-13.00				ug/L
⌈	Mo	98	37.124	0.00	0.0385	0.001	2.401	ug/L
|	Ag	107	24.000	-0.00	-0.0718	0.001	1.574	ug/L
|	Cd	114	76.695	0.00	0.0601	0.017	28.209	ug/L
|>	In	115	316032.898	316032.90				ug/L
|	Sn	118	835.768	-0.00	-0.0678	0.004	6.249	ug/L
⌊	Sb	123	129.328	0.00	0.0433	0.002	5.618	ug/L
⌈	Ba	135	8853.007	0.02	5.5283	0.139	2.512	ug/L
|	Ce	140	1086.835	0.00				ug/L
⌊>	Tb	159	416243.203	416243.20				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	47.667	-0.00	0.0090	0.001	6.585	ug/L
|	Tl	205	113.345	-0.00	0.0023	0.001	57.616	ug/L
|	Pb	206	741.702	0.00	0.0246	0.001	5.934	ug/L
|	Pb	207	658.028	0.00	0.0350	0.004	12.685	ug/L
|	Pb	208	2872.520	0.00	0.0230	0.002	7.726	ug/L
|	U	238	123.335	0.00	0.0094	0.000	2.619	ug/L
⌊>	Bi	209	427068.953	427068.95				ug/L

Sample ID: L1011017614
Report Date/Time: Wednesday, November 24, 2010 12:55:35
Page 1

Approved: November 29, 2010

⌈	Na	23	3053518.709	10.98	0.5188	0.012	2.293	mg/L
|	Mg	24	1501927.682	5.42	0.3873	0.011	2.855	mg/L
|	K	39	998916.298	2.01	0.0558	0.003	5.523	mg/L
|	Ca	43	19768.164	0.07	0.9811	0.029	2.931	mg/L
|	Fe	54	116985.221	0.24	0.0980	0.004	4.275	mg/L
|	Fe	57	42454.263	0.13	0.1257	0.008	6.560	mg/L
⌊>	Sc-1	45	277052.804	277052.80				mg/L
	Cl	35	31386.518	6260.32				mg/L
	Kr	83	36.667	-8.67				mg/L
	Br	81	13609.254	4776.02				mg/L
	P	31	7631.587	-2862.62				mg/L
	S	34	209394.933	36236.13				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.770			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.103			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.409			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.701			
⌈	Na	23					

Sample ID: L1011017614
Report Date/Time: Wednesday, November 24, 2010 12:55:35
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011017614
Report Date/Time: Wednesday, November 24, 2010 12:55:35
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011017616

Sample Date/Time: Wednesday, November 24, 2010 13:00:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 31
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37737.795	0.02				ug/L
|	Be	9	10.667	0.00	0.0590	0.013	21.187	ug/L
|	Al	27	93149.056	0.30	12.8801	0.490	3.808	ug/L
⌊>	Sc	45	288627.694	288627.69				ug/L
⌈	Ti	49	216.691	0.00	0.1932	0.049	25.271	ug/L
|	V	51	3421.350	0.00	0.0695	0.014	19.821	ug/L
|	Cr	52	9072.205	0.00	0.0459	0.023	49.023	ug/L
|	Cr	53	216.691	-0.00	-0.1606	0.057	35.604	ug/L
|	Mn	55	698054.663	1.63	51.7488	1.062	2.053	ug/L
|	Co	59	19015.922	0.04	1.6279	0.030	1.813	ug/L
|	Ni	60	5018.643	0.01	2.0336	0.025	1.251	ug/L
|	Cu	65	354.677	0.00	0.0757	0.005	6.566	ug/L
|	Zn	66	6107.926	0.01	3.4266	0.104	3.036	ug/L
|>	Ge	72	427750.540	427750.54				ug/L
|	As	75	-33.455	0.00	0.1926	0.028	14.583	ug/L
|	Se	77	80.008	0.00	0.2285	0.265	116.117	ug/L
|	Se	82	13.328	0.00	0.1840	0.072	39.077	ug/L
⌊	Rb	85	771.704	0.00				mg/L
	Y	89	226369.463	-24424.63				ug/L
	Rh	103	8.667	-10.33				ug/L
⌈	Mo	98	38.863	0.00	0.0392	0.002	4.243	ug/L
|	Ag	107	24.667	-0.00	-0.0717	0.001	0.727	ug/L
|	Cd	114	85.599	0.00	0.0686	0.017	25.312	ug/L
|>	In	115	317077.769	317077.77				ug/L
|	Sn	118	741.894	-0.00	-0.0947	0.002	1.643	ug/L
⌊	Sb	123	138.664	0.00	0.0461	0.001	2.322	ug/L
⌈	Ba	135	8542.733	0.02	5.2949	0.095	1.803	ug/L
|	Ce	140	1493.595	0.00				ug/L
⌊>	Tb	159	419361.949	419361.95				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	40.334	-0.00	0.0079	0.000	2.737	ug/L
|	Tl	205	80.008	-0.00	0.0004	0.001	161.212	ug/L
|	Pb	206	700.365	0.00	0.0173	0.001	4.777	ug/L
|	Pb	207	616.692	0.00	0.0269	0.004	16.431	ug/L
|	Pb	208	2844.855	0.00	0.0217	0.002	9.408	ug/L
|	U	238	116.335	0.00	0.0092	0.000	1.441	ug/L
⌊>	Bi	209	427629.316	427629.32				ug/L

Sample ID: L1011017616
Report Date/Time: Wednesday, November 24, 2010 13:02:22
Page 1

Approved: November 29, 2010

Na	23	2940180.876	10.14	0.4790	0.017	3.597	mg/L	
Mg	24	1458657.203	5.05	0.3609	0.014	3.825	mg/L	
K	39	919705.769	1.60	0.0437	0.003	6.633	mg/L	
Ca	43	18859.690	0.06	0.8975	0.034	3.775	mg/L	
Fe	54	114631.971	0.21	0.0881	0.010	10.792	mg/L	
Fe	57	41701.087	0.12	0.1172	0.014	12.148	mg/L	
> Sc-1	45	288627.694	288627.69				mg/L	
Cl	35	37209.115	12082.92				mg/L	
Kr	83	39.000	-6.33				mg/L	
Br	81	12219.461	3386.23				mg/L	
P	31	8211.383	-2282.83				mg/L	
S	34	216163.984	43005.18				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		96.931			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		97.424			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		99.147			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		98.831			
Na	23					

Sample ID: L1011017616
Report Date/Time: Wednesday, November 24, 2010 13:02:22
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011017616
Report Date/Time: Wednesday, November 24, 2010 13:02:22
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011042101

Sample Date/Time: Wednesday, November 24, 2010 13:06:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 32
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42506.835	0.05				ug/L
|	Be	9	12.000	0.00	0.0647	0.005	7.523	ug/L
|	Al	27	168181.928	0.61	26.0004	3.028	11.645	ug/L
⌊>	Sc	45	267053.705	267053.71				ug/L
⌈	Ti	49	2747.319	0.01	4.5240	0.213	4.714	ug/L
|	V	51	4485.954	0.01	0.2231	0.007	3.358	ug/L
|	Cr	52	13802.991	0.02	0.7720	0.031	4.048	ug/L
|	Cr	53	603.412	0.00	0.2910	0.081	27.902	ug/L
|	Mn	55	2096866.452	5.48	173.7592	1.210	0.696	ug/L
|	Co	59	4841.220	0.01	0.4471	0.005	1.018	ug/L
|	Ni	60	9006.479	0.02	4.1087	0.106	2.581	ug/L
|	Cu	65	4470.711	0.01	1.9370	0.062	3.182	ug/L
|	Zn	66	5843.766	0.01	3.7275	0.034	0.916	ug/L
|>	Ge	72	382804.788	382804.79				ug/L
|	As	75	201.454	0.00	0.4648	0.044	9.526	ug/L
|	Se	77	73.341	0.00	0.2560	0.577	225.502	ug/L
|	Se	82	41.395	0.00	0.5637	0.138	24.393	ug/L
⌊	Rb	85	5774.058	0.02				mg/L
	Y	89	208114.053	-42680.04				ug/L
	Rh	103	1056.733	1037.73				ug/L
⌈	Mo	98	32818.957	0.11	17.1069	0.208	1.214	ug/L
|	Ag	107	54.334	-0.00	-0.0638	0.001	1.889	ug/L
|	Cd	114	18.976	0.00	0.0058	0.029	490.489	ug/L
|>	In	115	289035.885	289035.88				ug/L
|	Sn	118	10745.904	0.03	2.9749	0.016	0.521	ug/L
⌊	Sb	123	235.250	0.00	0.0833	0.006	6.717	ug/L
⌈	Ba	135	12959.189	0.03	7.7574	0.223	2.870	ug/L
|	Ce	140	2043.747	0.00				ug/L
⌊>	Tb	159	434564.773	434564.77				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	224.671	0.00	0.0402	0.002	5.332	ug/L
|	Tl	205	570.073	0.00	0.0350	0.004	10.626	ug/L
|	Pb	206	3156.863	0.01	0.5455	0.005	0.873	ug/L
|	Pb	207	2645.376	0.01	0.5077	0.016	3.153	ug/L
|	Pb	208	12426.499	0.03	0.5210	0.008	1.463	ug/L
|	U	238	74980.477	0.21	2.3221	0.008	0.345	ug/L
⌊>	Bi	209	360117.965	360117.96				ug/L

Sample ID: L1011042101
Report Date/Time: Wednesday, November 24, 2010 13:09:08
Page 1

Approved: November 29, 2010

Na	23	267339598.992	1001.50	47.5524	1.744	3.667	mg/L	
Mg	24	147561768.415	552.76	39.7804	1.233	3.100	mg/L	
K	39	13100975.246	47.49	1.3728	0.052	3.782	mg/L	
Ca	43	1213374.334	4.54	63.0132	1.595	2.531	mg/L	
Fe	54	217864.767	0.63	0.2561	0.010	3.923	mg/L	
Fe	57	103658.771	0.36	0.3621	0.016	4.538	mg/L	
Sc-1	45	267053.705	267053.71				mg/L	
Cl	35	133225.626	108099.43				mg/L	
Kr	83	31.334	-14.00				mg/L	
Br	81	22387.712	13554.48				mg/L	
P	31	18112.478	7618.27				mg/L	
S	34	3181296.297	3008137.50				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		86.746			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		88.808			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		102.741			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		83.228			
Na	23					

Sample ID: L1011042101
Report Date/Time: Wednesday, November 24, 2010 13:09:08
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011060811

Sample Date/Time: Wednesday, November 24, 2010 13:13:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 33
Method File: C:\elandata\Method\6020a.mth
Sample Description: 50

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	44532.576	0.04				ug/L
|	Be	9	61.334	0.00	0.1846	0.053	28.978	ug/L
|	Al	27	12514286.199	42.67	1824.5392	20.698	1.134	ug/L
⌊>	Sc	45	293169.101	293169.10				ug/L
⌜	Ti	49	12882.924	0.03	19.5849	1.234	6.301	ug/L
|	V	51	51217.368	0.11	4.7243	0.104	2.211	ug/L
|	Cr	52	52059.684	0.10	5.0073	0.123	2.457	ug/L
|	Cr	53	5318.612	0.01	4.9186	0.059	1.207	ug/L
|	Mn	55	559318.381	1.32	41.7833	0.514	1.229	ug/L
|	Co	59	18460.544	0.04	1.5924	0.020	1.245	ug/L
|	Ni	60	11275.469	0.03	4.6461	0.219	4.719	ug/L
|	Cu	65	6923.800	0.02	2.7333	0.124	4.545	ug/L
|	Zn	66	10423.868	0.02	6.5739	0.123	1.874	ug/L
|>	Ge	72	424419.285	424419.29				ug/L
|	As	75	1458.988	0.00	1.7780	0.041	2.327	ug/L
|	Se	77	50.005	-0.00	-0.2046	0.524	256.228	ug/L
|	Se	82	7.336	0.00	0.1135	0.110	97.172	ug/L
⌊	Rb	85	25983.306	0.06				mg/L
	Y	89	254414.213	3620.12				ug/L
	Rh	103	13.333	-5.67				ug/L
⌜	Mo	98	222.164	0.00	0.1241	0.003	2.499	ug/L
|	Ag	107	52.667	-0.00	-0.0656	0.003	3.938	ug/L
|	Cd	114	47.442	0.00	0.0306	0.011	37.227	ug/L
|>	In	115	323585.811	323585.81				ug/L
|	Sn	118	1036.187	-0.00	-0.0187	0.006	29.946	ug/L
⌊	Sb	123	218.123	0.00	0.0695	0.004	5.601	ug/L
⌜	Ba	135	6497.175	0.01	3.8097	0.101	2.647	ug/L
|	Ce	140	152722.824	0.34				ug/L
⌊>	Tb	159	442991.408	442991.41				ug/L
⌜	Ho	165	2037.079	0.00				ug/L
|	Tl	203	140.002	0.00	0.0220	0.003	12.767	ug/L
|	Tl	205	310.036	0.00	0.0135	0.002	17.167	ug/L
|	Pb	206	6592.906	0.01	1.0276	0.037	3.612	ug/L
|	Pb	207	5211.410	0.01	0.8923	0.015	1.691	ug/L
|	Pb	208	24959.094	0.05	0.9386	0.021	2.188	ug/L
|	U	238	4616.778	0.01	0.1251	0.002	1.820	ug/L
⌊>	Bi	209	431800.392	431800.39				ug/L

Sample ID: L1011060811
Report Date/Time: Wednesday, November 24, 2010 13:15:55
Page 1

Approved: November 29, 2010

Na	23	1003769.539	3.38	0.1580	0.004	2.433	mg/L
Mg	24	30880785.426	105.35	7.5792	0.199	2.621	mg/L
K	39	5206178.880	16.17	0.4657	0.010	2.252	mg/L
Ca	43	248186.681	0.85	11.7306	0.218	1.859	mg/L
Fe	54	2314662.118	7.71	3.0996	0.050	1.610	mg/L
Fe	57	967743.795	3.28	3.2933	0.030	0.908	mg/L
> Sc-1	45	293169.101	293169.10				mg/L
Cl	35	25185.008	58.81				mg/L
Kr	83	38.000	-7.33				mg/L
Br	81	8751.166	-82.07				mg/L
P	31	40805.809	30311.60				mg/L
S	34	211406.958	38248.16				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		96.176			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		99.424			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		104.733			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		99.795			
Na	23					

Sample ID: L1011060811
Report Date/Time: Wednesday, November 24, 2010 13:15:55

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Wednesday, November 24, 2010 13:20:29
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40933.621	0.04				ug/L
|	Be	9	4.667	-0.00	0.0447	0.003	7.693	ug/L
|	Al	27	25964559.866	95.89	4100.4401	210.537	5.135	ug/L
⌊>	Sc	45	270939.631	270939.63				ug/L
⌈	Ti	49	57805.699	0.14	91.6696	0.945	1.031	ug/L
|	V	51	2485.724	-0.00	-0.0097	0.012	121.216	ug/L
|	Cr	52	8962.772	0.00	0.0809	0.016	19.930	ug/L
|	Cr	53	1303.549	0.00	0.9725	0.079	8.130	ug/L
|	Mn	55	3329.921	0.01	0.2220	0.008	3.485	ug/L
|	Co	59	2140.917	0.00	0.1722	0.003	1.527	ug/L
|	Ni	60	1468.789	0.00	0.6015	0.024	4.030	ug/L
|	Cu	65	983.058	0.00	0.3459	0.008	2.289	ug/L
|	Zn	66	2168.590	0.00	0.6795	0.032	4.684	ug/L
⌊>	Ge	72	408739.149	408739.15				ug/L
|	As	75	-129.907	0.00	0.0844	0.105	124.015	ug/L
|	Se	77	100.011	0.00	0.5919	0.274	46.221	ug/L
|	Se	82	8.702	0.00	0.1347	0.084	62.445	ug/L
⌊	Rb	85	1493.460	0.00				mg/L
	Y	89	218407.624	-32386.47				ug/L
	Rh	103	9.667	-9.33				ug/L
⌈	Mo	98	180876.587	0.58	86.8100	0.922	1.062	ug/L
|	Ag	107	58.667	-0.00	-0.0639	0.001	0.992	ug/L
|	Cd	114	116.504	0.00	0.0997	0.015	15.368	ug/L
⌊>	In	115	313618.148	313618.15				ug/L
|	Sn	118	1019.919	-0.00	-0.0143	0.006	40.346	ug/L
⌊	Sb	123	152.327	0.00	0.0509	0.004	8.320	ug/L
⌈	Ba	135	53.001	0.00	0.0218	0.003	12.260	ug/L
|	Ce	140	183.353	0.00				ug/L
⌊>	Tb	159	434216.524	434216.52				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	86.335	0.00	0.0150	0.001	5.730	ug/L
|	Tl	205	173.352	0.00	0.0062	0.002	28.588	ug/L
|	Pb	206	649.361	0.00	0.0133	0.006	48.051	ug/L
|	Pb	207	525.686	0.00	0.0139	0.006	44.990	ug/L
|	Pb	208	2518.484	0.00	0.0126	0.001	10.000	ug/L
|	U	238	16.000	-0.00	0.0066	0.000	1.383	ug/L
⌊>	Bi	209	409976.275	409976.28				ug/L

Sample ID: QC Std 4
Report Date/Time: Wednesday, November 24, 2010 13:22:41
Page 1

Approved: November 29, 2010

Na	23	66702606.182	246.31	11.6934	0.487	4.167	mg/L
Mg	24	17703964.018	65.36	4.7011	0.104	2.202	mg/L
K	39	44243439.852	161.74	4.6811	0.117	2.502	mg/L
Ca	43	276608.243	1.02	14.1519	0.417	2.950	mg/L
Fe	54	7873813.754	28.88	11.6034	0.240	2.069	mg/L
Fe	57	3250060.419	11.98	12.0540	0.646	5.362	mg/L
Sc-1	45	270939.631	270939.63				mg/L
Cl	35	1798941.268	1773815.07				mg/L
Kr	83	34.334	-11.00				mg/L
Br	81	8077.930	-755.31				mg/L
P	31	1589664.419	1579170.21				mg/L
S	34	350608.940	177450.14				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		92.623			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		96.361			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		102.659			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		94.751			
Na	23					

Sample ID: QC Std 4
Report Date/Time: Wednesday, November 24, 2010 13:22:41

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Wednesday, November 24, 2010 13:22:41
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Wednesday, November 24, 2010 13:27:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38775.124	0.03				ug/L
|	Be	9	38631.824	0.15	105.6060	1.587	1.503	ug/L
|	Al	27	36438984.681	136.85	5852.0454	209.345	3.577	ug/L
⌊>	Sc	45	266352.169	266352.17				ug/L
⌈	Ti	49	76210.358	0.19	121.4492	3.598	2.963	ug/L
|	V	51	967561.876	2.37	97.9414	0.622	0.636	ug/L
|	Cr	52	832569.360	2.03	99.0452	1.513	1.528	ug/L
|	Cr	53	99438.530	0.24	102.8223	0.845	0.821	ug/L
|	Mn	55	1320488.275	3.24	102.9290	0.545	0.530	ug/L
|	Co	59	1112645.170	2.73	101.4675	1.009	0.994	ug/L
|	Ni	60	240531.163	0.59	103.9662	0.559	0.538	ug/L
|	Cu	65	242907.182	0.60	102.3233	0.848	0.829	ug/L
|	Zn	66	136556.440	0.33	101.7632	0.617	0.606	ug/L
|>	Ge	72	406911.197	406911.20				ug/L
|	As	75	88782.737	0.22	98.5811	0.958	0.971	ug/L
|	Se	77	6479.415	0.02	99.7278	4.297	4.309	ug/L
|	Se	82	7821.470	0.02	95.1969	1.205	1.266	ug/L
⌊	Rb	85	1972.214	0.00				mg/L
	Y	89	209206.966	-41587.13				ug/L
	Rh	103	35.334	16.33				ug/L
⌈	Mo	98	237972.183	0.77	116.6379	0.762	0.653	ug/L
|	Ag	107	384548.482	1.25	89.4412	1.986	2.221	ug/L
|	Cd	114	103593.326	0.34	103.6154	0.440	0.424	ug/L
|>	In	115	307076.161	307076.16				ug/L
|	Sn	118	1405.565	0.00	0.1025	0.007	6.794	ug/L
⌊	Sb	123	316384.364	1.03	101.7942	0.547	0.538	ug/L
⌈	Ba	135	153205.665	0.36	93.0216	1.065	1.145	ug/L
|	Ce	140	306.702	0.00				ug/L
⌊>	Tb	159	428810.835	428810.84				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	650324.542	1.65	100.6804	1.293	1.284	ug/L
|	Tl	205	1619512.674	4.12	102.1877	0.898	0.879	ug/L
|	Pb	206	548604.038	1.39	103.2632	1.283	1.243	ug/L
|	Pb	207	481210.132	1.22	99.5399	0.923	0.928	ug/L
|	Pb	208	2228798.536	5.66	101.4769	1.339	1.320	ug/L
|	U	238	3593054.599	9.14	101.6273	0.771	0.759	ug/L
⌊>	Bi	209	393286.332	393286.33				ug/L

Sample ID: QC Std 5
Report Date/Time: Wednesday, November 24, 2010 13:29:28
Page 1

Approved: November 29, 2010

Na	23	88891124.134	333.85	15.8500	0.638	4.022	mg/L
Mg	24	23602041.090	88.67	6.3785	0.221	3.467	mg/L
K	39	58655578.283	218.66	6.3293	0.056	0.890	mg/L
Ca	43	363337.908	1.36	18.9074	0.356	1.883	mg/L
Fe	54	10488374.788	39.21	15.7506	0.400	2.538	mg/L
Fe	57	4437661.979	16.65	16.7524	0.829	4.946	mg/L
> Sc-1	45	266352.169	266352.17				mg/L
Cl	35	2392653.849	2367527.65				mg/L
Kr	83	42.001	-3.33				mg/L
Br	81	7664.938	-1168.30				mg/L
P	31	2146363.896	2135869.68				mg/L
S	34	400330.611	227171.81				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	97.941				
Cr	52	99.045				
Cr	53					
Mn	55	102.929				
Co	59	101.468				
Ni	60	103.966				
Cu	65	102.323				
Zn	66	101.763				
> Ge	72		92.209			
As	75	98.581				
Se	77					
Se	82	95.197				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	89.441				
Cd	114	103.615				
> In	115		94.351			
Sn	118					
Sb	123	101.794				
Ba	135	93.022				
Ce	140					
> Tb	159		101.381			
Ho	165					
Tl	203	100.680				
Tl	205					
Pb	206					
Pb	207					
Pb	208	101.477				
U	238	101.627				
> Bi	209		90.894			
Na	23					

Sample ID: QC Std 5
Report Date/Time: Wednesday, November 24, 2010 13:29:28

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Wednesday, November 24, 2010 13:29:28
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 13:34:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36366.177	0.02				ug/L
|	Be	9	19290.589	0.07	52.8179	1.054	1.996	ug/L
|	Al	27	308228.249	1.14	48.6290	0.640	1.316	ug/L
⌊>	Sc	45	266008.904	266008.90				ug/L
⌈	Ti	49	62440.582	0.16	100.6333	0.594	0.590	ug/L
|	V	51	487710.343	1.21	49.8092	0.303	0.608	ug/L
|	Cr	52	418657.007	1.02	49.8926	0.208	0.418	ug/L
|	Cr	53	49366.601	0.12	51.4465	1.624	3.157	ug/L
|	Mn	55	658402.928	1.64	51.9010	0.363	0.699	ug/L
|	Co	59	556884.726	1.38	51.3642	0.128	0.248	ug/L
|	Ni	60	119823.924	0.30	52.3799	0.653	1.247	ug/L
|	Cu	65	121848.820	0.30	51.8944	0.425	0.818	ug/L
|	Zn	66	69168.784	0.17	51.6835	0.421	0.815	ug/L
|>	Ge	72	402246.087	402246.09				ug/L
|	As	75	44239.163	0.11	49.8082	0.445	0.893	ug/L
|	Se	77	3324.220	0.01	51.3192	4.013	7.820	ug/L
|	Se	82	4038.210	0.01	49.7367	0.443	0.890	ug/L
⌊	Rb	85	1622.481	0.00				mg/L
	Y	89	217696.059	-33098.04				ug/L
	Rh	103	20.000	1.00				ug/L
⌈	Mo	98	188941.395	0.62	93.1850	1.115	1.197	ug/L
|	Ag	107	209933.665	0.69	49.1016	0.681	1.387	ug/L
|	Cd	114	50724.813	0.17	51.0503	1.520	2.977	ug/L
|>	In	115	305195.236	305195.24				ug/L
|	Sn	118	175050.467	0.57	50.2385	0.515	1.025	ug/L
⌊	Sb	123	158055.933	0.52	51.1672	0.429	0.839	ug/L
⌈	Ba	135	76943.337	0.18	47.3160	0.793	1.675	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	423405.648	423405.65				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	330157.573	0.82	49.6901	0.784	1.577	ug/L
|	Tl	205	819879.213	2.03	50.2883	0.476	0.946	ug/L
|	Pb	206	269295.310	0.66	49.2211	0.520	1.057	ug/L
|	Pb	207	253428.427	0.63	50.9141	0.546	1.072	ug/L
|	Pb	208	1129410.531	2.79	49.9348	0.596	1.193	ug/L
|	U	238	1834784.100	4.53	50.4483	0.156	0.309	ug/L
⌊>	Bi	209	404581.512	404581.51				ug/L

Approved: November 29, 2010

Na	23	27288641.123	102.56	4.8675	0.094	1.940	mg/L
Mg	24	18179480.840	68.35	4.9163	0.065	1.315	mg/L
K	39	45545047.111	169.62	4.9093	0.032	0.658	mg/L
Ca	43	97889.895	0.37	5.0942	0.062	1.227	mg/L
Fe	54	3313625.532	12.27	4.9312	0.040	0.806	mg/L
Fe	57	1355886.331	5.07	5.1003	0.057	1.111	mg/L
Sc-1	45	266008.904	266008.90				mg/L
Cl	35	23239.641	-1886.55				mg/L
Kr	83	37.667	-7.67				mg/L
Br	81	7622.906	-1210.33				mg/L
P	31	9603.948	-890.26				mg/L
S	34	181779.609	8620.81				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	99.618				
Cr	52	99.785				
Cr	53					
Mn	55	103.802				
Co	59	102.728				
Ni	60	104.760				
Cu	65	103.789				
Zn	66	103.367				
Ge	72		91.151			
As	75	99.616				
Se	77					
Se	82	99.473				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.203				
Cd	114	102.101				
In	115		93.773			
Sn	118					
Sb	123	102.334				
Ba	135	94.632				
Ce	140					
Tb	159		100.103			
Ho	165					
Tl	203	99.380				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.870				
U	238	100.897				
Bi	209		93.504			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 13:36:14

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 13:36:14
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 13:40:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39411.201	0.04				ug/L
|	Be	9	5.333	-0.00	0.0466	0.003	5.658	ug/L
|	Al	27	5184.690	-0.00	-0.0922	0.100	108.213	ug/L
⌊>	Sc	45	266047.174	266047.17				ug/L
⌈	Ti	49	33.337	-0.00	-0.0833	0.024	28.397	ug/L
|	V	51	2748.851	0.00	0.0146	0.004	24.100	ug/L
|	Cr	52	8710.880	0.00	0.0423	0.016	36.938	ug/L
|	Cr	53	340.040	-0.00	-0.0256	0.103	401.023	ug/L
|	Mn	55	279.673	-0.00	-0.0150	0.001	7.820	ug/L
|	Co	59	206.004	0.00	-0.0037	0.001	15.893	ug/L
|	Ni	60	21.334	-0.00	-0.0215	0.002	7.760	ug/L
|	Cu	65	119.002	-0.00	-0.0170	0.001	8.481	ug/L
|	Zn	66	1237.089	0.00	-0.0255	0.037	145.150	ug/L
⌊>	Ge	72	412098.441	412098.44				ug/L
|	As	75	-110.226	0.00	0.1074	0.032	29.381	ug/L
|	Se	77	53.339	-0.00	-0.1371	0.237	172.625	ug/L
|	Se	82	15.409	0.00	0.2144	0.071	32.938	ug/L
⌊	Rb	85	12.667	0.00				mg/L
	Y	89	228555.205	-22238.89				ug/L
	Rh	103	5.333	-13.67				ug/L
⌈	Mo	98	102.864	0.00	0.0698	0.003	4.037	ug/L
|	Ag	107	61.667	-0.00	-0.0633	0.004	6.245	ug/L
|	Cd	114	10.449	0.00	-0.0042	0.008	197.585	ug/L
⌊>	In	115	315758.594	315758.59				ug/L
|	Sn	118	1053.522	0.00	-0.0068	0.012	178.503	ug/L
⌊	Sb	123	279.000	0.00	0.0902	0.007	7.640	ug/L
⌈	Ba	135	10.667	-0.00	-0.0034	0.002	55.354	ug/L
|	Ce	140	6.667	-0.00				ug/L
⌊>	Tb	159	424975.317	424975.32				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	38.667	-0.00	0.0078	0.001	7.395	ug/L
|	Tl	205	106.678	-0.00	0.0021	0.002	112.844	ug/L
|	Pb	206	509.685	-0.00	-0.0136	0.004	31.787	ug/L
|	Pb	207	451.015	-0.00	-0.0026	0.003	125.979	ug/L
|	Pb	208	2029.101	-0.00	-0.0105	0.004	33.912	ug/L
|	U	238	64.668	0.00	0.0079	0.000	3.297	ug/L
⌊>	Bi	209	417802.415	417802.42				ug/L

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 13:42:56
Page 1

Approved: November 29, 2010

⌈	Na	23	12709.344	-0.00	-0.0024	0.000	6.017	mg/L
|	Mg	24	320.037	-0.00	-0.0029	0.000	0.501	mg/L
|	K	39	456160.982	0.12	0.0011	0.002	188.467	mg/L
|	Ca	43	196.688	0.00	0.0017	0.003	172.477	mg/L
|	Fe	54	49971.770	0.00	0.0038	0.001	30.407	mg/L
|	Fe	57	7423.498	0.00	-0.0005	0.002	412.025	mg/L
⌊>	Sc-1	45	266047.174	266047.17				mg/L
	Cl	35	23145.424	-1980.77				mg/L
	Kr	83	29.667	-15.67				mg/L
	Br	81	8077.934	-755.30				mg/L
	P	31	10606.960	112.75				mg/L
	S	34	193605.657	20446.86				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.384			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.019			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.474			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.559			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 13:42:56
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 13:42:56

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Wednesday, November 24, 2010 13:47:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36483.205	0.02				ug/L
|	Be	9	6.000	-0.00	0.0483	0.006	11.443	ug/L
|	Al	27	2867.078	-0.01	-0.4718	0.021	4.458	ug/L
⌊>	Sc	45	269928.274	269928.27				ug/L
⌈	Ti	49	46.671	0.00	-0.0623	0.034	54.844	ug/L
|	V	51	6758.205	0.01	0.4118	0.015	3.753	ug/L
|	Cr	52	15566.597	0.02	0.8428	0.009	1.029	ug/L
|	Cr	53	1016.820	0.00	0.6619	0.119	18.023	ug/L
|	Mn	55	7121.273	0.02	0.5080	0.008	1.592	ug/L
|	Co	59	4739.170	0.01	0.4016	0.005	1.323	ug/L
|	Ni	60	3999.841	0.01	1.6652	0.070	4.220	ug/L
|	Cu	65	2244.941	0.01	0.8611	0.018	2.138	ug/L
|	Zn	66	10217.320	0.02	6.5928	0.223	3.377	ug/L
|>	Ge	72	415007.756	415007.76				ug/L
|	As	75	229.815	0.00	0.4778	0.066	13.773	ug/L
|	Se	77	116.679	0.00	0.8250	0.371	44.974	ug/L
|	Se	82	38.360	0.00	0.4877	0.057	11.689	ug/L
⌊	Rb	85	14.000	0.00				mg/L
	Y	89	225087.846	-25706.25				ug/L
	Rh	103	10.333	-8.67				ug/L
⌈	Mo	98	37.493	0.00	0.0388	0.003	7.305	ug/L
|	Ag	107	1811.182	0.00	0.3366	0.008	2.451	ug/L
|	Cd	114	213.821	0.00	0.1956	0.017	8.582	ug/L
|>	In	115	312918.036	312918.04				ug/L
|	Sn	118	860.037	-0.00	-0.0586	0.007	11.959	ug/L
⌊	Sb	123	1349.100	0.00	0.4288	0.021	4.975	ug/L
⌈	Ba	135	1201.418	0.00	0.7390	0.024	3.237	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	417738.532	417738.53				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	564.022	0.00	0.0845	0.001	0.861	ug/L
|	Tl	205	1400.238	0.00	0.0790	0.007	9.385	ug/L
|	Pb	206	2672.050	0.00	0.3704	0.017	4.653	ug/L
|	Pb	207	2450.992	0.00	0.3876	0.011	2.914	ug/L
|	Pb	208	11040.852	0.02	0.3766	0.008	2.002	ug/L
|	U	238	15033.442	0.04	0.4068	0.006	1.566	ug/L
⌊>	Bi	209	417441.075	417441.07				ug/L

Sample ID: QC Std 8
Report Date/Time: Wednesday, November 24, 2010 13:49:55
Page 1

Approved: November 29, 2010

⌈	Na	23	13460.400	0.00	-0.0023	0.000	0.658	mg/L
|	Mg	24	340.040	0.00	-0.0029	0.000	0.397	mg/L
|	K	39	457679.539	0.10	0.0004	0.000	64.471	mg/L
|	Ca	43	163.351	0.00	-0.0001	0.005	7311.505	mg/L
|	Fe	54	49902.144	-0.00	0.0026	0.002	75.438	mg/L
|	Fe	57	7029.844	0.00	-0.0024	0.002	74.207	mg/L
⌊>	Sc-1	45	269928.274	269928.27				mg/L
	Cl	35	22385.700	-2740.50				mg/L
	Kr	83	35.334	-10.00				mg/L
	Br	81	7954.496	-878.74				mg/L
	P	31	9256.313	-1237.90				mg/L
	S	34	188202.814	15044.01				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	102.957				
|	Cr	52	105.352				
|	Cr	53					
|	Mn	55	101.606				
|	Co	59	100.407				
|	Ni	60	104.073				
|	Cu	65	107.641				
|	Zn	66	105.485				
|>	Ge	72		94.043			
|	As	75	119.441				
|	Se	77					
|	Se	82	121.915				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	84.139				
|	Cd	114	97.792				
|>	In	115		96.146			
|	Sn	118					
⌊	Sb	123	107.204				
⌈	Ba	135	98.533				
|	Ce	140					
⌊>	Tb	159		98.763			
⌈	Ho	165					
|	Tl	203	105.569				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	94.141				
|	U	238	101.703				
⌊>	Bi	209		96.476			
⌈	Na	23					

Sample ID: QC Std 8
Report Date/Time: Wednesday, November 24, 2010 13:49:55
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Se	82	LLCCV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 8
Report Date/Time: Wednesday, November 24, 2010 13:49:55
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: PBS 54 WG349196-02

Sample Date/Time: Wednesday, November 24, 2010 13:55:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37169.080	0.02				ug/L
|	Be	9	3.333	-0.00	0.0407	0.003	7.120	ug/L
|	Al	27	6201.925	0.00	0.0193	0.049	255.500	ug/L
⌊>	Sc	45	280651.395	280651.39				ug/L
⌈	Ti	49	43.338	0.00	-0.0690	0.024	35.112	ug/L
|	V	51	2843.128	0.00	0.0168	0.007	43.109	ug/L
|	Cr	52	8944.421	0.00	0.0428	0.006	13.131	ug/L
|	Cr	53	276.698	-0.00	-0.0979	0.046	47.179	ug/L
|	Mn	55	375.344	0.00	-0.0084	0.002	25.078	ug/L
|	Co	59	204.337	-0.00	-0.0043	0.000	10.702	ug/L
|	Ni	60	51.001	0.00	-0.0094	0.000	5.033	ug/L
|	Cu	65	124.669	-0.00	-0.0160	0.004	25.523	ug/L
|	Zn	66	2750.406	0.00	1.0456	0.044	4.234	ug/L
|>	Ge	72	422961.343	422961.34				ug/L
|	As	75	-161.916	-0.00	0.0551	0.031	55.715	ug/L
|	Se	77	50.005	-0.00	-0.2063	0.269	130.177	ug/L
|	Se	82	3.678	0.00	0.0729	0.083	113.379	ug/L
⌊	Rb	85	13.667	0.00				mg/L
	Y	89	230714.112	-20079.99				ug/L
	Rh	103	6.333	-12.67				ug/L
⌈	Mo	98	32.197	0.00	0.0360	0.002	4.328	ug/L
|	Ag	107	17.000	-0.00	-0.0735	0.002	2.114	ug/L
|	Cd	114	8.228	-0.00	-0.0065	0.003	43.199	ug/L
|>	In	115	319163.419	319163.42				ug/L
|	Sn	118	738.694	-0.00	-0.0969	0.003	2.963	ug/L
⌊	Sb	123	86.411	-0.00	0.0296	0.002	6.281	ug/L
⌈	Ba	135	20.334	-0.00	0.0024	0.001	44.081	ug/L
|	Ce	140	30.003	-0.00				ug/L
⌊>	Tb	159	426736.198	426736.20				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	17.667	-0.00	0.0047	0.000	9.488	ug/L
|	Tl	205	43.338	-0.00	-0.0017	0.001	52.238	ug/L
|	Pb	206	494.684	-0.00	-0.0176	0.002	10.329	ug/L
|	Pb	207	437.014	-0.00	-0.0066	0.007	101.084	ug/L
|	Pb	208	1978.430	-0.00	-0.0139	0.001	9.613	ug/L
|	U	238	17.000	-0.00	0.0066	0.000	0.675	ug/L
⌊>	Bi	209	424006.927	424006.93				ug/L

Sample ID: PBS 54 WG349196-02
Report Date/Time: Wednesday, November 24, 2010 13:57:32
Page 1

Approved: November 29, 2010

⌈	Na	23	13891.032	0.00	-0.0023	0.000	3.914	mg/L
|	Mg	24	526.734	0.00	-0.0029	0.000	1.143	mg/L
|	K	39	451627.547	0.02	-0.0020	0.001	31.188	mg/L
|	Ca	43	193.355	0.00	0.0011	0.002	216.788	mg/L
|	Fe	54	52340.799	0.00	0.0032	0.001	43.362	mg/L
|	Fe	57	6843.034	-0.00	-0.0041	0.002	57.050	mg/L
⌊>	Sc-1	45	280651.395	280651.39				mg/L
	Cl	35	22695.058	-2431.14				mg/L
	Kr	83	37.000	-8.33				mg/L
	Br	81	8352.820	-480.42				mg/L
	P	31	10295.303	-198.91				mg/L
	S	34	181937.412	8778.61				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.846			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.065			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.890			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.993			
⌈	Na	23					

Sample ID: PBS 54 WG349196-02
Report Date/Time: Wednesday, November 24, 2010 13:57:32
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 54 WG349196-02
Report Date/Time: Wednesday, November 24, 2010 13:57:32
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: LCSS 54 WG349196-03

Sample Date/Time: Wednesday, November 24, 2010 14:02:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	37052.109	0.01				ug/L
|	Be	9	9068.780	0.03	22.7398	0.543	2.386	ug/L
|	Al	27	151844.274	0.50	21.4230	0.594	2.773	ug/L
⌊>	Sc	45	290648.507	290648.51				ug/L
⌜	Ti	49	63.340	0.00	-0.0389	0.023	59.378	ug/L
|	V	51	246454.787	0.57	23.7094	0.266	1.121	ug/L
|	Cr	52	218023.535	0.49	24.1112	0.345	1.432	ug/L
|	Cr	53	24535.868	0.06	24.0266	0.791	3.290	ug/L
|	Mn	55	333654.906	0.79	24.8951	0.307	1.234	ug/L
|	Co	59	280742.052	0.66	24.5176	0.297	1.211	ug/L
|	Ni	60	60983.041	0.14	25.2369	0.573	2.272	ug/L
|	Cu	65	62216.906	0.15	25.0655	0.134	0.533	ug/L
|	Zn	66	35399.907	0.08	24.5704	0.373	1.516	ug/L
|>	Ge	72	424625.782	424625.78				ug/L
|	As	75	21835.855	0.05	23.4087	0.388	1.659	ug/L
|	Se	77	1586.951	0.00	22.6749	0.779	3.436	ug/L
|	Se	82	2057.596	0.00	24.0206	0.669	2.784	ug/L
⌊	Rb	85	14.333	0.00				mg/L
	Y	89	231877.447	-18916.65				ug/L
	Rh	103	17.334	-1.67				ug/L
⌜	Mo	98	38.941	0.00	0.0392	0.001	2.873	ug/L
|	Ag	107	105451.835	0.33	23.6523	0.086	0.362	ug/L
|	Cd	114	25594.664	0.08	24.7349	0.362	1.463	ug/L
|>	In	115	317692.872	317692.87				ug/L
|	Sn	118	704.958	-0.00	-0.1053	0.003	3.293	ug/L
⌊	Sb	123	78109.602	0.25	24.2953	0.481	1.978	ug/L
⌜	Ba	135	38656.634	0.09	23.4876	0.078	0.332	ug/L
|	Ce	140	33.337	-0.00				ug/L
⌊>	Tb	159	428373.715	428373.72				ug/L
⌜	Ho	165	13.335	-0.00				ug/L
|	Tl	203	163275.450	0.38	23.1515	0.202	0.874	ug/L
|	Tl	205	406852.095	0.95	23.5041	0.455	1.937	ug/L
|	Pb	206	138522.265	0.32	23.7987	0.171	0.717	ug/L
|	Pb	207	123528.514	0.29	23.3336	0.304	1.304	ug/L
|	Pb	208	568930.485	1.32	23.6483	0.197	0.832	ug/L
|	U	238	911379.069	2.12	23.6113	0.242	1.023	ug/L
⌊>	Bi	209	429437.340	429437.34				ug/L

Sample ID: LCSS 54 WG349196-03
Report Date/Time: Wednesday, November 24, 2010 14:04:16
Page 1

Approved: November 29, 2010

⌈	Na	23	15794.044	0.01	-0.0021	0.000	5.570	mg/L
|	Mg	24	606.746	0.00	-0.0028	0.000	0.311	mg/L
|	K	39	457429.905	-0.02	-0.0031	0.001	31.140	mg/L
|	Ca	43	193.355	0.00	0.0007	0.001	125.269	mg/L
|	Fe	54	53097.048	-0.00	0.0017	0.000	16.650	mg/L
|	Fe	57	7199.978	-0.00	-0.0037	0.001	18.718	mg/L
⌊>	Sc-1	45	290648.507	290648.51				mg/L
	Cl	35	23172.154	-1954.04				mg/L
	Kr	83	35.667	-9.67				mg/L
	Br	81	8382.849	-450.39				mg/L
	P	31	10475.538	-18.67				mg/L
	S	34	179477.852	6319.05				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.223			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.613			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.277			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.248			
⌈	Na	23					

Sample ID: LCSS 54 WG349196-03
Report Date/Time: Wednesday, November 24, 2010 14:04:16
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 54 WG349196-03
Report Date/Time: Wednesday, November 24, 2010 14:04:16
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011062802 WG349196-01

Sample Date/Time: Wednesday, November 24, 2010 14:08:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35730.406	0.02				ug/L
|	Be	9	93.334	0.00	0.2804	0.013	4.577	ug/L
|	Al	27	49083379.943	179.40	7671.3869	116.631	1.520	ug/L
⌊>	Sc	45	273557.892	273557.89				ug/L
⌈	Ti	49	29656.888	0.07	46.8701	1.085	2.314	ug/L
|	V	51	-21462.100	-0.06	-2.4202	1.653	68.320	ug/L
|	Cr	52	3475646.355	8.47	413.9297	6.747	1.630	ug/L
|	Cr	53	415147.139	1.01	427.7020	8.218	1.921	ug/L
|	Mn	55	1843505.180	4.50	142.7953	3.659	2.562	ug/L
|	Co	59	14104.418	0.03	1.2561	0.035	2.781	ug/L
|	Ni	60	52003.395	0.13	22.3095	0.344	1.541	ug/L
|	Cu	65	259290.340	0.63	108.5330	1.789	1.648	ug/L
|	Zn	66	1920353.489	4.69	1434.1223	15.848	1.105	ug/L
|>	Ge	72	409558.145	409558.14				ug/L
|	As	75	29610.829	0.07	32.8190	0.304	0.927	ug/L
|	Se	77	240.027	0.00	2.7492	0.253	9.217	ug/L
|	Se	82	203.272	0.00	2.4874	0.235	9.456	ug/L
⌊	Rb	85	2170.257	0.01				mg/L
	Y	89	229810.452	-20983.65				ug/L
	Rh	103	123.335	104.34				ug/L
⌈	Mo	98	4892.914	0.02	2.4148	0.054	2.235	ug/L
|	Ag	107	11395.941	0.03	2.5718	0.048	1.861	ug/L
|	Cd	114	16731.347	0.05	16.7008	0.313	1.876	ug/L
|>	In	115	307506.160	307506.16				ug/L
|	Sn	118	41503.683	0.13	11.5920	0.126	1.091	ug/L
⌊	Sb	123	3508.918	0.01	1.1301	0.017	1.518	ug/L
⌈	Ba	135	46349.634	0.11	29.1420	0.529	1.817	ug/L
|	Ce	140	163749.905	0.40				ug/L
⌊>	Tb	159	414062.433	414062.43				ug/L
⌈	Ho	165	1260.206	0.00				ug/L
|	Tl	203	3588.013	0.01	0.3959	0.004	0.963	ug/L
|	Tl	205	9085.037	0.02	0.4020	0.013	3.238	ug/L
|	Pb	206	1544455.864	2.78	206.1675	1.989	0.965	ug/L
|	Pb	207	1272549.682	2.29	186.6726	3.450	1.848	ug/L
|	Pb	208	5988128.768	10.79	193.3428	2.521	1.304	ug/L
|	U	238	33057.214	0.06	0.6689	0.007	1.079	ug/L
⌊>	Bi	209	554841.494	554841.49				ug/L

Sample ID: L1011062802 WG349196-01
Report Date/Time: Wednesday, November 24, 2010 14:11:00
Page 1

Approved: November 29, 2010

⌈	Na	23	11701814.004	42.73	2.0265	0.045	2.236	mg/L
|	Mg	24	12834174.693	46.91	3.3736	0.046	1.360	mg/L
|	K	39	4408083.901	14.52	0.4180	0.006	1.451	mg/L
|	Ca	43	701818.536	2.56	35.5611	0.291	0.818	mg/L
|	Fe	54	7221592.627	26.21	10.5307	0.156	1.480	mg/L
|	Fe	57	2968973.951	10.83	10.8933	0.118	1.087	mg/L
⌊>	Sc-1	45	273557.892	273557.89				mg/L
	Cl	35	295989.344	270863.15				mg/L
	Kr	83	46.001	0.67				mg/L
	Br	81	21758.321	12925.08				mg/L
	P	31	950688.202	940193.99				mg/L
	S	34	292269.392	119110.59				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.808			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.484			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.894			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		128.231			
⌈	Na	23					

Sample ID: L1011062802 WG349196-01
Report Date/Time: Wednesday, November 24, 2010 14:11:00
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
V 51 Lower	V	51	
Cr 52 Upper, S, EEE	Cr	52	
Mn 55 Upper, S, EEE	Mn	55	
Cu 65 Upper, S, EEE	Cu	65	
Zn 66 Upper, S, EEE	Zn	66	
Pb 206 Upper, S, EEE	Pb	206	
Pb 208 Upper, S, EEE	Pb	208	
Bi 209 Int Std for sam	Bi	209	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011062802S WG349196-04

Sample Date/Time: Wednesday, November 24, 2010 14:15:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36700.605	0.02				ug/L
|	Be	9	1595.461	0.01	4.3277	0.117	2.706	ug/L
|	Al	27	44052652.612	163.04	6971.5925	96.411	1.383	ug/L
⌊>	Sc	45	270185.845	270185.84				ug/L
⌈	Ti	49	32666.605	0.08	51.4281	2.456	4.775	ug/L
|	V	51	1066.820	-0.00	-0.1465	1.887	1288.276	ug/L
|	Cr	52	3152822.550	7.65	373.8436	7.685	2.056	ug/L
|	Cr	53	372903.703	0.91	382.5779	14.837	3.878	ug/L
|	Mn	55	1700798.378	4.14	131.1902	3.428	2.613	ug/L
|	Co	59	54590.150	0.13	4.9048	0.067	1.363	ug/L
|	Ni	60	56291.232	0.14	24.0508	0.331	1.377	ug/L
|	Cu	65	244712.109	0.59	101.9939	1.033	1.013	ug/L
|	Zn	66	1803756.841	4.38	1341.3444	18.414	1.373	ug/L
|>	Ge	72	411267.752	411267.75				ug/L
|	As	75	30363.623	0.07	33.5091	0.816	2.434	ug/L
|	Se	77	500.063	0.00	6.7369	1.119	16.615	ug/L
|	Se	82	514.667	0.00	6.2276	0.498	8.002	ug/L
⌊	Rb	85	2524.678	0.01				mg/L
	Y	89	221736.790	-29057.31				ug/L
	Rh	103	97.335	78.33				ug/L
⌈	Mo	98	4362.183	0.01	2.1763	0.052	2.375	ug/L
|	Ag	107	17966.305	0.06	4.1406	0.040	0.969	ug/L
|	Cd	114	19376.311	0.06	19.5280	0.795	4.073	ug/L
|>	In	115	304541.707	304541.71				ug/L
|	Sn	118	36674.736	0.12	10.3106	0.183	1.778	ug/L
⌊	Sb	123	5980.365	0.02	1.9430	0.020	1.040	ug/L
⌈	Ba	135	186457.799	0.46	118.8899	1.035	0.870	ug/L
|	Ce	140	147288.246	0.36				ug/L
⌊>	Tb	159	408366.158	408366.16				ug/L
⌈	Ho	165	1280.210	0.00				ug/L
|	Tl	203	27763.767	0.05	3.1822	0.072	2.266	ug/L
|	Tl	205	68722.181	0.13	3.2040	0.065	2.024	ug/L
|	Pb	206	1393574.558	2.62	194.1690	4.552	2.344	ug/L
|	Pb	207	1158648.461	2.18	177.3878	3.055	1.722	ug/L
|	Pb	208	5451321.899	10.25	183.7176	4.790	2.607	ug/L
|	U	238	166327.929	0.31	3.4868	0.089	2.562	ug/L
⌊>	Bi	209	531658.860	531658.86				ug/L

Approved: November 29, 2010

⌈	Na	23	11973539.277	44.27	2.0996	0.032	1.505	mg/L
|	Mg	24	11630088.237	43.04	3.0947	0.049	1.582	mg/L
|	K	39	4763304.209	16.04	0.4619	0.006	1.234	mg/L
|	Ca	43	610529.946	2.26	31.3251	0.311	0.994	mg/L
|	Fe	54	6443610.198	23.67	9.5091	0.204	2.146	mg/L
|	Fe	57	2713165.796	10.02	10.0773	0.076	0.755	mg/L
⌊>	Sc-1	45	270185.845	270185.84				mg/L
	Cl	35	304987.731	279861.54				mg/L
	Kr	83	40.667	-4.67				mg/L
	Br	81	20136.957	11303.72				mg/L
	P	31	852078.061	841583.85				mg/L
	S	34	285470.907	112312.11				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.196			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.573			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.547			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		122.873			
⌈	Na	23					

Sample ID: L1011062802S WG349196-04
Report Date/Time: Wednesday, November 24, 2010 14:17:44
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Cr 52 Upper, S, EEE	Cr	52	
Mn 55 Upper, S, EEE	Mn	55	
Cu 65 Upper, S, EEE	Cu	65	
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	
Pb 206 Upper, S, EEE	Pb	206	
Pb 208 Upper, S, EEE	Pb	208	
Bi 209 Int Std for sam	Bi	209	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011062802SD WG349196-05

Sample Date/Time: Wednesday, November 24, 2010 14:22:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38189.533	0.03				ug/L
|	Be	9	1599.463	0.01	4.4806	0.772	17.228	ug/L
|	Al	27	43669716.651	166.99	7140.6875	1523.563	21.336	ug/L
⌊>	Sc	45	262433.759	262433.76				ug/L
⌈	Ti	49	32878.759	0.08	51.7819	11.013	21.268	ug/L
|	V	51	-1721.752	-0.01	-0.4460	2.583	579.231	ug/L
|	Cr	52	3137614.467	7.61	372.1194	72.001	19.349	ug/L
|	Cr	53	372946.488	0.91	382.6979	76.394	19.962	ug/L
|	Mn	55	1711489.327	4.16	132.0489	26.030	19.712	ug/L
|	Co	59	55297.419	0.13	4.9699	0.949	19.093	ug/L
|	Ni	60	55793.782	0.14	23.8452	4.674	19.603	ug/L
|	Cu	65	244956.832	0.60	102.1374	21.224	20.780	ug/L
|	Zn	66	1786165.624	4.34	1328.5360	225.527	16.976	ug/L
|>	Ge	72	411508.571	411508.57				ug/L
|	As	75	30342.558	0.07	33.4922	5.629	16.808	ug/L
|	Se	77	490.061	0.00	6.5754	0.639	9.724	ug/L
|	Se	82	518.986	0.00	6.2793	1.237	19.706	ug/L
⌊	Rb	85	2487.339	0.01				mg/L
	Y	89	218997.203	-31796.89				ug/L
	Rh	103	103.002	84.00				ug/L
⌈	Mo	98	4247.442	0.01	2.1532	0.424	19.712	ug/L
|	Ag	107	17792.346	0.06	4.1662	0.799	19.189	ug/L
|	Cd	114	18972.169	0.06	19.4303	4.123	21.218	ug/L
|>	In	115	299958.021	299958.02				ug/L
|	Sn	118	36374.921	0.12	10.3911	2.062	19.846	ug/L
⌊	Sb	123	5946.717	0.02	1.9629	0.379	19.303	ug/L
⌈	Ba	135	185940.682	0.45	117.3861	25.035	21.327	ug/L
|	Ce	140	147126.531	0.36				ug/L
⌊>	Tb	159	412911.457	412911.46				ug/L
⌈	Ho	165	1133.513	0.00				ug/L
|	Tl	203	27051.612	0.05	3.0988	0.477	15.393	ug/L
|	Tl	205	66356.438	0.12	3.0931	0.411	13.274	ug/L
|	Pb	206	1366654.816	2.57	190.3035	29.352	15.424	ug/L
|	Pb	207	1144231.856	2.15	175.0782	27.400	15.650	ug/L
|	Pb	208	5361162.707	10.07	180.5617	28.031	15.524	ug/L
|	U	238	164867.525	0.31	3.4535	0.567	16.429	ug/L
⌊>	Bi	209	530293.297	530293.30				ug/L

Approved: November 29, 2010

⌈	Na	23	12219983.631	46.68	2.2142	0.460	20.772	mg/L
|	Mg	24	11864348.923	45.37	3.2627	0.701	21.474	mg/L
|	K	39	4678601.676	16.29	0.4691	0.091	19.332	mg/L
|	Ca	43	618960.486	2.37	32.8091	6.889	20.996	mg/L
|	Fe	54	6585769.300	25.00	10.0453	2.245	22.348	mg/L
|	Fe	57	2686360.001	10.25	10.3099	2.194	21.285	mg/L
⌊>	Sc-1	45	262433.759	262433.76				mg/L
	Cl	35	342752.353	317626.16				mg/L
	Kr	83	42.334	-3.00				mg/L
	Br	81	21318.133	12484.90				mg/L
	P	31	847724.861	837230.65				mg/L
	S	34	276241.715	103082.91				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.250			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.164			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.622			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		122.558			
⌈	Na	23					

Sample ID: L1011062802SD WG349196-05
Report Date/Time: Wednesday, November 24, 2010 14:24:28
Page 2

Approved: November 29, 2010

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
V 51 Lower	V	51	
Cr 52 Upper, S, EEE	Cr	52	
Mn 55 Upper, S, EEE	Mn	55	
Cu 65 Upper, S, EEE	Cu	65	
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	
Pb 206 Upper, S, EEE	Pb	206	
Pb 208 Upper, S, EEE	Pb	208	
Bi 209 Int Std for sam	Bi	209	Rerun for AFCEE sample

Sample ID: L1011062802SD WG349196-05
Report Date/Time: Wednesday, November 24, 2010 14:24:28
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011062801

Sample Date/Time: Wednesday, November 24, 2010 14:29:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 17
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38005.680	0.03				ug/L
|	Be	9	99.334	0.00	0.2959	0.050	16.999	ug/L
|	Al	27	47469042.068	172.79	7388.8586	48.838	0.661	ug/L
⌊>	Sc	45	274689.453	274689.45				ug/L
⌈	Ti	49	21966.302	0.05	34.8558	0.689	1.975	ug/L
|	V	51	-34825.649	-0.09	-3.7882	2.166	57.170	ug/L
|	Cr	52	3293794.153	8.06	394.2007	4.994	1.267	ug/L
|	Cr	53	394275.082	0.97	408.2332	6.394	1.566	ug/L
|	Mn	55	1789354.956	4.39	139.2934	1.710	1.228	ug/L
|	Co	59	13038.626	0.03	1.1654	0.020	1.725	ug/L
|	Ni	60	48253.294	0.12	20.8036	0.288	1.386	ug/L
|	Cu	65	251866.894	0.62	105.9543	0.504	0.476	ug/L
|	Zn	66	1764886.762	4.33	1324.6234	11.297	0.853	ug/L
|>	Ge	72	407486.604	407486.60				ug/L
|	As	75	27132.718	0.07	30.2436	0.346	1.143	ug/L
|	Se	77	213.357	0.00	2.3529	0.629	26.752	ug/L
|	Se	82	182.981	0.00	2.2520	0.220	9.751	ug/L
⌊	Rb	85	2219.935	0.01				mg/L
	Y	89	225984.069	-24810.03				ug/L
	Rh	103	101.002	82.00				ug/L
⌈	Mo	98	4496.417	0.01	2.2210	0.029	1.290	ug/L
|	Ag	107	5231.754	0.01	1.1389	0.014	1.212	ug/L
|	Cd	114	15443.188	0.05	15.4107	0.213	1.385	ug/L
|>	In	115	307529.741	307529.74				ug/L
|	Sn	118	37986.546	0.12	10.5827	0.091	0.864	ug/L
⌊	Sb	123	3669.272	0.01	1.1817	0.015	1.272	ug/L
⌈	Ba	135	172600.227	0.42	108.1092	0.689	0.637	ug/L
|	Ce	140	154973.664	0.37				ug/L
⌊>	Tb	159	415688.113	415688.11				ug/L
⌈	Ho	165	1286.879	0.00				ug/L
|	Tl	203	3518.321	0.01	0.3929	0.000	0.106	ug/L
|	Tl	205	8334.306	0.01	0.3730	0.008	2.254	ug/L
|	Pb	206	1465259.287	2.67	197.9362	3.504	1.770	ug/L
|	Pb	207	1219431.192	2.22	181.0114	1.220	0.674	ug/L
|	Pb	208	5719841.240	10.43	186.8843	2.191	1.172	ug/L
|	U	238	31451.698	0.06	0.6443	0.008	1.213	ug/L
⌊>	Bi	209	548273.604	548273.60				ug/L

Sample ID: L1011062801
Report Date/Time: Wednesday, November 24, 2010 14:31:13
Page 1

Approved: November 29, 2010

⌈	Na	23	12319481.400	44.81	2.1252	0.059	2.796	mg/L
|	Mg	24	12534195.879	45.64	3.2816	0.068	2.064	mg/L
|	K	39	4528733.728	14.89	0.4287	0.005	1.066	mg/L
|	Ca	43	657712.052	2.39	33.1906	0.154	0.463	mg/L
|	Fe	54	6809131.421	24.61	9.8859	0.141	1.426	mg/L
|	Fe	57	2868250.051	10.42	10.4823	0.226	2.160	mg/L
⌊>	Sc-1	45	274689.453	274689.45				mg/L
	Cl	35	258011.631	232885.44				mg/L
	Kr	83	41.000	-4.33				mg/L
	Br	81	20458.911	11625.67				mg/L
	P	31	891210.057	880715.85				mg/L
	S	34	272508.080	99349.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.339			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.491			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.278			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		126.713			
⌈	Na	23					

Sample ID: L1011062801
Report Date/Time: Wednesday, November 24, 2010 14:31:13
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
V 51 Lower	V	51	
Cr 52 Upper, S, EEE	Cr	52	
Mn 55 Upper, S, EEE	Mn	55	
Cu 65 Upper, S, EEE	Cu	65	
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	
Pb 206 Upper, S, EEE	Pb	206	
Pb 208 Upper, S, EEE	Pb	208	
Bi 209 Int Std for sam	Bi	209	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011062801PS WG349368-01

Sample Date/Time: Wednesday, November 24, 2010 14:35:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37988.725	0.03				ug/L
|	Be	9	19538.411	0.07	52.5582	1.765	3.358	ug/L
|	Al	27	46650610.308	172.28	7366.7813	37.485	0.509	ug/L
⌊>	Sc	45	270750.004	270750.00				ug/L
⌈	Ti	49	21939.572	0.05	34.6921	0.951	2.742	ug/L
|	V	51	470012.441	1.14	47.2120	2.057	4.357	ug/L
|	Cr	52	3633337.192	8.86	433.3741	6.482	1.496	ug/L
|	Cr	53	433593.933	1.06	447.2763	8.198	1.833	ug/L
|	Mn	55	2396188.877	5.86	185.8564	1.855	0.998	ug/L
|	Co	59	583979.085	1.43	52.9775	0.396	0.747	ug/L
|	Ni	60	169331.992	0.41	72.8140	0.541	0.743	ug/L
|	Cu	65	368211.815	0.90	154.3614	1.132	0.733	ug/L
|	Zn	66	1815637.316	4.44	1357.7631	9.028	0.665	ug/L
|>	Ge	72	408982.132	408982.13				ug/L
|	As	75	72137.512	0.18	79.7338	0.732	0.918	ug/L
|	Se	77	3834.452	0.01	58.3333	2.127	3.647	ug/L
|	Se	82	4313.630	0.01	52.2426	0.906	1.734	ug/L
⌊	Rb	85	2139.250	0.01				mg/L
	Y	89	226441.111	-24352.99				ug/L
	Rh	103	124.335	105.34				ug/L
⌈	Mo	98	4380.552	0.01	2.1759	0.039	1.784	ug/L
|	Ag	107	214801.415	0.70	50.1298	0.959	1.913	ug/L
|	Cd	114	67365.657	0.22	67.6365	1.035	1.530	ug/L
|>	In	115	305903.170	305903.17				ug/L
|	Sn	118	37211.509	0.12	10.4184	0.173	1.660	ug/L
⌊	Sb	123	164116.742	0.54	53.0124	1.084	2.044	ug/L
⌈	Ba	135	246491.535	0.58	151.2687	1.710	1.131	ug/L
|	Ce	140	150911.928	0.36				ug/L
⌊>	Tb	159	424285.047	424285.05				ug/L
⌈	Ho	165	1236.867	0.00				ug/L
|	Tl	203	335020.803	0.61	37.3604	0.505	1.353	ug/L
|	Tl	205	831616.034	1.52	37.7946	0.246	0.652	ug/L
|	Pb	206	1717369.113	3.14	232.9688	1.219	0.523	ug/L
|	Pb	207	1426726.154	2.61	212.6774	0.830	0.390	ug/L
|	Pb	208	6697491.335	12.26	219.7513	0.984	0.448	ug/L
|	U	238	1864544.545	3.41	37.9904	0.146	0.385	ug/L
⌊>	Bi	209	545983.597	545983.60				ug/L

Approved: November 29, 2010

⌈	Na	23	11691741.292	43.14	2.0460	0.022	1.073	mg/L
|	Mg	24	12043688.806	44.48	3.1983	0.031	0.963	mg/L
|	K	39	4450134.981	14.84	0.4273	0.005	1.198	mg/L
|	Ca	43	630557.695	2.33	32.2789	0.738	2.286	mg/L
|	Fe	54	6548030.303	24.00	9.6420	0.080	0.831	mg/L
|	Fe	57	2776271.730	10.23	10.2924	0.244	2.369	mg/L
⌊>	Sc-1	45	270750.004	270750.00				mg/L
	Cl	35	266778.533	241652.34				mg/L
	Kr	83	41.667	-3.67				mg/L
	Br	81	21148.341	12315.10				mg/L
	P	31	849776.664	839282.45				mg/L
	S	34	268557.225	95398.42				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.678			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.991			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.311			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		126.184			
⌈	Na	23					

Sample ID: L1011062801PS WG349368-01
Report Date/Time: Wednesday, November 24, 2010 14:37:58
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Cr 52 Upper, S, EEE	Cr	52	
Mn 55 Upper, S, EEE	Mn	55	
Cu 65 Upper, S, EEE	Cu	65	
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	
Pb 206 Upper, S, EEE	Pb	206	
Pb 208 Upper, S, EEE	Pb	208	
Bi 209 Int Std for sam	Bi	209	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011062801SDL WG349368-02

Sample Date/Time: Wednesday, November 24, 2010 14:42:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 19
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37854.967	0.03				ug/L
|	Be	9	26.000	0.00	0.1012	0.015	14.350	ug/L
|	Al	27	9843941.404	35.91	1535.4802	49.940	3.252	ug/L
⌊>	Sc	45	273986.370	273986.37				ug/L
⌈	Ti	49	4724.924	0.01	7.3011	0.480	6.578	ug/L
|	V	51	112.090	-0.01	-0.2469	0.627	253.836	ug/L
|	Cr	52	706638.642	1.69	82.7660	1.924	2.325	ug/L
|	Cr	53	81599.779	0.20	83.1682	2.091	2.514	ug/L
|	Mn	55	370770.778	0.90	28.4830	0.263	0.923	ug/L
|	Co	59	2945.797	0.01	0.2428	0.002	0.739	ug/L
|	Ni	60	10285.056	0.02	4.3561	0.041	0.939	ug/L
|	Cu	65	54186.286	0.13	22.4664	0.309	1.376	ug/L
|	Zn	66	369028.488	0.89	272.8550	2.719	0.996	ug/L
|>	Ge	72	412518.357	412518.36				ug/L
|	As	75	5491.691	0.01	6.2286	0.105	1.685	ug/L
|	Se	77	110.012	0.00	0.7285	0.657	90.219	ug/L
|	Se	82	30.290	0.00	0.3924	0.215	54.663	ug/L
⌊	Rb	85	504.684	0.00				mg/L
	Y	89	220704.700	-30089.40				ug/L
	Rh	103	28.667	9.67				ug/L
⌈	Mo	98	930.623	0.00	0.4676	0.035	7.576	ug/L
|	Ag	107	1128.408	0.00	0.1798	0.007	3.969	ug/L
|	Cd	114	3319.051	0.01	3.2362	0.084	2.607	ug/L
|>	In	115	313737.206	313737.21				ug/L
|	Sn	118	8651.207	0.02	2.1290	0.032	1.495	ug/L
⌊	Sb	123	1045.636	0.00	0.3323	0.017	5.076	ug/L
⌈	Ba	135	35894.668	0.09	22.2374	0.037	0.166	ug/L
|	Ce	140	31863.909	0.08				ug/L
⌊>	Tb	159	420123.452	420123.45				ug/L
⌈	Ho	165	266.697	0.00				ug/L
|	Tl	203	764.370	0.00	0.1062	0.005	4.376	ug/L
|	Tl	205	1900.371	0.00	0.1012	0.004	3.830	ug/L
|	Pb	206	311276.235	0.69	51.4584	0.132	0.257	ug/L
|	Pb	207	258211.463	0.58	46.9097	0.162	0.345	ug/L
|	Pb	208	1220384.650	2.72	48.7976	0.059	0.121	ug/L
|	U	238	6505.180	0.01	0.1680	0.002	1.437	ug/L
⌊>	Bi	209	447333.850	447333.85				ug/L

Approved: November 29, 2010

⌈	Na	23	2539255.232	9.22	0.4354	0.003	0.799	mg/L
|	Mg	24	2588034.195	9.44	0.6768	0.005	0.788	mg/L
|	K	39	1379922.759	3.44	0.0972	0.002	1.831	mg/L
|	Ca	43	136708.761	0.50	6.9092	0.142	2.058	mg/L
|	Fe	54	1449310.444	5.10	2.0530	0.036	1.733	mg/L
|	Fe	57	598032.484	2.16	2.1682	0.041	1.873	mg/L
⌊>	Sc-1	45	273986.370	273986.37				mg/L
	Cl	35	100317.394	75191.20				mg/L
	Kr	83	43.334	-2.00				mg/L
	Br	81	11465.237	2632.00				mg/L
	P	31	189130.154	178635.94				mg/L
	S	34	193231.174	20072.37				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.479			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.398			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.327			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.385			
⌈	Na	23					

Sample ID: L1011062801SDL WG349368-02
Report Date/Time: Wednesday, November 24, 2010 14:44:44
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Sample ID: L1011062801SDL WG349368-02
Report Date/Time: Wednesday, November 24, 2010 14:44:44
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 14:49:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37821.408	0.03				ug/L
|	Be	9	19003.378	0.07	51.5796	0.373	0.723	ug/L
|	Al	27	309862.238	1.13	48.4913	2.099	4.328	ug/L
⌊>	Sc	45	268285.586	268285.59				ug/L
⌈	Ti	49	60729.989	0.15	97.2003	2.636	2.712	ug/L
|	V	51	480873.180	1.18	48.7729	0.378	0.774	ug/L
|	Cr	52	411146.682	1.00	48.6427	0.824	1.693	ug/L
|	Cr	53	48679.723	0.12	50.3839	0.720	1.429	ug/L
|	Mn	55	656972.990	1.62	51.4283	0.411	0.799	ug/L
|	Co	59	560740.911	1.38	51.3677	0.882	1.716	ug/L
|	Ni	60	120476.268	0.30	52.3068	0.899	1.718	ug/L
|	Cu	65	121429.374	0.30	51.3606	0.613	1.194	ug/L
|	Zn	66	69699.428	0.17	51.7227	0.213	0.411	ug/L
| >	Ge	72	405031.650	405031.65				ug/L
|	As	75	43778.379	0.11	48.9506	0.588	1.201	ug/L
|	Se	77	3407.588	0.01	52.2425	0.459	0.879	ug/L
|	Se	82	4038.224	0.01	49.3896	1.159	2.346	ug/L
⌊	Rb	85	1613.813	0.00				mg/L
	Y	89	213288.951	-37505.15				ug/L
	Rh	103	24.000	5.00				ug/L
⌈	Mo	98	183266.765	0.60	90.6382	0.632	0.697	ug/L
|	Ag	107	208402.500	0.68	48.8788	0.154	0.314	ug/L
|	Cd	114	50505.793	0.17	50.9641	0.178	0.350	ug/L
| >	In	115	304325.971	304325.97				ug/L
|	Sn	118	172393.520	0.56	49.6105	0.140	0.282	ug/L
⌊	Sb	123	156053.499	0.51	50.6630	0.173	0.341	ug/L
⌈	Ba	135	75469.898	0.18	47.1782	1.162	2.463	ug/L
|	Ce	140	93.343	0.00				ug/L
⌊>	Tb	159	416466.764	416466.76				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	320891.165	0.80	48.9501	0.429	0.877	ug/L
|	Tl	205	786479.396	1.97	48.8963	0.676	1.383	ug/L
|	Pb	206	263594.735	0.66	48.8340	0.457	0.936	ug/L
|	Pb	207	246428.497	0.62	50.1830	0.076	0.151	ug/L
|	Pb	208	1104791.832	2.76	49.5131	0.419	0.846	ug/L
|	U	238	1792562.781	4.49	49.9613	0.451	0.902	ug/L
⌊>	Bi	209	399121.334	399121.33				ug/L

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 14:51:29
Page 1

Approved: November 29, 2010

Na	23	27142705.775	101.12	4.7993	0.025	0.529	mg/L
Mg	24	18176700.039	67.77	4.8744	0.090	1.838	mg/L
K	39	45633101.722	168.50	4.8770	0.081	1.655	mg/L
Ca	43	96590.580	0.36	4.9838	0.056	1.133	mg/L
Fe	54	3317560.141	12.18	4.8949	0.072	1.475	mg/L
Fe	57	1345988.218	4.99	5.0213	0.097	1.927	mg/L
Sc-1	45	268285.586	268285.59				mg/L
Cl	35	42979.499	17853.30				mg/L
Kr	83	36.000	-9.33				mg/L
Br	81	8571.006	-262.23				mg/L
P	31	9585.929	-908.28				mg/L
S	34	183890.777	10731.98				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	97.546				
Cr	52	97.285				
Cr	53					
Mn	55	102.857				
Co	59	102.735				
Ni	60	104.614				
Cu	65	102.721				
Zn	66	103.445				
Ge	72		91.783			
As	75	97.901				
Se	77					
Se	82	98.779				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	97.758				
Cd	114	101.928				
In	115		93.506			
Sn	118					
Sb	123	101.326				
Ba	135	94.356				
Ce	140					
Tb	159		98.462			
Ho	165					
Tl	203	97.900				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.026				
U	238	99.923				
Bi	209		92.242			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 14:51:29

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 14:51:29

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 14:56:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38925.722	0.03				ug/L
|	Be	9	5.333	-0.00	0.0462	0.008	17.509	ug/L
|	Al	27	5951.786	0.00	-0.0009	0.103	11536.884	ug/L
⌊>	Sc	45	275030.915	275030.91				ug/L
⌈	Ti	49	46.671	0.00	-0.0623	0.032	51.380	ug/L
|	V	51	2785.517	0.00	0.0185	0.007	38.082	ug/L
|	Cr	52	8882.366	0.00	0.0636	0.004	6.191	ug/L
|	Cr	53	283.366	-0.00	-0.0831	0.077	92.760	ug/L
|	Mn	55	319.008	0.00	-0.0119	0.002	17.031	ug/L
|	Co	59	189.670	-0.00	-0.0052	0.001	11.757	ug/L
|	Ni	60	21.667	-0.00	-0.0214	0.002	11.327	ug/L
|	Cu	65	114.668	-0.00	-0.0188	0.004	23.222	ug/L
|	Zn	66	1169.080	-0.00	-0.0752	0.035	46.985	ug/L
|>	Ge	72	411747.174	411747.17				ug/L
|	As	75	-167.540	-0.00	0.0445	0.034	76.824	ug/L
|	Se	77	63.340	-0.00	0.0200	0.551	2746.917	ug/L
|	Se	82	2.325	0.00	0.0578	0.080	139.031	ug/L
⌊	Rb	85	14.667	0.00				mg/L
	Y	89	220929.412	-29864.69				ug/L
	Rh	103	7.000	-12.00				ug/L
⌈	Mo	98	72.275	0.00	0.0555	0.006	11.305	ug/L
|	Ag	107	28.334	-0.00	-0.0708	0.000	0.416	ug/L
|	Cd	114	11.855	0.00	-0.0028	0.009	324.786	ug/L
|>	In	115	313690.865	313690.86				ug/L
|	Sn	118	840.435	-0.00	-0.0648	0.013	19.566	ug/L
⌊	Sb	123	243.833	0.00	0.0797	0.005	5.735	ug/L
⌈	Ba	135	14.000	-0.00	-0.0011	0.002	203.201	ug/L
|	Ce	140	30.003	-0.00				ug/L
⌊>	Tb	159	412415.108	412415.11				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	23.667	-0.00	0.0057	0.000	6.099	ug/L
|	Tl	205	50.005	-0.00	-0.0012	0.002	181.915	ug/L
|	Pb	206	563.688	-0.00	-0.0020	0.003	133.943	ug/L
|	Pb	207	487.017	0.00	0.0064	0.002	29.642	ug/L
|	Pb	208	2302.463	0.00	0.0033	0.002	59.017	ug/L
|	U	238	57.001	0.00	0.0077	0.000	4.448	ug/L
⌊>	Bi	209	409245.126	409245.13				ug/L

Approved: November 29, 2010

Na	23	12572.490	-0.00	-0.0025	0.000	1.479	mg/L
Mg	24	226.692	-0.00	-0.0029	0.000	0.275	mg/L
K	39	451677.386	0.05	-0.0011	0.001	87.765	mg/L
Ca	43	186.687	0.00	0.0009	0.002	231.547	mg/L
Fe	54	50891.551	-0.00	0.0026	0.002	59.444	mg/L
Fe	57	7570.306	0.00	-0.0009	0.003	298.478	mg/L
> Sc-1	45	275030.915	275030.91				mg/L
Cl	35	35635.400	10509.20				mg/L
Kr	83	39.334	-6.00				mg/L
Br	81	8304.115	-529.12				mg/L
P	31	10094.432	-399.78				mg/L
S	34	175741.270	2582.47				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		93.304			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		96.384			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		97.504			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		94.582			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 14:58:12

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 14:58:12

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: PBW 4A WG349431-03

Sample Date/Time: Wednesday, November 24, 2010 15:02:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 34
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37670.970	0.02				ug/L
|	Be	9	6.000	-0.00	0.0480	0.005	10.839	ug/L
|	Al	27	5718.314	-0.00	-0.0363	0.099	273.906	ug/L
⌊>	Sc	45	274911.379	274911.38				ug/L
⌈	Ti	49	30.003	-0.00	-0.0893	0.047	52.130	ug/L
|	V	51	2897.454	0.00	0.0228	0.007	29.218	ug/L
|	Cr	52	9174.298	0.00	0.0724	0.012	16.346	ug/L
|	Cr	53	230.026	-0.00	-0.1439	0.018	12.859	ug/L
|	Mn	55	588.023	0.00	0.0077	0.001	7.472	ug/L
|	Co	59	198.671	-0.00	-0.0048	0.001	27.643	ug/L
|	Ni	60	99.335	0.00	0.0108	0.005	45.060	ug/L
|	Cu	65	139.669	0.00	-0.0098	0.005	47.874	ug/L
|	Zn	66	2812.424	0.00	1.0964	0.055	5.051	ug/L
| >	Ge	72	421793.523	421793.52				ug/L
|	As	75	-120.284	0.00	0.0993	0.085	85.385	ug/L
|	Se	77	73.341	0.00	0.1435	0.084	58.315	ug/L
|	Se	82	4.342	0.00	0.0805	0.129	160.669	ug/L
⌊	Rb	85	20.334	0.00				mg/L
	Y	89	225752.332	-25041.77				ug/L
	Rh	103	5.333	-13.67				ug/L
⌈	Mo	98	46.608	0.00	0.0427	0.002	4.592	ug/L
|	Ag	107	26.334	-0.00	-0.0714	0.002	3.180	ug/L
|	Cd	114	12.707	0.00	-0.0022	0.000	20.319	ug/L
| >	In	115	319606.011	319606.01				ug/L
|	Sn	118	729.627	-0.00	-0.0997	0.003	3.212	ug/L
⌊	Sb	123	95.288	0.00	0.0323	0.001	4.607	ug/L
⌈	Ba	135	23.000	-0.00	0.0041	0.003	83.175	ug/L
|	Ce	140	46.671	-0.00				ug/L
⌊>	Tb	159	424588.943	424588.94				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	15.667	-0.00	0.0045	0.001	14.350	ug/L
|	Tl	205	60.006	-0.00	-0.0007	0.001	147.676	ug/L
|	Pb	206	557.021	-0.00	-0.0053	0.005	99.191	ug/L
|	Pb	207	472.016	-0.00	0.0015	0.003	192.573	ug/L
|	Pb	208	2221.787	-0.00	-0.0022	0.002	99.729	ug/L
|	U	238	23.334	-0.00	0.0068	0.000	2.635	ug/L
⌊>	Bi	209	417787.096	417787.10				ug/L

Sample ID: PBW 4A WG349431-03
Report Date/Time: Wednesday, November 24, 2010 15:04:59
Page 1

Approved: November 29, 2010

⌈	Na	23	19447.511	0.02	-0.0013	0.000	10.753	mg/L
|	Mg	24	900.131	0.00	-0.0028	0.000	1.262	mg/L
|	K	39	457105.543	0.07	-0.0005	0.001	189.019	mg/L
|	Ca	43	196.688	0.00	0.0014	0.002	138.702	mg/L
|	Fe	54	52042.752	0.00	0.0043	0.001	25.839	mg/L
|	Fe	57	7396.812	0.00	-0.0015	0.002	101.743	mg/L
⌊>	Sc-1	45	274911.379	274911.38				mg/L
	Cl	35	34866.031	9739.84				mg/L
	Kr	83	37.334	-8.00				mg/L
	Br	81	8670.426	-162.81				mg/L
	P	31	10103.783	-390.43				mg/L
	S	34	172987.871	-170.93				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.581			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.201			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.383			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.556			
⌈	Na	23					

Sample ID: PBW 4A WG349431-03
Report Date/Time: Wednesday, November 24, 2010 15:04:59
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 4A WG349431-03
Report Date/Time: Wednesday, November 24, 2010 15:04:59
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: LCSW 4A WG349431-04

Sample Date/Time: Wednesday, November 24, 2010 15:09:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 35
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38289.862	0.02				ug/L
|	Be	9	9895.561	0.03	25.0240	0.434	1.733	ug/L
|	Al	27	159733.746	0.53	22.7721	0.799	3.508	ug/L
⌊>	Sc	45	288176.893	288176.89				ug/L
⌈	Ti	49	73.341	0.00	-0.0229	0.070	303.916	ug/L
|	V	51	262305.135	0.62	25.4127	0.464	1.827	ug/L
|	Cr	52	230067.411	0.53	25.6662	0.501	1.951	ug/L
|	Cr	53	26410.819	0.06	26.0565	0.715	2.746	ug/L
|	Mn	55	348140.802	0.82	26.1412	0.439	1.678	ug/L
|	Co	59	298112.635	0.71	26.2000	0.058	0.221	ug/L
|	Ni	60	64404.388	0.15	26.8230	0.411	1.531	ug/L
|	Cu	65	65240.116	0.15	26.4531	0.258	0.974	ug/L
|	Zn	66	38147.007	0.09	26.7236	0.327	1.225	ug/L
|>	Ge	72	421968.868	421968.87				ug/L
|	As	75	22908.164	0.05	24.6990	0.291	1.179	ug/L
|	Se	77	1693.647	0.00	24.4286	2.300	9.414	ug/L
|	Se	82	2101.883	0.00	24.6906	0.036	0.147	ug/L
⌊	Rb	85	22.667	0.00				mg/L
	Y	89	228936.996	-21857.10				ug/L
	Rh	103	13.000	-6.00				ug/L
⌈	Mo	98	36.306	0.00	0.0378	0.005	12.704	ug/L
|	Ag	107	112939.011	0.35	25.0699	0.293	1.170	ug/L
|	Cd	114	26591.224	0.08	25.4261	0.331	1.301	ug/L
|>	In	115	321075.913	321075.91				ug/L
|	Sn	118	757.762	-0.00	-0.0929	0.009	9.247	ug/L
⌊	Sb	123	83650.674	0.26	25.7426	0.202	0.784	ug/L
⌈	Ba	135	40531.380	0.10	24.7651	0.271	1.094	ug/L
|	Ce	140	33.337	-0.00				ug/L
⌊>	Tb	159	426047.410	426047.41				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	170846.170	0.40	24.5425	0.285	1.160	ug/L
|	Tl	205	416739.161	0.98	24.3938	0.390	1.601	ug/L
|	Pb	206	142982.453	0.34	24.8919	0.214	0.860	ug/L
|	Pb	207	126694.560	0.30	24.2470	0.260	1.072	ug/L
|	Pb	208	586390.758	1.38	24.6974	0.144	0.583	ug/L
|	U	238	937067.458	2.21	24.5961	0.226	0.920	ug/L
⌊>	Bi	209	423859.675	423859.67				ug/L

Approved: November 29, 2010

⌈	Na	23	25027.128	0.04	-0.0005	0.000	26.529	mg/L
|	Mg	24	1103.505	0.00	-0.0027	0.000	0.647	mg/L
|	K	39	472134.834	0.04	-0.0012	0.001	54.970	mg/L
|	Ca	43	320.037	0.00	0.0069	0.001	14.904	mg/L
|	Fe	54	52341.265	-0.00	0.0013	0.001	87.146	mg/L
|	Fe	57	7443.513	0.00	-0.0026	0.000	14.401	mg/L
⌊>	Sc-1	45	288176.893	288176.89				mg/L
	Cl	35	35110.870	9984.68				mg/L
	Kr	83	42.334	-3.00				mg/L
	Br	81	8244.731	-588.51				mg/L
	P	31	10223.248	-270.96				mg/L
	S	34	182272.222	9113.42				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.621			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.653			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.727			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.959			
⌈	Na	23					

Sample ID: LCSW 4A WG349431-04
Report Date/Time: Wednesday, November 24, 2010 15:11:42
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063501 WG349431-01

Sample Date/Time: Wednesday, November 24, 2010 15:16:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 36
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40866.680	0.03				ug/L
|	Be	9	8.667	0.00	0.0547	0.011	20.120	ug/L
|	Al	27	96934.910	0.33	13.9208	0.803	5.765	ug/L
⌊>	Sc	45	279262.598	279262.60				ug/L
⌈	Ti	49	1717.017	0.00	2.6825	1.614	60.157	ug/L
|	V	51	6637.139	0.01	0.4308	0.022	5.195	ug/L
|	Cr	52	22800.860	0.04	1.8219	0.024	1.300	ug/L
|	Cr	53	1126.843	0.00	0.8268	0.088	10.599	ug/L
|	Mn	55	2403044.503	6.06	192.3503	2.877	1.496	ug/L
|	Co	59	5770.389	0.01	0.5182	0.013	2.488	ug/L
|	Ni	60	10750.551	0.03	4.7428	0.142	3.002	ug/L
|	Cu	65	2182.593	0.01	0.8780	0.013	1.492	ug/L
|	Zn	66	59210.702	0.15	44.7857	0.582	1.301	ug/L
|>	Ge	72	396301.997	396302.00				ug/L
|	As	75	27.784	0.00	0.2593	0.077	29.584	ug/L
|	Se	77	106.678	0.00	0.7471	0.195	26.112	ug/L
|	Se	82	49.369	0.00	0.6447	0.215	33.381	ug/L
⌊	Rb	85	11938.242	0.03				mg/L
	Y	89	218506.908	-32287.19				ug/L
	Rh	103	70.668	51.67				ug/L
⌈	Mo	98	1371.194	0.00	0.6966	0.018	2.604	ug/L
|	Ag	107	51.001	-0.00	-0.0653	0.001	1.781	ug/L
|	Cd	114	551.902	0.00	0.5409	0.021	3.933	ug/L
|>	In	115	305372.024	305372.02				ug/L
|	Sn	118	888.306	-0.00	-0.0444	0.008	19.105	ug/L
⌊	Sb	123	424.426	0.00	0.1404	0.013	9.338	ug/L
⌈	Ba	135	27612.022	0.06	16.8200	0.067	0.399	ug/L
|	Ce	140	740.104	0.00				ug/L
⌊>	Tb	159	427235.481	427235.48				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	76.668	0.00	0.0145	0.001	9.526	ug/L
|	Tl	205	203.356	0.00	0.0090	0.003	35.269	ug/L
|	Pb	206	861.379	0.00	0.0639	0.002	3.835	ug/L
|	Pb	207	701.365	0.00	0.0598	0.011	18.279	ug/L
|	Pb	208	3344.254	0.00	0.0602	0.004	5.879	ug/L
|	U	238	16697.764	0.04	0.4952	0.004	0.874	ug/L
⌊>	Bi	209	379843.886	379843.89				ug/L

Sample ID: L1011063501 WG349431-01
Report Date/Time: Wednesday, November 24, 2010 15:18:26
Page 1

Approved: November 29, 2010

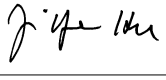
Na	23	96894726.234	346.90	16.4697	0.255	1.549	mg/L
Mg	24	42763144.375	153.12	11.0177	0.057	0.519	mg/L
K	39	18427428.721	64.40	1.8623	0.031	1.662	mg/L
Ca	43	1202677.948	4.31	59.7029	0.359	0.601	mg/L
Fe	54	270599.204	0.78	0.3175	0.013	4.009	mg/L
Fe	57	131090.610	0.44	0.4438	0.014	3.087	mg/L
> Sc-1	45	279262.598	279262.60				mg/L
Cl	35	443290.029	418163.83				mg/L
Kr	83	34.334	-11.00				mg/L
Br	81	18954.632	10121.40				mg/L
P	31	20048.114	9553.90				mg/L
S	34	1645855.925	1472697.12				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		89.805			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		93.828			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		101.008			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		87.787			
Na	23					

Sample ID: L1011063501 WG349431-01
Report Date/Time: Wednesday, November 24, 2010 15:18:26
Page 2

Approved: November 29, 2010



| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011063501 WG349431-01
Report Date/Time: Wednesday, November 24, 2010 15:18:26
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063501DP WG349431-05

Sample Date/Time: Wednesday, November 24, 2010 15:23:00
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 37
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43444.384	0.05				ug/L
|	Be	9	10.000	0.00	0.0590	0.017	28.907	ug/L
|	Al	27	131612.079	0.46	19.5000	0.179	0.918	ug/L
|>	Sc	45	275464.353	275464.35				ug/L
⌈	Ti	49	1290.213	0.00	1.9764	0.225	11.402	ug/L
|	V	51	5884.745	0.01	0.3526	0.007	2.011	ug/L
|	Cr	52	19476.810	0.03	1.4127	0.028	1.959	ug/L
|	Cr	53	1426.911	0.00	1.1473	0.063	5.453	ug/L
|	Mn	55	2393174.388	6.04	191.6283	1.071	0.559	ug/L
|	Co	59	5769.722	0.01	0.5183	0.006	1.167	ug/L
|	Ni	60	10456.569	0.03	4.6133	0.038	0.833	ug/L
|	Cu	65	2157.588	0.01	0.8678	0.021	2.396	ug/L
|	Zn	66	58657.797	0.15	44.3725	0.407	0.916	ug/L
|>	Ge	72	396166.833	396166.83				ug/L
|	As	75	32.663	0.00	0.2643	0.084	31.807	ug/L
|	Se	77	133.348	0.00	1.1773	1.099	93.306	ug/L
|	Se	82	53.699	0.00	0.6994	0.181	25.835	ug/L
⌊	Rb	85	12161.179	0.03				mg/L
	Y	89	224100.049	-26694.05				ug/L
	Rh	103	88.335	69.33				ug/L
⌈	Mo	98	1402.126	0.00	0.6810	0.016	2.354	ug/L
|	Ag	107	49.334	-0.00	-0.0662	0.000	0.092	ug/L
|	Cd	114	541.113	0.00	0.5063	0.048	9.455	ug/L
|>	In	115	319493.374	319493.37				ug/L
|	Sn	118	824.034	-0.00	-0.0735	0.008	10.269	ug/L
⌊	Sb	123	290.000	0.00	0.0926	0.006	6.322	ug/L
⌈	Ba	135	27957.309	0.06	16.2900	0.225	1.380	ug/L
|	Ce	140	640.085	0.00				ug/L
|>	Tb	159	446706.184	446706.18				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	76.668	0.00	0.0141	0.000	1.830	ug/L
|	Tl	205	206.690	0.00	0.0088	0.002	23.123	ug/L
|	Pb	206	826.042	0.00	0.0518	0.006	11.091	ug/L
|	Pb	207	728.701	0.00	0.0606	0.002	3.181	ug/L
|	Pb	208	3340.587	0.00	0.0550	0.002	3.708	ug/L
|	U	238	17137.177	0.04	0.4918	0.001	0.119	ug/L
|>	Bi	209	392545.578	392545.58				ug/L

Approved: November 29, 2010

⌈	Na	23	100065964.802	363.45	17.2558	0.384	2.224	mg/L
|	Mg	24	43121867.592	156.62	11.2690	0.174	1.545	mg/L
|	K	39	18390605.883	65.24	1.8866	0.064	3.375	mg/L
|	Ca	43	1207909.624	4.39	60.8344	1.512	2.486	mg/L
|	Fe	54	271697.736	0.80	0.3249	0.016	4.832	mg/L
|	Fe	57	131265.905	0.45	0.4515	0.022	4.886	mg/L
⌊>	Sc-1	45	275464.353	275464.35				mg/L
	Cl	35	449541.763	424415.57				mg/L
	Kr	83	34.667	-10.67				mg/L
	Br	81	20146.291	11313.05				mg/L
	P	31	18009.598	7515.39				mg/L
	S	34	1633875.412	1460716.61				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.774			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.167			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.612			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		90.722			
⌈	Na	23					

Sample ID: L1011063501DP WG349431-05
Report Date/Time: Wednesday, November 24, 2010 15:25:11
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063501S WG349431-06

Sample Date/Time: Wednesday, November 24, 2010 15:29:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43695.881	0.06				ug/L
|	Be	9	9268.961	0.04	25.9731	0.809	3.114	ug/L
|	Al	27	432838.608	1.64	70.3190	5.775	8.213	ug/L
⌊>	Sc	45	260141.708	260141.71				ug/L
⌈	Ti	49	1270.208	0.00	2.0301	0.178	8.756	ug/L
|	V	51	239495.309	0.62	25.7210	0.238	0.926	ug/L
|	Cr	52	218249.478	0.55	27.0377	0.419	1.550	ug/L
|	Cr	53	25063.874	0.06	27.4288	0.130	0.474	ug/L
|	Mn	55	2593418.846	6.81	216.1164	0.950	0.440	ug/L
|	Co	59	275519.112	0.72	26.8412	0.178	0.665	ug/L
|	Ni	60	66292.023	0.17	30.6067	0.418	1.366	ug/L
|	Cu	65	57082.696	0.15	25.6535	0.127	0.495	ug/L
|	Zn	66	84780.382	0.22	67.2144	0.183	0.272	ug/L
|>	Ge	72	380680.272	380680.27				ug/L
|	As	75	20013.594	0.05	23.9266	0.406	1.698	ug/L
|	Se	77	1403.573	0.00	22.3585	2.855	12.771	ug/L
|	Se	82	1739.814	0.00	22.6566	0.408	1.799	ug/L
⌊	Rb	85	11916.883	0.03				mg/L
	Y	89	221044.931	-29749.17				ug/L
	Rh	103	78.001	59.00				ug/L
⌈	Mo	98	1380.712	0.00	0.6939	0.013	1.882	ug/L
|	Ag	107	97075.321	0.31	22.4081	0.471	2.104	ug/L
|	Cd	114	23947.794	0.08	23.8195	0.127	0.533	ug/L
|>	In	115	308649.844	308649.84				ug/L
|	Sn	118	885.373	-0.00	-0.0481	0.004	7.774	ug/L
⌊	Sb	123	74797.526	0.24	23.9449	0.142	0.591	ug/L
⌈	Ba	135	64369.490	0.15	38.5463	0.353	0.915	ug/L
|	Ce	140	2003.735	0.00				ug/L
⌊>	Tb	159	434727.667	434727.67				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	161201.861	0.42	25.6357	0.226	0.883	ug/L
|	Tl	205	397350.859	1.04	25.7511	0.533	2.071	ug/L
|	Pb	206	135624.217	0.35	26.1445	0.304	1.164	ug/L
|	Pb	207	119493.893	0.31	25.3219	0.177	0.700	ug/L
|	Pb	208	551122.677	1.43	25.7009	0.191	0.742	ug/L
|	U	238	923716.638	2.41	26.8416	0.283	1.054	ug/L
⌊>	Bi	209	382878.647	382878.65				ug/L

Sample ID: L1011063501S WG349431-06
Report Date/Time: Wednesday, November 24, 2010 15:31:55
Page 1

Approved: November 29, 2010

Na	23	95998810.096	369.08	17.5229	0.333	1.898	mg/L	
Mg	24	40388341.065	155.29	11.1732	0.148	1.327	mg/L	
K	39	17471635.936	65.59	1.8967	0.041	2.151	mg/L	
Ca	43	1145546.774	4.40	61.0654	1.350	2.211	mg/L	
Fe	54	279095.983	0.89	0.3594	0.012	3.326	mg/L	
Fe	57	134335.652	0.49	0.4916	0.044	8.898	mg/L	
> Sc-1	45	260141.708	260141.71				mg/L	
Cl	35	412808.027	387681.83				mg/L	
Kr	83	41.667	-3.67				mg/L	
Br	81	20300.590	11467.35				mg/L	
P	31	18109.746	7615.53				mg/L	
S	34	1515320.825	1342162.02				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		86.265			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		94.835			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		102.780			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		88.488			
Na	23					

Sample ID: L1011063501S WG349431-06
Report Date/Time: Wednesday, November 24, 2010 15:31:55
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063601

Sample Date/Time: Wednesday, November 24, 2010 15:36:29
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 39
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44632.819	0.05				ug/L
|	Be	9	4.667	-0.00	0.0441	0.013	29.185	ug/L
|	Al	27	70514.652	0.23	9.8121	0.329	3.355	ug/L
⌊>	Sc	45	280770.792	280770.79				ug/L
⌈	Ti	49	486.727	0.00	0.6605	0.101	15.245	ug/L
|	V	51	7287.787	0.01	0.4977	0.029	5.729	ug/L
|	Cr	52	15128.253	0.02	0.8733	0.000	0.056	ug/L
|	Cr	53	906.798	0.00	0.5912	0.029	4.894	ug/L
|	Mn	55	353710.638	0.89	28.2524	0.156	0.554	ug/L
|	Co	59	1149.411	0.00	0.0853	0.004	5.160	ug/L
|	Ni	60	7313.748	0.02	3.2128	0.093	2.888	ug/L
|	Cu	65	3474.305	0.01	1.4356	0.028	1.982	ug/L
|	Zn	66	31313.262	0.08	23.2126	0.080	0.346	ug/L
|>	Ge	72	396714.037	396714.04				ug/L
|	As	75	-34.477	0.00	0.1886	0.036	19.270	ug/L
|	Se	77	73.341	0.00	0.2132	0.184	86.433	ug/L
|	Se	82	34.406	0.00	0.4589	0.020	4.341	ug/L
⌊	Rb	85	5760.716	0.01				mg/L
	Y	89	232904.090	-17890.01				ug/L
	Rh	103	46.334	27.33				ug/L
⌈	Mo	98	574.734	0.00	0.2777	0.008	2.709	ug/L
|	Ag	107	58.667	-0.00	-0.0648	0.003	5.347	ug/L
|	Cd	114	50.804	0.00	0.0320	0.000	1.195	ug/L
|>	In	115	336673.969	336673.97				ug/L
|	Sn	118	1144.332	0.00	-0.0013	0.006	427.724	ug/L
⌊	Sb	123	365.379	0.00	0.1102	0.007	6.261	ug/L
⌈	Ba	135	25087.349	0.05	14.1644	0.230	1.623	ug/L
|	Ce	140	153.350	0.00				ug/L
⌊>	Tb	159	460909.078	460909.08				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	69.001	0.00	0.0124	0.001	5.696	ug/L
|	Tl	205	180.020	0.00	0.0066	0.003	52.019	ug/L
|	Pb	206	902.716	0.00	0.0580	0.006	10.277	ug/L
|	Pb	207	802.040	0.00	0.0678	0.007	9.754	ug/L
|	Pb	208	3643.964	0.00	0.0608	0.003	5.027	ug/L
|	U	238	2535.347	0.01	0.0746	0.002	3.294	ug/L
⌊>	Bi	209	412595.336	412595.34				ug/L

Sample ID: L1011063601
Report Date/Time: Wednesday, November 24, 2010 15:38:40
Page 1

Approved: November 29, 2010

⌈	Na	23	71142847.779	253.38	12.0291	0.256	2.125	mg/L
|	Mg	24	17913914.427	63.80	4.5892	0.023	0.508	mg/L
|	K	39	12488945.664	42.89	1.2394	0.006	0.512	mg/L
|	Ca	43	440430.397	1.57	21.7428	0.377	1.735	mg/L
|	Fe	54	154594.351	0.37	0.1495	0.007	4.843	mg/L
|	Fe	57	45119.409	0.14	0.1331	0.003	2.411	mg/L
⌊>	Sc-1	45	280770.792	280770.79				mg/L
	Cl	35	301321.746	276195.55				mg/L
	Kr	83	30.000	-15.33				mg/L
	Br	81	17569.422	8736.19				mg/L
	P	31	22137.841	11643.63				mg/L
	S	34	664637.741	491478.94				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.898			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.446			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.969			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.356			
⌈	Na	23					

Sample ID: L1011063601
Report Date/Time: Wednesday, November 24, 2010 15:38:40
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011063601
Report Date/Time: Wednesday, November 24, 2010 15:38:40
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063601PS WG349649-01

Sample Date/Time: Wednesday, November 24, 2010 15:43:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 40
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42055.009	0.04				ug/L
|	Be	9	20172.328	0.08	54.7203	2.023	3.697	ug/L
|	Al	27	379624.717	1.39	59.5309	1.919	3.223	ug/L
⌊>	Sc	45	268664.454	268664.45				ug/L
⌈	Ti	49	476.726	0.00	0.6451	0.069	10.748	ug/L
|	V	51	509425.801	1.28	52.8184	0.450	0.852	ug/L
|	Cr	52	444044.930	1.10	53.7794	1.002	1.864	ug/L
|	Cr	53	51406.998	0.13	54.3935	1.545	2.840	ug/L
|	Mn	55	1040173.838	2.62	83.2278	1.565	1.881	ug/L
|	Co	59	584301.114	1.47	54.6948	0.855	1.562	ug/L
|	Ni	60	128437.535	0.32	56.9790	0.571	1.003	ug/L
|	Cu	65	121310.331	0.31	52.4310	0.775	1.477	ug/L
|	Zn	66	88311.810	0.22	67.2438	0.620	0.922	ug/L
|>	Ge	72	396363.492	396363.49				ug/L
|	As	75	41173.569	0.10	47.0531	0.469	0.997	ug/L
|	Se	77	2844.025	0.01	44.4230	4.779	10.759	ug/L
|	Se	82	3602.051	0.01	45.0238	0.875	1.944	ug/L
⌊	Rb	85	5652.320	0.01				mg/L
	Y	89	231113.243	-19680.85				ug/L
	Rh	103	57.334	38.33				ug/L
⌈	Mo	98	616.148	0.00	0.2958	0.011	3.825	ug/L
|	Ag	107	212432.201	0.63	44.9607	1.141	2.537	ug/L
|	Cd	114	52558.460	0.16	47.8719	1.425	2.977	ug/L
|>	In	115	337220.282	337220.28				ug/L
|	Sn	118	1326.488	0.00	0.0457	0.004	9.463	ug/L
⌊	Sb	123	163732.530	0.49	47.9733	0.273	0.569	ug/L
⌈	Ba	135	106676.733	0.23	59.0097	0.401	0.679	ug/L
|	Ce	140	210.023	0.00				ug/L
⌊>	Tb	159	470659.458	470659.46				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	358273.327	0.86	52.2545	0.231	0.442	ug/L
|	Tl	205	878106.674	2.10	52.1943	0.281	0.538	ug/L
|	Pb	206	300114.653	0.72	53.1682	0.218	0.409	ug/L
|	Pb	207	265766.603	0.64	51.7473	0.481	0.929	ug/L
|	Pb	208	1224786.205	2.93	52.4866	0.158	0.300	ug/L
|	U	238	1975550.473	4.73	52.6446	0.409	0.777	ug/L
⌊>	Bi	209	417450.181	417450.18				ug/L

Sample ID: L1011063601PS WG349649-01
Report Date/Time: Wednesday, November 24, 2010 15:45:25
Page 1

Approved: November 29, 2010

⌈	Na	23	69614968.132	259.35	12.3127	0.543	4.412	mg/L
|	Mg	24	17487061.608	65.15	4.6858	0.170	3.638	mg/L
|	K	39	11923369.893	42.82	1.2374	0.036	2.871	mg/L
|	Ca	43	430288.296	1.60	22.2213	0.982	4.418	mg/L
|	Fe	54	150524.709	0.38	0.1535	0.007	4.320	mg/L
|	Fe	57	44978.948	0.14	0.1401	0.012	8.749	mg/L
⌊>	Sc-1	45	268664.454	268664.45				mg/L
	Cl	35	291719.961	266593.77				mg/L
	Kr	83	36.000	-9.33				mg/L
	Br	81	17638.209	8804.97				mg/L
	P	31	23361.296	12867.08				mg/L
	S	34	658132.289	484973.49				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.818			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.613			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.275			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.478			
⌈	Na	23					

Sample ID: L1011063601PS WG349649-01
Report Date/Time: Wednesday, November 24, 2010 15:45:25
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011063601PS WG349649-01
Report Date/Time: Wednesday, November 24, 2010 15:45:25
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063601SDL WG349649-02

Sample Date/Time: Wednesday, November 24, 2010 15:50:00
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 41
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39996.557	0.03				ug/L
|	Be	9	9.333	0.00	0.0565	0.008	14.794	ug/L
|	Al	27	19285.410	0.05	2.0291	0.378	18.624	ug/L
⌊>	Sc	45	279366.512	279366.51				ug/L
⌈	Ti	49	113.345	0.00	0.0451	0.082	181.092	ug/L
|	V	51	3557.494	0.00	0.0990	0.009	9.529	ug/L
|	Cr	52	9804.235	0.00	0.1831	0.018	9.912	ug/L
|	Cr	53	363.376	-0.00	0.0017	0.029	1742.681	ug/L
|	Mn	55	67460.461	0.16	5.2063	0.026	0.505	ug/L
|	Co	59	402.679	0.00	0.0143	0.003	18.810	ug/L
|	Ni	60	1525.465	0.00	0.6268	0.010	1.613	ug/L
|	Cu	65	825.376	0.00	0.2803	0.012	4.401	ug/L
|	Zn	66	9407.851	0.02	6.1081	0.084	1.375	ug/L
|>	Ge	72	408268.712	408268.71				ug/L
|	As	75	-94.641	0.00	0.1234	0.014	11.392	ug/L
|	Se	77	53.339	-0.00	-0.1265	0.453	358.295	ug/L
|	Se	82	15.076	0.00	0.2121	0.088	41.588	ug/L
⌊	Rb	85	1080.069	0.00				mg/L
	Y	89	234562.828	-16231.27				ug/L
	Rh	103	13.667	-5.33				ug/L
⌈	Mo	98	130.787	0.00	0.0796	0.004	5.333	ug/L
|	Ag	107	66.334	-0.00	-0.0631	0.001	1.304	ug/L
|	Cd	114	21.338	0.00	0.0052	0.002	29.406	ug/L
|>	In	115	334664.561	334664.56				ug/L
|	Sn	118	784.031	-0.00	-0.0944	0.011	11.749	ug/L
⌊	Sb	123	294.420	0.00	0.0898	0.007	7.740	ug/L
⌈	Ba	135	4791.862	0.01	2.6976	0.031	1.135	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	460850.662	460850.66				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	67.668	0.00	0.0114	0.002	20.398	ug/L
|	Tl	205	133.348	-0.00	0.0031	0.003	101.776	ug/L
|	Pb	206	646.027	-0.00	0.0032	0.001	16.791	ug/L
|	Pb	207	590.357	0.00	0.0172	0.006	32.690	ug/L
|	Pb	208	2665.500	0.00	0.0095	0.001	8.046	ug/L
|	U	238	720.033	0.00	0.0241	0.001	3.623	ug/L
⌊>	Bi	209	446188.771	446188.77				ug/L

Approved: November 29, 2010

⌈	Na	23	13413362.010	47.99	2.2762	0.092	4.038	mg/L
|	Mg	24	3383017.156	12.11	0.8688	0.017	1.991	mg/L
|	K	39	2713307.798	8.12	0.2326	0.001	0.325	mg/L
|	Ca	43	83156.187	0.30	4.1181	0.080	1.941	mg/L
|	Fe	54	69912.405	0.06	0.0289	0.003	10.282	mg/L
|	Fe	57	13981.194	0.03	0.0218	0.004	20.343	mg/L
⌊>	Sc-1	45	279366.512	279366.51				mg/L
	Cl	35	82779.287	57653.09				mg/L
	Kr	83	29.667	-15.67				mg/L
	Br	81	10527.543	1694.31				mg/L
	P	31	13217.428	2723.22				mg/L
	S	34	295065.691	121906.89				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.516			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.828			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.956			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.120			
⌈	Na	23					

Sample ID: L1011063601SDL WG349649-02
Report Date/Time: Wednesday, November 24, 2010 15:52:11
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011063601SDL WG349649-02
Report Date/Time: Wednesday, November 24, 2010 15:52:11
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 15:56:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40916.985	0.05				ug/L
|	Be	9	20038.727	0.08	56.1948	2.370	4.217	ug/L
|	Al	27	316446.064	1.20	51.1628	0.776	1.516	ug/L
⌊>	Sc	45	259851.105	259851.11				ug/L
⌈	Ti	49	60585.706	0.15	98.3139	2.425	2.467	ug/L
|	V	51	480591.278	1.20	49.4148	0.111	0.224	ug/L
|	Cr	52	408704.179	1.00	49.0163	0.294	0.601	ug/L
|	Cr	53	47869.113	0.12	50.2158	0.791	1.574	ug/L
|	Mn	55	651557.487	1.63	51.7040	0.043	0.084	ug/L
|	Co	59	548826.264	1.37	50.9540	1.065	2.089	ug/L
|	Ni	60	116182.523	0.29	51.1296	0.316	0.618	ug/L
|	Cu	65	116130.229	0.29	49.7817	0.807	1.621	ug/L
|	Zn	66	68138.370	0.17	51.2509	0.446	0.870	ug/L
|>	Ge	72	399553.393	399553.39				ug/L
|	As	75	43385.207	0.11	49.1733	0.640	1.302	ug/L
|	Se	77	3284.204	0.01	50.9894	4.381	8.592	ug/L
|	Se	82	4177.628	0.01	51.7908	0.511	0.987	ug/L
⌊	Rb	85	1657.154	0.00				mg/L
	Y	89	228360.594	-22433.50				ug/L
	Rh	103	23.667	4.67				ug/L
⌈	Mo	98	195955.018	0.61	91.0966	1.074	1.179	ug/L
|	Ag	107	217197.734	0.67	47.8821	0.671	1.401	ug/L
|	Cd	114	53140.327	0.16	50.4004	1.425	2.828	ug/L
|>	In	115	323775.800	323775.80				ug/L
|	Sn	118	178642.112	0.55	48.3122	0.270	0.558	ug/L
⌊	Sb	123	160165.606	0.49	48.8755	0.597	1.222	ug/L
⌈	Ba	135	77523.189	0.17	44.9807	1.055	2.345	ug/L
|	Ce	140	56.672	0.00				ug/L
⌊>	Tb	159	448702.014	448702.01				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	348840.673	0.81	49.2737	0.203	0.413	ug/L
|	Tl	205	860702.878	2.00	49.5510	1.016	2.050	ug/L
|	Pb	206	283410.341	0.66	48.6173	0.590	1.213	ug/L
|	Pb	207	267171.564	0.62	50.3768	0.264	0.525	ug/L
|	Pb	208	1192625.190	2.76	49.4912	0.082	0.166	ug/L
|	U	238	1937511.904	4.49	50.0010	0.516	1.031	ug/L
⌊>	Bi	209	431046.477	431046.48				ug/L

Approved: November 29, 2010

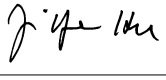
Na	23	28050042.940	107.95	5.1235	0.137	2.681	mg/L	
Mg	24	18185042.440	70.01	5.0357	0.106	2.105	mg/L	
K	39	44213020.986	168.70	4.8825	0.227	4.656	mg/L	
Ca	43	95331.796	0.37	5.0817	0.203	4.001	mg/L	
Fe	54	3265902.645	12.39	4.9801	0.237	4.756	mg/L	
Fe	57	1356405.434	5.20	5.2303	0.346	6.608	mg/L	
> Sc-1	45	259851.105	259851.11				mg/L	
Cl	35	27495.754	2369.56				mg/L	
Kr	83	34.667	-10.67				mg/L	
Br	81	8240.062	-593.17				mg/L	
P	31	10168.507	-325.70				mg/L	
S	34	192448.788	19289.99				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	98.830				
Cr	52	98.033				
Cr	53					
Mn	55	103.408				
Co	59	101.908				
Ni	60	102.259				
Cu	65	99.563				
Zn	66	102.502				
> Ge	72		90.541			
As	75	98.347				
Se	77					
Se	82	103.582				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	95.764				
Cd	114	100.801				
> In	115		99.483			
Sn	118					
Sb	123	97.751				
Ba	135	89.961				
Ce	140					
> Tb	159		106.083			
Ho	165					
Tl	203	98.547				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.982				
U	238	100.002				
> Bi	209		99.620			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 15:58:57

Approved: November 29, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Ba	135	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 15:58:57
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 16:03:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39829.304	0.04				ug/L
|	Be	9	4.667	-0.00	0.0448	0.008	18.067	ug/L
|	Al	27	4801.175	-0.00	-0.1544	0.120	77.697	ug/L
⌊>	Sc	45	265667.121	265667.12				ug/L
⌈	Ti	49	43.338	0.00	-0.0654	0.024	37.239	ug/L
|	V	51	2488.637	-0.00	-0.0039	0.005	116.215	ug/L
|	Cr	52	7967.586	-0.00	-0.0170	0.009	52.956	ug/L
|	Cr	53	176.686	-0.00	-0.1876	0.025	13.588	ug/L
|	Mn	55	293.341	-0.00	-0.0132	0.000	3.538	ug/L
|	Co	59	182.337	-0.00	-0.0053	0.002	30.466	ug/L
|	Ni	60	21.000	-0.00	-0.0214	0.002	7.422	ug/L
|	Cu	65	113.002	-0.00	-0.0181	0.004	24.662	ug/L
|	Zn	66	1012.061	-0.00	-0.1696	0.034	19.791	ug/L
|>	Ge	72	399917.933	399917.93				ug/L
|	As	75	-177.345	-0.00	0.0278	0.038	136.865	ug/L
|	Se	77	90.009	0.00	0.4659	0.565	121.377	ug/L
|	Se	82	-7.693	-0.00	-0.0663	0.086	129.178	ug/L
⌊	Rb	85	11.667	-0.00				mg/L
	Y	89	227528.579	-23265.52				ug/L
	Rh	103	5.000	-14.00				ug/L
⌈	Mo	98	73.604	0.00	0.0540	0.006	11.305	ug/L
|	Ag	107	23.000	-0.00	-0.0723	0.001	1.825	ug/L
|	Cd	114	9.818	-0.00	-0.0053	0.001	10.606	ug/L
|>	In	115	332987.654	332987.65				ug/L
|	Sn	118	781.764	-0.00	-0.0940	0.009	9.087	ug/L
⌊	Sb	123	205.748	0.00	0.0639	0.001	1.402	ug/L
⌈	Ba	135	10.667	-0.00	-0.0039	0.002	47.892	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	458468.604	458468.60				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	22.667	-0.00	0.0053	0.000	8.184	ug/L
|	Tl	205	63.340	-0.00	-0.0007	0.001	157.719	ug/L
|	Pb	206	503.018	-0.00	-0.0200	0.003	13.527	ug/L
|	Pb	207	414.013	-0.00	-0.0144	0.001	7.440	ug/L
|	Pb	208	2015.768	-0.00	-0.0160	0.001	7.674	ug/L
|	U	238	70.001	0.00	0.0080	0.000	4.304	ug/L
⌊>	Bi	209	443113.482	443113.48				ug/L

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 16:05:40
Page 1

Approved: November 29, 2010

⌈	Na	23	10963.772	-0.01	-0.0027	0.000	1.993	mg/L
|	Mg	24	476.726	0.00	-0.0029	0.000	0.960	mg/L
|	K	39	419832.605	-0.01	-0.0029	0.000	9.250	mg/L
|	Ca	43	210.023	0.00	0.0025	0.001	27.802	mg/L
|	Fe	54	49500.355	0.00	0.0031	0.003	104.690	mg/L
|	Fe	57	6959.792	0.00	-0.0023	0.001	60.478	mg/L
⌊>	Sc-1	45	265667.121	265667.12				mg/L
	Cl	35	26775.817	1649.62				mg/L
	Kr	83	41.334	-4.00				mg/L
	Br	81	8164.002	-669.23				mg/L
	P	31	9987.671	-506.54				mg/L
	S	34	190471.847	17313.05				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.624			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.313			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.392			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.409			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 16:05:40
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 16:05:40
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063602

Sample Date/Time: Wednesday, November 24, 2010 16:10:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 42
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41402.293	0.04				ug/L
|	Be	9	6.667	-0.00	0.0501	0.009	17.001	ug/L
|	Al	27	3453462.913	12.74	544.9317	25.343	4.651	ug/L
⌊>	Sc	45	270682.249	270682.25				ug/L
⌈	Ti	49	2137.110	0.01	3.3955	0.330	9.706	ug/L
|	V	51	40424.278	0.10	3.9909	0.019	0.485	ug/L
|	Cr	52	22579.359	0.04	1.8203	0.025	1.348	ug/L
|	Cr	53	1837.019	0.00	1.6013	0.029	1.805	ug/L
|	Mn	55	276181.773	0.70	22.2841	0.447	2.006	ug/L
|	Co	59	12634.770	0.03	1.1722	0.021	1.760	ug/L
|	Ni	60	12997.906	0.03	5.7935	0.069	1.190	ug/L
|	Cu	65	61292.208	0.16	26.7110	0.356	1.333	ug/L
|	Zn	66	122364.711	0.31	94.4439	1.862	1.972	ug/L
|>	Ge	72	392654.787	392654.79				ug/L
|	As	75	250.244	0.00	0.5151	0.008	1.641	ug/L
|	Se	77	93.343	0.00	0.5510	0.619	112.288	ug/L
|	Se	82	36.725	0.00	0.4915	0.223	45.380	ug/L
⌊	Rb	85	5122.696	0.01				mg/L
	Y	89	228220.756	-22573.34				ug/L
	Rh	103	29.667	10.67				ug/L
⌈	Mo	98	1742.366	0.01	0.8222	0.046	5.594	ug/L
|	Ag	107	138.002	-0.00	-0.0471	0.004	8.791	ug/L
|	Cd	114	424.492	0.00	0.3840	0.016	4.234	ug/L
|>	In	115	327210.040	327210.04				ug/L
|	Sn	118	1212.073	0.00	0.0255	0.007	25.655	ug/L
⌊	Sb	123	1113.150	0.00	0.3389	0.017	5.019	ug/L
⌈	Ba	135	18375.385	0.04	10.5195	0.134	1.273	ug/L
|	Ce	140	5795.604	0.01				ug/L
⌊>	Tb	159	454441.123	454441.12				ug/L
⌈	Ho	165	100.011	0.00				ug/L
|	Tl	203	107.668	0.00	0.0184	0.000	1.118	ug/L
|	Tl	205	240.027	0.00	0.0105	0.004	35.862	ug/L
|	Pb	206	20892.010	0.05	3.7247	0.055	1.483	ug/L
|	Pb	207	17493.464	0.04	3.4326	0.082	2.402	ug/L
|	Pb	208	82088.535	0.20	3.5413	0.056	1.574	ug/L
|	U	238	5493.230	0.01	0.1573	0.001	0.682	ug/L
⌊>	Bi	209	404361.134	404361.13				ug/L

Sample ID: L1011063602
Report Date/Time: Wednesday, November 24, 2010 16:12:26
Page 1

Approved: November 29, 2010

⌈	Na	23	220336995.823	814.27	38.6622	1.701	4.400	mg/L
|	Mg	24	5482955.753	20.26	1.4553	0.047	3.222	mg/L
|	K	39	6799967.351	23.54	0.6791	0.025	3.656	mg/L
|	Ca	43	221133.673	0.82	11.3232	0.356	3.144	mg/L
|	Fe	54	287507.955	0.88	0.3552	0.017	4.774	mg/L
|	Fe	57	100930.749	0.35	0.3466	0.012	3.326	mg/L
⌊>	Sc-1	45	270682.249	270682.25				mg/L
	Cl	35	534377.738	509251.54				mg/L
	Kr	83	31.667	-13.67				mg/L
	Br	81	18325.448	9492.21				mg/L
	P	31	46696.127	36201.91				mg/L
	S	34	592255.568	419096.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.978			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.538			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		107.440			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.453			
⌈	Na	23					

Sample ID: L1011063602
Report Date/Time: Wednesday, November 24, 2010 16:12:26
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011063602
Report Date/Time: Wednesday, November 24, 2010 16:12:26
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066709

Sample Date/Time: Wednesday, November 24, 2010 16:17:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 43
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41670.124	0.04				ug/L
|	Be	9	5.333	-0.00	0.0463	0.006	12.918	ug/L
|	Al	27	49874.243	0.16	6.9438	0.427	6.145	ug/L
⌊>	Sc	45	271075.337	271075.34				ug/L
⌈	Ti	49	336.706	0.00	0.4148	0.048	11.473	ug/L
|	V	51	3852.712	0.00	0.1398	0.011	7.590	ug/L
|	Cr	52	13386.422	0.01	0.6572	0.019	2.953	ug/L
|	Cr	53	1496.930	0.00	1.2179	0.203	16.640	ug/L
|	Mn	55	402926.893	1.01	32.1625	0.160	0.498	ug/L
|	Co	59	1265.426	0.00	0.0960	0.005	4.788	ug/L
|	Ni	60	5489.895	0.01	2.4021	0.051	2.109	ug/L
|	Cu	65	10476.924	0.03	4.4595	0.058	1.309	ug/L
|	Zn	66	9840.605	0.02	6.6412	0.090	1.352	ug/L
|>	Ge	72	397042.327	397042.33				ug/L
|	As	75	270.607	0.00	0.5351	0.022	4.114	ug/L
|	Se	77	143.349	0.00	1.3262	0.454	34.236	ug/L
|	Se	82	92.396	0.00	1.1815	0.029	2.468	ug/L
⌊	Rb	85	17938.257	0.05				mg/L
	Y	89	231492.371	-19301.73				ug/L
	Rh	103	67.334	48.33				ug/L
⌈	Mo	98	442.023	0.00	0.2263	0.008	3.379	ug/L
|	Ag	107	40.000	-0.00	-0.0684	0.001	1.609	ug/L
|	Cd	114	31.785	0.00	0.0159	0.015	92.729	ug/L
|>	In	115	323631.756	323631.76				ug/L
|	Sn	118	1708.146	0.00	0.1642	0.009	5.479	ug/L
⌊	Sb	123	280.585	0.00	0.0885	0.002	2.264	ug/L
⌈	Ba	135	36362.355	0.08	21.0902	0.299	1.420	ug/L
|	Ce	140	253.362	0.00				ug/L
⌊>	Tb	159	448792.198	448792.20				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	41.000	-0.00	0.0084	0.000	4.560	ug/L
|	Tl	205	100.011	-0.00	0.0019	0.002	86.955	ug/L
|	Pb	206	3248.894	0.01	0.4930	0.004	0.824	ug/L
|	Pb	207	2768.744	0.01	0.4687	0.015	3.264	ug/L
|	Pb	208	12875.057	0.03	0.4748	0.004	0.813	ug/L
|	U	238	2360.636	0.01	0.0713	0.000	0.300	ug/L
⌊>	Bi	209	403177.146	403177.15				ug/L

Sample ID: L1011066709
Report Date/Time: Wednesday, November 24, 2010 16:19:12
Page 1

Approved: November 29, 2010

⌈	Na	23	204789170.719	755.51	35.8719	1.066	2.970	mg/L
|	Mg	24	20344333.740	75.06	5.3990	0.094	1.748	mg/L
|	K	39	28081416.139	101.98	2.9507	0.060	2.019	mg/L
|	Ca	43	384564.595	1.42	19.6595	0.149	0.757	mg/L
|	Fe	54	112736.314	0.23	0.0954	0.002	1.656	mg/L
|	Fe	57	33067.900	0.10	0.0941	0.001	1.426	mg/L
⌊>	Sc-1	45	271075.337	271075.34				mg/L
	Cl	35	1038559.178	1013432.98				mg/L
	Kr	83	31.334	-14.00				mg/L
	Br	81	47300.340	38467.10				mg/L
	P	31	146585.433	136091.22				mg/L
	S	34	509254.079	336095.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.972			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.438			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.105			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.179			
⌈	Na	23					

Sample ID: L1011066709
Report Date/Time: Wednesday, November 24, 2010 16:19:12
Page 2

Approved: November 29, 2010

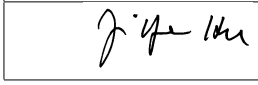
Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066709
Report Date/Time: Wednesday, November 24, 2010 16:19:12
Page 3

Approved: November 29, 2010



Method 6020 - Summary Report

Sample ID: L1011066710

Sample Date/Time: Wednesday, November 24, 2010 16:23:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 44
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44264.510	0.05				ug/L
|	Be	9	6.000	-0.00	0.0479	0.009	18.905	ug/L
|	Al	27	115396.544	0.40	17.0340	1.013	5.945	ug/L
⌊>	Sc	45	274791.071	274791.07				ug/L
⌈	Ti	49	486.727	0.00	0.6572	0.060	9.111	ug/L
|	V	51	4617.496	0.01	0.2175	0.022	10.312	ug/L
|	Cr	52	19221.314	0.03	1.3662	0.029	2.090	ug/L
|	Cr	53	2360.515	0.01	2.1270	0.131	6.164	ug/L
|	Mn	55	840762.037	2.11	66.8858	1.261	1.885	ug/L
|	Co	59	7230.352	0.02	0.6510	0.014	2.226	ug/L
|	Ni	60	7057.560	0.02	3.0842	0.061	1.991	ug/L
|	Cu	65	8592.776	0.02	3.6309	0.064	1.751	ug/L
|	Zn	66	16968.888	0.04	12.0831	0.131	1.082	ug/L
|>	Ge	72	398672.633	398672.63				ug/L
|	As	75	200.769	0.00	0.4548	0.023	4.999	ug/L
|	Se	77	103.344	0.00	0.6817	0.553	81.091	ug/L
|	Se	82	69.975	0.00	0.8981	0.050	5.565	ug/L
⌊	Rb	85	11710.972	0.03				mg/L
	Y	89	232184.311	-18609.79				ug/L
	Rh	103	67.001	48.00				ug/L
⌈	Mo	98	1389.234	0.00	0.6624	0.017	2.613	ug/L
|	Ag	107	92.668	-0.00	-0.0569	0.002	2.789	ug/L
|	Cd	114	42.103	0.00	0.0252	0.014	57.446	ug/L
|>	In	115	325798.245	325798.24				ug/L
|	Sn	118	1350.758	0.00	0.0645	0.003	4.445	ug/L
⌊	Sb	123	800.574	0.00	0.2457	0.006	2.297	ug/L
⌈	Ba	135	33434.138	0.07	19.3161	0.184	0.951	ug/L
|	Ce	140	1013.488	0.00				ug/L
⌊>	Tb	159	450485.406	450485.41				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	55.667	-0.00	0.0106	0.001	5.635	ug/L
|	Tl	205	203.356	0.00	0.0082	0.002	24.625	ug/L
|	Pb	206	2763.743	0.01	0.4019	0.007	1.685	ug/L
|	Pb	207	2386.975	0.00	0.3897	0.008	2.062	ug/L
|	Pb	208	11072.197	0.02	0.3928	0.003	0.840	ug/L
|	U	238	3501.982	0.01	0.1024	0.001	1.286	ug/L
⌊>	Bi	209	404702.836	404702.84				ug/L

Sample ID: L1011066710
Report Date/Time: Wednesday, November 24, 2010 16:25:59
Page 1

Approved: November 29, 2010

⌈	Na	23	189110638.303	688.13	32.6723	0.396	1.211	mg/L
|	Mg	24	18335205.647	66.72	4.7992	0.058	1.213	mg/L
|	K	39	20294186.487	72.26	2.0900	0.006	0.273	mg/L
|	Ca	43	410000.343	1.49	20.6777	0.125	0.606	mg/L
|	Fe	54	134493.233	0.30	0.1249	0.003	2.591	mg/L
|	Fe	57	40833.964	0.12	0.1209	0.002	1.799	mg/L
⌊>	Sc-1	45	274791.071	274791.07				mg/L
	Cl	35	927695.637	902569.44				mg/L
	Kr	83	41.334	-4.00				mg/L
	Br	81	38218.909	29385.67				mg/L
	P	31	84267.702	73773.49				mg/L
	S	34	544466.168	371307.37				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.342			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.104			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.505			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.532			
⌈	Na	23					

Sample ID: L1011066710
Report Date/Time: Wednesday, November 24, 2010 16:25:59
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066711

Sample Date/Time: Wednesday, November 24, 2010 16:30:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 45
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

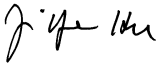
User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44699.699	0.05				ug/L
|	Be	9	6.000	-0.00	0.0477	0.014	28.911	ug/L
|	Al	27	90861.212	0.30	12.9801	0.344	2.648	ug/L
⌊>	Sc	45	279383.074	279383.07				ug/L
⌈	Ti	49	406.716	0.00	0.5194	0.094	18.014	ug/L
|	V	51	6443.909	0.01	0.3995	0.026	6.619	ug/L
|	Cr	52	13766.274	0.01	0.6787	0.027	3.945	ug/L
|	Cr	53	1446.916	0.00	1.1421	0.069	6.034	ug/L
|	Mn	55	635358.327	1.58	49.9740	0.472	0.944	ug/L
|	Co	59	4310.639	0.01	0.3747	0.004	1.084	ug/L
|	Ni	60	4547.746	0.01	1.9544	0.037	1.892	ug/L
|	Cu	65	10987.476	0.03	4.6089	0.043	0.924	ug/L
|	Zn	66	14895.902	0.03	10.3654	0.051	0.494	ug/L
|>	Ge	72	403103.627	403103.63				ug/L
|	As	75	177.529	0.00	0.4263	0.045	10.652	ug/L
|	Se	77	100.011	0.00	0.6166	0.730	118.339	ug/L
|	Se	82	49.323	0.00	0.6352	0.118	18.554	ug/L
⌊	Rb	85	12284.330	0.03				mg/L
	Y	89	237620.844	-13173.25				ug/L
	Rh	103	40.000	21.00				ug/L
⌈	Mo	98	2583.739	0.01	1.1863	0.027	2.237	ug/L
|	Ag	107	55.667	-0.00	-0.0653	0.002	2.688	ug/L
|	Cd	114	39.406	0.00	0.0218	0.004	20.094	ug/L
|>	In	115	333659.646	333659.65				ug/L
|	Sn	118	1306.619	0.00	0.0443	0.007	15.031	ug/L
⌊	Sb	123	865.249	0.00	0.2592	0.008	3.227	ug/L
⌈	Ba	135	23807.216	0.05	13.5450	0.294	2.169	ug/L
|	Ce	140	796.778	0.00				ug/L
⌊>	Tb	159	457365.263	457365.26				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	24.334	-0.00	0.0058	0.001	13.206	ug/L
|	Tl	205	60.006	-0.00	-0.0007	0.001	172.759	ug/L
|	Pb	206	4295.299	0.01	0.6630	0.016	2.470	ug/L
|	Pb	207	3688.384	0.01	0.6332	0.014	2.276	ug/L
|	Pb	208	17150.641	0.04	0.6433	0.003	0.526	ug/L
|	U	238	1503.461	0.00	0.0465	0.001	1.627	ug/L
⌊>	Bi	209	414944.394	414944.39				ug/L

Sample ID: L1011066711
Report Date/Time: Wednesday, November 24, 2010 16:32:46
Page 1

Approved: November 29, 2010



⌈	Na	23	134318894.545	480.89	22.8322	0.745	3.263	mg/L
|	Mg	24	11028001.559	39.49	2.8394	0.135	4.764	mg/L
|	K	39	19163885.472	67.02	1.9383	0.066	3.395	mg/L
|	Ca	43	268619.872	0.96	13.3251	0.266	1.993	mg/L
|	Fe	54	159486.963	0.39	0.1577	0.012	7.579	mg/L
|	Fe	57	46539.378	0.14	0.1391	0.005	3.685	mg/L
⌊>	Sc-1	45	279383.074	279383.07				mg/L
	Cl	35	641567.912	616441.72				mg/L
	Kr	83	39.667	-5.67				mg/L
	Br	81	28725.869	19892.63				mg/L
	P	31	103459.860	92965.65				mg/L
	S	34	413616.785	240457.98				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.346			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.519			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.132			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.899			
⌈	Na	23					

Sample ID: L1011066711
Report Date/Time: Wednesday, November 24, 2010 16:32:46
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066711
Report Date/Time: Wednesday, November 24, 2010 16:32:46
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066712

Sample Date/Time: Wednesday, November 24, 2010 16:37:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 46
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45453.158	0.05				ug/L
|	Be	9	6.000	-0.00	0.0476	0.009	19.646	ug/L
|	Al	27	115227.979	0.39	16.4853	0.993	6.021	ug/L
⌊>	Sc	45	283085.525	283085.53				ug/L
⌈	Ti	49	406.716	0.00	0.5117	0.033	6.471	ug/L
|	V	51	6809.370	0.01	0.4285	0.022	5.159	ug/L
|	Cr	52	13528.614	0.01	0.6302	0.005	0.725	ug/L
|	Cr	53	1290.212	0.00	0.9610	0.046	4.751	ug/L
|	Mn	55	561138.874	1.37	43.6095	0.564	1.293	ug/L
|	Co	59	3545.331	0.01	0.3003	0.002	0.821	ug/L
|	Ni	60	3554.334	0.01	1.5028	0.081	5.379	ug/L
|	Cu	65	9927.025	0.02	4.1070	0.017	0.415	ug/L
|	Zn	66	15055.141	0.03	10.3513	0.176	1.704	ug/L
|>	Ge	72	407968.305	407968.31				ug/L
|	As	75	163.589	0.00	0.4089	0.043	10.480	ug/L
|	Se	77	106.678	0.00	0.6980	0.098	14.034	ug/L
|	Se	82	42.340	0.00	0.5443	0.118	21.743	ug/L
⌊	Rb	85	10850.325	0.03				mg/L
	Y	89	237876.836	-12917.26				ug/L
	Rh	103	35.000	16.00				ug/L
⌈	Mo	98	1708.693	0.01	0.7832	0.019	2.481	ug/L
|	Ag	107	53.667	-0.00	-0.0659	0.001	1.940	ug/L
|	Cd	114	40.999	0.00	0.0230	0.012	53.719	ug/L
|>	In	115	337209.275	337209.27				ug/L
|	Sn	118	1667.206	0.00	0.1347	0.009	6.704	ug/L
⌊	Sb	123	987.930	0.00	0.2923	0.007	2.452	ug/L
⌈	Ba	135	22789.835	0.05	12.7304	0.213	1.674	ug/L
|	Ce	140	926.803	0.00				ug/L
⌊>	Tb	159	465827.501	465827.50				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	23.334	-0.00	0.0056	0.000	8.644	ug/L
|	Tl	205	66.674	-0.00	-0.0003	0.001	378.816	ug/L
|	Pb	206	5597.623	0.01	0.8879	0.029	3.216	ug/L
|	Pb	207	4633.786	0.01	0.8119	0.010	1.215	ug/L
|	Pb	208	21924.025	0.05	0.8423	0.004	0.436	ug/L
|	U	238	929.386	0.00	0.0309	0.001	1.966	ug/L
⌊>	Bi	209	418091.284	418091.28				ug/L

Sample ID: L1011066712
Report Date/Time: Wednesday, November 24, 2010 16:39:33
Page 1

Approved: November 29, 2010

⌈	Na	23	133157756.774	470.51	22.3390	0.585	2.620	mg/L
|	Mg	24	7765970.934	27.44	1.9724	0.066	3.357	mg/L
|	K	39	17495650.831	60.22	1.7414	0.032	1.814	mg/L
|	Ca	43	217692.185	0.77	10.6570	0.250	2.350	mg/L
|	Fe	54	168014.206	0.41	0.1668	0.005	2.771	mg/L
|	Fe	57	47865.785	0.14	0.1416	0.004	2.795	mg/L
⌊>	Sc-1	45	283085.525	283085.53				mg/L
	Cl	35	614343.829	589217.63				mg/L
	Kr	83	37.667	-7.67				mg/L
	Br	81	26514.444	17681.21				mg/L
	P	31	97073.878	86579.67				mg/L
	S	34	361167.670	188008.87				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.448			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.610			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.132			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.626			
⌈	Na	23					

Sample ID: L1011066712
Report Date/Time: Wednesday, November 24, 2010 16:39:33
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066713

Sample Date/Time: Wednesday, November 24, 2010 16:44:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 47
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43645.166	0.04				ug/L
|	Be	9	5.333	-0.00	0.0460	0.008	17.301	ug/L
|	Al	27	125178.935	0.43	18.2991	0.427	2.332	ug/L
⌊>	Sc	45	278422.930	278422.93				ug/L
⌈	Ti	49	480.060	0.00	0.6287	0.068	10.872	ug/L
|	V	51	6487.475	0.01	0.3964	0.021	5.256	ug/L
|	Cr	52	15946.531	0.02	0.9215	0.022	2.382	ug/L
|	Cr	53	1977.061	0.00	1.6738	0.188	11.232	ug/L
|	Mn	55	598379.756	1.47	46.5381	0.444	0.955	ug/L
|	Co	59	3818.100	0.01	0.3254	0.005	1.660	ug/L
|	Ni	60	5268.440	0.01	2.2431	0.032	1.413	ug/L
|	Cu	65	9099.563	0.02	3.7623	0.038	1.009	ug/L
|	Zn	66	14390.840	0.03	9.8593	0.477	4.837	ug/L
|>	Ge	72	407633.736	407633.74				ug/L
|	As	75	128.191	0.00	0.3697	0.044	11.963	ug/L
|	Se	77	96.677	0.00	0.5434	0.624	114.810	ug/L
|	Se	82	45.989	0.00	0.5879	0.044	7.432	ug/L
⌊	Rb	85	8629.475	0.02				mg/L
	Y	89	236384.720	-14409.38				ug/L
	Rh	103	31.000	12.00				ug/L
⌈	Mo	98	1501.840	0.00	0.6864	0.037	5.392	ug/L
|	Ag	107	60.334	-0.00	-0.0646	0.001	1.267	ug/L
|	Cd	114	45.664	0.00	0.0269	0.010	37.367	ug/L
|>	In	115	339593.998	339594.00				ug/L
|	Sn	118	1229.676	0.00	0.0182	0.006	30.241	ug/L
⌊	Sb	123	822.455	0.00	0.2422	0.012	4.856	ug/L
⌈	Ba	135	23475.090	0.05	13.2346	0.102	0.772	ug/L
|	Ce	140	906.799	0.00				ug/L
⌊>	Tb	159	461531.987	461531.99				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	26.000	-0.00	0.0060	0.001	20.603	ug/L
|	Tl	205	46.671	-0.00	-0.0015	0.001	98.507	ug/L
|	Pb	206	4524.736	0.01	0.6989	0.027	3.914	ug/L
|	Pb	207	3830.772	0.01	0.6564	0.011	1.688	ug/L
|	Pb	208	17926.849	0.04	0.6719	0.010	1.523	ug/L
|	U	238	1228.754	0.00	0.0389	0.001	3.244	ug/L
⌊>	Bi	209	417605.427	417605.43				ug/L

Sample ID: L1011066713
Report Date/Time: Wednesday, November 24, 2010 16:46:17
Page 1

Approved: November 29, 2010

⌈	Na	23	150170011.373	539.29	25.6051	0.319	1.247	mg/L
|	Mg	24	9301863.330	33.41	2.4018	0.055	2.309	mg/L
|	K	39	14629348.145	50.95	1.4730	0.036	2.446	mg/L
|	Ca	43	242649.324	0.87	12.0756	0.157	1.297	mg/L
|	Fe	54	152604.588	0.36	0.1485	0.006	4.340	mg/L
|	Fe	57	40854.088	0.12	0.1190	0.004	3.415	mg/L
⌊>	Sc-1	45	278422.930	278422.93				mg/L
	Cl	35	718131.313	693005.12				mg/L
	Kr	83	39.667	-5.67				mg/L
	Br	81	28047.287	19214.05				mg/L
	P	31	77332.598	66838.39				mg/L
	S	34	394885.495	221726.69				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.372			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.343			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.117			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.514			
⌈	Na	23					

Sample ID: L1011066713
Report Date/Time: Wednesday, November 24, 2010 16:46:17
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066713
Report Date/Time: Wednesday, November 24, 2010 16:46:17
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066714

Sample Date/Time: Wednesday, November 24, 2010 16:50:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 48
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41987.965	0.04				ug/L
|	Be	9	7.333	-0.00	0.0511	0.008	15.997	ug/L
|	Al	27	220387.845	0.76	32.4917	1.058	3.256	ug/L
⌊>	Sc	45	282005.725	282005.73				ug/L
⌈	Ti	49	1666.976	0.00	2.4740	0.504	20.381	ug/L
|	V	51	7190.647	0.01	0.4560	0.014	3.015	ug/L
|	Cr	52	15294.508	0.02	0.8143	0.020	2.511	ug/L
|	Cr	53	1263.540	0.00	0.9140	0.146	15.963	ug/L
|	Mn	55	438879.727	1.06	33.5851	0.265	0.788	ug/L
|	Co	59	2576.024	0.01	0.2086	0.005	2.530	ug/L
|	Ni	60	3478.307	0.01	1.4467	0.030	2.046	ug/L
|	Cu	65	11488.377	0.03	4.6915	0.048	1.028	ug/L
|	Zn	66	12939.163	0.03	8.6169	0.118	1.366	ug/L
| >	Ge	72	414172.159	414172.16				ug/L
|	As	75	148.191	0.00	0.3889	0.050	12.776	ug/L
|	Se	77	83.342	0.00	0.3156	0.314	99.383	ug/L
|	Se	82	31.351	0.00	0.4040	0.084	20.801	ug/L
⌊	Rb	85	7737.404	0.02				mg/L
	Y	89	242195.218	-8598.88				ug/L
	Rh	103	20.667	1.67				ug/L
⌈	Mo	98	1917.029	0.01	0.8520	0.009	1.069	ug/L
|	Ag	107	66.001	-0.00	-0.0637	0.001	1.621	ug/L
|	Cd	114	46.971	0.00	0.0272	0.003	9.834	ug/L
| >	In	115	347057.848	347057.85				ug/L
|	Sn	118	1151.666	0.00	-0.0084	0.008	92.579	ug/L
⌊	Sb	123	816.328	0.00	0.2353	0.005	2.213	ug/L
⌈	Ba	135	19345.220	0.04	10.7183	0.082	0.766	ug/L
|	Ce	140	1723.660	0.00				ug/L
⌊>	Tb	159	469550.146	469550.15				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	29.334	-0.00	0.0063	0.000	7.517	ug/L
|	Tl	205	66.674	-0.00	-0.0005	0.002	396.324	ug/L
|	Pb	206	6911.457	0.01	1.0771	0.011	1.015	ug/L
|	Pb	207	5874.450	0.01	1.0127	0.012	1.155	ug/L
|	Pb	208	27464.152	0.06	1.0378	0.011	1.087	ug/L
|	U	238	691.031	0.00	0.0239	0.001	3.173	ug/L
⌊>	Bi	209	433584.884	433584.88				ug/L

Sample ID: L1011066714
Report Date/Time: Wednesday, November 24, 2010 16:53:02
Page 1

Approved: November 29, 2010

⌈	Na	23	71829378.417	254.72	12.0926	0.202	1.667	mg/L
|	Mg	24	5121256.212	18.16	1.3040	0.005	0.372	mg/L
|	K	39	13188054.252	45.19	1.3060	0.030	2.283	mg/L
|	Ca	43	158800.392	0.56	7.7993	0.086	1.109	mg/L
|	Fe	54	166755.117	0.41	0.1659	0.009	5.408	mg/L
|	Fe	57	43257.888	0.13	0.1259	0.012	9.601	mg/L
⌊>	Sc-1	45	282005.725	282005.73				mg/L
	Cl	35	348174.009	323047.81				mg/L
	Kr	83	36.334	-9.00				mg/L
	Br	81	20499.660	11666.42				mg/L
	P	31	72915.610	62421.40				mg/L
	S	34	318862.188	145703.39				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.854			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.636			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.012			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.207			
⌈	Na	23					

Sample ID: L1011066714
Report Date/Time: Wednesday, November 24, 2010 16:53:02
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066715

Sample Date/Time: Wednesday, November 24, 2010 16:57:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 49
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

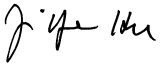
User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43360.579	0.04				ug/L
|	Be	9	4.667	-0.00	0.0442	0.008	18.256	ug/L
|	Al	27	131933.041	0.45	19.2364	1.536	7.986	ug/L
⌊>	Sc	45	280120.444	280120.44				ug/L
⌈	Ti	49	556.738	0.00	0.7469	0.207	27.714	ug/L
|	V	51	6700.734	0.01	0.4147	0.008	1.963	ug/L
|	Cr	52	15095.202	0.02	0.8106	0.008	0.961	ug/L
|	Cr	53	1340.224	0.00	1.0075	0.070	6.935	ug/L
|	Mn	55	480646.551	1.17	37.1945	0.399	1.073	ug/L
|	Co	59	3516.654	0.01	0.2964	0.008	2.608	ug/L
|	Ni	60	4258.282	0.01	1.7984	0.034	1.874	ug/L
|	Cu	65	8119.710	0.02	3.3335	0.021	0.619	ug/L
|	Zn	66	13608.056	0.03	9.2229	0.037	0.396	ug/L
|>	Ge	72	409618.075	409618.08				ug/L
|	As	75	152.757	0.00	0.3961	0.042	10.541	ug/L
|	Se	77	76.675	0.00	0.2273	0.385	169.610	ug/L
|	Se	82	43.424	0.00	0.5547	0.231	41.731	ug/L
⌊	Rb	85	7054.892	0.02				mg/L
	Y	89	239415.973	-11378.13				ug/L
	Rh	103	28.667	9.67				ug/L
⌈	Mo	98	1567.518	0.00	0.7169	0.019	2.596	ug/L
|	Ag	107	47.334	-0.00	-0.0673	0.001	1.580	ug/L
|	Cd	114	38.633	0.00	0.0206	0.010	47.759	ug/L
|>	In	115	338908.364	338908.36				ug/L
|	Sn	118	1049.922	-0.00	-0.0279	0.004	12.735	ug/L
⌊	Sb	123	779.117	0.00	0.2300	0.010	4.372	ug/L
⌈	Ba	135	21694.057	0.05	12.1299	0.121	0.999	ug/L
|	Ce	140	1210.194	0.00				ug/L
⌊>	Tb	159	465334.706	465334.71				ug/L
⌈	Ho	165	46.671	0.00				ug/L
|	Tl	203	19.667	-0.00	0.0050	0.001	10.553	ug/L
|	Tl	205	60.006	-0.00	-0.0008	0.002	292.557	ug/L
|	Pb	206	4549.080	0.01	0.6893	0.013	1.830	ug/L
|	Pb	207	3954.488	0.01	0.6675	0.015	2.233	ug/L
|	Pb	208	18394.556	0.04	0.6785	0.009	1.335	ug/L
|	U	238	1005.394	0.00	0.0325	0.001	4.216	ug/L
⌊>	Bi	209	424848.325	424848.32				ug/L

Sample ID: L1011066715
Report Date/Time: Wednesday, November 24, 2010 16:59:46
Page 1

Approved: November 29, 2010



Na	23	94741228.095	338.24	16.0585	0.253	1.573	mg/L
Mg	24	6590583.204	23.53	1.6909	0.041	2.423	mg/L
K	39	12778950.525	44.04	1.2729	0.039	3.088	mg/L
Ca	43	189004.936	0.67	9.3509	0.303	3.236	mg/L
Fe	54	143706.329	0.33	0.1345	0.008	5.667	mg/L
Fe	57	35703.891	0.10	0.0998	0.007	6.546	mg/L
> Sc-1	45	280120.444	280120.44				mg/L
Cl	35	435930.230	410804.03				mg/L
Kr	83	28.000	-17.33				mg/L
Br	81	20725.458	11892.22				mg/L
P	31	66526.020	56031.81				mg/L
S	34	337541.751	164382.95				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		92.822			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		104.132			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		110.016			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		98.188			
Na	23					

Sample ID: L1011066715
Report Date/Time: Wednesday, November 24, 2010 16:59:46
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066716

Sample Date/Time: Wednesday, November 24, 2010 17:04:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 50
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	44013.367	0.05				ug/L
|	Be	9	5.333	-0.00	0.0462	0.008	17.588	ug/L
|	Al	27	154721.259	0.54	23.0311	0.444	1.930	ug/L
⌊>	Sc	45	276178.542	276178.54				ug/L
⌜	Ti	49	360.043	0.00	0.4259	0.185	43.480	ug/L
|	V	51	6952.855	0.01	0.4303	0.016	3.744	ug/L
|	Cr	52	15160.970	0.02	0.7928	0.015	1.844	ug/L
|	Cr	53	1266.874	0.00	0.9132	0.080	8.804	ug/L
|	Mn	55	434689.858	1.05	33.1601	0.576	1.737	ug/L
|	Co	59	2826.094	0.01	0.2302	0.007	2.900	ug/L
|	Ni	60	2771.078	0.01	1.1428	0.035	3.085	ug/L
|	Cu	65	10499.615	0.02	4.2678	0.037	0.875	ug/L
|	Zn	66	14026.638	0.03	9.3879	0.136	1.449	ug/L
|>	Ge	72	415507.088	415507.09				ug/L
|	As	75	149.155	0.00	0.3894	0.059	15.103	ug/L
|	Se	77	73.341	0.00	0.1608	0.097	60.050	ug/L
|	Se	82	24.699	0.00	0.3225	0.238	73.640	ug/L
⌊	Rb	85	6625.594	0.02				mg/L
	Y	89	241714.802	-9079.30				ug/L
	Rh	103	21.000	2.00				ug/L
⌜	Mo	98	1670.275	0.00	0.7404	0.009	1.263	ug/L
|	Ag	107	54.334	-0.00	-0.0661	0.003	4.151	ug/L
|	Cd	114	56.102	0.00	0.0349	0.009	25.671	ug/L
|>	In	115	349255.098	349255.10				ug/L
|	Sn	118	1035.920	-0.00	-0.0395	0.008	21.109	ug/L
⌊	Sb	123	758.241	0.00	0.2174	0.002	0.961	ug/L
⌜	Ba	135	17827.722	0.04	9.8029	0.135	1.379	ug/L
|	Ce	140	1260.205	0.00				ug/L
⌊>	Tb	159	473116.736	473116.74				ug/L
⌜	Ho	165	43.338	0.00				ug/L
|	Tl	203	17.000	-0.00	0.0046	0.001	14.526	ug/L
|	Tl	205	26.669	-0.00	-0.0027	0.000	12.589	ug/L
|	Pb	206	7540.250	0.02	1.1957	0.012	0.967	ug/L
|	Pb	207	6431.465	0.01	1.1278	0.025	2.201	ug/L
|	Pb	208	29999.043	0.06	1.1533	0.018	1.590	ug/L
|	U	238	694.364	0.00	0.0242	0.001	2.717	ug/L
⌊>	Bi	209	429891.253	429891.25				ug/L

Sample ID: L1011066716
Report Date/Time: Wednesday, November 24, 2010 17:06:31
Page 1

Approved: November 29, 2010

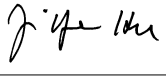
Na	23	70070540.220	253.67	12.0426	0.012	0.101	mg/L
Mg	24	5076089.934	18.38	1.3198	0.015	1.113	mg/L
K	39	13355383.030	46.76	1.3516	0.018	1.340	mg/L
Ca	43	148506.369	0.54	7.4463	0.130	1.743	mg/L
Fe	54	160120.370	0.39	0.1612	0.005	3.093	mg/L
Fe	57	37681.296	0.11	0.1087	0.003	2.389	mg/L
Sc-1	45	276178.542	276178.54				mg/L
Cl	35	319434.959	294308.76				mg/L
Kr	83	34.667	-10.67				mg/L
Br	81	18159.813	9326.58				mg/L
P	31	64475.899	53981.69				mg/L
S	34	305978.048	132819.25				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		94.157			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		107.311			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		111.856			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		99.353			
Na	23					

Sample ID: L1011066716
Report Date/Time: Wednesday, November 24, 2010 17:06:31
Page 2

Approved: November 29, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 17:11:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41402.349	0.04				ug/L
|	Be	9	20804.289	0.08	57.2792	1.746	3.048	ug/L
|	Al	27	332974.444	1.24	52.9259	2.831	5.349	ug/L
⌊>	Sc	45	264572.120	264572.12				ug/L
⌈	Ti	49	61870.510	0.15	97.8507	3.570	3.648	ug/L
|	V	51	497577.465	1.21	49.8788	1.193	2.391	ug/L
|	Cr	52	426236.126	1.02	49.8555	0.739	1.482	ug/L
|	Cr	53	50813.846	0.12	51.9835	0.577	1.111	ug/L
|	Mn	55	674528.483	1.65	52.1837	0.588	1.126	ug/L
|	Co	59	567123.758	1.38	51.3380	0.447	0.871	ug/L
|	Ni	60	118900.964	0.29	51.0112	0.854	1.674	ug/L
|	Cu	65	119679.435	0.29	50.0207	0.197	0.394	ug/L
|	Zn	66	70018.981	0.17	51.3411	0.142	0.276	ug/L
|>	Ge	72	409847.958	409847.96				ug/L
|	As	75	45058.162	0.11	49.7849	0.109	0.220	ug/L
|	Se	77	3621.020	0.01	54.9062	3.859	7.028	ug/L
|	Se	82	4284.341	0.01	51.7827	0.266	0.514	ug/L
⌊	Rb	85	1747.837	0.00				mg/L
	Y	89	236039.940	-14754.16				ug/L
	Rh	103	24.000	5.00				ug/L
⌈	Mo	98	202407.351	0.61	91.5150	1.465	1.600	ug/L
|	Ag	107	228761.951	0.69	49.0523	0.957	1.951	ug/L
|	Cd	114	54309.669	0.16	50.0961	1.146	2.287	ug/L
|>	In	115	332956.096	332956.10				ug/L
|	Sn	118	184988.158	0.55	48.6603	0.793	1.630	ug/L
⌊	Sb	123	162367.586	0.49	48.1945	1.215	2.521	ug/L
⌈	Ba	135	79994.189	0.17	45.0691	0.623	1.383	ug/L
|	Ce	140	73.341	0.00				ug/L
⌊>	Tb	159	462072.867	462072.87				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	356438.937	0.82	49.8115	0.312	0.626	ug/L
|	Tl	205	873653.408	2.00	49.7590	0.238	0.479	ug/L
|	Pb	206	289094.604	0.66	49.0656	0.426	0.869	ug/L
|	Pb	207	271856.788	0.62	50.7181	0.320	0.632	ug/L
|	Pb	208	1217141.049	2.79	49.9729	0.326	0.653	ug/L
|	U	238	1955608.339	4.49	49.9336	0.570	1.141	ug/L
⌊>	Bi	209	435673.930	435673.93				ug/L

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 17:13:17
Page 1

Approved: November 29, 2010

⌈	Na	23	28868549.893	109.12	5.1793	0.192	3.705	mg/L
|	Mg	24	18895536.873	71.47	5.1406	0.223	4.339	mg/L
|	K	39	45532239.167	170.60	4.9377	0.202	4.086	mg/L
|	Ca	43	100361.284	0.38	5.2539	0.222	4.225	mg/L
|	Fe	54	3325029.788	12.39	4.9778	0.128	2.566	mg/L
|	Fe	57	1403415.369	5.28	5.3120	0.242	4.552	mg/L
⌊>	Sc-1	45	264572.120	264572.12				mg/L
	Cl	35	27249.087	2122.89				mg/L
	Kr	83	34.667	-10.67				mg/L
	Br	81	9086.799	253.56				mg/L
	P	31	12025.922	1531.71				mg/L
	S	34	196844.443	23685.64				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	99.758				
|	Cr	52	99.711				
|	Cr	53					
|	Mn	55	104.367				
|	Co	59	102.676				
|	Ni	60	102.022				
|	Cu	65	100.041				
|	Zn	66	102.682				
|>	Ge	72		92.874			
|	As	75	99.570				
|	Se	77					
|	Se	82	103.565				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	98.105				
|	Cd	114	100.192				
|>	In	115		102.303			
|	Sn	118					
⌊	Sb	123	96.389				
⌈	Ba	135	90.138				
|	Ce	140					
⌊>	Tb	159		109.245			
⌈	Ho	165					
|	Tl	203	99.623				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.946				
|	U	238	99.867				
⌊>	Bi	209		100.690			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 17:13:17
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 17:13:17
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 17:17:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41586.365	0.04				ug/L
|	Be	9	7.333	-0.00	0.0513	0.012	23.366	ug/L
|	Al	27	5968.477	0.00	0.0016	0.139	8623.194	ug/L
⌊>	Sc	45	274980.256	274980.26				ug/L
⌈	Ti	49	53.339	0.00	-0.0527	0.009	17.464	ug/L
|	V	51	2506.097	-0.00	-0.0128	0.013	104.736	ug/L
|	Cr	52	8065.001	-0.00	-0.0460	0.026	57.542	ug/L
|	Cr	53	210.023	-0.00	-0.1615	0.056	34.946	ug/L
|	Mn	55	304.341	-0.00	-0.0134	0.002	12.287	ug/L
|	Co	59	167.003	-0.00	-0.0074	0.000	5.383	ug/L
|	Ni	60	24.000	-0.00	-0.0205	0.001	3.883	ug/L
|	Cu	65	105.335	-0.00	-0.0233	0.002	9.140	ug/L
|	Zn	66	921.052	-0.00	-0.2686	0.008	2.990	ug/L
|>	Ge	72	417186.667	417186.67				ug/L
|	As	75	-143.407	0.00	0.0730	0.033	45.603	ug/L
|	Se	77	50.005	-0.00	-0.1983	0.261	131.698	ug/L
|	Se	82	10.047	0.00	0.1490	0.084	56.427	ug/L
⌊	Rb	85	15.000	0.00				mg/L
	Y	89	240791.691	-10002.41				ug/L
	Rh	103	4.333	-14.67				ug/L
⌈	Mo	98	97.787	0.00	0.0634	0.007	10.427	ug/L
|	Ag	107	19.334	-0.00	-0.0733	0.001	1.751	ug/L
|	Cd	114	21.401	0.00	0.0046	0.005	105.740	ug/L
|>	In	115	345677.197	345677.20				ug/L
|	Sn	118	743.361	-0.00	-0.1114	0.004	3.621	ug/L
⌊	Sb	123	214.044	0.00	0.0640	0.011	16.626	ug/L
⌈	Ba	135	14.333	-0.00	-0.0021	0.001	64.700	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	474278.142	474278.14				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	20.667	-0.00	0.0050	0.001	13.452	ug/L
|	Tl	205	50.005	-0.00	-0.0015	0.002	108.379	ug/L
|	Pb	206	484.017	-0.00	-0.0245	0.002	8.638	ug/L
|	Pb	207	427.680	-0.00	-0.0132	0.004	27.171	ug/L
|	Pb	208	1955.762	-0.00	-0.0197	0.001	4.266	ug/L
|	U	238	77.668	0.00	0.0081	0.000	2.129	ug/L
⌊>	Bi	209	450462.799	450462.80				ug/L

Approved: November 29, 2010

⌈	Na	23	14104.687	0.00	-0.0022	0.000	0.856	mg/L
|	Mg	24	453.389	0.00	-0.0029	0.000	0.790	mg/L
|	K	39	420911.892	-0.06	-0.0043	0.000	5.662	mg/L
|	Ca	43	136.681	-0.00	-0.0016	0.001	32.439	mg/L
|	Fe	54	50103.759	-0.00	0.0015	0.003	178.544	mg/L
|	Fe	57	6856.381	-0.00	-0.0035	0.002	57.323	mg/L
⌊>	Sc-1	45	274980.256	274980.26				mg/L
	Cl	35	26517.798	1391.60				mg/L
	Kr	83	33.000	-12.33				mg/L
	Br	81	8967.352	134.12				mg/L
	P	31	11763.004	1268.79				mg/L
	S	34	205571.406	32412.61				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.537			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.212			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		112.130			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.108			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 17:20:00

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 17:20:00

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066717 WG349431-02

Sample Date/Time: Wednesday, November 24, 2010 17:24:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 51
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	46658.779	0.05				ug/L
|	Be	9	12.000	0.00	0.0630	0.022	35.691	ug/L
|	Al	27	143421.577	0.49	20.7643	0.576	2.773	ug/L
⌊>	Sc	45	282758.574	282758.57				ug/L
⌈	Ti	49	440.054	0.00	0.5561	0.046	8.246	ug/L
|	V	51	7012.182	0.01	0.4402	0.016	3.640	ug/L
|	Cr	52	14087.061	0.01	0.6762	0.036	5.344	ug/L
|	Cr	53	1093.503	0.00	0.7439	0.058	7.806	ug/L
|	Mn	55	526742.840	1.27	40.4271	0.234	0.579	ug/L
|	Co	59	3397.611	0.01	0.2831	0.009	3.265	ug/L
|	Ni	60	3573.675	0.01	1.4914	0.041	2.771	ug/L
|	Cu	65	7617.644	0.02	3.0968	0.038	1.224	ug/L
|	Zn	66	15156.629	0.03	10.2865	0.072	0.700	ug/L
|>	Ge	72	413034.181	413034.18				ug/L
|	As	75	167.860	0.00	0.4111	0.019	4.636	ug/L
|	Se	77	66.674	-0.00	0.0664	0.474	714.034	ug/L
|	Se	82	41.690	0.00	0.5290	0.070	13.215	ug/L
⌊	Rb	85	7016.532	0.02				mg/L
	Y	89	241235.629	-9558.47				ug/L
	Rh	103	26.000	7.00				ug/L
⌈	Mo	98	1801.080	0.01	0.8101	0.021	2.592	ug/L
|	Ag	107	57.001	-0.00	-0.0654	0.003	4.808	ug/L
|	Cd	114	42.386	0.00	0.0235	0.005	20.761	ug/L
|>	In	115	343371.109	343371.11				ug/L
|	Sn	118	1091.393	-0.00	-0.0208	0.006	30.518	ug/L
⌊	Sb	123	847.040	0.00	0.2466	0.008	3.170	ug/L
⌈	Ba	135	21593.839	0.05	11.9258	0.153	1.280	ug/L
|	Ce	140	1373.566	0.00				ug/L
⌊>	Tb	159	471115.622	471115.62				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	32.334	-0.00	0.0069	0.001	11.423	ug/L
|	Tl	205	73.341	-0.00	0.0000	0.002	5748.235	ug/L
|	Pb	206	5458.878	0.01	0.8573	0.012	1.359	ug/L
|	Pb	207	4617.112	0.01	0.8031	0.019	2.356	ug/L
|	Pb	208	21764.267	0.05	0.8296	0.004	0.474	ug/L
|	U	238	810.374	0.00	0.0276	0.001	2.639	ug/L
⌊>	Bi	209	420729.356	420729.36				ug/L

Sample ID: L1011066717 WG349431-02
Report Date/Time: Wednesday, November 24, 2010 17:26:45
Page 1

Approved: November 29, 2010

Na	23	94690467.974	334.83	15.8964	0.207	1.302	mg/L	
Mg	24	7114916.104	25.16	1.8080	0.026	1.431	mg/L	
K	39	13586176.168	46.46	1.3428	0.027	2.014	mg/L	
Ca	43	199347.427	0.70	9.7664	0.171	1.755	mg/L	
Fe	54	148653.099	0.34	0.1395	0.001	0.421	mg/L	
Fe	57	39448.290	0.11	0.1118	0.004	3.380	mg/L	
Sc-1	45	282758.574	282758.57				mg/L	
Cl	35	444584.735	419458.54				mg/L	
Kr	83	35.667	-9.67				mg/L	
Br	81	23225.616	14392.38				mg/L	
P	31	64575.839	54081.63				mg/L	
S	34	352721.193	179562.39				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		93.596			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		105.503			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		111.383			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		97.236			
Na	23					

Sample ID: L1011066717 WG349431-02
Report Date/Time: Wednesday, November 24, 2010 17:26:45
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066717 WG349431-02
Report Date/Time: Wednesday, November 24, 2010 17:26:45
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066717S WG349431-07

Sample Date/Time: Wednesday, November 24, 2010 17:31:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 52
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43728.806	0.04				ug/L
|	Be	9	10182.518	0.04	26.3850	0.656	2.488	ug/L
|	Al	27	296261.927	1.03	44.1517	2.363	5.352	ug/L
⌊>	Sc	45	281182.253	281182.25				ug/L
⌈	Ti	49	356.709	0.00	0.4239	0.101	23.919	ug/L
|	V	51	255098.113	0.61	25.2035	0.170	0.673	ug/L
|	Cr	52	225567.240	0.53	25.6639	0.074	0.288	ug/L
|	Cr	53	26487.754	0.06	26.6575	1.425	5.345	ug/L
|	Mn	55	875980.234	2.12	67.1419	0.611	0.910	ug/L
|	Co	59	287659.685	0.69	25.7850	0.235	0.910	ug/L
|	Ni	60	63500.280	0.15	26.9725	0.231	0.857	ug/L
|	Cu	65	67527.285	0.16	27.9285	0.442	1.584	ug/L
|	Zn	66	45717.727	0.11	32.8742	0.162	0.494	ug/L
|>	Ge	72	413729.285	413729.29				ug/L
|	As	75	20969.185	0.05	23.0746	0.090	0.389	ug/L
|	Se	77	1620.294	0.00	23.8034	2.252	9.463	ug/L
|	Se	82	1806.242	0.00	21.6456	0.683	3.154	ug/L
⌊	Rb	85	7032.876	0.02				mg/L
	Y	89	236978.554	-13815.54				ug/L
	Rh	103	37.667	18.67				ug/L
⌈	Mo	98	1796.855	0.01	0.8019	0.012	1.439	ug/L
|	Ag	107	109167.398	0.31	22.4691	0.022	0.099	ug/L
|	Cd	114	26152.861	0.08	23.1951	0.528	2.276	ug/L
|>	In	115	346149.531	346149.53				ug/L
|	Sn	118	1077.525	-0.00	-0.0266	0.006	22.256	ug/L
⌊	Sb	123	80047.072	0.23	22.8497	0.194	0.850	ug/L
⌈	Ba	135	61398.529	0.13	33.9220	0.596	1.757	ug/L
|	Ce	140	1373.566	0.00				ug/L
⌊>	Tb	159	471232.652	471232.65				ug/L
⌈	Ho	165	60.006	0.00				ug/L
|	Tl	203	173221.793	0.41	24.9142	0.048	0.191	ug/L
|	Tl	205	424623.783	1.00	24.8871	0.333	1.338	ug/L
|	Pb	206	151325.777	0.36	26.3838	0.474	1.797	ug/L
|	Pb	207	132936.430	0.31	25.4785	0.092	0.361	ug/L
|	Pb	208	613379.074	1.44	25.8710	0.205	0.794	ug/L
|	U	238	950939.735	2.25	24.9917	0.177	0.707	ug/L
⌊>	Bi	209	423333.301	423333.30				ug/L

Sample ID: L1011066717S WG349431-07
Report Date/Time: Wednesday, November 24, 2010 17:33:31
Page 1

Approved: November 29, 2010

⌈	Na	23	94950613.595	337.65	16.0303	0.056	0.351	mg/L
|	Mg	24	7195624.482	25.59	1.8392	0.037	1.999	mg/L
|	K	39	13600910.306	46.80	1.3526	0.059	4.384	mg/L
|	Ca	43	201697.612	0.72	9.9402	0.342	3.444	mg/L
|	Fe	54	152033.843	0.36	0.1456	0.008	5.176	mg/L
|	Fe	57	37935.608	0.11	0.1072	0.001	1.300	mg/L
⌊>	Sc-1	45	281182.253	281182.25				mg/L
	Cl	35	452433.092	427306.90				mg/L
	Kr	83	32.000	-13.33				mg/L
	Br	81	22635.593	13802.36				mg/L
	P	31	64232.301	53738.09				mg/L
	S	34	341388.404	168229.60				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.754			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.357			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.410			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.838			
⌈	Na	23					

Sample ID: L1011066717S WG349431-07
Report Date/Time: Wednesday, November 24, 2010 17:33:31
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066717S WG349431-07
Report Date/Time: Wednesday, November 24, 2010 17:33:31
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066718

Sample Date/Time: Wednesday, November 24, 2010 17:38:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 53
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44498.797	0.05				ug/L
|	Be	9	7.333	-0.00	0.0510	0.010	20.147	ug/L
|	Al	27	97372.333	0.33	13.9723	0.508	3.632	ug/L
⌊>	Sc	45	279487.010	279487.01				ug/L
⌈	Ti	49	410.049	0.00	0.5099	0.086	16.793	ug/L
|	V	51	5527.321	0.01	0.2923	0.013	4.419	ug/L
|	Cr	52	13706.191	0.01	0.6327	0.025	3.991	ug/L
|	Cr	53	1270.209	0.00	0.9255	0.205	22.143	ug/L
|	Mn	55	505583.330	1.22	38.8323	0.049	0.125	ug/L
|	Co	59	1568.472	0.00	0.1188	0.006	4.729	ug/L
|	Ni	60	3579.010	0.01	1.4950	0.014	0.930	ug/L
|	Cu	65	11810.756	0.03	4.8423	0.047	0.973	ug/L
|	Zn	66	11070.903	0.02	7.2653	0.034	0.471	ug/L
| >	Ge	72	412703.005	412703.00				ug/L
|	As	75	278.667	0.00	0.5323	0.014	2.711	ug/L
|	Se	77	73.341	0.00	0.1690	0.389	229.892	ug/L
|	Se	82	51.653	0.00	0.6491	0.042	6.423	ug/L
⌊	Rb	85	11326.858	0.03				mg/L
	Y	89	244035.976	-6758.12				ug/L
	Rh	103	37.334	18.33				ug/L
⌈	Mo	98	740.044	0.00	0.3433	0.019	5.492	ug/L
|	Ag	107	70.001	-0.00	-0.0628	0.001	1.541	ug/L
|	Cd	114	34.743	0.00	0.0165	0.013	79.605	ug/L
| >	In	115	345341.221	345341.22				ug/L
|	Sn	118	1162.334	0.00	-0.0043	0.004	82.158	ug/L
⌊	Sb	123	646.773	0.00	0.1879	0.007	3.721	ug/L
⌈	Ba	135	28080.653	0.06	15.5979	0.178	1.144	ug/L
|	Ce	140	843.453	0.00				ug/L
⌊>	Tb	159	468495.697	468495.70				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	67.334	0.00	0.0119	0.000	2.019	ug/L
|	Tl	205	133.348	-0.00	0.0036	0.001	34.406	ug/L
|	Pb	206	5891.127	0.01	0.9332	0.003	0.368	ug/L
|	Pb	207	5123.697	0.01	0.9008	0.011	1.248	ug/L
|	Pb	208	23637.580	0.05	0.9091	0.009	0.953	ug/L
|	U	238	1898.199	0.00	0.0564	0.001	1.037	ug/L
⌊>	Bi	209	420860.129	420860.13				ug/L

Sample ID: L1011066718
Report Date/Time: Wednesday, November 24, 2010 17:40:17
Page 1

Approved: November 29, 2010

⌈	Na	23	130723808.965	467.79	22.2099	0.406	1.828	mg/L
|	Mg	24	11589701.460	41.47	2.9819	0.064	2.131	mg/L
|	K	39	21619808.640	75.80	2.1926	0.071	3.237	mg/L
|	Ca	43	249440.943	0.89	12.3695	0.225	1.816	mg/L
|	Fe	54	142876.736	0.33	0.1337	0.005	3.675	mg/L
|	Fe	57	36252.572	0.10	0.1019	0.002	2.022	mg/L
⌊>	Sc-1	45	279487.010	279487.01				mg/L
	Cl	35	631693.611	606567.42				mg/L
	Kr	83	40.000	-5.33				mg/L
	Br	81	34656.007	25822.77				mg/L
	P	31	91392.531	80898.32				mg/L
	S	34	380221.537	207062.74				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.521			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.109			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.763			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.266			
⌈	Na	23					

Sample ID: L1011066718
Report Date/Time: Wednesday, November 24, 2010 17:40:17
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066719

Sample Date/Time: Wednesday, November 24, 2010 17:44:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 54
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44398.348	0.05				ug/L
|	Be	9	7.333	-0.00	0.0511	0.003	6.262	ug/L
|	Al	27	189206.659	0.65	27.9136	0.562	2.015	ug/L
⌊>	Sc	45	280582.277	280582.28				ug/L
⌈	Ti	49	453.389	0.00	0.5754	0.094	16.299	ug/L
|	V	51	7422.016	0.01	0.4791	0.022	4.676	ug/L
|	Cr	52	16993.263	0.02	1.0143	0.026	2.539	ug/L
|	Cr	53	1416.910	0.00	1.0717	0.194	18.113	ug/L
|	Mn	55	305049.552	0.74	23.3266	0.239	1.023	ug/L
|	Co	59	2354.634	0.01	0.1887	0.002	0.933	ug/L
|	Ni	60	3444.294	0.01	1.4322	0.030	2.078	ug/L
|	Cu	65	13053.314	0.03	5.3372	0.072	1.352	ug/L
|	Zn	66	11936.907	0.03	7.8747	0.203	2.581	ug/L
|>	Ge	72	414310.725	414310.72				ug/L
|	As	75	219.521	0.00	0.4666	0.017	3.644	ug/L
|	Se	77	90.009	0.00	0.4215	0.705	167.200	ug/L
|	Se	82	39.717	0.00	0.5049	0.151	29.910	ug/L
⌊	Rb	85	9688.122	0.02				mg/L
	Y	89	242261.219	-8532.88				ug/L
	Rh	103	28.334	9.33				ug/L
⌈	Mo	98	1161.312	0.00	0.5262	0.023	4.321	ug/L
|	Ag	107	41.667	-0.00	-0.0687	0.001	1.910	ug/L
|	Cd	114	40.135	0.00	0.0212	0.008	35.975	ug/L
|>	In	115	345793.759	345793.76				ug/L
|	Sn	118	1262.346	0.00	0.0208	0.007	33.456	ug/L
⌊	Sb	123	1420.528	0.00	0.4087	0.009	2.081	ug/L
⌈	Ba	135	23744.728	0.05	13.0141	0.010	0.079	ug/L
|	Ce	140	2457.215	0.01				ug/L
⌊>	Tb	159	474731.554	474731.55				ug/L
⌈	Ho	165	60.006	0.00				ug/L
|	Tl	203	40.000	-0.00	0.0079	0.001	7.258	ug/L
|	Tl	205	100.011	-0.00	0.0015	0.002	102.249	ug/L
|	Pb	206	11203.718	0.02	1.8267	0.012	0.639	ug/L
|	Pb	207	9346.794	0.02	1.6795	0.032	1.891	ug/L
|	Pb	208	44313.952	0.10	1.7496	0.019	1.106	ug/L
|	U	238	1610.813	0.00	0.0479	0.001	1.552	ug/L
⌊>	Bi	209	429983.978	429983.98				ug/L

Sample ID: L1011066719
Report Date/Time: Wednesday, November 24, 2010 17:47:04
Page 1

Approved: November 29, 2010

⌈	Na	23	61028893.642	217.49	10.3250	0.211	2.047	mg/L
|	Mg	24	5230207.092	18.64	1.3388	0.023	1.719	mg/L
|	K	39	12638438.380	43.45	1.2557	0.015	1.190	mg/L
|	Ca	43	168002.869	0.60	8.2943	0.148	1.782	mg/L
|	Fe	54	138585.040	0.31	0.1267	0.004	3.028	mg/L
|	Fe	57	31977.599	0.09	0.0861	0.004	4.431	mg/L
⌊>	Sc-1	45	280582.277	280582.28				mg/L
	Cl	35	281720.112	256593.92				mg/L
	Kr	83	32.667	-12.67				mg/L
	Br	81	27723.722	18890.49				mg/L
	P	31	61797.704	51303.49				mg/L
	S	34	312900.738	139741.94				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.885			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.248			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		112.237			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.375			
⌈	Na	23					

Sample ID: L1011066719
Report Date/Time: Wednesday, November 24, 2010 17:47:04
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066720

Sample Date/Time: Wednesday, November 24, 2010 17:51:39
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 55
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45453.242	0.05				ug/L
|	Be	9	12.000	0.00	0.0629	0.018	29.374	ug/L
|	Al	27	103634.878	0.35	14.7679	0.418	2.831	ug/L
⌊>	Sc	45	282296.462	282296.46				ug/L
⌈	Ti	49	380.046	0.00	0.4618	0.168	36.359	ug/L
|	V	51	6262.049	0.01	0.3650	0.015	4.233	ug/L
|	Cr	52	16627.312	0.02	0.9762	0.014	1.452	ug/L
|	Cr	53	1400.238	0.00	1.0572	0.089	8.445	ug/L
|	Mn	55	187266.776	0.45	14.3432	0.164	1.141	ug/L
|	Co	59	1223.087	0.00	0.0876	0.002	2.055	ug/L
|	Ni	60	2756.741	0.01	1.1431	0.018	1.542	ug/L
|	Cu	65	17629.704	0.04	7.2519	0.125	1.726	ug/L
|	Zn	66	22112.977	0.05	15.4338	0.039	0.253	ug/L
|>	Ge	72	413213.322	413213.32				ug/L
|	As	75	240.882	0.00	0.4907	0.023	4.671	ug/L
|	Se	77	86.676	0.00	0.3729	0.695	186.524	ug/L
|	Se	82	46.662	0.00	0.5887	0.046	7.827	ug/L
⌊	Rb	85	13128.744	0.03				mg/L
	Y	89	242089.672	-8704.43				ug/L
	Rh	103	25.000	6.00				ug/L
⌈	Mo	98	1018.409	0.00	0.4659	0.011	2.410	ug/L
|	Ag	107	93.668	-0.00	-0.0578	0.001	1.023	ug/L
|	Cd	114	43.482	0.00	0.0244	0.008	31.058	ug/L
|>	In	115	344323.964	344323.96				ug/L
|	Sn	118	965.113	-0.00	-0.0539	0.004	8.344	ug/L
⌊	Sb	123	697.400	0.00	0.2030	0.005	2.515	ug/L
⌈	Ba	135	18606.149	0.04	10.3233	0.142	1.378	ug/L
|	Ce	140	733.434	0.00				ug/L
⌊>	Tb	159	468851.284	468851.28				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	25.334	-0.00	0.0058	0.001	12.321	ug/L
|	Tl	205	73.341	-0.00	-0.0000	0.002	11291.887	ug/L
|	Pb	206	6126.604	0.01	0.9583	0.004	0.436	ug/L
|	Pb	207	5201.071	0.01	0.9005	0.014	1.579	ug/L
|	Pb	208	24325.581	0.05	0.9227	0.005	0.547	ug/L
|	U	238	687.030	0.00	0.0241	0.000	1.288	ug/L
⌊>	Bi	209	427319.351	427319.35				ug/L

Sample ID: L1011066720
Report Date/Time: Wednesday, November 24, 2010 17:53:50
Page 1

Approved: November 29, 2010

⌈	Na	23	85185635.291	301.78	14.3273	0.355	2.481	mg/L
|	Mg	24	5743568.865	20.35	1.4617	0.039	2.669	mg/L
|	K	39	19781868.747	68.48	1.9806	0.013	0.678	mg/L
|	Ca	43	161195.029	0.57	7.9102	0.209	2.636	mg/L
|	Fe	54	129874.409	0.27	0.1132	0.006	5.135	mg/L
|	Fe	57	28600.379	0.08	0.0733	0.002	2.231	mg/L
⌊>	Sc-1	45	282296.462	282296.46				mg/L
	Cl	35	425924.887	400798.69				mg/L
	Kr	83	39.000	-6.33				mg/L
	Br	81	29100.987	20267.75				mg/L
	P	31	130535.863	120041.65				mg/L
	S	34	313025.331	139866.53				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.637			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.796			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.847			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.759			
⌈	Na	23					

Sample ID: L1011066720
Report Date/Time: Wednesday, November 24, 2010 17:53:50
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066727

Sample Date/Time: Wednesday, November 24, 2010 17:58:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 56
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42624.083	0.04				ug/L
|	Be	9	6.000	-0.00	0.0473	0.009	18.435	ug/L
|	Al	27	23778.241	0.06	2.6380	0.119	4.516	ug/L
⌊>	Sc	45	285416.728	285416.73				ug/L
⌈	Ti	49	66.674	0.00	-0.0325	0.055	170.064	ug/L
|	V	51	2803.619	0.00	0.0147	0.004	25.923	ug/L
|	Cr	52	9582.019	0.00	0.1243	0.009	7.024	ug/L
|	Cr	53	353.375	-0.00	-0.0190	0.027	140.868	ug/L
|	Mn	55	2812.090	0.01	0.1759	0.004	2.189	ug/L
|	Co	59	173.337	-0.00	-0.0069	0.000	4.373	ug/L
|	Ni	60	199.337	0.00	0.0528	0.003	6.117	ug/L
|	Cu	65	436.014	0.00	0.1115	0.009	8.489	ug/L
|	Zn	66	2392.310	0.00	0.7997	0.074	9.234	ug/L
|>	Ge	72	420019.816	420019.82				ug/L
|	As	75	-143.773	0.00	0.0739	0.046	62.338	ug/L
|	Se	77	66.674	-0.00	0.0536	0.588	1096.396	ug/L
|	Se	82	10.371	0.00	0.1526	0.082	53.475	ug/L
⌊	Rb	85	52.001	0.00				mg/L
	Y	89	245009.499	-5784.60				ug/L
	Rh	103	9.333	-9.67				ug/L
⌈	Mo	98	784.824	0.00	0.3563	0.033	9.371	ug/L
|	Ag	107	23.000	-0.00	-0.0726	0.001	1.260	ug/L
|	Cd	114	24.925	0.00	0.0073	0.004	59.933	ug/L
|>	In	115	352264.992	352264.99				ug/L
|	Sn	118	770.296	-0.00	-0.1082	0.001	0.668	ug/L
⌊	Sb	123	71.414	-0.00	0.0229	0.003	11.069	ug/L
⌈	Ba	135	188.670	0.00	0.0939	0.002	2.442	ug/L
|	Ce	140	150.016	0.00				ug/L
⌊>	Tb	159	472895.202	472895.20				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	17.000	-0.00	0.0045	0.000	10.757	ug/L
|	Tl	205	26.669	-0.00	-0.0028	0.001	31.151	ug/L
|	Pb	206	710.366	0.00	0.0141	0.003	19.569	ug/L
|	Pb	207	616.692	0.00	0.0223	0.006	27.020	ug/L
|	Pb	208	2895.863	0.00	0.0191	0.003	15.388	ug/L
|	U	238	39.334	0.00	0.0072	0.000	1.371	ug/L
⌊>	Bi	209	445282.148	445282.15				ug/L

Sample ID: L1011066727
Report Date/Time: Wednesday, November 24, 2010 18:00:38
Page 1

Approved: November 29, 2010

⌈	Na	23	94510.684	0.28	0.0111	0.000	3.010	mg/L
|	Mg	24	22373.924	0.08	0.0026	0.000	4.749	mg/L
|	K	39	450256.804	-0.02	-0.0030	0.001	26.090	mg/L
|	Ca	43	610.080	0.00	0.0211	0.002	8.531	mg/L
|	Fe	54	95263.494	0.15	0.0624	0.004	5.771	mg/L
|	Fe	57	8768.056	0.01	0.0023	0.001	53.034	mg/L
⌊>	Sc-1	45	285416.728	285416.73				mg/L
	Cl	35	38959.084	13832.89				mg/L
	Kr	83	34.000	-11.33				mg/L
	Br	81	12311.575	3478.34				mg/L
	P	31	21118.961	10624.75				mg/L
	S	34	202386.213	29227.41				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.179			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.236			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.803			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.910			
⌈	Na	23					

Sample ID: L1011066727
Report Date/Time: Wednesday, November 24, 2010 18:00:38
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 18:05:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38691.374	0.03				ug/L
|	Be	9	20509.013	0.08	55.4118	1.704	3.075	ug/L
|	Al	27	326305.833	1.19	50.8495	1.642	3.228	ug/L
⌊>	Sc	45	269586.100	269586.10				ug/L
⌈	Ti	49	61826.704	0.15	97.9099	1.677	1.713	ug/L
|	V	51	495748.604	1.20	49.7504	0.412	0.828	ug/L
|	Cr	52	419110.448	1.00	49.0633	0.708	1.443	ug/L
|	Cr	53	48971.174	0.12	50.1415	0.555	1.107	ug/L
|	Mn	55	670695.440	1.64	51.9461	0.485	0.933	ug/L
|	Co	59	559032.278	1.36	50.6592	0.018	0.035	ug/L
|	Ni	60	117945.733	0.29	50.6564	0.564	1.113	ug/L
|	Cu	65	118410.523	0.29	49.5431	0.063	0.128	ug/L
|	Zn	66	69408.738	0.17	50.9477	0.693	1.361	ug/L
|>	Ge	72	409408.492	409408.49				ug/L
|	As	75	44760.976	0.11	49.5142	0.410	0.829	ug/L
|	Se	77	3314.214	0.01	50.2453	1.866	3.714	ug/L
|	Se	82	4264.704	0.01	51.6009	0.216	0.420	ug/L
⌊	Rb	85	1719.832	0.00				mg/L
	Y	89	236244.750	-14549.35				ug/L
	Rh	103	21.667	2.67				ug/L
⌈	Mo	98	201793.383	0.61	91.6679	0.105	0.115	ug/L
|	Ag	107	225477.733	0.68	48.5734	0.465	0.957	ug/L
|	Cd	114	53460.998	0.16	49.5483	0.798	1.611	ug/L
|>	In	115	331330.927	331330.93				ug/L
|	Sn	118	182879.100	0.55	48.3307	0.263	0.545	ug/L
⌊	Sb	123	162069.803	0.49	48.3285	0.262	0.542	ug/L
⌈	Ba	135	79166.280	0.18	46.0330	0.437	0.949	ug/L
|	Ce	140	76.675	0.00				ug/L
⌊>	Tb	159	447722.918	447722.92				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	351045.045	0.82	49.7695	0.526	1.056	ug/L
|	Tl	205	859760.446	2.00	49.6826	1.358	2.733	ug/L
|	Pb	206	286345.664	0.67	49.3060	0.618	1.253	ug/L
|	Pb	207	266037.995	0.62	50.3530	0.637	1.264	ug/L
|	Pb	208	1195823.779	2.78	49.8116	0.665	1.335	ug/L
|	U	238	1919012.534	4.47	49.7077	0.239	0.480	ug/L
⌊>	Bi	209	429476.194	429476.19				ug/L

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 18:07:23
Page 1

Approved: November 29, 2010

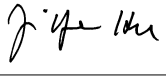
Na	23	28905350.981	107.20	5.0877	0.105	2.069	mg/L
Mg	24	18681415.263	69.31	4.9855	0.104	2.080	mg/L
K	39	44861423.126	164.81	4.7701	0.069	1.440	mg/L
Ca	43	98707.927	0.37	5.0689	0.090	1.772	mg/L
Fe	54	3338170.032	12.20	4.9018	0.031	0.634	mg/L
Fe	57	1381167.850	5.10	5.1272	0.053	1.026	mg/L
> Sc-1	45	269586.100	269586.10				mg/L
Cl	35	26223.008	1096.81				mg/L
Kr	83	30.000	-15.33				mg/L
Br	81	9296.988	463.75				mg/L
P	31	11142.228	648.02				mg/L
S	34	191813.096	18654.30				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	99.501				
Cr	52	98.127				
Cr	53					
Mn	55	103.892				
Co	59	101.318				
Ni	60	101.313				
Cu	65	99.086				
Zn	66	101.895				
> Ge	72		92.775			
As	75	99.028				
Se	77					
Se	82	103.202				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	97.147				
Cd	114	99.097				
> In	115		101.804			
Sn	118					
Sb	123	96.657				
Ba	135	92.066				
Ce	140					
> Tb	159		105.852			
Ho	165					
Tl	203	99.539				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.623				
U	238	99.415				
> Bi	209		99.257			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 18:07:23
Page 2

Approved: November 29, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 18:07:23
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 18:11:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44297.913	0.05				ug/L
|	Be	9	4.000	-0.00	0.0426	0.005	12.430	ug/L
|	Al	27	5568.256	-0.00	-0.0636	0.173	271.593	ug/L
⌊>	Sc	45	276298.458	276298.46				ug/L
⌈	Ti	49	43.338	0.00	-0.0692	0.009	13.480	ug/L
|	V	51	2496.947	-0.00	-0.0171	0.002	12.519	ug/L
|	Cr	52	8176.424	-0.00	-0.0458	0.022	48.067	ug/L
|	Cr	53	240.027	-0.00	-0.1343	0.012	8.578	ug/L
|	Mn	55	299.341	-0.00	-0.0141	0.000	2.080	ug/L
|	Co	59	186.004	-0.00	-0.0059	0.002	29.861	ug/L
|	Ni	60	20.334	-0.00	-0.0222	0.001	6.431	ug/L
|	Cu	65	88.668	-0.00	-0.0306	0.003	9.002	ug/L
|	Zn	66	896.049	-0.00	-0.2958	0.024	8.207	ug/L
|>	Ge	72	422918.529	422918.53				ug/L
|	As	75	-154.993	0.00	0.0626	0.031	49.127	ug/L
|	Se	77	36.670	-0.00	-0.4055	0.461	113.806	ug/L
|	Se	82	0.357	-0.00	0.0331	0.111	336.204	ug/L
⌊	Rb	85	12.333	-0.00				mg/L
	Y	89	247025.057	-3769.04				ug/L
	Rh	103	4.000	-15.00				ug/L
⌈	Mo	98	87.864	0.00	0.0577	0.003	5.901	ug/L
|	Ag	107	21.000	-0.00	-0.0731	0.001	1.661	ug/L
|	Cd	114	17.219	0.00	0.0004	0.003	695.319	ug/L
|>	In	115	357914.859	357914.86				ug/L
|	Sn	118	694.691	-0.00	-0.1298	0.007	5.478	ug/L
⌊	Sb	123	218.834	0.00	0.0633	0.003	4.137	ug/L
⌈	Ba	135	13.667	-0.00	-0.0026	0.003	107.839	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	479774.928	479774.93				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	21.334	-0.00	0.0051	0.000	8.132	ug/L
|	Tl	205	43.338	-0.00	-0.0019	0.001	33.184	ug/L
|	Pb	206	475.683	-0.00	-0.0263	0.001	3.352	ug/L
|	Pb	207	393.012	-0.00	-0.0199	0.005	25.418	ug/L
|	Pb	208	1903.758	-0.00	-0.0222	0.003	12.109	ug/L
|	U	238	75.001	0.00	0.0080	0.000	2.809	ug/L
⌊>	Bi	209	453141.217	453141.22				ug/L

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 18:14:06
Page 1

Approved: November 29, 2010

Na	23	12859.550	-0.00	-0.0024	0.000	2.142	mg/L
Mg	24	410.050	0.00	-0.0029	0.000	0.608	mg/L
K	39	416374.371	-0.09	-0.0050	0.001	11.135	mg/L
Ca	43	160.017	-0.00	-0.0005	0.001	214.884	mg/L
Fe	54	51400.735	0.00	0.0030	0.002	65.760	mg/L
Fe	57	7593.649	0.00	-0.0010	0.002	160.481	mg/L
> Sc-1	45	276298.458	276298.46				mg/L
Cl	35	25696.982	570.79				mg/L
Kr	83	35.667	-9.67				mg/L
Br	81	9633.977	800.74				mg/L
P	31	13172.019	2677.81				mg/L
S	34	199529.081	26370.28				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		95.836			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		109.972			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		113.430			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		104.727			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 18:14:06

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 18:14:06
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: PBW 51 WG349517-03

Sample Date/Time: Wednesday, November 24, 2010 18:18:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 57
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43310.350	0.04				ug/L
|	Be	9	4.667	-0.00	0.0444	0.008	18.494	ug/L
|	Al	27	8386.850	0.01	0.3682	0.028	7.608	ug/L
⌊>	Sc	45	277191.081	277191.08				ug/L
⌈	Ti	49	50.005	0.00	-0.0593	0.030	51.431	ug/L
|	V	51	2604.925	-0.00	-0.0075	0.007	89.779	ug/L
|	Cr	52	8315.540	-0.00	-0.0333	0.006	17.863	ug/L
|	Cr	53	246.695	-0.00	-0.1282	0.066	51.767	ug/L
|	Mn	55	633.693	0.00	0.0109	0.001	8.127	ug/L
|	Co	59	201.671	-0.00	-0.0046	0.002	35.886	ug/L
|	Ni	60	103.335	0.00	0.0122	0.005	36.919	ug/L
|	Cu	65	129.335	-0.00	-0.0143	0.002	16.197	ug/L
|	Zn	66	2108.577	0.00	0.5760	0.033	5.782	ug/L
|>	Ge	72	424436.573	424436.57				ug/L
|	As	75	-169.669	-0.00	0.0475	0.047	98.920	ug/L
|	Se	77	83.342	0.00	0.2883	0.769	266.603	ug/L
|	Se	82	-0.316	-0.00	0.0257	0.133	518.895	ug/L
⌊	Rb	85	21.000	0.00				mg/L
	Y	89	249324.492	-1469.61				ug/L
	Rh	103	8.000	-11.00				ug/L
⌈	Mo	98	54.603	0.00	0.0441	0.002	4.779	ug/L
|	Ag	107	18.000	-0.00	-0.0736	0.001	1.681	ug/L
|	Cd	114	16.327	0.00	-0.0002	0.007	3701.454	ug/L
|>	In	115	352172.259	352172.26				ug/L
|	Sn	118	570.816	-0.00	-0.1580	0.003	1.679	ug/L
⌊	Sb	123	83.164	-0.00	0.0262	0.001	4.751	ug/L
⌈	Ba	135	34.334	0.00	0.0088	0.004	40.810	ug/L
|	Ce	140	46.671	-0.00				ug/L
⌊>	Tb	159	476793.043	476793.04				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	15.000	-0.00	0.0042	0.000	10.177	ug/L
|	Tl	205	50.005	-0.00	-0.0015	0.001	96.414	ug/L
|	Pb	206	499.684	-0.00	-0.0219	0.001	6.229	ug/L
|	Pb	207	427.347	-0.00	-0.0132	0.003	21.483	ug/L
|	Pb	208	1998.432	-0.00	-0.0180	0.001	8.287	ug/L
|	U	238	25.667	-0.00	0.0068	0.000	0.894	ug/L
⌊>	Bi	209	450411.562	450411.56				ug/L

Sample ID: PBW 51 WG349517-03
Report Date/Time: Wednesday, November 24, 2010 18:20:54
Page 1

Approved: November 29, 2010

⌈	Na	23	25889.397	0.05	-0.0002	0.000	63.124	mg/L
|	Mg	24	1240.201	0.00	-0.0027	0.000	0.425	mg/L
|	K	39	431348.270	-0.04	-0.0036	0.000	13.792	mg/L
|	Ca	43	230.026	0.00	0.0030	0.001	38.359	mg/L
|	Fe	54	52003.513	0.00	0.0037	0.004	112.837	mg/L
|	Fe	57	7606.987	0.00	-0.0010	0.001	153.553	mg/L
⌊>	Sc-1	45	277191.081	277191.08				mg/L
	Cl	35	26266.456	1140.26				mg/L
	Kr	83	36.334	-9.00				mg/L
	Br	81	9294.321	461.08				mg/L
	P	31	11716.216	1222.00				mg/L
	S	34	198962.520	25803.72				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.180			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.208			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		112.725			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.096			
⌈	Na	23					

Sample ID: PBW 51 WG349517-03
Report Date/Time: Wednesday, November 24, 2010 18:20:54

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 51 WG349517-03
Report Date/Time: Wednesday, November 24, 2010 18:20:54
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: LCSW 51 WG349517-04

Sample Date/Time: Wednesday, November 24, 2010 18:25:29
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 58
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41821.246	0.04				ug/L
|	Be	9	10895.266	0.04	28.1094	1.033	3.673	ug/L
|	Al	27	171067.626	0.58	24.9769	0.897	3.591	ug/L
⌊>	Sc	45	282554.300	282554.30				ug/L
⌈	Ti	49	93.343	0.00	0.0055	0.010	172.990	ug/L
|	V	51	261688.628	0.60	24.9271	0.360	1.442	ug/L
|	Cr	52	233603.111	0.52	25.6280	0.428	1.669	ug/L
|	Cr	53	26895.474	0.06	26.0975	0.422	1.617	ug/L
|	Mn	55	361136.776	0.84	26.6685	0.210	0.788	ug/L
|	Co	59	300507.012	0.70	25.9736	0.202	0.776	ug/L
|	Ni	60	64946.564	0.15	26.6013	0.546	2.052	ug/L
|	Cu	65	65337.744	0.15	26.0538	0.310	1.188	ug/L
|	Zn	66	36246.943	0.08	24.9106	0.422	1.693	ug/L
|>	Ge	72	429080.039	429080.04				ug/L
|	As	75	23585.857	0.06	25.0043	0.326	1.303	ug/L
|	Se	77	1847.022	0.00	26.2710	1.829	6.964	ug/L
|	Se	82	2256.650	0.01	26.0690	0.458	1.757	ug/L
⌊	Rb	85	16.667	0.00				mg/L
	Y	89	251689.588	895.49				ug/L
	Rh	103	12.333	-6.67				ug/L
⌈	Mo	98	40.046	0.00	0.0378	0.005	13.282	ug/L
|	Ag	107	123007.164	0.35	24.7857	0.275	1.109	ug/L
|	Cd	114	28690.876	0.08	24.9021	0.276	1.107	ug/L
|>	In	115	353701.818	353701.82				ug/L
|	Sn	118	512.413	-0.00	-0.1732	0.003	1.494	ug/L
⌊	Sb	123	85813.637	0.24	23.9732	0.360	1.500	ug/L
⌈	Ba	135	41840.102	0.09	23.3355	0.095	0.406	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	466687.139	466687.14				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	186659.869	0.41	25.1104	0.059	0.234	ug/L
|	Tl	205	460628.749	1.02	25.2513	0.153	0.605	ug/L
|	Pb	206	156156.378	0.34	25.4618	0.222	0.873	ug/L
|	Pb	207	137942.280	0.30	24.7251	0.001	0.003	ug/L
|	Pb	208	637426.064	1.40	25.1437	0.201	0.798	ug/L
|	U	238	1000319.007	2.21	24.5893	0.227	0.924	ug/L
⌊>	Bi	209	452611.173	452611.17				ug/L

Sample ID: LCSW 51 WG349517-04
Report Date/Time: Wednesday, November 24, 2010 18:27:41
Page 1

Approved: November 29, 2010

⌈	Na	23	18482.267	0.02	-0.0015	0.000	8.657	mg/L
|	Mg	24	830.118	0.00	-0.0028	0.000	0.974	mg/L
|	K	39	423062.581	-0.10	-0.0053	0.001	25.141	mg/L
|	Ca	43	260.029	0.00	0.0043	0.002	50.126	mg/L
|	Fe	54	53395.058	0.00	0.0042	0.001	29.567	mg/L
|	Fe	57	7293.389	0.00	-0.0026	0.000	15.323	mg/L
⌊>	Sc-1	45	282554.300	282554.30				mg/L
	Cl	35	26979.680	1853.48				mg/L
	Kr	83	34.667	-10.67				mg/L
	Br	81	9523.200	689.96				mg/L
	P	31	11591.386	1097.17				mg/L
	S	34	192474.758	19315.96				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.232			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		108.678			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.336			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.604			
⌈	Na	23					

Sample ID: LCSW 51 WG349517-04
Report Date/Time: Wednesday, November 24, 2010 18:27:41
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 51 WG349517-04
Report Date/Time: Wednesday, November 24, 2010 18:27:41
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066721 WG349517-01

Sample Date/Time: Wednesday, November 24, 2010 18:32:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 59
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45620.679	0.05				ug/L
|	Be	9	6.667	-0.00	0.0491	0.006	11.840	ug/L
|	Al	27	82960.086	0.27	11.5170	0.546	4.741	ug/L
⌊>	Sc	45	285005.020	285005.02				ug/L
⌈	Ti	49	400.048	0.00	0.4977	0.138	27.712	ug/L
|	V	51	5565.618	0.01	0.3001	0.008	2.808	ug/L
|	Cr	52	14527.692	0.02	0.7423	0.011	1.524	ug/L
|	Cr	53	1100.171	0.00	0.7604	0.131	17.197	ug/L
|	Mn	55	435020.648	1.06	33.6506	0.469	1.393	ug/L
|	Co	59	1478.124	0.00	0.1116	0.004	3.634	ug/L
|	Ni	60	3275.236	0.01	1.3758	0.033	2.387	ug/L
|	Cu	65	12628.430	0.03	5.2199	0.073	1.396	ug/L
|	Zn	66	11198.713	0.02	7.4200	0.033	0.446	ug/L
|>	Ge	72	409747.801	409747.80				ug/L
|	As	75	250.146	0.00	0.5028	0.059	11.747	ug/L
|	Se	77	96.677	0.00	0.5363	0.622	115.975	ug/L
|	Se	82	51.349	0.00	0.6497	0.039	5.995	ug/L
⌊	Rb	85	11854.475	0.03				mg/L
	Y	89	240539.851	-10254.25				ug/L
	Rh	103	41.334	22.33				ug/L
⌈	Mo	98	1238.244	0.00	0.5692	0.019	3.408	ug/L
|	Ag	107	53.334	-0.00	-0.0660	0.002	3.065	ug/L
|	Cd	114	37.939	0.00	0.0199	0.003	15.536	ug/L
|>	In	115	339671.717	339671.72				ug/L
|	Sn	118	1036.054	-0.00	-0.0321	0.002	5.591	ug/L
⌊	Sb	123	717.320	0.00	0.2116	0.014	6.539	ug/L
⌈	Ba	135	25519.780	0.06	14.3397	0.163	1.135	ug/L
|	Ce	140	723.432	0.00				ug/L
⌊>	Tb	159	463090.189	463090.19				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	40.000	-0.00	0.0082	0.001	17.840	ug/L
|	Tl	205	90.009	-0.00	0.0012	0.001	88.895	ug/L
|	Pb	206	5337.811	0.01	0.8651	0.012	1.433	ug/L
|	Pb	207	4450.035	0.01	0.7974	0.018	2.277	ug/L
|	Pb	208	21024.935	0.05	0.8259	0.011	1.355	ug/L
|	U	238	1903.200	0.00	0.0581	0.001	0.928	ug/L
⌊>	Bi	209	408097.960	408097.96				ug/L

Sample ID: L1011066721 WG349517-01
Report Date/Time: Wednesday, November 24, 2010 18:34:26
Page 1

Approved: November 29, 2010

⌈	Na	23	143250137.859	502.68	23.8668	0.469	1.967	mg/L
|	Mg	24	12181924.988	42.75	3.0742	0.089	2.898	mg/L
|	K	39	21558970.908	74.07	2.1424	0.056	2.623	mg/L
|	Ca	43	265751.424	0.93	12.9232	0.348	2.693	mg/L
|	Fe	54	142677.261	0.32	0.1294	0.004	2.853	mg/L
|	Fe	57	34613.295	0.10	0.0936	0.003	3.447	mg/L
⌊>	Sc-1	45	285005.020	285005.02				mg/L
	Cl	35	695639.889	670513.69				mg/L
	Kr	83	36.667	-8.67				mg/L
	Br	81	32207.842	23374.61				mg/L
	P	31	94935.946	84441.73				mg/L
	S	34	402402.338	229243.54				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.851			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.367			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.485			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.317			
⌈	Na	23					

Sample ID: L1011066721 WG349517-01
Report Date/Time: Wednesday, November 24, 2010 18:34:26
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066721 WG349517-01
Report Date/Time: Wednesday, November 24, 2010 18:34:26
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066721DP WG349517-05

Sample Date/Time: Wednesday, November 24, 2010 18:39:00
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 60
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44733.166	0.05				ug/L
|	Be	9	6.667	-0.00	0.0496	0.011	22.156	ug/L
|	Al	27	95032.766	0.32	13.7763	0.041	0.298	ug/L
⌊>	Sc	45	276401.173	276401.17				ug/L
⌈	Ti	49	323.371	0.00	0.3803	0.055	14.452	ug/L
|	V	51	5486.523	0.01	0.2962	0.011	3.848	ug/L
|	Cr	52	14228.927	0.01	0.7193	0.034	4.692	ug/L
|	Cr	53	1433.580	0.00	1.1143	0.086	7.697	ug/L
|	Mn	55	445109.558	1.09	34.6864	0.401	1.157	ug/L
|	Co	59	1487.126	0.00	0.1135	0.006	5.728	ug/L
|	Ni	60	3271.235	0.01	1.3844	0.047	3.392	ug/L
|	Cu	65	12930.484	0.03	5.3865	0.046	0.848	ug/L
|	Zn	66	11973.283	0.03	8.0652	0.040	0.492	ug/L
|>	Ge	72	406727.516	406727.52				ug/L
|	As	75	319.415	0.00	0.5818	0.089	15.211	ug/L
|	Se	77	106.678	0.00	0.7013	0.933	133.101	ug/L
|	Se	82	68.016	0.00	0.8575	0.178	20.806	ug/L
⌊	Rb	85	11969.614	0.03				mg/L
	Y	89	243045.463	-7748.64				ug/L
	Rh	103	36.667	17.67				ug/L
⌈	Mo	98	1231.024	0.00	0.5670	0.005	0.816	ug/L
|	Ag	107	74.001	-0.00	-0.0617	0.002	3.178	ug/L
|	Cd	114	45.812	0.00	0.0271	0.010	36.972	ug/L
|>	In	115	339151.030	339151.03				ug/L
|	Sn	118	1029.786	-0.00	-0.0332	0.018	52.840	ug/L
⌊	Sb	123	529.681	0.00	0.1572	0.001	0.348	ug/L
⌈	Ba	135	25893.077	0.06	14.5753	0.134	0.916	ug/L
|	Ce	140	753.437	0.00				ug/L
⌊>	Tb	159	462249.625	462249.62				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	39.334	-0.00	0.0080	0.001	8.978	ug/L
|	Tl	205	83.342	-0.00	0.0008	0.003	442.295	ug/L
|	Pb	206	5362.825	0.01	0.8640	0.015	1.744	ug/L
|	Pb	207	4563.420	0.01	0.8148	0.012	1.530	ug/L
|	Pb	208	21367.902	0.05	0.8355	0.005	0.611	ug/L
|	U	238	1917.536	0.00	0.0582	0.000	0.414	ug/L
⌊>	Bi	209	410452.475	410452.48				ug/L

Sample ID: L1011066721DP WG349517-05
Report Date/Time: Wednesday, November 24, 2010 18:41:10
Page 1

Approved: November 29, 2010

⌈	Na	23	148086308.400	535.70	25.4345	0.415	1.633	mg/L
|	Mg	24	12404562.798	44.88	3.2270	0.037	1.153	mg/L
|	K	39	22263407.801	78.95	2.2838	0.033	1.466	mg/L
|	Ca	43	273422.177	0.99	13.7068	0.278	2.030	mg/L
|	Fe	54	142858.438	0.33	0.1359	0.004	2.810	mg/L
|	Fe	57	33479.351	0.10	0.0933	0.005	5.619	mg/L
⌊>	Sc-1	45	276401.173	276401.17				mg/L
	Cl	35	729615.037	704488.84				mg/L
	Kr	83	36.667	-8.67				mg/L
	Br	81	36866.579	28033.34				mg/L
	P	31	96881.407	86387.20				mg/L
	S	34	406236.979	233078.18				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.167			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.207			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.286			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.861			
⌈	Na	23					

Sample ID: L1011066721DP WG349517-05
Report Date/Time: Wednesday, November 24, 2010 18:41:10
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066721DP WG349517-05
Report Date/Time: Wednesday, November 24, 2010 18:41:10
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066721S WG349517-06

Sample Date/Time: Wednesday, November 24, 2010 18:45:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 61
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45587.009	0.05				ug/L
|	Be	9	9833.501	0.04	25.6171	1.252	4.888	ug/L
|	Al	27	246297.146	0.86	36.7254	1.748	4.758	ug/L
⌊>	Sc	45	279967.253	279967.25				ug/L
⌈	Ti	49	406.716	0.00	0.5103	0.083	16.239	ug/L
|	V	51	251633.387	0.61	25.1838	0.072	0.285	ug/L
|	Cr	52	223668.637	0.53	25.7834	0.109	0.423	ug/L
|	Cr	53	26420.841	0.06	26.9473	0.805	2.988	ug/L
|	Mn	55	770774.301	1.89	59.8420	0.223	0.373	ug/L
|	Co	59	281647.743	0.69	25.5746	0.261	1.021	ug/L
|	Ni	60	63180.941	0.15	27.1865	0.363	1.334	ug/L
|	Cu	65	71041.503	0.17	29.7695	0.241	0.810	ug/L
|	Zn	66	40673.625	0.10	29.5342	0.084	0.285	ug/L
|>	Ge	72	408419.361	408419.36				ug/L
|	As	75	20858.832	0.05	23.2494	0.112	0.481	ug/L
|	Se	77	1573.615	0.00	23.4121	1.420	6.063	ug/L
|	Se	82	1843.857	0.00	22.3793	0.426	1.904	ug/L
⌊	Rb	85	11736.668	0.03				mg/L
	Y	89	239006.153	-11787.94				ug/L
	Rh	103	47.334	28.33				ug/L
⌈	Mo	98	1302.180	0.00	0.5932	0.023	3.837	ug/L
|	Ag	107	106631.238	0.31	22.1882	0.309	1.394	ug/L
|	Cd	114	25051.676	0.07	22.4616	0.433	1.927	ug/L
|>	In	115	342398.082	342398.08				ug/L
|	Sn	118	1056.056	-0.00	-0.0290	0.008	28.773	ug/L
⌊	Sb	123	77486.390	0.23	22.3631	0.434	1.940	ug/L
⌈	Ba	135	64527.839	0.14	35.7883	0.218	0.609	ug/L
|	Ce	140	1526.936	0.00				ug/L
⌊>	Tb	159	469368.120	469368.12				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	168553.326	0.41	24.9754	0.132	0.528	ug/L
|	Tl	205	414814.615	1.01	25.0465	0.433	1.728	ug/L
|	Pb	206	147551.080	0.36	26.5036	0.170	0.640	ug/L
|	Pb	207	129504.473	0.31	25.5713	0.159	0.621	ug/L
|	Pb	208	598444.011	1.45	26.0045	0.151	0.582	ug/L
|	U	238	936732.028	2.28	25.3621	0.239	0.941	ug/L
⌊>	Bi	209	410915.666	410915.67				ug/L

Sample ID: L1011066721S WG349517-06
Report Date/Time: Wednesday, November 24, 2010 18:47:55
Page 1

Approved: November 29, 2010

⌈	Na	23	143481096.410	512.68	24.3413	0.549	2.257	mg/L
|	Mg	24	12298349.268	43.95	3.1606	0.105	3.307	mg/L
|	K	39	21915992.333	76.74	2.2197	0.076	3.418	mg/L
|	Ca	43	264809.956	0.95	13.1121	0.329	2.513	mg/L
|	Fe	54	140261.364	0.32	0.1296	0.002	1.198	mg/L
|	Fe	57	33747.041	0.10	0.0928	0.010	10.541	mg/L
⌊>	Sc-1	45	279967.253	279967.25				mg/L
	Cl	35	733277.141	708150.95				mg/L
	Kr	83	39.000	-6.33				mg/L
	Br	81	36234.886	27401.65				mg/L
	P	31	95649.498	85155.29				mg/L
	S	34	394932.566	221773.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.550			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.204			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.969			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.968			
⌈	Na	23					

Sample ID: L1011066721S WG349517-06
Report Date/Time: Wednesday, November 24, 2010 18:47:55
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066721S WG349517-06
Report Date/Time: Wednesday, November 24, 2010 18:47:55
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066804

Sample Date/Time: Wednesday, November 24, 2010 18:52:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 62
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

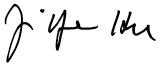
User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42389.866	0.04				ug/L
|	Be	9	12.000	0.00	0.0636	0.028	43.924	ug/L
|	Al	27	232047.838	0.81	34.7087	4.892	14.094	ug/L
⌊>	Sc	45	278268.679	278268.68				ug/L
⌈	Ti	49	980.147	0.00	1.5421	0.310	20.126	ug/L
|	V	51	17234.161	0.04	1.6152	0.026	1.601	ug/L
|	Cr	52	54138.733	0.12	5.9856	0.111	1.855	ug/L
|	Cr	53	1336.890	0.00	1.1140	0.016	1.477	ug/L
|	Mn	55	4781155.208	12.60	399.8056	2.977	0.745	ug/L
|	Co	59	30586.014	0.08	2.9702	0.031	1.048	ug/L
|	Ni	60	14624.836	0.04	6.7509	0.044	0.658	ug/L
|	Cu	65	1266.760	0.00	0.5064	0.034	6.736	ug/L
|	Zn	66	4803.869	0.01	2.9308	0.070	2.397	ug/L
|>	Ge	72	379388.900	379388.90				ug/L
|	As	75	535.462	0.00	0.8643	0.037	4.237	ug/L
|	Se	77	116.679	0.00	0.9872	0.162	16.396	ug/L
|	Se	82	127.405	0.00	1.6932	0.290	17.124	ug/L
⌊	Rb	85	3248.227	0.01				mg/L
	Y	89	226810.317	-23983.78				ug/L
	Rh	103	182.003	163.00				ug/L
⌈	Mo	98	950.511	0.00	0.4911	0.018	3.664	ug/L
|	Ag	107	95.001	-0.00	-0.0549	0.001	2.579	ug/L
|	Cd	114	31.190	0.00	0.0171	0.018	104.154	ug/L
|>	In	115	304066.452	304066.45				ug/L
|	Sn	118	3813.951	0.01	0.8033	0.237	29.465	ug/L
⌊	Sb	123	178.080	0.00	0.0608	0.003	5.403	ug/L
⌈	Ba	135	33636.151	0.08	20.5144	0.209	1.018	ug/L
|	Ce	140	5992.412	0.01				ug/L
⌊>	Tb	159	426808.101	426808.10				ug/L
⌈	Ho	165	93.343	0.00				ug/L
|	Tl	203	124.669	0.00	0.0235	0.001	4.520	ug/L
|	Tl	205	273.364	0.00	0.0148	0.000	3.354	ug/L
|	Pb	206	1186.082	0.00	0.1427	0.003	2.320	ug/L
|	Pb	207	999.393	0.00	0.1380	0.006	4.196	ug/L
|	Pb	208	4738.494	0.01	0.1410	0.001	0.947	ug/L
|	U	238	426880.466	1.20	13.3407	0.019	0.144	ug/L
⌊>	Bi	209	356080.943	356080.94				ug/L

Sample ID: L1011066804
Report Date/Time: Wednesday, November 24, 2010 18:54:41
Page 1

Approved: November 29, 2010



⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	100161639.826	359.96	25.9040	0.732	2.826	mg/L
|	K	39	10799798.052	37.22	1.0753	0.011	1.005	mg/L
|	Ca	43	699932.390	2.51	34.8657	0.254	0.727	mg/L
|	Fe	54	505764.277	1.63	0.6584	0.012	1.774	mg/L
|	Fe	57	203650.857	0.71	0.7080	0.026	3.703	mg/L
⌊>	Sc-1	45	278268.679	278268.68				mg/L
	Cl	35	396819.812	371693.62				mg/L
	Kr	83	30.334	-15.00				mg/L
	Br	81	76772.372	67939.14				mg/L
	P	31	20213.108	9718.90				mg/L
	S	34	1031928.326	858769.52				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.972			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.427			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.907			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		82.295			
⌈	Na	23					

Sample ID: L1011066804
Report Date/Time: Wednesday, November 24, 2010 18:54:41
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066804PS WG349650-01

Sample Date/Time: Wednesday, November 24, 2010 18:59:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 63
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44934.273	0.04				ug/L
|	Be	9	19834.988	0.07	49.1086	1.428	2.907	ug/L
|	Al	27	523422.138	1.76	75.1431	4.915	6.541	ug/L
⌊>	Sc	45	294251.722	294251.72				ug/L
⌈	Ti	49	1323.565	0.00	2.0760	1.028	49.514	ug/L
|	V	51	536812.021	1.37	56.6779	0.726	1.280	ug/L
|	Cr	52	485668.892	1.23	59.9911	0.907	1.513	ug/L
|	Cr	53	52723.884	0.13	56.8075	0.531	0.934	ug/L
|	Mn	55	5539950.640	14.23	451.3804	3.578	0.793	ug/L
|	Co	59	598642.870	1.54	57.0423	0.301	0.528	ug/L
|	Ni	60	131648.700	0.34	59.4486	0.428	0.720	ug/L
|	Cu	65	113349.945	0.29	49.8650	0.088	0.177	ug/L
|	Zn	66	59686.890	0.15	45.9662	0.355	0.773	ug/L
|>	Ge	72	389384.156	389384.16				ug/L
|	As	75	46371.391	0.12	53.9114	0.296	0.549	ug/L
|	Se	77	3560.991	0.01	56.8666	3.390	5.961	ug/L
|	Se	82	4131.563	0.01	52.5665	0.887	1.687	ug/L
⌊	Rb	85	3235.889	0.01				mg/L
	Y	89	236852.569	-13941.53				ug/L
	Rh	103	216.671	197.67				ug/L
⌈	Mo	98	937.099	0.00	0.4679	0.011	2.378	ug/L
|	Ag	107	198211.037	0.63	44.8526	0.565	1.260	ug/L
|	Cd	114	47452.100	0.15	46.2034	0.241	0.523	ug/L
|>	In	115	315380.075	315380.08				ug/L
|	Sn	118	4497.554	0.01	0.9550	0.142	14.858	ug/L
⌊	Sb	123	154060.813	0.49	48.2631	0.157	0.326	ug/L
⌈	Ba	135	111694.466	0.25	65.3582	0.208	0.319	ug/L
|	Ce	140	5545.426	0.01				ug/L
⌊>	Tb	159	444929.489	444929.49				ug/L
⌈	Ho	165	116.679	0.00				ug/L
|	Tl	203	323561.997	0.89	53.9118	0.408	0.757	ug/L
|	Tl	205	798239.545	2.18	54.2058	0.644	1.189	ug/L
|	Pb	206	271386.298	0.74	54.9287	0.657	1.197	ug/L
|	Pb	207	239116.480	0.65	53.1915	0.182	0.342	ug/L
|	Pb	208	1107272.811	3.02	54.2117	0.429	0.792	ug/L
|	U	238	2260676.028	6.19	68.8193	0.808	1.174	ug/L
⌊>	Bi	209	365409.355	365409.36				ug/L

Sample ID: L1011066804PS WG349650-01
Report Date/Time: Wednesday, November 24, 2010 19:01:27
Page 1

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	102238897.522	347.50	25.0076	0.367	1.469	mg/L
|	K	39	10785038.898	35.07	1.0130	0.017	1.652	mg/L
|	Ca	43	707394.786	2.40	33.3286	0.334	1.003	mg/L
|	Fe	54	521671.706	1.59	0.6407	0.018	2.776	mg/L
|	Fe	57	214375.460	0.70	0.7047	0.016	2.306	mg/L
⌊>	Sc-1	45	294251.722	294251.72				mg/L
	Cl	35	395382.948	370256.75				mg/L
	Kr	83	40.000	-5.33				mg/L
	Br	81	76112.632	67279.40				mg/L
	P	31	24275.616	13781.40				mg/L
	S	34	1052219.739	879060.94				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		88.237			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
\>	In	115		96.903			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.192			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		84.451			
⌈	Na	23					

Sample ID: L1011066804PS WG349650-01
Report Date/Time: Wednesday, November 24, 2010 19:01:27
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066804SDL WG349650-02

Sample Date/Time: Wednesday, November 24, 2010 19:06:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 64
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43695.401	0.04				ug/L
|	Be	9	4.667	-0.00	0.0441	0.008	18.588	ug/L
|	Al	27	76118.803	0.25	10.5942	7.012	66.187	ug/L
⌊>	Sc	45	285847.256	285847.26				ug/L
⌈	Ti	49	330.039	0.00	0.3592	0.159	44.207	ug/L
|	V	51	4345.656	0.00	0.1537	0.006	3.693	ug/L
|	Cr	52	13348.037	0.01	0.5163	0.015	2.917	ug/L
|	Cr	53	400.048	0.00	0.0162	0.045	279.886	ug/L
|	Mn	55	1007493.842	2.33	73.8039	0.887	1.201	ug/L
|	Co	59	6531.531	0.01	0.5377	0.006	1.131	ug/L
|	Ni	60	3222.885	0.01	1.2791	0.006	0.490	ug/L
|	Cu	65	441.681	0.00	0.1084	0.004	3.573	ug/L
|	Zn	66	3878.458	0.01	1.7975	0.063	3.479	ug/L
|>	Ge	72	432917.258	432917.26				ug/L
|	As	75	6.236	0.00	0.2344	0.025	10.562	ug/L
|	Se	77	90.009	0.00	0.3591	0.293	81.648	ug/L
|	Se	82	40.030	0.00	0.4871	0.123	25.266	ug/L
⌊	Rb	85	722.033	0.00				mg/L
	Y	89	255190.826	4396.73				ug/L
	Rh	103	48.334	29.33				ug/L
⌈	Mo	98	246.722	0.00	0.1265	0.006	4.822	ug/L
|	Ag	107	105.668	-0.00	-0.0558	0.002	3.651	ug/L
|	Cd	114	20.082	0.00	0.0032	0.001	37.027	ug/L
|>	In	115	351129.562	351129.56				ug/L
|	Sn	118	1178.470	0.00	-0.0051	0.016	322.686	ug/L
⌊	Sb	123	346.465	0.00	0.1005	0.041	41.018	ug/L
⌈	Ba	135	7199.664	0.02	3.9899	0.115	2.878	ug/L
|	Ce	140	1176.854	0.00				ug/L
⌊>	Tb	159	468697.327	468697.33				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	69.334	0.00	0.0119	0.002	15.749	ug/L
|	Tl	205	176.686	0.00	0.0058	0.001	21.985	ug/L
|	Pb	206	657.028	0.00	0.0081	0.002	22.768	ug/L
|	Pb	207	573.689	0.00	0.0171	0.009	53.158	ug/L
|	Pb	208	2606.159	0.00	0.0101	0.000	0.505	ug/L
|	U	238	90791.530	0.21	2.3323	0.009	0.373	ug/L
⌊>	Bi	209	434153.624	434153.62				ug/L

Approved: November 29, 2010

⌈	Na	23	196590142.152	688.38	32.6843	1.503	4.598	mg/L
|	Mg	24	21096540.174	73.85	5.3122	0.184	3.464	mg/L
|	K	39	2495847.929	7.14	0.2044	0.008	3.938	mg/L
|	Ca	43	138881.645	0.49	6.7331	0.261	3.869	mg/L
|	Fe	54	151283.136	0.34	0.1411	0.009	6.191	mg/L
|	Fe	57	49916.016	0.15	0.1472	0.006	4.020	mg/L
⌊>	Sc-1	45	285847.256	285847.26				mg/L
	Cl	35	104185.963	79059.77				mg/L
	Kr	83	35.000	-10.33				mg/L
	Br	81	26358.027	17524.79				mg/L
	P	31	15126.103	4631.89				mg/L
	S	34	390066.232	216907.43				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.102			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.887			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.811			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.338			
⌈	Na	23					

Sample ID: L1011066804SDL WG349650-02
Report Date/Time: Wednesday, November 24, 2010 19:08:13
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066804SDL WG349650-02
Report Date/Time: Wednesday, November 24, 2010 19:08:13
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 19:12:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	37085.309	0.02				ug/L
|	Be	9	21213.143	0.07	53.7773	1.069	1.987	ug/L
|	Al	27	350003.113	1.20	51.1761	0.596	1.165	ug/L
⌊>	Sc	45	287285.361	287285.36				ug/L
⌜	Ti	49	66241.954	0.15	98.5834	0.395	0.400	ug/L
|	V	51	535895.869	1.22	50.5492	0.579	1.145	ug/L
|	Cr	52	455966.979	1.03	50.1883	0.886	1.766	ug/L
|	Cr	53	53099.272	0.12	51.1043	1.027	2.009	ug/L
|	Mn	55	721426.358	1.66	52.5152	0.590	1.123	ug/L
|	Co	59	602798.984	1.38	51.3462	0.784	1.528	ug/L
|	Ni	60	126100.721	0.29	50.9023	0.427	0.839	ug/L
|	Cu	65	127194.070	0.29	50.0214	0.177	0.354	ug/L
|	Zn	66	73257.123	0.17	50.5285	0.831	1.645	ug/L
| >	Ge	72	435576.872	435576.87				ug/L
|	As	75	47389.615	0.11	49.2712	0.596	1.209	ug/L
|	Se	77	3647.697	0.01	51.9914	1.141	2.194	ug/L
|	Se	82	4559.485	0.01	51.8557	1.144	2.206	ug/L
⌊	Rb	85	1867.526	0.00				mg/L
	Y	89	251792.154	998.06				ug/L
	Rh	103	24.000	5.00				ug/L
⌜	Mo	98	216131.362	0.63	94.1662	0.953	1.012	ug/L
|	Ag	107	240748.104	0.69	49.7446	0.339	0.682	ug/L
|	Cd	114	54608.095	0.16	48.5432	0.348	0.716	ug/L
| >	In	115	345449.609	345449.61				ug/L
|	Sn	118	190613.394	0.55	48.3160	0.184	0.381	ug/L
⌊	Sb	123	167831.724	0.49	48.0030	0.477	0.994	ug/L
⌜	Ba	135	82855.327	0.18	46.8307	0.327	0.699	ug/L
|	Ce	140	100.011	0.00				ug/L
⌊>	Tb	159	460611.688	460611.69				ug/L
⌜	Ho	165	16.668	-0.00				ug/L
|	Tl	203	364339.733	0.81	49.4000	0.286	0.578	ug/L
|	Tl	205	897834.449	2.00	49.6145	0.834	1.682	ug/L
|	Pb	206	294755.185	0.65	48.5361	0.636	1.311	ug/L
|	Pb	207	277649.453	0.62	50.2558	0.398	0.792	ug/L
|	Pb	208	1239375.606	2.75	49.3698	0.399	0.807	ug/L
|	U	238	1986018.239	4.42	49.2011	0.409	0.831	ug/L
⌊>	Bi	209	449048.770	449048.77				ug/L

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 19:14:58
Page 1

Approved: November 29, 2010

Na	23	30848194.618	107.34	5.0944	0.063	1.240	mg/L
Mg	24	20073205.727	69.87	5.0255	0.039	0.776	mg/L
K	39	48975974.978	168.90	4.8886	0.089	1.820	mg/L
Ca	43	107060.822	0.37	5.1587	0.101	1.957	mg/L
Fe	54	3618938.234	12.41	4.9875	0.033	0.669	mg/L
Fe	57	1505203.942	5.21	5.2446	0.065	1.242	mg/L
> Sc-1	45	287285.361	287285.36				mg/L
Cl	35	27557.924	2431.73				mg/L
Kr	83	32.334	-13.00				mg/L
Br	81	11636.767	2803.53				mg/L
P	31	12874.958	2380.75				mg/L
S	34	204505.153	31346.35				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	101.098				
Cr	52	100.377				
Cr	53					
Mn	55	105.030				
Co	59	102.692				
Ni	60	101.805				
Cu	65	100.043				
Zn	66	101.057				
> Ge	72		98.704			
As	75	98.542				
Se	77					
Se	82	103.711				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.489				
Cd	114	97.086				
> In	115		106.142			
Sn	118					
Sb	123	96.006				
Ba	135	93.661				
Ce	140					
> Tb	159		108.899			
Ho	165					
Tl	203	98.800				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.740				
U	238	98.402				
> Bi	209		103.781			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 19:14:58
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 19:14:58
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 19:19:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39344.219	0.03				ug/L
|	Be	9	5.333	-0.00	0.0457	0.008	16.932	ug/L
|	Al	27	6051.832	-0.00	-0.0183	0.036	195.935	ug/L
⌊>	Sc	45	285124.480	285124.48				ug/L
⌈	Ti	49	43.338	0.00	-0.0702	0.044	62.520	ug/L
|	V	51	2774.779	0.00	0.0049	0.006	113.434	ug/L
|	Cr	52	8931.076	0.00	0.0217	0.014	62.504	ug/L
|	Cr	53	183.353	-0.00	-0.1941	0.042	21.836	ug/L
|	Mn	55	336.676	0.00	-0.0117	0.001	9.741	ug/L
|	Co	59	178.670	-0.00	-0.0069	0.000	4.860	ug/L
|	Ni	60	26.334	-0.00	-0.0199	0.002	10.029	ug/L
|	Cu	65	105.668	-0.00	-0.0246	0.005	20.001	ug/L
|	Zn	66	821.375	-0.00	-0.3611	0.010	2.728	ug/L
|>	Ge	72	431146.602	431146.60				ug/L
|	As	75	-126.168	0.00	0.0960	0.009	9.257	ug/L
|	Se	77	53.339	-0.00	-0.1706	0.381	223.075	ug/L
|	Se	82	11.029	0.00	0.1565	0.071	45.390	ug/L
⌊	Rb	85	13.667	0.00				mg/L
	Y	89	256634.294	5840.20				ug/L
	Rh	103	9.000	-10.00				ug/L
⌈	Mo	98	93.417	0.00	0.0611	0.006	10.475	ug/L
|	Ag	107	48.334	-0.00	-0.0674	0.001	1.210	ug/L
|	Cd	114	18.279	0.00	0.0017	0.004	232.189	ug/L
|>	In	115	349164.982	349164.98				ug/L
|	Sn	118	741.628	-0.00	-0.1136	0.007	6.163	ug/L
⌊	Sb	123	233.749	0.00	0.0691	0.011	15.272	ug/L
⌈	Ba	135	11.667	-0.00	-0.0034	0.001	25.370	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	464648.973	464648.97				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	27.334	-0.00	0.0059	0.001	8.773	ug/L
|	Tl	205	56.673	-0.00	-0.0012	0.002	144.420	ug/L
|	Pb	206	475.349	-0.00	-0.0263	0.005	20.427	ug/L
|	Pb	207	393.678	-0.00	-0.0198	0.001	6.220	ug/L
|	Pb	208	1871.755	-0.00	-0.0235	0.002	7.177	ug/L
|	U	238	88.668	0.00	0.0084	0.000	2.240	ug/L
⌊>	Bi	209	453141.511	453141.51				ug/L

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 19:21:41
Page 1

Approved: November 29, 2010

⌈	Na	23	34830.699	0.07	0.0012	0.000	3.037	mg/L
|	Mg	24	883.461	0.00	-0.0028	0.000	0.375	mg/L
|	K	39	432702.882	-0.08	-0.0047	0.001	14.350	mg/L
|	Ca	43	116.679	-0.00	-0.0028	0.001	43.386	mg/L
|	Fe	54	55240.409	0.01	0.0061	0.003	41.132	mg/L
|	Fe	57	7640.349	0.00	-0.0017	0.000	21.294	mg/L
⌊>	Sc-1	45	285124.480	285124.48				mg/L
	Cl	35	25990.399	864.20				mg/L
	Kr	83	35.000	-10.33				mg/L
	Br	81	10553.566	1720.33				mg/L
	P	31	11961.826	1467.61				mg/L
	S	34	203310.359	30151.56				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.701			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.284			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.854			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.727			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 19:21:41
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 19:21:41
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066722

Sample Date/Time: Wednesday, November 24, 2010 19:26:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 65
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43176.426	0.04				ug/L
|	Be	9	4.667	-0.00	0.0438	0.010	23.794	ug/L
|	Al	27	116172.281	0.38	16.0907	1.051	6.529	ug/L
⌊>	Sc	45	292002.079	292002.08				ug/L
⌈	Ti	49	400.048	0.00	0.4898	0.145	29.679	ug/L
|	V	51	5787.943	0.01	0.3158	0.016	5.161	ug/L
|	Cr	52	16400.603	0.02	0.9436	0.029	3.092	ug/L
|	Cr	53	1463.587	0.00	1.1165	0.107	9.615	ug/L
|	Mn	55	434750.133	1.05	33.2406	0.429	1.292	ug/L
|	Co	59	1608.812	0.00	0.1218	0.003	2.848	ug/L
|	Ni	60	3460.633	0.01	1.4382	0.016	1.104	ug/L
|	Cu	65	12502.937	0.03	5.1078	0.056	1.091	ug/L
|	Zn	66	14481.958	0.03	9.7486	0.055	0.561	ug/L
|>	Ge	72	414482.393	414482.39				ug/L
|	As	75	292.970	0.00	0.5466	0.028	5.108	ug/L
|	Se	77	96.677	0.00	0.5214	0.334	64.085	ug/L
|	Se	82	58.650	0.00	0.7300	0.053	7.200	ug/L
⌊	Rb	85	12280.325	0.03				mg/L
	Y	89	245632.250	-5161.85				ug/L
	Rh	103	45.667	26.67				ug/L
⌈	Mo	98	825.202	0.00	0.3820	0.011	2.935	ug/L
|	Ag	107	86.001	-0.00	-0.0594	0.003	4.499	ug/L
|	Cd	114	41.902	0.00	0.0230	0.006	26.608	ug/L
|>	In	115	343875.331	343875.33				ug/L
|	Sn	118	1656.004	0.00	0.1234	0.010	7.775	ug/L
⌊	Sb	123	631.898	0.00	0.1845	0.006	3.303	ug/L
⌈	Ba	135	27614.022	0.06	15.3538	0.188	1.227	ug/L
|	Ce	140	1426.911	0.00				ug/L
⌊>	Tb	159	468008.097	468008.10				ug/L
⌈	Ho	165	46.671	0.00				ug/L
|	Tl	203	32.667	-0.00	0.0070	0.000	1.200	ug/L
|	Tl	205	66.674	-0.00	-0.0003	0.001	243.549	ug/L
|	Pb	206	5328.473	0.01	0.8508	0.012	1.404	ug/L
|	Pb	207	4437.029	0.01	0.7833	0.009	1.104	ug/L
|	Pb	208	20906.817	0.04	0.8087	0.010	1.204	ug/L
|	U	238	2070.569	0.00	0.0619	0.002	3.660	ug/L
⌊>	Bi	209	413487.326	413487.33				ug/L

Sample ID: L1011066722
Report Date/Time: Wednesday, November 24, 2010 19:28:28
Page 1

Approved: November 29, 2010

⌈	Na	23	162476802.742	556.42	26.4185	0.452	1.711	mg/L
|	Mg	24	13221075.236	45.28	3.2560	0.068	2.076	mg/L
|	K	39	22063283.684	73.97	2.1394	0.007	0.324	mg/L
|	Ca	43	289098.162	0.99	13.7183	0.119	0.869	mg/L
|	Fe	54	163862.854	0.38	0.1537	0.004	2.566	mg/L
|	Fe	57	35884.593	0.10	0.0950	0.005	4.798	mg/L
⌊>	Sc-1	45	292002.079	292002.08				mg/L
	Cl	35	757356.482	732230.29				mg/L
	Kr	83	40.334	-5.00				mg/L
	Br	81	36763.538	27930.30				mg/L
	P	31	98276.747	87782.54				mg/L
	S	34	414424.907	241266.11				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.924			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.658			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.648			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.562			
⌈	Na	23					

Sample ID: L1011066722
Report Date/Time: Wednesday, November 24, 2010 19:28:28
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066723

Sample Date/Time: Wednesday, November 24, 2010 19:33:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 66
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43477.774	0.04				ug/L
|	Be	9	5.333	-0.00	0.0455	0.003	6.852	ug/L
|	Al	27	114586.137	0.38	16.0234	0.456	2.847	ug/L
⌊>	Sc	45	289189.749	289189.75				ug/L
⌈	Ti	49	370.044	0.00	0.4341	0.134	30.812	ug/L
|	V	51	6630.371	0.01	0.3892	0.008	2.098	ug/L
|	Cr	52	17015.636	0.02	0.9839	0.024	2.431	ug/L
|	Cr	53	1740.326	0.00	1.3709	0.066	4.839	ug/L
|	Mn	55	543535.285	1.29	40.9076	0.478	1.167	ug/L
|	Co	59	4288.629	0.01	0.3557	0.007	1.966	ug/L
|	Ni	60	4325.645	0.01	1.7761	0.023	1.312	ug/L
|	Cu	65	9401.512	0.02	3.7620	0.048	1.286	ug/L
|	Zn	66	14342.089	0.03	9.4774	0.189	1.997	ug/L
|>	Ge	72	421200.827	421200.83				ug/L
|	As	75	185.068	0.00	0.4258	0.094	22.048	ug/L
|	Se	77	93.343	0.00	0.4458	0.381	85.381	ug/L
|	Se	82	54.369	0.00	0.6679	0.212	31.674	ug/L
⌊	Rb	85	10200.302	0.02				mg/L
	Y	89	251871.304	1077.21				ug/L
	Rh	103	37.334	18.33				ug/L
⌈	Mo	98	2781.611	0.01	1.2221	0.034	2.783	ug/L
|	Ag	107	95.001	-0.00	-0.0578	0.002	3.261	ug/L
|	Cd	114	44.512	0.00	0.0248	0.007	28.263	ug/L
|>	In	115	348412.435	348412.43				ug/L
|	Sn	118	1129.931	-0.00	-0.0151	0.002	12.082	ug/L
⌊	Sb	123	843.163	0.00	0.2420	0.006	2.417	ug/L
⌈	Ba	135	20998.234	0.04	11.5836	0.112	0.963	ug/L
|	Ce	140	856.790	0.00				ug/L
⌊>	Tb	159	471670.382	471670.38				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	48.334	-0.00	0.0092	0.000	0.669	ug/L
|	Tl	205	123.346	-0.00	0.0031	0.002	56.188	ug/L
|	Pb	206	4514.731	0.01	0.6964	0.015	2.115	ug/L
|	Pb	207	3899.799	0.01	0.6693	0.008	1.159	ug/L
|	Pb	208	18102.985	0.04	0.6788	0.001	0.138	ug/L
|	U	238	2019.224	0.00	0.0599	0.001	1.307	ug/L
⌊>	Bi	209	417932.105	417932.10				ug/L

Sample ID: L1011066723
Report Date/Time: Wednesday, November 24, 2010 19:35:15
Page 1

Approved: November 29, 2010

⌈	Na	23	141680381.113	490.11	23.2699	0.885	3.805	mg/L
|	Mg	24	10734192.646	37.13	2.6697	0.108	4.059	mg/L
|	K	39	18477059.502	62.30	1.8016	0.008	0.471	mg/L
|	Ca	43	260974.415	0.90	12.5047	0.131	1.045	mg/L
|	Fe	54	172446.018	0.41	0.1679	0.007	4.354	mg/L
|	Fe	57	40258.314	0.11	0.1114	0.003	2.743	mg/L
⌊>	Sc-1	45	289189.749	289189.75				mg/L
	Cl	35	692049.436	666923.24				mg/L
	Kr	83	34.334	-11.00				mg/L
	Br	81	27640.158	18806.92				mg/L
	P	31	87520.281	77026.07				mg/L
	S	34	415925.346	242766.55				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.447			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.052			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.514			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.589			
⌈	Na	23					

Sample ID: L1011066723
Report Date/Time: Wednesday, November 24, 2010 19:35:15
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066723
Report Date/Time: Wednesday, November 24, 2010 19:35:15
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066724

Sample Date/Time: Wednesday, November 24, 2010 19:39:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 67
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42975.552	0.04				ug/L
|	Be	9	5.333	-0.00	0.0458	0.011	23.291	ug/L
|	Al	27	99139.075	0.33	14.0718	0.403	2.865	ug/L
⌊>	Sc	45	282724.650	282724.65				ug/L
⌈	Ti	49	356.709	0.00	0.4286	0.152	35.533	ug/L
|	V	51	5461.184	0.01	0.2886	0.016	5.526	ug/L
|	Cr	52	15801.300	0.02	0.8907	0.016	1.848	ug/L
|	Cr	53	1703.649	0.00	1.3778	0.125	9.061	ug/L
|	Mn	55	415416.445	1.01	32.0702	0.225	0.702	ug/L
|	Co	59	1645.152	0.00	0.1265	0.005	3.747	ug/L
|	Ni	60	3040.159	0.01	1.2722	0.012	0.950	ug/L
|	Cu	65	12190.214	0.03	5.0270	0.038	0.751	ug/L
|	Zn	66	20340.203	0.05	14.2197	0.106	0.745	ug/L
|>	Ge	72	410518.392	410518.39				ug/L
|	As	75	416.763	0.00	0.6856	0.066	9.654	ug/L
|	Se	77	126.680	0.00	0.9922	0.713	71.858	ug/L
|	Se	82	120.063	0.00	1.4776	0.058	3.920	ug/L
⌊	Rb	85	11152.661	0.03				mg/L
	Y	89	242423.900	-8370.20				ug/L
	Rh	103	40.334	21.33				ug/L
⌈	Mo	98	916.394	0.00	0.4297	0.013	3.067	ug/L
|	Ag	107	81.668	-0.00	-0.0600	0.001	2.410	ug/L
|	Cd	114	25.729	0.00	0.0090	0.005	54.343	ug/L
|>	In	115	337311.228	337311.23				ug/L
|	Sn	118	1776.691	0.00	0.1633	0.008	4.600	ug/L
⌊	Sb	123	540.265	0.00	0.1612	0.005	2.815	ug/L
⌈	Ba	135	61721.193	0.14	35.2651	0.384	1.090	ug/L
|	Ce	140	550.071	0.00				ug/L
⌊>	Tb	159	455612.897	455612.90				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	32.334	-0.00	0.0070	0.001	10.424	ug/L
|	Tl	205	106.678	-0.00	0.0022	0.003	113.056	ug/L
|	Pb	206	5997.860	0.01	0.9894	0.041	4.138	ug/L
|	Pb	207	5162.384	0.01	0.9437	0.028	2.939	ug/L
|	Pb	208	24015.297	0.05	0.9615	0.023	2.431	ug/L
|	U	238	1567.472	0.00	0.0491	0.001	1.378	ug/L
⌊>	Bi	209	406452.057	406452.06				ug/L

Sample ID: L1011066724
Report Date/Time: Wednesday, November 24, 2010 19:42:02
Page 1

Approved: November 29, 2010

⌈	Na	23	179203531.660	633.84	30.0946	0.832	2.765	mg/L
|	Mg	24	14631179.876	51.75	3.7217	0.042	1.131	mg/L
|	K	39	23662675.629	82.11	2.3753	0.039	1.654	mg/L
|	Ca	43	244411.691	0.86	11.9778	0.080	0.665	mg/L
|	Fe	54	146020.105	0.33	0.1358	0.005	3.358	mg/L
|	Fe	57	30382.457	0.08	0.0795	0.001	1.171	mg/L
⌊>	Sc-1	45	282724.650	282724.65				mg/L
	Cl	35	874843.267	849717.07				mg/L
	Kr	83	31.334	-14.00				mg/L
	Br	81	66208.080	57374.84				mg/L
	P	31	98794.735	88300.52				mg/L
	S	34	395602.586	222443.79				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.026			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.641			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		107.717			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.936			
⌈	Na	23					

Sample ID: L1011066724
Report Date/Time: Wednesday, November 24, 2010 19:42:02
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066724
Report Date/Time: Wednesday, November 24, 2010 19:42:02
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066725

Sample Date/Time: Wednesday, November 24, 2010 19:46:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 68
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45922.227	0.05				ug/L
|	Be	9	8.000	-0.00	0.0524	0.005	9.523	ug/L
|	Al	27	124825.542	0.41	17.7076	1.353	7.642	ug/L
⌊>	Sc	45	286789.924	286789.92				ug/L
⌈	Ti	49	416.717	0.00	0.5187	0.144	27.741	ug/L
|	V	51	5920.287	0.01	0.3313	0.016	4.845	ug/L
|	Cr	52	17097.776	0.02	1.0344	0.042	4.102	ug/L
|	Cr	53	2060.419	0.00	1.7338	0.138	7.948	ug/L
|	Mn	55	680685.477	1.65	52.2925	0.674	1.288	ug/L
|	Co	59	4730.167	0.01	0.4030	0.013	3.173	ug/L
|	Ni	60	5126.699	0.01	2.1545	0.016	0.727	ug/L
|	Cu	65	8788.949	0.02	3.5858	0.055	1.524	ug/L
|	Zn	66	12997.907	0.03	8.6961	0.332	3.813	ug/L
|>	Ge	72	412762.427	412762.43				ug/L
|	As	75	235.715	0.00	0.4853	0.034	6.969	ug/L
|	Se	77	110.012	0.00	0.7287	0.138	19.003	ug/L
|	Se	82	70.079	0.00	0.8706	0.076	8.751	ug/L
⌊	Rb	85	9134.261	0.02				mg/L
	Y	89	243640.294	-7153.80				ug/L
	Rh	103	50.001	31.00				ug/L
⌈	Mo	98	1647.380	0.00	0.7485	0.017	2.270	ug/L
|	Ag	107	60.001	-0.00	-0.0647	0.001	1.202	ug/L
|	Cd	114	28.099	0.00	0.0110	0.015	134.757	ug/L
|>	In	115	340693.684	340693.68				ug/L
|	Sn	118	980.315	-0.00	-0.0473	0.004	7.784	ug/L
⌊	Sb	123	664.859	0.00	0.1957	0.006	2.864	ug/L
⌈	Ba	135	28552.657	0.06	15.9341	0.173	1.088	ug/L
|	Ce	140	743.436	0.00				ug/L
⌊>	Tb	159	466342.945	466342.94				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	23.000	-0.00	0.0056	0.001	11.893	ug/L
|	Tl	205	93.343	-0.00	0.0014	0.001	51.361	ug/L
|	Pb	206	3287.573	0.01	0.4923	0.002	0.419	ug/L
|	Pb	207	2774.079	0.01	0.4624	0.007	1.532	ug/L
|	Pb	208	13047.828	0.03	0.4749	0.006	1.205	ug/L
|	U	238	2973.805	0.01	0.0872	0.001	1.457	ug/L
⌊>	Bi	209	408510.826	408510.83				ug/L

Sample ID: L1011066725
Report Date/Time: Wednesday, November 24, 2010 19:48:49
Page 1

Approved: November 29, 2010

⌈	Na	23	173226527.396	604.38	28.6956	1.024	3.569	mg/L
|	Mg	24	13945104.344	48.66	3.4995	0.149	4.248	mg/L
|	K	39	16799769.244	57.00	1.6480	0.031	1.888	mg/L
|	Ca	43	339323.668	1.18	16.3967	0.049	0.296	mg/L
|	Fe	54	168683.715	0.40	0.1647	0.011	6.577	mg/L
|	Fe	57	41403.009	0.12	0.1167	0.004	3.726	mg/L
⌊>	Sc-1	45	286789.924	286789.92				mg/L
	Cl	35	816771.902	791645.71				mg/L
	Kr	83	29.334	-16.00				mg/L
	Br	81	34237.182	25403.95				mg/L
	P	31	68974.582	58480.37				mg/L
	S	34	473481.553	300322.75				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.535			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.681			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.254			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.412			
⌈	Na	23					

Sample ID: L1011066725
Report Date/Time: Wednesday, November 24, 2010 19:48:49
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066726

Sample Date/Time: Wednesday, November 24, 2010 19:53:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 69
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43979.945	0.04				ug/L
|	Be	9	7.333	-0.00	0.0504	0.013	24.966	ug/L
|	Al	27	85010.411	0.27	11.5571	0.655	5.670	ug/L
⌊>	Sc	45	291229.935	291229.94				ug/L
⌈	Ti	49	376.711	0.00	0.4555	0.065	14.298	ug/L
|	V	51	5189.384	0.01	0.2568	0.013	4.972	ug/L
|	Cr	52	14701.947	0.02	0.7455	0.005	0.651	ug/L
|	Cr	53	2020.406	0.00	1.6870	0.043	2.549	ug/L
|	Mn	55	461525.058	1.11	35.3449	0.395	1.117	ug/L
|	Co	59	1646.485	0.00	0.1254	0.005	4.167	ug/L
|	Ni	60	3979.165	0.01	1.6609	0.034	2.062	ug/L
|	Cu	65	12078.747	0.03	4.9396	0.137	2.773	ug/L
|	Zn	66	13613.396	0.03	9.1225	0.141	1.541	ug/L
|>	Ge	72	413901.579	413901.58				ug/L
|	As	75	566.383	0.00	0.8439	0.128	15.199	ug/L
|	Se	77	103.344	0.00	0.6245	0.249	39.847	ug/L
|	Se	82	167.708	0.00	2.0337	0.362	17.801	ug/L
⌊	Rb	85	13374.405	0.03				mg/L
	Y	89	243301.732	-7492.37				ug/L
	Rh	103	46.001	27.00				ug/L
⌈	Mo	98	757.675	0.00	0.3501	0.016	4.669	ug/L
|	Ag	107	49.667	-0.00	-0.0670	0.001	1.971	ug/L
|	Cd	114	29.554	0.00	0.0118	0.003	21.921	ug/L
|>	In	115	346263.606	346263.61				ug/L
|	Sn	118	1087.126	-0.00	-0.0242	0.003	10.845	ug/L
⌊	Sb	123	442.012	0.00	0.1290	0.013	9.746	ug/L
⌈	Ba	135	31061.477	0.07	17.1675	0.192	1.119	ug/L
|	Ce	140	670.092	0.00				ug/L
⌊>	Tb	159	470883.117	470883.12				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	38.000	-0.00	0.0079	0.001	12.696	ug/L
|	Tl	205	70.007	-0.00	-0.0000	0.001	2961.748	ug/L
|	Pb	206	3827.771	0.01	0.5910	0.010	1.709	ug/L
|	Pb	207	3290.241	0.01	0.5660	0.007	1.187	ug/L
|	Pb	208	15458.572	0.03	0.5815	0.011	1.907	ug/L
|	U	238	2474.331	0.01	0.0737	0.002	2.488	ug/L
⌊>	Bi	209	408079.837	408079.84				ug/L

Sample ID: L1011066726
Report Date/Time: Wednesday, November 24, 2010 19:55:37
Page 1

Approved: November 29, 2010

⌈	Na	23	260085977.681	893.07	42.4038	1.023	2.412	mg/L
|	Mg	24	21141032.976	72.59	5.2217	0.053	1.007	mg/L
|	K	39	27476240.808	92.75	2.6833	0.036	1.332	mg/L
|	Ca	43	331787.555	1.14	15.7867	0.161	1.022	mg/L
|	Fe	54	148822.098	0.33	0.1336	0.004	2.669	mg/L
|	Fe	57	37982.548	0.11	0.1026	0.006	5.921	mg/L
⌊>	Sc-1	45	291229.935	291229.94				mg/L
	Cl	35	1256863.786	1231737.59				mg/L
	Kr	83	34.000	-11.33				mg/L
	Br	81	90065.339	81232.10				mg/L
	P	31	94293.426	83799.21				mg/L
	S	34	478426.421	305267.62				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.793			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.392			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.328			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.312			
⌈	Na	23					

Sample ID: L1011066726
Report Date/Time: Wednesday, November 24, 2010 19:55:37
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066726
Report Date/Time: Wednesday, November 24, 2010 19:55:37
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066801 WG349517-02

Sample Date/Time: Wednesday, November 24, 2010 20:00:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 70
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40113.664	0.04				ug/L
|	Be	9	7.333	-0.00	0.0523	0.013	24.425	ug/L
|	Al	27	362322.288	1.35	57.6130	13.862	24.060	ug/L
⌊>	Sc	45	264485.372	264485.37				ug/L
⌈	Ti	49	1140.182	0.00	1.9282	0.550	28.501	ug/L
|	V	51	2174.233	-0.00	-0.0109	0.063	580.286	ug/L
|	Cr	52	15540.558	0.02	1.1274	0.023	2.008	ug/L
|	Cr	53	7993.996	0.02	9.0415	0.457	5.056	ug/L
|	Mn	55	1318856.745	3.68	116.6566	1.883	1.614	ug/L
|	Co	59	1517.797	0.00	0.1348	0.005	3.760	ug/L
|	Ni	60	6657.949	0.02	3.2354	0.022	0.687	ug/L
|	Cu	65	1141.077	0.00	0.4792	0.011	2.287	ug/L
|	Zn	66	4010.844	0.01	2.4787	0.033	1.312	ug/L
|>	Ge	72	358628.639	358628.64				ug/L
|	As	75	11242.299	0.03	14.3596	0.457	3.185	ug/L
|	Se	77	503.396	0.00	7.9167	0.609	7.698	ug/L
|	Se	82	3548.985	0.01	49.0246	1.789	3.650	ug/L
⌊	Rb	85	123871.114	0.35				mg/L
	Y	89	221522.131	-29271.97				ug/L
	Rh	103	728.367	709.37				ug/L
⌈	Mo	98	1163.399	0.00	0.6644	0.043	6.469	ug/L
|	Ag	107	73.334	-0.00	-0.0580	0.003	4.499	ug/L
|	Cd	114	26.124	0.00	0.0151	0.013	88.135	ug/L
|>	In	115	271977.642	271977.64				ug/L
|	Sn	118	3104.882	0.01	0.7051	0.030	4.287	ug/L
⌊	Sb	123	148.075	0.00	0.0567	0.005	7.951	ug/L
⌈	Ba	135	2186981.676	5.42	1412.3687	18.727	1.326	ug/L
|	Ce	140	2703.970	0.01				ug/L
⌊>	Tb	159	403188.133	403188.13				ug/L
⌈	Ho	165	50.005	0.00				ug/L
|	Tl	203	74.334	0.00	0.0164	0.001	6.438	ug/L
|	Tl	205	183.353	0.00	0.0100	0.001	10.269	ug/L
|	Pb	206	665.362	0.00	0.0507	0.004	8.531	ug/L
|	Pb	207	582.023	0.00	0.0582	0.002	3.941	ug/L
|	Pb	208	2650.497	0.00	0.0516	0.002	3.892	ug/L
|	U	238	2661.714	0.01	0.0991	0.002	1.721	ug/L
⌊>	Bi	209	318641.456	318641.46				ug/L

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	59421527.544	224.68	16.1675	0.200	1.235	mg/L
|	K	39	60962609.107	228.90	6.6259	0.035	0.525	mg/L
|	Ca	43	1190716.915	4.50	62.4091	0.335	0.536	mg/L
|	Fe	54	383092.852	1.26	0.5101	0.020	3.943	mg/L
|	Fe	57	175880.748	0.64	0.6406	0.003	0.473	mg/L
⌊>	Sc-1	45	264485.372	264485.37				mg/L
	Cl	35	10502025.133	10476898.94				mg/L
	Kr	83	41.667	-3.67				mg/L
	Br	81	1866573.721	1857740.48				mg/L
	P	31	17630.895	7136.68				mg/L
	S	34	364515.590	191356.79				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		81.267			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		83.567			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.323			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		73.642			
⌈	Na	23					

Sample ID: L1011066801 WG349517-02
Report Date/Time: Wednesday, November 24, 2010 20:02:25
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066802S WG349517-07

Sample Date/Time: Wednesday, November 24, 2010 20:06:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 71
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37386.547	0.03				ug/L
|	Be	9	8309.452	0.03	23.4865	0.580	2.471	ug/L
|	Al	27	354682.187	1.35	57.9001	1.522	2.629	ug/L
⌊>	Sc	45	257883.920	257883.92				ug/L
⌈	Ti	49	840.121	0.00	1.4034	0.390	27.824	ug/L
|	V	51	235548.964	0.66	27.1569	0.046	0.168	ug/L
|	Cr	52	209537.368	0.57	27.8822	0.184	0.661	ug/L
|	Cr	53	32800.326	0.09	38.6699	1.034	2.673	ug/L
|	Mn	55	1998455.947	5.63	178.6721	0.826	0.462	ug/L
|	Co	59	247385.979	0.70	25.8571	0.160	0.617	ug/L
|	Ni	60	57236.238	0.16	28.3512	0.126	0.446	ug/L
|	Cu	65	48581.219	0.14	23.4194	0.239	1.021	ug/L
|	Zn	66	28396.545	0.08	23.5508	0.147	0.623	ug/L
| >	Ge	72	354803.677	354803.68				ug/L
|	As	75	28831.117	0.08	36.8560	0.209	0.566	ug/L
|	Se	77	2077.092	0.01	36.0775	4.648	12.884	ug/L
|	Se	82	4713.687	0.01	65.7989	1.254	1.906	ug/L
⌊	Rb	85	69543.028	0.20				mg/L
	Y	89	218400.932	-32393.17				ug/L
	Rh	103	911.717	892.72				ug/L
⌈	Mo	98	996.904	0.00	0.5811	0.031	5.416	ug/L
|	Ag	107	85287.042	0.32	22.6961	0.290	1.278	ug/L
|	Cd	114	19429.217	0.07	22.2800	0.558	2.503	ug/L
| >	In	115	267739.685	267739.69				ug/L
|	Sn	118	2854.674	0.01	0.6387	0.037	5.848	ug/L
⌊	Sb	123	64661.962	0.24	23.8639	0.295	1.235	ug/L
⌈	Ba	135	2985494.239	7.52	1958.2523	22.041	1.126	ug/L
|	Ce	140	2023.741	0.00				ug/L
⌊>	Tb	159	396985.227	396985.23				ug/L
⌈	Ho	165	50.005	0.00				ug/L
|	Tl	203	134819.424	0.43	26.3925	0.059	0.223	ug/L
|	Tl	205	333827.288	1.07	26.6330	0.515	1.934	ug/L
|	Pb	206	114555.895	0.37	27.1885	0.150	0.551	ug/L
|	Pb	207	100219.021	0.32	26.1468	0.190	0.725	ug/L
|	Pb	208	464418.419	1.49	26.6647	0.149	0.557	ug/L
|	U	238	798591.472	2.57	28.5651	0.234	0.818	ug/L
⌊>	Bi	209	311028.823	311028.82				ug/L

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	71776622.515	278.42	20.0356	0.513	2.559	mg/L
|	K	39	36230470.195	138.95	4.0211	0.103	2.556	mg/L
|	Ca	43	1513796.384	5.87	81.3940	1.155	1.420	mg/L
|	Fe	54	433793.073	1.50	0.6042	0.023	3.808	mg/L
|	Fe	57	209270.585	0.79	0.7879	0.028	3.495	mg/L
⌊>	Sc-1	45	257883.920	257883.92				mg/L
	Cl	35	12724169.080	12699042.88				mg/L
	Kr	83	57.334	12.00				mg/L
	Br	81	1732949.336	1724116.10				mg/L
	P	31	17544.721	7050.51				mg/L
	S	34	322868.817	149710.02				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		80.401			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		82.265			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.856			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		71.883			
⌈	Na	23					

Sample ID: L1011066802S WG349517-07
Report Date/Time: Wednesday, November 24, 2010 20:09:10
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066803SD WG349517-08

Sample Date/Time: Wednesday, November 24, 2010 20:13:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 72
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34057.904	0.03				ug/L
|	Be	9	7512.822	0.03	22.6376	0.280	1.238	ug/L
|	Al	27	288572.624	1.17	50.0963	0.780	1.557	ug/L
|>	Sc	45	241839.743	241839.74				ug/L
⌈	Ti	49	673.424	0.00	1.1578	0.215	18.570	ug/L
|	V	51	218786.391	0.64	26.5127	0.189	0.713	ug/L
|	Cr	52	194254.648	0.56	27.1489	0.103	0.379	ug/L
|	Cr	53	29429.547	0.09	36.4515	1.313	3.603	ug/L
|	Mn	55	1943112.252	5.76	182.6413	1.277	0.699	ug/L
|	Co	59	226642.239	0.67	24.9039	0.140	0.564	ug/L
|	Ni	60	52079.475	0.15	27.1191	0.499	1.841	ug/L
|	Cu	65	45394.596	0.13	23.0041	0.049	0.214	ug/L
|	Zn	66	26318.864	0.08	22.9208	0.382	1.668	ug/L
|>	Ge	72	337498.607	337498.61				ug/L
|	As	75	28485.657	0.08	38.2738	0.212	0.554	ug/L
|	Se	77	1877.032	0.01	34.1759	4.170	12.200	ug/L
|	Se	82	4911.769	0.01	72.0789	0.553	0.767	ug/L
⌊	Rb	85	45827.898	0.14				mg/L
	Y	89	205327.313	-45466.79				ug/L
	Rh	103	816.042	797.04				ug/L
⌈	Mo	98	769.028	0.00	0.4874	0.025	5.208	ug/L
|	Ag	107	78469.132	0.31	22.5408	0.333	1.476	ug/L
|	Cd	114	17780.065	0.07	22.0074	0.354	1.610	ug/L
|>	In	115	248063.965	248063.97				ug/L
|	Sn	118	2602.606	0.01	0.6243	0.056	9.024	ug/L
⌊	Sb	123	60151.230	0.24	23.9622	0.307	1.281	ug/L
⌈	Ba	135	2998757.782	8.27	2153.7301	4.941	0.229	ug/L
|	Ce	140	1570.281	0.00				ug/L
|>	Tb	159	362559.661	362559.66				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	122670.743	0.42	25.5180	0.287	1.126	ug/L
|	Tl	205	300873.150	1.03	25.5026	0.326	1.279	ug/L
|	Pb	206	104354.396	0.36	26.3158	0.435	1.652	ug/L
|	Pb	207	91424.309	0.31	25.3413	0.245	0.965	ug/L
|	Pb	208	425454.424	1.45	25.9544	0.349	1.343	ug/L
|	U	238	733829.888	2.51	27.8933	0.339	1.214	ug/L
|>	Bi	209	292724.432	292724.43				ug/L

Sample ID: L1011066803SD WG349517-08
Report Date/Time: Wednesday, November 24, 2010 20:15:55
Page 1

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	69372620.804	286.85	20.6425	0.030	0.144	mg/L
|	K	39	24551226.710	99.93	2.8912	0.009	0.303	mg/L
|	Ca	43	1461376.943	6.04	83.7667	0.559	0.667	mg/L
|	Fe	54	420966.191	1.56	0.6275	0.011	1.700	mg/L
|	Fe	57	202241.814	0.81	0.8130	0.014	1.692	mg/L
⌊>	Sc-1	45	241839.743	241839.74				mg/L
	Cl	35	12501271.965	12476145.77				mg/L
	Kr	83	59.334	14.00				mg/L
	Br	81	1691419.840	1682586.60				mg/L
	P	31	15178.183	4683.97				mg/L
	S	34	271844.486	98685.69				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		76.479			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		76.219			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		85.717			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		67.652			
⌈	Na	23					

Sample ID: L1011066803SD WG349517-08
Report Date/Time: Wednesday, November 24, 2010 20:15:55
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Sample ID: L1011066803SD WG349517-08
Report Date/Time: Wednesday, November 24, 2010 20:15:55
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066806

Sample Date/Time: Wednesday, November 24, 2010 20:20:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 73
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43377.213	0.03				ug/L
|	Be	9	6.000	-0.00	0.0466	0.013	28.415	ug/L
|	Al	27	203466.297	0.64	27.4403	1.216	4.433	ug/L
⌊>	Sc	45	306977.123	306977.12				ug/L
⌈	Ti	49	886.795	0.00	1.2351	0.158	12.778	ug/L
|	V	51	10334.515	0.02	0.7555	0.025	3.261	ug/L
|	Cr	52	33440.499	0.06	2.9023	0.068	2.352	ug/L
|	Cr	53	2493.894	0.01	2.1335	0.127	5.937	ug/L
|	Mn	55	939483.459	2.24	70.9492	0.546	0.770	ug/L
|	Co	59	15446.412	0.04	1.3430	0.022	1.635	ug/L
|	Ni	60	75634.732	0.18	31.6569	0.139	0.438	ug/L
|	Cu	65	1453.787	0.00	0.5272	0.010	1.890	ug/L
|	Zn	66	4185.584	0.01	2.1065	0.073	3.451	ug/L
|>	Ge	72	419922.511	419922.51				ug/L
|	As	75	1815.270	0.00	2.1759	0.125	5.728	ug/L
|	Se	77	146.682	0.00	1.2514	0.297	23.706	ug/L
|	Se	82	694.040	0.00	8.2096	0.543	6.610	ug/L
⌊	Rb	85	2012.223	0.00				mg/L
	Y	89	251241.956	447.86				ug/L
	Rh	103	73.668	54.67				ug/L
⌈	Mo	98	3136.496	0.01	1.4229	0.025	1.781	ug/L
|	Ag	107	31.000	-0.00	-0.0707	0.002	2.329	ug/L
|	Cd	114	35.050	0.00	0.0176	0.016	88.794	ug/L
|>	In	115	336646.926	336646.93				ug/L
|	Sn	118	2865.744	0.01	0.4492	0.008	1.692	ug/L
⌊	Sb	123	194.955	0.00	0.0601	0.003	5.443	ug/L
⌈	Ba	135	85498.162	0.19	49.2988	0.129	0.261	ug/L
|	Ce	140	1706.991	0.00				ug/L
⌊>	Tb	159	451509.653	451509.65				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	522.686	0.00	0.0834	0.009	11.008	ug/L
|	Tl	205	1116.842	0.00	0.0665	0.010	15.245	ug/L
|	Pb	206	719.366	0.00	0.0319	0.009	27.677	ug/L
|	Pb	207	633.360	0.00	0.0411	0.001	2.050	ug/L
|	Pb	208	2949.870	0.00	0.0373	0.003	7.493	ug/L
|	U	238	87725.011	0.22	2.4953	0.016	0.646	ug/L
⌊>	Bi	209	392000.739	392000.74				ug/L

Sample ID: L1011066806
Report Date/Time: Wednesday, November 24, 2010 20:22:41
Page 1

Approved: November 29, 2010

Na	23	374748015.316	1220.84	57.9677	0.424	0.731	mg/L
Mg	24	158844864.936	517.54	37.2455	0.544	1.462	mg/L
K	39	10386591.781	32.26	0.9317	0.027	2.906	mg/L
Ca	43	623271.444	2.03	28.1557	0.645	2.291	mg/L
Fe	54	126553.110	0.23	0.0940	0.005	4.956	mg/L
Fe	57	45752.369	0.12	0.1215	0.008	6.677	mg/L
> Sc-1	45	306977.123	306977.12				mg/L
Cl	35	737951.767	712825.57				mg/L
Kr	83	37.667	-7.67				mg/L
Br	81	387527.713	378694.48				mg/L
P	31	21149.068	10654.86				mg/L
S	34	606565.666	433406.87				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		95.157			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		103.437			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		106.747			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		90.596			
Na	23					

Sample ID: L1011066806
Report Date/Time: Wednesday, November 24, 2010 20:22:41

Approved: November 29, 2010

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066807

Sample Date/Time: Wednesday, November 24, 2010 20:27:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 74
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45352.666	0.04				ug/L
|	Be	9	4.000	-0.00	0.0417	0.005	11.698	ug/L
|	Al	27	41134.567	0.11	4.8854	0.411	8.418	ug/L
⌊>	Sc	45	302989.732	302989.73				ug/L
⌈	Ti	49	90.009	0.00	-0.0058	0.053	904.160	ug/L
|	V	51	3364.426	0.00	0.0476	0.013	26.443	ug/L
|	Cr	52	13820.351	0.01	0.5094	0.039	7.732	ug/L
|	Cr	53	1400.238	0.00	0.9389	0.044	4.676	ug/L
|	Mn	55	13842.716	0.03	0.9387	0.018	1.963	ug/L
|	Co	59	4650.127	0.01	0.3610	0.004	1.002	ug/L
|	Ni	60	1048.065	0.00	0.3788	0.014	3.686	ug/L
|	Cu	65	685.030	0.00	0.1943	0.005	2.340	ug/L
|	Zn	66	4387.674	0.01	2.0371	0.132	6.474	ug/L
|>	Ge	72	450337.874	450337.87				ug/L
|	As	75	689.740	0.00	0.9186	0.112	12.159	ug/L
|	Se	77	86.676	0.00	0.2618	0.431	164.513	ug/L
|	Se	82	319.398	0.00	3.5420	0.406	11.462	ug/L
⌊	Rb	85	139.669	0.00				mg/L
	Y	89	269907.588	19113.49				ug/L
	Rh	103	7.333	-11.67				ug/L
⌈	Mo	98	94.307	0.00	0.0590	0.003	4.542	ug/L
|	Ag	107	34.000	-0.00	-0.0707	0.001	1.956	ug/L
|	Cd	114	25.605	0.00	0.0068	0.003	51.195	ug/L
|>	In	115	371239.059	371239.06				ug/L
|	Sn	118	2105.022	0.00	0.1987	0.027	13.373	ug/L
⌊	Sb	123	80.038	-0.00	0.0242	0.001	3.469	ug/L
⌈	Ba	135	453.015	0.00	0.2329	0.010	4.357	ug/L
|	Ce	140	203.356	0.00				ug/L
⌊>	Tb	159	485903.587	485903.59				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	229.005	0.00	0.0332	0.005	13.663	ug/L
|	Tl	205	536.735	0.00	0.0253	0.001	5.082	ug/L
|	Pb	206	619.359	-0.00	-0.0022	0.002	94.077	ug/L
|	Pb	207	526.019	0.00	0.0045	0.003	71.936	ug/L
|	Pb	208	2486.481	-0.00	0.0014	0.002	156.552	ug/L
|	U	238	73.001	0.00	0.0080	0.000	1.208	ug/L
⌊>	Bi	209	450635.393	450635.39				ug/L

Sample ID: L1011066807
Report Date/Time: Wednesday, November 24, 2010 20:29:27
Page 1

Approved: November 29, 2010

⌈	Na	23	736575.281	2.38	0.1108	0.001	0.737	mg/L
|	Mg	24	185676.855	0.61	0.0411	0.000	0.501	mg/L
|	K	39	693600.630	0.70	0.0176	0.001	3.741	mg/L
|	Ca	43	2433.874	0.01	0.1028	0.007	6.485	mg/L
|	Fe	54	107378.359	0.17	0.0707	0.003	4.726	mg/L
|	Fe	57	10403.116	0.01	0.0060	0.001	18.615	mg/L
⌊>	Sc-1	45	302989.732	302989.73				mg/L
	Cl	35	123404.130	98277.93				mg/L
	Kr	83	32.000	-13.33				mg/L
	Br	81	181586.548	172753.31				mg/L
	P	31	25554.240	15060.03				mg/L
	S	34	226060.045	52901.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.049			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		114.066			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		114.879			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.148			
⌈	Na	23					

Sample ID: L1011066807
Report Date/Time: Wednesday, November 24, 2010 20:29:27
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 20:34:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	47914.924	0.05				ug/L
|	Be	9	22700.405	0.08	55.8785	2.728	4.882	ug/L
|	Al	27	378099.963	1.26	53.7380	2.930	5.453	ug/L
⌊>	Sc	45	296158.580	296158.58				ug/L
⌈	Ti	49	68906.836	0.15	98.3746	0.524	0.532	ug/L
|	V	51	549418.879	1.20	49.7105	0.628	1.263	ug/L
|	Cr	52	474759.928	1.03	50.1287	0.245	0.488	ug/L
|	Cr	53	56726.128	0.12	52.3808	0.298	0.569	ug/L
|	Mn	55	750540.016	1.65	52.4046	0.896	1.710	ug/L
|	Co	59	625540.420	1.38	51.1126	0.504	0.987	ug/L
|	Ni	60	132976.312	0.29	51.4965	0.289	0.561	ug/L
|	Cu	65	133619.449	0.29	50.4164	0.729	1.447	ug/L
|	Zn	66	75871.521	0.16	50.1976	0.502	0.999	ug/L
⌊>	Ge	72	454051.098	454051.10				ug/L
|	As	75	50208.357	0.11	50.0745	0.471	0.940	ug/L
|	Se	77	3767.754	0.01	51.4969	2.286	4.439	ug/L
|	Se	82	4969.596	0.01	54.2286	1.396	2.575	ug/L
⌊	Rb	85	1925.205	0.00				mg/L
	Y	89	262783.969	11989.87				ug/L
	Rh	103	25.334	6.33				ug/L
⌈	Mo	98	222651.496	0.61	91.2792	1.850	2.026	ug/L
|	Ag	107	254637.457	0.69	49.5031	0.557	1.126	ug/L
|	Cd	114	57777.018	0.16	48.3281	1.101	2.278	ug/L
⌊>	In	115	367198.289	367198.29				ug/L
|	Sn	118	198866.478	0.54	47.4230	0.793	1.673	ug/L
⌊	Sb	123	171110.110	0.47	46.0460	0.791	1.719	ug/L
⌈	Ba	135	84796.877	0.17	45.2732	0.290	0.640	ug/L
|	Ce	140	83.342	0.00				ug/L
⌊>	Tb	159	487600.001	487600.00				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	368100.341	0.81	49.0588	0.457	0.931	ug/L
|	Tl	205	917564.014	2.01	49.8388	0.064	0.127	ug/L
|	Pb	206	300930.528	0.66	48.7076	0.583	1.197	ug/L
|	Pb	207	279712.295	0.61	49.7646	0.537	1.078	ug/L
|	Pb	208	1250532.130	2.73	48.9636	0.400	0.816	ug/L
|	U	238	1964342.091	4.30	47.8332	0.461	0.963	ug/L
⌊>	Bi	209	456835.382	456835.38				ug/L

Approved: November 29, 2010

Na	23	32522009.612	109.86	5.2140	0.182	3.499	mg/L	
Mg	24	21050656.972	71.12	5.1159	0.133	2.593	mg/L	
K	39	51036452.889	170.83	4.9442	0.118	2.378	mg/L	
Ca	43	109706.963	0.37	5.1272	0.139	2.716	mg/L	
Fe	54	3797724.101	12.64	5.0798	0.058	1.133	mg/L	
Fe	57	1532611.309	5.15	5.1810	0.081	1.569	mg/L	
Sc-1	45	296158.580	296158.58				mg/L	
Cl	35	39165.884	14039.69				mg/L	
Kr	83	43.334	-2.00				mg/L	
Br	81	108511.623	99678.39				mg/L	
P	31	16354.079	5859.87				mg/L	
S	34	232662.136	59503.34				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	99.421				
Cr	52	100.257				
Cr	53					
Mn	55	104.809				
Co	59	102.225				
Ni	60	102.993				
Cu	65	100.833				
Zn	66	100.395				
Ge	72		102.891			
As	75	100.149				
Se	77					
Se	82	108.457				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.006				
Cd	114	96.656				
In	115		112.824			
Sn	118					
Sb	123	92.092				
Ba	135	90.546				
Ce	140					
Tb	159		115.280			
Ho	165					
Tl	203	98.118				
Tl	205					
Pb	206					
Pb	207					
Pb	208	97.927				
U	238	95.666				
Bi	209		105.581			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 20:36:13
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 20:36:13

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 20:40:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44030.260	0.03				ug/L
|	Be	9	4.000	-0.00	0.0415	0.005	11.240	ug/L
|	Al	27	6919.069	0.00	0.0333	0.085	255.226	ug/L
⌊>	Sc	45	308641.068	308641.07				ug/L
⌈	Ti	49	46.671	0.00	-0.0683	0.042	60.824	ug/L
|	V	51	2662.474	-0.00	-0.0161	0.003	18.887	ug/L
|	Cr	52	9330.779	0.00	0.0246	0.020	80.746	ug/L
|	Cr	53	826.784	0.00	0.4034	0.102	25.222	ug/L
|	Mn	55	334.009	-0.00	-0.0129	0.001	11.581	ug/L
|	Co	59	206.004	-0.00	-0.0052	0.002	38.987	ug/L
|	Ni	60	27.667	-0.00	-0.0198	0.003	13.164	ug/L
|	Cu	65	113.335	-0.00	-0.0233	0.006	24.208	ug/L
|	Zn	66	930.386	-0.00	-0.3103	0.023	7.486	ug/L
|>	Ge	72	449142.322	449142.32				ug/L
|	As	75	195.096	0.00	0.4237	0.057	13.527	ug/L
|	Se	77	56.672	-0.00	-0.1580	0.080	50.752	ug/L
|	Se	82	145.093	0.00	1.6289	0.084	5.150	ug/L
⌊	Rb	85	15.333	0.00				mg/L
	Y	89	261963.326	11169.23				ug/L
	Rh	103	7.333	-11.67				ug/L
⌈	Mo	98	98.755	0.00	0.0616	0.007	11.984	ug/L
|	Ag	107	25.000	-0.00	-0.0724	0.001	1.716	ug/L
|	Cd	114	19.175	0.00	0.0018	0.003	165.772	ug/L
|>	In	115	363939.562	363939.56				ug/L
|	Sn	118	1305.419	0.00	0.0152	0.009	59.118	ug/L
⌊	Sb	123	253.334	0.00	0.0717	0.006	7.919	ug/L
⌈	Ba	135	18.334	-0.00	-0.0002	0.001	709.076	ug/L
|	Ce	140	43.338	-0.00				ug/L
⌊>	Tb	159	486426.704	486426.70				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	80.001	0.00	0.0129	0.001	6.839	ug/L
|	Tl	205	170.018	0.00	0.0050	0.000	1.541	ug/L
|	Pb	206	510.685	-0.00	-0.0213	0.003	12.731	ug/L
|	Pb	207	394.012	-0.00	-0.0203	0.004	18.654	ug/L
|	Pb	208	1918.091	-0.00	-0.0223	0.001	4.336	ug/L
|	U	238	97.001	0.00	0.0086	0.000	4.867	ug/L
⌊>	Bi	209	457047.520	457047.52				ug/L

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 20:42:56
Page 1

Approved: November 29, 2010

⌈	Na	23	60015.556	0.15	0.0046	0.000	3.975	mg/L
|	Mg	24	783.443	0.00	-0.0028	0.000	0.761	mg/L
|	K	39	438898.084	-0.17	-0.0075	0.000	3.733	mg/L
|	Ca	43	156.684	-0.00	-0.0015	0.001	90.638	mg/L
|	Fe	54	55946.527	-0.00	0.0011	0.002	167.440	mg/L
|	Fe	57	8554.515	0.00	-0.0007	0.001	84.198	mg/L
⌊>	Sc-1	45	308641.068	308641.07				mg/L
	Cl	35	34547.578	9421.38				mg/L
	Kr	83	28.000	-17.33				mg/L
	Br	81	83837.981	75004.75				mg/L
	P	31	14496.514	4002.30				mg/L
	S	34	220117.784	46958.98				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.778			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.823			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		115.002			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.630			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 20:42:56
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 7	As	75	CCB IS OUT OF LIMITS (+/-1/2RL)
QC Std 7	Se	82	CCB IS OUT OF LIMITS (+/-1/2RL)

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066809

Sample Date/Time: Wednesday, November 24, 2010 20:47:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 75
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44817.122	0.04				ug/L
|	Be	9	6.000	-0.00	0.0475	0.010	22.102	ug/L
|	Al	27	70027.900	0.22	9.5281	0.253	2.658	ug/L
⌊>	Sc	45	286429.293	286429.29				ug/L
⌈	Ti	49	1180.188	0.00	1.7710	0.202	11.430	ug/L
|	V	51	8766.648	0.02	0.6400	0.007	1.061	ug/L
|	Cr	52	28208.683	0.05	2.4408	0.048	1.984	ug/L
|	Cr	53	2623.942	0.01	2.3829	0.260	10.927	ug/L
|	Mn	55	733071.104	1.82	57.8413	0.421	0.727	ug/L
|	Co	59	6370.760	0.02	0.5661	0.011	1.950	ug/L
|	Ni	60	15166.981	0.04	6.6092	0.117	1.770	ug/L
|	Cu	65	1192.750	0.00	0.4425	0.024	5.316	ug/L
|	Zn	66	3108.181	0.00	1.4229	0.041	2.862	ug/L
|>	Ge	72	401864.325	401864.32				ug/L
|	As	75	1322.512	0.00	1.7110	0.212	12.400	ug/L
|	Se	77	170.019	0.00	1.7193	0.722	41.984	ug/L
|	Se	82	514.003	0.00	6.3610	0.622	9.780	ug/L
⌊	Rb	85	2667.049	0.01				mg/L
	Y	89	237136.140	-13657.96				ug/L
	Rh	103	112.335	93.33				ug/L
⌈	Mo	98	405.359	0.00	0.2137	0.011	5.241	ug/L
|	Ag	107	34.000	-0.00	-0.0696	0.001	1.029	ug/L
|	Cd	114	33.517	0.00	0.0183	0.013	69.186	ug/L
|>	In	115	315946.821	315946.82				ug/L
|	Sn	118	1698.944	0.00	0.1731	0.021	12.013	ug/L
⌊	Sb	123	191.374	0.00	0.0627	0.004	6.059	ug/L
⌈	Ba	135	26468.596	0.06	15.7815	0.097	0.617	ug/L
|	Ce	140	560.072	0.00				ug/L
⌊>	Tb	159	436427.042	436427.04				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	98.001	0.00	0.0190	0.003	13.743	ug/L
|	Tl	205	246.695	0.00	0.0129	0.006	43.892	ug/L
|	Pb	206	529.019	0.00	0.0060	0.002	26.116	ug/L
|	Pb	207	434.680	0.00	0.0089	0.002	26.165	ug/L
|	Pb	208	2099.442	0.00	0.0082	0.002	24.967	ug/L
|	U	238	149933.222	0.42	4.6904	0.030	0.641	ug/L
⌊>	Bi	209	356013.725	356013.73				ug/L

Sample ID: L1011066809
Report Date/Time: Wednesday, November 24, 2010 20:49:42
Page 1

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	152889781.461	534.04	38.4329	1.107	2.880	mg/L
|	K	39	8031981.448	26.46	0.7637	0.019	2.507	mg/L
|	Ca	43	1290372.308	4.51	62.4705	1.077	1.724	mg/L
|	Fe	54	107073.378	0.19	0.0785	0.005	6.879	mg/L
|	Fe	57	69458.582	0.22	0.2152	0.017	8.007	mg/L
⌊>	Sc-1	45	286429.293	286429.29				mg/L
	Cl	35	1943475.017	1918348.82				mg/L
	Kr	83	40.334	-5.00				mg/L
	Br	81	279842.670	271009.43				mg/L
	P	31	32955.750	22461.54				mg/L
	S	34	1507157.791	1333998.99				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.065			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.077			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.181			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		82.279			
⌈	Na	23					

Sample ID: L1011066809
Report Date/Time: Wednesday, November 24, 2010 20:49:42
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011066811

Sample Date/Time: Wednesday, November 24, 2010 20:54:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 76
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	46474.497	0.05				ug/L
|	Be	9	8.667	-0.00	0.0537	0.012	22.147	ug/L
|	Al	27	57665.806	0.18	7.6130	0.484	6.355	ug/L
⌊>	Sc	45	289262.538	289262.54				ug/L
⌈	Ti	49	656.754	0.00	0.9356	0.135	14.403	ug/L
|	V	51	3570.394	0.00	0.1097	0.010	8.893	ug/L
|	Cr	52	17053.700	0.02	1.1045	0.015	1.335	ug/L
|	Cr	53	3694.388	0.01	3.5471	0.319	9.006	ug/L
|	Mn	55	1820376.865	4.57	145.1321	1.248	0.860	ug/L
|	Co	59	29407.148	0.07	2.7211	0.049	1.813	ug/L
|	Ni	60	166514.995	0.42	73.6006	0.553	0.752	ug/L
|	Cu	65	1258.092	0.00	0.4758	0.015	3.064	ug/L
|	Zn	66	2863.772	0.00	1.2585	0.036	2.862	ug/L
|>	Ge	72	397861.959	397861.96				ug/L
|	As	75	8881.333	0.02	10.2904	0.274	2.658	ug/L
|	Se	77	193.355	0.00	2.1191	0.966	45.597	ug/L
|	Se	82	3266.229	0.01	40.6743	1.077	2.648	ug/L
⌊	Rb	85	23691.936	0.06				mg/L
	Y	89	230055.649	-20738.45				ug/L
	Rh	103	250.672	231.67				ug/L
⌈	Mo	98	10195.645	0.03	4.8459	0.082	1.687	ug/L
|	Ag	107	43.001	-0.00	-0.0676	0.000	0.331	ug/L
|	Cd	114	37.188	0.00	0.0215	0.007	32.988	ug/L
|>	In	115	317973.150	317973.15				ug/L
|	Sn	118	1903.515	0.00	0.2266	0.024	10.658	ug/L
⌊	Sb	123	242.376	0.00	0.0782	0.007	9.303	ug/L
⌈	Ba	135	46333.557	0.10	27.0253	0.545	2.017	ug/L
|	Ce	140	493.395	0.00				ug/L
⌊>	Tb	159	446364.915	446364.91				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	123.335	0.00	0.0230	0.003	11.113	ug/L
|	Tl	205	240.027	0.00	0.0122	0.006	50.272	ug/L
|	Pb	206	523.352	0.00	0.0033	0.004	130.872	ug/L
|	Pb	207	464.015	0.00	0.0142	0.008	54.195	ug/L
|	Pb	208	2147.447	0.00	0.0091	0.002	18.774	ug/L
|	U	238	14415.862	0.04	0.4503	0.003	0.753	ug/L
⌊>	Bi	209	361073.073	361073.07				ug/L

Sample ID: L1011066811
Report Date/Time: Wednesday, November 24, 2010 20:56:29
Page 1

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	34170471.978	118.27	8.5094	0.355	4.170	mg/L
|	K	39	13796856.833	46.15	1.3340	0.054	4.062	mg/L
|	Ca	43	634486.394	2.20	30.4462	1.501	4.931	mg/L
|	Fe	54	160930.329	0.37	0.1521	0.011	7.392	mg/L
|	Fe	57	59673.561	0.18	0.1793	0.011	6.197	mg/L
⌊>	Sc-1	45	289262.538	289262.54				mg/L
	Cl	35	3099971.104	3074844.91				mg/L
	Kr	83	40.334	-5.00				mg/L
	Br	81	1772717.559	1763884.32				mg/L
	P	31	21497.112	11002.90				mg/L
	S	34	868654.566	695495.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.158			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.700			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.531			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		83.449			
⌈	Na	23					

Sample ID: L1011066811
Report Date/Time: Wednesday, November 24, 2010 20:56:29
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011068308

Sample Date/Time: Wednesday, November 24, 2010 21:01:04
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 77
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	48249.542	0.05				ug/L
|	Be	9	4.667	-0.00	0.0431	0.007	15.898	ug/L
|	Al	27	21122.307	0.05	2.0354	0.089	4.388	ug/L
⌊>	Sc	45	305123.674	305123.67				ug/L
⌈	Ti	49	53.339	0.00	-0.0574	0.023	39.798	ug/L
|	V	51	3008.152	0.00	0.0198	0.004	21.427	ug/L
|	Cr	52	12230.265	0.01	0.3599	0.025	6.916	ug/L
|	Cr	53	970.145	0.00	0.5522	0.171	30.901	ug/L
|	Mn	55	5210.745	0.01	0.3370	0.014	4.278	ug/L
|	Co	59	286.007	0.00	0.0017	0.001	86.576	ug/L
|	Ni	60	1804.181	0.00	0.6866	0.013	1.839	ug/L
|	Cu	65	3662.040	0.01	1.3526	0.017	1.252	ug/L
|	Zn	66	7874.178	0.01	4.5009	0.061	1.344	ug/L
|>	Ge	72	442588.173	442588.17				ug/L
|	As	75	632.090	0.00	0.8719	0.063	7.254	ug/L
|	Se	77	96.677	0.00	0.4246	0.457	107.658	ug/L
|	Se	82	303.701	0.00	3.4274	0.170	4.965	ug/L
⌊	Rb	85	63.334	0.00				mg/L
	Y	89	259596.160	8802.06				ug/L
	Rh	103	6.667	-12.33				ug/L
⌈	Mo	98	74.197	0.00	0.0508	0.002	3.674	ug/L
|	Ag	107	20.334	-0.00	-0.0734	0.001	0.773	ug/L
|	Cd	114	28.890	0.00	0.0095	0.001	15.342	ug/L
|>	In	115	371460.968	371460.97				ug/L
|	Sn	118	1046.455	-0.00	-0.0525	0.010	19.228	ug/L
⌊	Sb	123	60.539	-0.00	0.0190	0.003	16.344	ug/L
⌈	Ba	135	153.003	0.00	0.0715	0.007	9.969	ug/L
|	Ce	140	150.016	0.00				ug/L
⌊>	Tb	159	488464.723	488464.72				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	54.667	-0.00	0.0097	0.001	10.536	ug/L
|	Tl	205	140.015	-0.00	0.0036	0.001	16.707	ug/L
|	Pb	206	503.684	-0.00	-0.0198	0.004	18.849	ug/L
|	Pb	207	417.013	-0.00	-0.0137	0.003	23.098	ug/L
|	Pb	208	1991.432	-0.00	-0.0169	0.001	6.231	ug/L
|	U	238	33.334	-0.00	0.0070	0.000	1.856	ug/L
⌊>	Bi	209	442502.169	442502.17				ug/L

Sample ID: L1011068308
Report Date/Time: Wednesday, November 24, 2010 21:03:16
Page 1

Approved: November 29, 2010

⌈	Na	23	342107.678	1.07	0.0487	0.004	7.861	mg/L
|	Mg	24	51393.562	0.17	0.0091	0.001	7.302	mg/L
|	K	39	508845.131	0.08	-0.0003	0.002	662.150	mg/L
|	Ca	43	1000.150	0.00	0.0369	0.002	5.008	mg/L
|	Fe	54	108953.347	0.17	0.0718	0.002	3.436	mg/L
|	Fe	57	9835.819	0.01	0.0039	0.002	42.773	mg/L
⌊>	Sc-1	45	305123.674	305123.67				mg/L
	Cl	35	71759.891	46633.70				mg/L
	Kr	83	35.334	-10.00				mg/L
	Br	81	178158.614	169325.38				mg/L
	P	31	23237.770	12743.56				mg/L
	S	34	220738.044	47579.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.293			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		114.134			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		115.484			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.268			
⌈	Na	23					

Sample ID: L1011068308
Report Date/Time: Wednesday, November 24, 2010 21:03:16
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 21:07:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44348.128	0.03				ug/L
|	Be	9	22709.760	0.07	54.2318	1.619	2.986	ug/L
|	Al	27	366271.287	1.18	50.4715	2.718	5.386	ug/L
⌊>	Sc	45	305175.169	305175.17				ug/L
⌈	Ti	49	69054.518	0.15	97.6472	1.331	1.364	ug/L
|	V	51	559871.837	1.21	50.1764	0.261	0.521	ug/L
|	Cr	52	478346.673	1.02	50.0210	0.240	0.480	ug/L
|	Cr	53	55173.982	0.12	50.4564	1.233	2.444	ug/L
|	Mn	55	752646.735	1.64	52.0604	0.879	1.689	ug/L
|	Co	59	635592.338	1.39	51.4392	0.388	0.754	ug/L
|	Ni	60	134010.354	0.29	51.4006	0.645	1.256	ug/L
|	Cu	65	133450.863	0.29	49.8616	0.842	1.690	ug/L
|	Zn	66	76864.399	0.16	50.3690	0.166	0.330	ug/L
|>	Ge	72	458442.701	458442.70				ug/L
|	As	75	49844.550	0.11	49.2399	0.439	0.891	ug/L
|	Se	77	4081.242	0.01	55.3241	1.762	3.184	ug/L
|	Se	82	4876.251	0.01	52.6904	1.292	2.451	ug/L
⌊	Rb	85	1912.535	0.00				mg/L
	Y	89	258679.108	7885.01				ug/L
	Rh	103	25.334	6.33				ug/L
⌈	Mo	98	220696.931	0.61	91.3924	1.309	1.432	ug/L
|	Ag	107	250692.013	0.69	49.2255	0.176	0.357	ug/L
|	Cd	114	57837.840	0.16	48.8638	1.027	2.101	ug/L
|>	In	115	363505.986	363505.99				ug/L
|	Sn	118	198968.629	0.54	47.9294	0.661	1.379	ug/L
⌊	Sb	123	172080.497	0.47	46.7738	0.490	1.047	ug/L
⌈	Ba	135	85354.965	0.18	46.0393	0.760	1.651	ug/L
|	Ce	140	70.007	0.00				ug/L
⌊>	Tb	159	482660.075	482660.08				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	367454.289	0.81	49.6161	0.678	1.366	ug/L
|	Tl	205	898488.148	1.99	49.4491	1.089	2.201	ug/L
|	Pb	206	295471.268	0.65	48.4586	1.050	2.167	ug/L
|	Pb	207	276474.064	0.61	49.8337	0.391	0.785	ug/L
|	Pb	208	1239243.791	2.74	49.1624	0.702	1.428	ug/L
|	U	238	1966785.057	4.36	48.5231	0.534	1.101	ug/L
⌊>	Bi	209	450956.871	450956.87				ug/L

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 21:10:01
Page 1

Approved: November 29, 2010

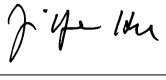
Na	23	32402723.327	106.18	5.0396	0.105	2.075	mg/L
Mg	24	21053437.772	69.05	4.9667	0.163	3.276	mg/L
K	39	51017240.974	165.72	4.7963	0.156	3.258	mg/L
Ca	43	112082.436	0.37	5.0894	0.206	4.044	mg/L
Fe	54	3770543.786	12.18	4.8957	0.209	4.268	mg/L
Fe	57	1573753.259	5.14	5.1686	0.274	5.296	mg/L
Sc-1	45	305175.169	305175.17				mg/L
Cl	35	38285.149	13158.95				mg/L
Kr	83	39.000	-6.33				mg/L
Br	81	102552.623	93719.39				mg/L
P	31	13925.698	3431.49				mg/L
S	34	219010.627	45851.83				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	100.353				
Cr	52	100.042				
Cr	53					
Mn	55	104.121				
Co	59	102.878				
Ni	60	102.801				
Cu	65	99.723				
Zn	66	100.738				
Ge	72		103.886			
As	75	98.480				
Se	77					
Se	82	105.381				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.451				
Cd	114	97.728				
In	115		111.690			
Sn	118					
Sb	123	93.548				
Ba	135	92.079				
Ce	140					
Tb	159		114.112			
Ho	165					
Tl	203	99.232				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.325				
U	238	97.046				
Bi	209		104.222			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 21:10:01

Approved: November 29, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 21:10:01

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 21:14:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	46340.644	0.04				ug/L
|	Be	9	6.000	-0.00	0.0465	0.005	10.528	ug/L
|	Al	27	6268.642	-0.00	-0.0419	0.071	169.031	ug/L
⌊>	Sc	45	303006.219	303006.22				ug/L
⌈	Ti	49	83.342	0.00	-0.0177	0.029	162.765	ug/L
|	V	51	2755.379	-0.00	-0.0126	0.018	142.067	ug/L
|	Cr	52	9462.904	0.00	0.0187	0.006	32.652	ug/L
|	Cr	53	600.078	0.00	0.1797	0.085	47.149	ug/L
|	Mn	55	328.342	-0.00	-0.0138	0.001	7.813	ug/L
|	Co	59	202.004	-0.00	-0.0059	0.001	14.752	ug/L
|	Ni	60	25.000	-0.00	-0.0211	0.002	10.911	ug/L
|	Cu	65	110.668	-0.00	-0.0251	0.002	9.034	ug/L
|	Zn	66	808.707	-0.00	-0.4039	0.024	5.938	ug/L
|>	Ge	72	458138.476	458138.48				ug/L
|	As	75	207.649	0.00	0.4318	0.065	15.044	ug/L
|	Se	77	83.342	0.00	0.1924	0.305	158.631	ug/L
|	Se	82	146.067	0.00	1.6073	0.105	6.517	ug/L
⌊	Rb	85	13.667	0.00				mg/L
	Y	89	264728.649	13934.55				ug/L
	Rh	103	7.000	-12.00				ug/L
⌈	Mo	98	107.307	0.00	0.0646	0.002	2.330	ug/L
|	Ag	107	30.667	-0.00	-0.0713	0.001	0.772	ug/L
|	Cd	114	18.803	0.00	0.0013	0.010	785.778	ug/L
|>	In	115	368785.244	368785.24				ug/L
|	Sn	118	1018.719	-0.00	-0.0574	0.014	24.447	ug/L
⌊	Sb	123	259.169	0.00	0.0723	0.006	8.969	ug/L
⌈	Ba	135	19.667	-0.00	0.0003	0.004	1128.410	ug/L
|	Ce	140	40.004	-0.00				ug/L
⌊>	Tb	159	494512.126	494512.13				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	52.001	-0.00	0.0090	0.001	13.581	ug/L
|	Tl	205	106.678	-0.00	0.0014	0.001	75.609	ug/L
|	Pb	206	474.683	-0.00	-0.0281	0.003	9.244	ug/L
|	Pb	207	418.680	-0.00	-0.0169	0.003	15.577	ug/L
|	Pb	208	1914.425	-0.00	-0.0234	0.002	8.913	ug/L
|	U	238	82.668	0.00	0.0082	0.000	4.032	ug/L
⌊>	Bi	209	463171.320	463171.32				ug/L

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 21:16:45
Page 1

Approved: November 29, 2010

Na	23	47597.779	0.11	0.0028	0.000	5.374	mg/L
Mg	24	1006.818	0.00	-0.0028	0.000	0.572	mg/L
K	39	446086.865	-0.12	-0.0060	0.001	15.521	mg/L
Ca	43	196.688	0.00	0.0005	0.001	239.089	mg/L
Fe	54	56790.926	0.00	0.0036	0.002	57.689	mg/L
Fe	57	8574.539	0.00	-0.0001	0.001	1031.505	mg/L
> Sc-1	45	303006.219	303006.22				mg/L
Cl	35	34067.934	8941.74				mg/L
Kr	83	31.000	-14.33				mg/L
Br	81	76640.618	67807.38				mg/L
P	31	14957.897	4463.69				mg/L
S	34	224530.461	51371.66				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		103.817			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		113.312			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		116.914			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		107.045			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 21:16:45

Approved: November 29, 2010

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 7	As	75	CCB IS OUT OF LIMITS (+/-1/2RL)
QC Std 7	Se	82	CCB IS OUT OF LIMITS (+/-1/2RL)

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: PBW A1 WG349668-03

Sample Date/Time: Wednesday, November 24, 2010 21:21:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 78
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45001.201	0.03				ug/L
|	Be	9	5.333	-0.00	0.0445	0.003	5.782	ug/L
|	Al	27	7202.593	0.00	0.0575	0.017	28.892	ug/L
⌊>	Sc	45	313213.415	313213.42				ug/L
⌈	Ti	49	30.003	-0.00	-0.0936	0.028	29.742	ug/L
|	V	51	2884.765	-0.00	-0.0028	0.002	71.541	ug/L
|	Cr	52	9405.182	0.00	0.0049	0.005	97.101	ug/L
|	Cr	53	550.071	0.00	0.1286	0.163	126.985	ug/L
|	Mn	55	536.353	0.00	0.0003	0.001	237.514	ug/L
|	Co	59	191.670	-0.00	-0.0069	0.003	42.558	ug/L
|	Ni	60	184.337	0.00	0.0396	0.004	9.707	ug/L
|	Cu	65	152.336	0.00	-0.0100	0.004	38.666	ug/L
|	Zn	66	2563.354	0.00	0.7548	0.019	2.579	ug/L
|>	Ge	72	461693.859	461693.86				ug/L
|	As	75	81.902	0.00	0.3081	0.058	18.862	ug/L
|	Se	77	86.676	0.00	0.2306	0.340	147.366	ug/L
|	Se	82	112.025	0.00	1.2308	0.120	9.723	ug/L
⌊	Rb	85	23.000	0.00				mg/L
	Y	89	267733.548	16939.45				ug/L
	Rh	103	4.000	-15.00				ug/L
⌈	Mo	98	90.307	0.00	0.0575	0.004	7.682	ug/L
|	Ag	107	18.667	-0.00	-0.0737	0.001	1.422	ug/L
|	Cd	114	16.392	0.00	-0.0008	0.005	638.997	ug/L
|>	In	115	370529.403	370529.40				ug/L
|	Sn	118	922.843	-0.00	-0.0814	0.003	3.431	ug/L
⌊	Sb	123	90.747	-0.00	0.0271	0.001	2.958	ug/L
⌈	Ba	135	26.667	-0.00	0.0040	0.005	136.985	ug/L
|	Ce	140	50.005	-0.00				ug/L
⌊>	Tb	159	493865.702	493865.70				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	34.667	-0.00	0.0067	0.000	4.485	ug/L
|	Tl	205	110.012	-0.00	0.0016	0.002	113.685	ug/L
|	Pb	206	468.016	-0.00	-0.0296	0.004	12.150	ug/L
|	Pb	207	405.346	-0.00	-0.0195	0.004	19.274	ug/L
|	Pb	208	1895.757	-0.00	-0.0245	0.001	5.458	ug/L
|	U	238	27.667	-0.00	0.0069	0.000	3.452	ug/L
⌊>	Bi	209	465258.426	465258.43				ug/L

Sample ID: PBW A1 WG349668-03
Report Date/Time: Wednesday, November 24, 2010 21:23:32
Page 1

Approved: November 29, 2010

⌈	Na	23	57517.365	0.14	0.0041	0.000	3.273	mg/L
|	Mg	24	1480.258	0.00	-0.0027	0.000	1.401	mg/L
|	K	39	461529.056	-0.12	-0.0060	0.001	15.123	mg/L
|	Ca	43	256.696	0.00	0.0029	0.001	46.573	mg/L
|	Fe	54	58214.306	0.00	0.0030	0.002	79.877	mg/L
|	Fe	57	8557.853	0.00	-0.0011	0.001	83.910	mg/L
⌊>	Sc-1	45	313213.415	313213.42				mg/L
	Cl	35	33724.108	8597.91				mg/L
	Kr	83	35.667	-9.67				mg/L
	Br	81	65482.365	56649.13				mg/L
	P	31	15198.276	4704.06				mg/L
	S	34	224754.335	51595.53				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.623			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		113.848			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		116.761			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		107.527			
⌈	Na	23					

Sample ID: PBW A1 WG349668-03
Report Date/Time: Wednesday, November 24, 2010 21:23:32
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW A1 WG349668-03
Report Date/Time: Wednesday, November 24, 2010 21:23:32
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: LCSW A1 WG349668-04

Sample Date/Time: Wednesday, November 24, 2010 21:28:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 79
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43695.284	0.03				ug/L
|	Be	9	11513.961	0.04	27.8762	0.641	2.298	ug/L
|	Al	27	191059.280	0.61	26.2255	1.006	3.838	ug/L
⌊>	Sc	45	300927.518	300927.52				ug/L
⌈	Ti	49	90.009	0.00	-0.0099	0.024	238.135	ug/L
|	V	51	284930.917	0.61	25.0997	0.317	1.265	ug/L
|	Cr	52	254819.781	0.53	25.8586	0.348	1.345	ug/L
|	Cr	53	29131.995	0.06	26.1353	0.916	3.506	ug/L
|	Mn	55	394339.764	0.85	26.9301	0.316	1.172	ug/L
|	Co	59	326156.652	0.70	26.0685	0.093	0.355	ug/L
|	Ni	60	71327.190	0.15	27.0149	0.057	0.210	ug/L
|	Cu	65	71032.436	0.15	26.1923	0.024	0.092	ug/L
|	Zn	66	40481.182	0.08	25.7563	0.117	0.454	ug/L
|>	Ge	72	463991.930	463991.93				ug/L
|	As	75	25649.441	0.06	25.1463	0.251	1.000	ug/L
|	Se	77	2017.072	0.00	26.5270	0.868	3.270	ug/L
|	Se	82	2519.366	0.01	26.9093	0.468	1.739	ug/L
⌊	Rb	85	23.334	0.00				mg/L
	Y	89	267949.132	17155.03				ug/L
	Rh	103	16.667	-2.33				ug/L
⌈	Mo	98	73.827	0.00	0.0505	0.001	2.378	ug/L
|	Ag	107	133941.138	0.36	25.4859	0.283	1.110	ug/L
|	Cd	114	30312.414	0.08	24.8440	0.173	0.696	ug/L
|>	In	115	374577.061	374577.06				ug/L
|	Sn	118	818.700	-0.00	-0.1083	0.005	4.221	ug/L
⌊	Sb	123	89535.171	0.24	23.6177	0.193	0.818	ug/L
⌈	Ba	135	44478.486	0.09	23.5386	0.298	1.266	ug/L
|	Ce	140	36.670	-0.00				ug/L
⌊>	Tb	159	491827.236	491827.24				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	190809.440	0.41	24.9235	0.254	1.019	ug/L
|	Tl	205	473881.768	1.02	25.2241	0.389	1.541	ug/L
|	Pb	206	162116.201	0.35	25.6661	0.298	1.163	ug/L
|	Pb	207	141577.577	0.30	24.6392	0.132	0.535	ug/L
|	Pb	208	656587.296	1.40	25.1462	0.123	0.490	ug/L
|	U	238	1017980.519	2.18	24.2950	0.170	0.698	ug/L
⌊>	Bi	209	466165.304	466165.30				ug/L

Sample ID: LCSW A1 WG349668-04
Report Date/Time: Wednesday, November 24, 2010 21:30:20
Page 1

Approved: November 29, 2010

Na	23	57125.083	0.14	0.0044	0.000	3.067	mg/L
Mg	24	1853.691	0.00	-0.0026	0.000	0.898	mg/L
K	39	458852.805	-0.07	-0.0045	0.000	7.219	mg/L
Ca	43	263.363	0.00	0.0036	0.001	27.404	mg/L
Fe	54	59603.397	0.01	0.0079	0.004	56.469	mg/L
Fe	57	8501.131	0.00	-0.0002	0.001	415.321	mg/L
Sc-1	45	300927.518	300927.52				mg/L
Cl	35	33211.058	8084.86				mg/L
Kr	83	36.667	-8.67				mg/L
Br	81	58724.600	49891.36				mg/L
P	31	14513.861	4019.65				mg/L
S	34	218890.507	45731.71				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		105.143			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		115.092			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		116.279			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		107.737			
Na	23					

Sample ID: LCSW A1 WG349668-04
Report Date/Time: Wednesday, November 24, 2010 21:30:20

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011077301 WG349668-02

Sample Date/Time: Wednesday, November 24, 2010 21:34:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 80
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	50041.665	0.05				ug/L
|	Be	9	7.333	-0.00	0.0493	0.003	5.358	ug/L
|	Al	27	269264.041	0.85	36.2095	4.468	12.338	ug/L
⌊>	Sc	45	309912.447	309912.45				ug/L
⌈	Ti	49	773.444	0.00	0.9338	0.427	45.732	ug/L
|	V	51	19508.493	0.04	1.4569	0.028	1.924	ug/L
|	Cr	52	17207.298	0.02	0.8027	0.029	3.638	ug/L
|	Cr	53	1917.043	0.00	1.3520	0.132	9.738	ug/L
|	Mn	55	57613.733	0.12	3.8610	0.016	0.413	ug/L
|	Co	59	3051.163	0.01	0.2192	0.006	2.779	ug/L
|	Ni	60	4384.672	0.01	1.6140	0.029	1.799	ug/L
|	Cu	65	5311.130	0.01	1.8758	0.043	2.283	ug/L
|	Zn	66	4535.407	0.01	2.0152	0.037	1.837	ug/L
|>	Ge	72	469024.065	469024.06				ug/L
|	As	75	5295.416	0.01	5.3175	0.105	1.983	ug/L
|	Se	77	123.346	0.00	0.7061	0.540	76.420	ug/L
|	Se	82	159.679	0.00	1.7152	0.065	3.799	ug/L
⌊	Rb	85	9519.958	0.02				mg/L
	Y	89	266620.675	15826.58				ug/L
	Rh	103	61.001	42.00				ug/L
⌈	Mo	98	28926.599	0.08	11.6850	0.074	0.636	ug/L
|	Ag	107	43.001	-0.00	-0.0690	0.001	1.831	ug/L
|	Cd	114	57.880	0.00	0.0332	0.004	10.970	ug/L
|>	In	115	373198.173	373198.17				ug/L
|	Sn	118	1030.053	-0.00	-0.0576	0.003	5.346	ug/L
⌊	Sb	123	1296.134	0.00	0.3461	0.008	2.434	ug/L
⌈	Ba	135	33826.462	0.07	17.8100	0.328	1.842	ug/L
|	Ce	140	1130.177	0.00				ug/L
⌊>	Tb	159	494374.878	494374.88				ug/L
⌈	Ho	165	36.670	0.00				ug/L
|	Tl	203	3111.849	0.01	0.4330	0.005	1.164	ug/L
|	Tl	205	7246.687	0.02	0.4046	0.017	4.222	ug/L
|	Pb	206	720.700	0.00	0.0174	0.007	42.508	ug/L
|	Pb	207	633.026	0.00	0.0267	0.001	5.300	ug/L
|	Pb	208	2923.199	0.00	0.0217	0.006	26.796	ug/L
|	U	238	6725.662	0.02	0.1763	0.004	2.218	ug/L
⌊>	Bi	209	439723.634	439723.63				ug/L

Sample ID: L1011077301 WG349668-02
Report Date/Time: Wednesday, November 24, 2010 21:37:08
Page 1

Approved: November 29, 2010

⌈	Na	23	62782655.827	202.54	9.6149	0.092	0.961	mg/L
|	Mg	24	10768322.622	34.74	2.4977	0.020	0.785	mg/L
|	K	39	11068564.741	34.12	0.9856	0.007	0.682	mg/L
|	Ca	43	242933.165	0.78	10.8594	0.117	1.076	mg/L
|	Fe	54	112962.307	0.18	0.0747	0.003	4.131	mg/L
|	Fe	57	28516.840	0.07	0.0640	0.005	7.455	mg/L
⌊>	Sc-1	45	309912.447	309912.45				mg/L
	Cl	35	786352.151	761225.96				mg/L
	Kr	83	37.334	-8.00				mg/L
	Br	81	75173.516	66340.28				mg/L
	P	31	24020.237	13526.03				mg/L
	S	34	568437.959	395279.16				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.284			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		114.668			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		116.882			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.626			
⌈	Na	23					

Sample ID: L1011077301 WG349668-02
Report Date/Time: Wednesday, November 24, 2010 21:37:08
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011077301 WG349668-02
Report Date/Time: Wednesday, November 24, 2010 21:37:08
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011077301DP WG349668-07

Sample Date/Time: Wednesday, November 24, 2010 21:41:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 81
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	47529.448	0.04				ug/L
|	Be	9	11.333	0.00	0.0585	0.015	25.686	ug/L
|	Al	27	253824.246	0.78	33.4537	3.476	10.390	ug/L
⌊>	Sc	45	316397.472	316397.47				ug/L
⌈	Ti	49	1156.879	0.00	1.4827	1.318	88.858	ug/L
|	V	51	19473.498	0.04	1.4718	0.041	2.773	ug/L
|	Cr	52	17274.414	0.02	0.8285	0.005	0.633	ug/L
|	Cr	53	1563.612	0.00	1.0486	0.086	8.183	ug/L
|	Mn	55	55820.929	0.12	3.7794	0.018	0.466	ug/L
|	Co	59	3039.492	0.01	0.2208	0.002	0.973	ug/L
|	Ni	60	4022.183	0.01	1.4940	0.051	3.430	ug/L
|	Cu	65	3451.297	0.01	1.2090	0.014	1.193	ug/L
|	Zn	66	3783.754	0.01	1.5507	0.014	0.911	ug/L
|>	Ge	72	464136.011	464136.01				ug/L
|	As	75	5162.834	0.01	5.2424	0.111	2.119	ug/L
|	Se	77	100.011	0.00	0.4067	0.472	116.000	ug/L
|	Se	82	131.298	0.00	1.4306	0.128	8.943	ug/L
⌊	Rb	85	9174.298	0.02				mg/L
	Y	89	267038.202	16244.10				ug/L
	Rh	103	67.001	48.00				ug/L
⌈	Mo	98	28722.939	0.08	11.6219	0.165	1.420	ug/L
|	Ag	107	21.334	-0.00	-0.0732	0.001	1.551	ug/L
|	Cd	114	65.321	0.00	0.0395	0.016	40.151	ug/L
|>	In	115	372588.025	372588.02				ug/L
|	Sn	118	838.568	-0.00	-0.1025	0.002	2.383	ug/L
⌊	Sb	123	1094.150	0.00	0.2930	0.003	0.922	ug/L
⌈	Ba	135	33794.010	0.07	17.6804	0.326	1.844	ug/L
|	Ce	140	1043.492	0.00				ug/L
⌊>	Tb	159	497538.492	497538.49				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	3037.825	0.01	0.4185	0.008	2.018	ug/L
|	Tl	205	7370.121	0.02	0.4075	0.017	4.223	ug/L
|	Pb	206	665.362	0.00	0.0069	0.001	18.932	ug/L
|	Pb	207	565.022	0.00	0.0131	0.003	22.866	ug/L
|	Pb	208	2645.498	0.00	0.0092	0.001	12.740	ug/L
|	U	238	6471.491	0.01	0.1682	0.001	0.612	ug/L
⌊>	Bi	209	444229.324	444229.32				ug/L

Sample ID: L1011077301DP WG349668-07
Report Date/Time: Wednesday, November 24, 2010 21:43:56
Page 1

Approved: November 29, 2010

⌈	Na	23	63678571.966	201.33	9.5577	0.265	2.777	mg/L
|	Mg	24	10947271.456	34.62	2.4887	0.068	2.736	mg/L
|	K	39	11250002.269	33.97	0.9813	0.015	1.551	mg/L
|	Ca	43	247596.918	0.78	10.8503	0.506	4.664	mg/L
|	Fe	54	112292.871	0.17	0.0710	0.006	8.527	mg/L
|	Fe	57	29683.916	0.07	0.0660	0.011	17.073	mg/L
⌊>	Sc-1	45	316397.472	316397.47				mg/L
	Cl	35	277923.300	252797.10				mg/L
	Kr	83	42.667	-2.67				mg/L
	Br	81	68281.710	59448.47				mg/L
	P	31	24689.166	14194.95				mg/L
	S	34	565381.693	392222.89				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.176			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		114.480			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		117.630			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.667			
⌈	Na	23					

Sample ID: L1011077301DP WG349668-07
Report Date/Time: Wednesday, November 24, 2010 21:43:56
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011077301DP WG349668-07
Report Date/Time: Wednesday, November 24, 2010 21:43:56
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011077301S WG349668-08

Sample Date/Time: Wednesday, November 24, 2010 21:48:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 82
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	49790.435	0.05				ug/L
|	Be	9	5334.756	0.02	12.4622	0.496	3.979	ug/L
|	Al	27	293587.600	0.92	39.2736	2.540	6.467	ug/L
⌊>	Sc	45	312492.109	312492.11				ug/L
⌈	Ti	49	1020.178	0.00	1.3047	1.193	91.438	ug/L
|	V	51	155665.753	0.33	13.6870	0.155	1.134	ug/L
|	Cr	52	133510.474	0.27	13.1707	0.173	1.313	ug/L
|	Cr	53	15253.159	0.03	13.6018	0.555	4.081	ug/L
|	Mn	55	240748.766	0.52	16.5365	0.096	0.578	ug/L
|	Co	59	160258.650	0.35	12.8834	0.124	0.962	ug/L
|	Ni	60	37129.196	0.08	14.1417	0.285	2.012	ug/L
|	Cu	65	36046.879	0.08	13.3486	0.056	0.416	ug/L
|	Zn	66	20640.486	0.04	12.7614	0.020	0.159	ug/L
| >	Ge	72	460897.732	460897.73				ug/L
|	As	75	16685.144	0.04	16.5468	0.243	1.469	ug/L
|	Se	77	886.795	0.00	11.2064	1.112	9.925	ug/L
|	Se	82	1160.500	0.00	12.4959	0.244	1.952	ug/L
⌊	Rb	85	8965.775	0.02				mg/L
	Y	89	261726.856	10932.76				ug/L
	Rh	103	52.001	33.00				ug/L
⌈	Mo	98	28037.876	0.08	11.3821	0.068	0.597	ug/L
|	Ag	107	56825.570	0.15	10.8624	0.087	0.799	ug/L
|	Cd	114	13436.638	0.04	11.1005	0.100	0.900	ug/L
| >	In	115	371363.149	371363.15				ug/L
|	Sn	118	684.290	-0.00	-0.1385	0.005	3.512	ug/L
⌊	Sb	123	42301.775	0.11	11.2566	0.235	2.084	ug/L
⌈	Ba	135	53987.547	0.11	28.2942	0.117	0.412	ug/L
|	Ce	140	986.821	0.00				ug/L
⌊>	Tb	159	496674.284	496674.28				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	91383.908	0.21	12.5468	0.052	0.418	ug/L
|	Tl	205	225302.833	0.51	12.6019	0.242	1.919	ug/L
|	Pb	206	74639.265	0.17	12.3664	0.064	0.521	ug/L
|	Pb	207	65676.957	0.15	11.9674	0.085	0.708	ug/L
|	Pb	208	304923.667	0.68	12.2248	0.044	0.360	ug/L
|	U	238	480995.219	1.08	12.0692	0.156	1.290	ug/L
⌊>	Bi	209	443505.571	443505.57				ug/L

Sample ID: L1011077301S WG349668-08
Report Date/Time: Wednesday, November 24, 2010 21:50:45
Page 1

Approved: November 29, 2010

Na	23	62564387.307	200.26	9.5068	0.345	3.628	mg/L	
Mg	24	10803430.224	34.58	2.4862	0.072	2.914	mg/L	
K	39	10812430.887	33.03	0.9538	0.038	4.026	mg/L	
Ca	43	240413.031	0.77	10.6613	0.271	2.543	mg/L	
Fe	54	106915.089	0.16	0.0658	0.001	2.226	mg/L	
Fe	57	27808.213	0.06	0.0611	0.009	14.355	mg/L	
> Sc-1	45	312492.109	312492.11				mg/L	
Cl	35	262502.884	237376.69				mg/L	
Kr	83	28.667	-16.67				mg/L	
Br	81	61825.883	52992.65				mg/L	
P	31	25830.137	15335.93				mg/L	
S	34	553193.861	380035.06				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		104.442			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		114.104			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		117.425			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		102.500			
Na	23					

Sample ID: L1011077301S WG349668-08
Report Date/Time: Wednesday, November 24, 2010 21:50:45

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011077301S WG349668-08
Report Date/Time: Wednesday, November 24, 2010 21:50:45
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067801

Sample Date/Time: Wednesday, November 24, 2010 21:55:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 83
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	48751.980	0.05				ug/L
|	Be	9	6.000	-0.00	0.0462	0.008	17.306	ug/L
|	Al	27	82371.827	0.25	10.4939	0.629	5.993	ug/L
⌊>	Sc	45	308469.020	308469.02				ug/L
⌈	Ti	49	440.054	0.00	0.5262	0.054	10.277	ug/L
|	V	51	4077.516	0.00	0.1292	0.008	6.014	ug/L
|	Cr	52	15605.991	0.02	0.7765	0.017	2.134	ug/L
|	Cr	53	1310.217	0.00	0.9079	0.074	8.130	ug/L
|	Mn	55	2472827.592	5.73	181.7288	0.288	0.158	ug/L
|	Co	59	6033.213	0.01	0.4965	0.005	1.054	ug/L
|	Ni	60	8467.669	0.02	3.4207	0.051	1.489	ug/L
|	Cu	65	626.359	0.00	0.1823	0.004	2.436	ug/L
|	Zn	66	3315.583	0.00	1.4065	0.033	2.368	ug/L
|>	Ge	72	431652.718	431652.72				ug/L
|	As	75	2424.404	0.01	2.7594	0.096	3.475	ug/L
|	Se	77	153.350	0.00	1.2915	0.349	26.989	ug/L
|	Se	82	152.050	0.00	1.7732	0.086	4.849	ug/L
⌊	Rb	85	2216.268	0.01				mg/L
	Y	89	247490.284	-3303.81				ug/L
	Rh	103	95.335	76.33				ug/L
⌈	Mo	98	8821.174	0.02	3.7523	0.025	0.667	ug/L
|	Ag	107	70.668	-0.00	-0.0631	0.003	4.759	ug/L
|	Cd	114	36.528	0.00	0.0171	0.005	28.556	ug/L
|>	In	115	355740.122	355740.12				ug/L
|	Sn	118	729.360	-0.00	-0.1202	0.005	4.401	ug/L
⌊	Sb	123	581.727	0.00	0.1645	0.010	5.948	ug/L
⌈	Ba	135	42378.363	0.09	22.6581	0.065	0.287	ug/L
|	Ce	140	456.723	0.00				ug/L
⌊>	Tb	159	486812.433	486812.43				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	138.002	0.00	0.0226	0.001	5.813	ug/L
|	Tl	205	280.032	0.00	0.0126	0.005	38.962	ug/L
|	Pb	206	659.362	0.00	0.0148	0.004	27.459	ug/L
|	Pb	207	556.354	0.00	0.0197	0.003	14.136	ug/L
|	Pb	208	2635.831	0.00	0.0174	0.003	17.853	ug/L
|	U	238	29366.352	0.07	0.8009	0.010	1.290	ug/L
⌊>	Bi	209	411048.164	411048.16				ug/L

Approved: November 29, 2010

⌈	Na	23	87733793.372	284.40	13.5018	0.287	2.122	mg/L
|	Mg	24	50614733.538	164.09	11.8069	0.142	1.199	mg/L
|	K	39	13890690.028	43.44	1.2554	0.017	1.334	mg/L
|	Ca	43	1028077.709	3.33	46.2019	0.527	1.140	mg/L
|	Fe	54	858879.584	2.60	1.0466	0.006	0.567	mg/L
|	Fe	57	372842.339	1.18	1.1879	0.036	3.025	mg/L
⌊>	Sc-1	45	308469.020	308469.02				mg/L
	Cl	35	556795.604	531669.41				mg/L
	Kr	83	33.000	-12.33				mg/L
	Br	81	55841.484	47008.25				mg/L
	P	31	25709.730	15215.52				mg/L
	S	34	696158.368	522999.57				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.815			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.304			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		115.094			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.999			
⌈	Na	23					

Sample ID: L1011067801
Report Date/Time: Wednesday, November 24, 2010 21:57:30
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067802

Sample Date/Time: Wednesday, November 24, 2010 22:02:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 84
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	47562.949	0.05				ug/L
|	Be	9	4.667	-0.00	0.0438	0.007	17.015	ug/L
|	Al	27	320467.511	1.09	46.5651	6.941	14.907	ug/L
⌊>	Sc	45	288726.344	288726.34				ug/L
⌈	Ti	49	1670.309	0.00	2.6212	0.451	17.204	ug/L
|	V	51	5313.431	0.01	0.2975	0.003	0.855	ug/L
|	Cr	52	15737.865	0.02	0.9667	0.008	0.820	ug/L
|	Cr	53	2723.980	0.01	2.5522	0.337	13.187	ug/L
|	Mn	55	2277023.079	5.79	183.7922	1.481	0.806	ug/L
|	Co	59	18864.639	0.05	1.7592	0.033	1.889	ug/L
|	Ni	60	18762.782	0.05	8.3697	0.289	3.455	ug/L
|	Cu	65	1822.518	0.00	0.7288	0.015	1.997	ug/L
|	Zn	66	2871.775	0.00	1.2920	0.065	5.030	ug/L
|>	Ge	72	393017.089	393017.09				ug/L
|	As	75	890.485	0.00	1.2488	0.178	14.253	ug/L
|	Se	77	1296.880	0.00	19.9071	0.364	1.829	ug/L
|	Se	82	1376.493	0.00	17.3680	0.523	3.009	ug/L
⌊	Rb	85	12350.079	0.03				mg/L
	Y	89	231140.730	-19653.37				ug/L
	Rh	103	104.668	85.67				ug/L
⌈	Mo	98	7412.355	0.02	3.5578	0.020	0.568	ug/L
|	Ag	107	39.667	-0.00	-0.0683	0.001	0.852	ug/L
|	Cd	114	89.808	0.00	0.0730	0.015	20.579	ug/L
|>	In	115	315358.827	315358.83				ug/L
|	Sn	118	1180.337	0.00	0.0290	0.026	88.239	ug/L
⌊	Sb	123	6491.627	0.02	2.0367	0.056	2.730	ug/L
⌈	Ba	135	65312.592	0.14	37.5152	0.428	1.142	ug/L
|	Ce	140	1983.729	0.00				ug/L
⌊>	Tb	159	453215.407	453215.41				ug/L
⌈	Ho	165	36.670	0.00				ug/L
|	Tl	203	859.046	0.00	0.1504	0.005	3.629	ug/L
|	Tl	205	2167.119	0.01	0.1481	0.011	7.545	ug/L
|	Pb	206	659.695	0.00	0.0344	0.009	24.884	ug/L
|	Pb	207	573.022	0.00	0.0417	0.005	13.097	ug/L
|	Pb	208	2638.497	0.00	0.0365	0.002	6.644	ug/L
|	U	238	77785.150	0.22	2.4579	0.019	0.761	ug/L
⌊>	Bi	209	352890.128	352890.13				ug/L

Sample ID: L1011067802
Report Date/Time: Wednesday, November 24, 2010 22:04:16
Page 1

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	101557601.490	351.84	25.3194	0.567	2.238	mg/L
|	K	39	111064082.121	383.16	11.0929	0.216	1.945	mg/L
|	Ca	43	1721865.339	5.96	82.7015	2.214	2.677	mg/L
|	Fe	54	153608.655	0.35	0.1420	0.003	2.204	mg/L
|	Fe	57	94998.657	0.30	0.3026	0.010	3.209	mg/L
⌊>	Sc-1	45	288726.344	288726.34				mg/L
	Cl	35	2048494.990	2023368.79				mg/L
	Kr	83	33.000	-12.33				mg/L
	Br	81	85210.865	76377.63				mg/L
	P	31	26321.532	15827.32				mg/L
	S	34	1540443.215	1367284.41				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.060			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.896			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		107.151			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		81.557			
⌈	Na	23					

Sample ID: L1011067802
Report Date/Time: Wednesday, November 24, 2010 22:04:16
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067802PS WG349751-01

Sample Date/Time: Wednesday, November 24, 2010 22:08:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 85
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44448.690	0.05				ug/L
|	Be	9	19885.755	0.07	52.6727	1.756	3.333	ug/L
|	Al	27	574946.140	2.07	88.5456	8.290	9.362	ug/L
⌊>	Sc	45	275031.835	275031.84				ug/L
⌈	Ti	49	1473.590	0.00	2.3426	0.286	12.198	ug/L
|	V	51	512912.225	1.32	54.6322	0.740	1.355	ug/L
|	Cr	52	439787.145	1.12	54.7268	0.574	1.049	ug/L
|	Cr	53	53494.854	0.14	58.1691	2.490	4.280	ug/L
|	Mn	55	2842184.314	7.36	233.6540	3.399	1.455	ug/L
|	Co	59	589507.965	1.53	56.6781	0.313	0.551	ug/L
|	Ni	60	134331.421	0.35	61.2144	1.317	2.152	ug/L
|	Cu	65	113550.526	0.29	50.4044	0.212	0.421	ug/L
|	Zn	66	57426.661	0.15	44.5991	0.166	0.372	ug/L
|>	Ge	72	385899.481	385899.48				ug/L
|	As	75	41382.303	0.11	48.5675	0.487	1.004	ug/L
|	Se	77	3911.156	0.01	63.1283	0.584	0.925	ug/L
|	Se	82	4709.529	0.01	60.4526	1.059	1.753	ug/L
⌊	Rb	85	11631.878	0.03				mg/L
	Y	89	226911.448	-23882.65				ug/L
	Rh	103	106.668	87.67				ug/L
⌈	Mo	98	7028.773	0.02	3.4345	0.089	2.606	ug/L
|	Ag	107	183913.827	0.59	42.3540	0.457	1.078	ug/L
|	Cd	114	47339.797	0.15	46.9175	0.665	1.418	ug/L
|>	In	115	309876.398	309876.40				ug/L
|	Sn	118	1361.426	0.00	0.0864	0.016	18.687	ug/L
⌊	Sb	123	155454.238	0.50	49.5684	0.597	1.205	ug/L
⌈	Ba	135	137611.423	0.31	81.3778	0.842	1.035	ug/L
|	Ce	140	2367.206	0.01				ug/L
⌊>	Tb	159	440290.875	440290.88				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	311457.094	0.89	54.0010	0.349	0.646	ug/L
|	Tl	205	766602.020	2.18	54.1705	0.654	1.207	ug/L
|	Pb	206	258429.349	0.73	54.4288	0.456	0.837	ug/L
|	Pb	207	228625.235	0.65	52.9218	0.316	0.596	ug/L
|	Pb	208	1051439.936	2.99	53.5667	0.309	0.577	ug/L
|	U	238	1826113.783	5.20	57.8487	0.536	0.926	ug/L
⌊>	Bi	209	351158.010	351158.01				ug/L

Approved: November 29, 2010

⌈	Na	23	463415794.917	1685.60	80.0361	2.846	3.556	mg/L
|	Mg	24	97148642.887	353.33	25.4272	0.575	2.260	mg/L
|	K	39	105407774.069	381.77	11.0528	0.301	2.725	mg/L
|	Ca	43	1576615.472	5.73	79.4995	2.414	3.036	mg/L
|	Fe	54	147650.281	0.35	0.1440	0.008	5.609	mg/L
|	Fe	57	88202.748	0.30	0.2942	0.009	3.208	mg/L
⌊>	Sc-1	45	275031.835	275031.84				mg/L
	Cl	35	1950001.809	1924875.61				mg/L
	Kr	83	35.667	-9.67				mg/L
	Br	81	76031.990	67198.75				mg/L
	P	31	25192.408	14698.20				mg/L
	S	34	1437903.680	1264744.88				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.447			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.212			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.095			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		81.157			
⌈	Na	23					

Sample ID: L1011067802PS WG349751-01
Report Date/Time: Wednesday, November 24, 2010 22:11:02
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067802SDL WG349751-02

Sample Date/Time: Wednesday, November 24, 2010 22:15:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 86
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	46641.885	0.04				ug/L
|	Be	9	4.667	-0.00	0.0433	0.007	16.962	ug/L
|	Al	27	78625.368	0.24	10.1879	0.699	6.858	ug/L
⌊>	Sc	45	302542.559	302542.56				ug/L
⌈	Ti	49	370.044	0.00	0.4053	0.182	45.025	ug/L
|	V	51	3369.369	0.00	0.0523	0.005	9.730	ug/L
|	Cr	52	10588.042	0.00	0.1739	0.013	7.499	ug/L
|	Cr	53	886.795	0.00	0.4692	0.059	12.632	ug/L
|	Mn	55	478024.325	1.08	34.0984	0.450	1.319	ug/L
|	Co	59	4178.582	0.01	0.3267	0.004	1.280	ug/L
|	Ni	60	3935.481	0.01	1.5274	0.031	2.001	ug/L
|	Cu	65	679.697	0.00	0.1958	0.003	1.656	ug/L
|	Zn	66	3407.281	0.00	1.4026	0.037	2.652	ug/L
|>	Ge	72	444372.610	444372.61				ug/L
|	As	75	194.460	0.00	0.4263	0.132	30.919	ug/L
|	Se	77	310.036	0.00	3.4518	1.113	32.246	ug/L
|	Se	82	357.083	0.00	4.0102	0.269	6.704	ug/L
⌊	Rb	85	2705.060	0.01				mg/L
	Y	89	256482.855	5688.76				ug/L
	Rh	103	24.667	5.67				ug/L
⌈	Mo	98	1608.967	0.00	0.6884	0.001	0.087	ug/L
|	Ag	107	57.667	-0.00	-0.0659	0.003	4.692	ug/L
|	Cd	114	32.923	0.00	0.0135	0.008	57.179	ug/L
|>	In	115	362643.601	362643.60				ug/L
|	Sn	118	815.633	-0.00	-0.1026	0.005	4.607	ug/L
⌊	Sb	123	1698.157	0.00	0.4657	0.018	3.845	ug/L
⌈	Ba	135	13906.802	0.03	7.3524	0.085	1.150	ug/L
|	Ce	140	483.394	0.00				ug/L
⌊>	Tb	159	491906.156	491906.16				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	256.006	0.00	0.0380	0.001	2.091	ug/L
|	Tl	205	523.400	0.00	0.0256	0.009	34.556	ug/L
|	Pb	206	581.023	-0.00	-0.0052	0.003	48.438	ug/L
|	Pb	207	498.684	0.00	0.0027	0.005	173.546	ug/L
|	Pb	208	2294.793	-0.00	-0.0031	0.003	87.128	ug/L
|	U	238	17074.402	0.04	0.4424	0.004	0.831	ug/L
⌊>	Bi	209	435411.829	435411.83				ug/L

Approved: November 29, 2010

⌈	Na	23	100703004.322	332.89	15.8043	0.370	2.342	mg/L
|	Mg	24	21396866.588	70.74	5.0882	0.104	2.039	mg/L
|	K	39	23320063.140	75.50	2.1838	0.046	2.104	mg/L
|	Ca	43	350403.708	1.16	16.0498	0.333	2.077	mg/L
|	Fe	54	78041.289	0.07	0.0319	0.002	6.670	mg/L
|	Fe	57	27533.972	0.07	0.0630	0.002	3.639	mg/L
⌊>	Sc-1	45	302542.559	302542.56				mg/L
	Cl	35	456645.497	431519.30				mg/L
	Kr	83	30.000	-15.33				mg/L
	Br	81	43707.311	34874.07				mg/L
	P	31	15006.032	4511.82				mg/L
	S	34	502956.194	329797.39				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.698			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.425			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		116.298			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.629			
⌈	Na	23					

Sample ID: L1011067802SDL WG349751-02
Report Date/Time: Wednesday, November 24, 2010 22:17:48
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 22:22:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	47546.576	0.05				ug/L
|	Be	9	22683.700	0.08	55.8363	0.774	1.386	ug/L
|	Al	27	355975.710	1.18	50.5310	0.724	1.432	ug/L
⌊>	Sc	45	295828.713	295828.71				ug/L
⌈	Ti	49	67631.400	0.15	98.6571	1.818	1.843	ug/L
|	V	51	541553.007	1.21	50.0653	1.220	2.437	ug/L
|	Cr	52	466025.427	1.03	50.2786	0.508	1.011	ug/L
|	Cr	53	56196.427	0.13	53.0317	1.139	2.147	ug/L
|	Mn	55	735204.428	1.65	52.4566	0.255	0.486	ug/L
|	Co	59	616494.461	1.39	51.4700	0.391	0.759	ug/L
|	Ni	60	130184.901	0.29	51.5111	0.256	0.497	ug/L
|	Cu	65	129172.214	0.29	49.7929	0.132	0.265	ug/L
|	Zn	66	75125.226	0.17	50.7948	0.164	0.322	ug/L
|>	Ge	72	444377.499	444377.50				ug/L
|	As	75	48127.466	0.11	49.0455	0.609	1.241	ug/L
|	Se	77	3747.747	0.01	52.3861	4.557	8.698	ug/L
|	Se	82	4648.503	0.01	51.8191	0.490	0.946	ug/L
⌊	Rb	85	1857.524	0.00				mg/L
	Y	89	256623.501	5829.40				ug/L
	Rh	103	25.334	6.33				ug/L
⌈	Mo	98	218616.822	0.60	90.1129	1.187	1.317	ug/L
|	Ag	107	247890.350	0.68	48.4556	0.620	1.281	ug/L
|	Cd	114	58243.733	0.16	48.9827	0.746	1.524	ug/L
|>	In	115	365175.959	365175.96				ug/L
|	Sn	118	197067.837	0.54	47.2479	0.377	0.798	ug/L
⌊	Sb	123	171705.886	0.47	46.4597	0.727	1.564	ug/L
⌈	Ba	135	83860.380	0.17	44.6670	0.774	1.732	ug/L
|	Ce	140	86.676	0.00				ug/L
⌊>	Tb	159	488783.487	488783.49				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	366184.710	0.81	49.3888	0.185	0.375	ug/L
|	Tl	205	900505.314	1.99	49.4992	0.221	0.447	ug/L
|	Pb	206	297873.295	0.66	48.7916	0.193	0.396	ug/L
|	Pb	207	278224.177	0.62	50.0936	0.187	0.373	ug/L
|	Pb	208	1246150.608	2.75	49.3779	0.094	0.189	ug/L
|	U	238	1969193.951	4.36	48.5261	0.690	1.423	ug/L
⌊>	Bi	209	451419.281	451419.28				ug/L

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 22:24:34
Page 1

Approved: November 29, 2010

Na	23	31962379.277	108.00	5.1257	0.034	0.665	mg/L
Mg	24	20611290.552	69.67	5.0116	0.024	0.483	mg/L
K	39	50181522.660	168.03	4.8634	0.039	0.799	mg/L
Ca	43	108981.606	0.37	5.0990	0.079	1.552	mg/L
Fe	54	3721596.841	12.39	4.9806	0.078	1.562	mg/L
Fe	57	1533906.000	5.16	5.1891	0.099	1.909	mg/L
> Sc-1	45	295828.713	295828.71				mg/L
Cl	35	31276.837	6150.64				mg/L
Kr	83	35.334	-10.00				mg/L
Br	81	30543.920	21710.68				mg/L
P	31	13977.095	3482.88				mg/L
S	34	228349.429	55190.63				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	100.131				
Cr	52	100.557				
Cr	53					
Mn	55	104.913				
Co	59	102.940				
Ni	60	103.022				
Cu	65	99.586				
Zn	66	101.590				
> Ge	72		100.699			
As	75	98.091				
Se	77					
Se	82	103.638				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	96.911				
Cd	114	97.965				
> In	115		112.203			
Sn	118					
Sb	123	92.919				
Ba	135	89.334				
Ce	140					
> Tb	159		115.560			
Ho	165					
Tl	203	98.778				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.756				
U	238	97.052				
> Bi	209		104.329			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 22:24:34

Approved: November 29, 2010

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Ba	135	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 22:24:34
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 22:29:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	46189.954	0.04				ug/L
|	Be	9	3.333	-0.00	0.0402	0.008	18.851	ug/L
|	Al	27	6118.542	-0.00	-0.0714	0.093	130.321	ug/L
⌊>	Sc	45	307273.543	307273.54				ug/L
⌈	Ti	49	53.339	0.00	-0.0593	0.007	12.533	ug/L
|	V	51	2806.499	-0.00	-0.0049	0.009	176.159	ug/L
|	Cr	52	9084.549	-0.00	-0.0103	0.012	111.659	ug/L
|	Cr	53	406.716	-0.00	0.0053	0.031	584.176	ug/L
|	Mn	55	341.009	-0.00	-0.0126	0.002	13.853	ug/L
|	Co	59	212.004	-0.00	-0.0049	0.001	15.586	ug/L
|	Ni	60	29.000	-0.00	-0.0194	0.001	4.494	ug/L
|	Cu	65	116.669	-0.00	-0.0224	0.004	17.010	ug/L
|	Zn	66	762.370	-0.00	-0.4290	0.018	4.183	ug/L
⌊>	Ge	72	452868.231	452868.23				ug/L
|	As	75	-80.029	0.00	0.1484	0.032	21.783	ug/L
|	Se	77	80.008	0.00	0.1627	0.490	300.847	ug/L
|	Se	82	43.725	0.00	0.5068	0.091	17.909	ug/L
⌊	Rb	85	11.333	-0.00				mg/L
	Y	89	265327.426	14533.33				ug/L
	Rh	103	5.667	-13.33				ug/L
⌈	Mo	98	101.193	0.00	0.0614	0.010	16.774	ug/L
|	Ag	107	55.334	-0.00	-0.0667	0.002	3.435	ug/L
|	Cd	114	21.787	0.00	0.0034	0.004	108.020	ug/L
⌊>	In	115	374832.264	374832.26				ug/L
|	Sn	118	869.771	-0.00	-0.0963	0.010	10.382	ug/L
⌊	Sb	123	284.126	0.00	0.0777	0.009	12.189	ug/L
⌈	Ba	135	15.333	-0.00	-0.0020	0.003	146.709	ug/L
|	Ce	140	33.337	-0.00				ug/L
⌊>	Tb	159	498919.981	498919.98				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	32.334	-0.00	0.0064	0.000	7.196	ug/L
|	Tl	205	86.676	-0.00	0.0003	0.002	697.704	ug/L
|	Pb	206	463.682	-0.00	-0.0304	0.003	10.120	ug/L
|	Pb	207	408.679	-0.00	-0.0192	0.005	27.045	ug/L
|	Pb	208	1872.088	-0.00	-0.0256	0.001	5.662	ug/L
|	U	238	103.002	0.00	0.0087	0.000	4.053	ug/L
⌊>	Bi	209	466574.894	466574.89				ug/L

Approved: November 29, 2010

⌈	Na	23	27353.433	0.04	-0.0004	0.000	33.317	mg/L
|	Mg	24	1136.846	0.00	-0.0027	0.000	1.004	mg/L
|	K	39	443311.780	-0.15	-0.0068	0.002	26.602	mg/L
|	Ca	43	140.015	-0.00	-0.0021	0.002	72.250	mg/L
|	Fe	54	57445.394	0.00	0.0035	0.003	77.433	mg/L
|	Fe	57	8064.064	0.00	-0.0022	0.001	65.428	mg/L
⌊>	Sc-1	45	307273.543	307273.54				mg/L
	Cl	35	29455.319	4329.12				mg/L
	Kr	83	31.667	-13.67				mg/L
	Br	81	28047.282	19214.05				mg/L
	P	31	13690.713	3196.50				mg/L
	S	34	219890.998	46732.20				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.623			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		115.170			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		117.956			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		107.831			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 22:31:17
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 7	Se	82	CCB IS OUT OF LIMITS (+/-1/2RL)

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 22:31:17
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067803 WG349668-01

Sample Date/Time: Wednesday, November 24, 2010 22:35:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 87
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	46039.223	0.04				ug/L
|	Be	9	8.000	-0.00	0.0515	0.005	9.707	ug/L
|	Al	27	96227.551	0.30	12.7834	0.374	2.926	ug/L
⌊>	Sc	45	300189.226	300189.23				ug/L
⌈	Ti	49	693.427	0.00	0.9739	0.134	13.729	ug/L
|	V	51	6343.403	0.01	0.3852	0.010	2.689	ug/L
|	Cr	52	21364.011	0.03	1.5848	0.007	0.436	ug/L
|	Cr	53	2123.772	0.00	1.8371	0.185	10.051	ug/L
|	Mn	55	1251679.050	3.09	97.9060	0.254	0.260	ug/L
|	Co	59	7081.911	0.02	0.6260	0.009	1.454	ug/L
|	Ni	60	9339.119	0.02	4.0216	0.030	0.753	ug/L
|	Cu	65	771.371	0.00	0.2598	0.011	4.127	ug/L
|	Zn	66	3907.469	0.01	2.0051	0.045	2.231	ug/L
|>	Ge	72	405478.766	405478.77				ug/L
|	As	75	4351.394	0.01	5.0651	0.065	1.288	ug/L
|	Se	77	190.021	0.00	2.0051	0.666	33.228	ug/L
|	Se	82	111.718	0.00	1.3930	0.188	13.469	ug/L
⌊	Rb	85	3695.720	0.01				mg/L
	Y	89	234398.547	-16395.55				ug/L
	Rh	103	75.001	56.00				ug/L
⌈	Mo	98	4308.908	0.01	2.0169	0.011	0.536	ug/L
|	Ag	107	30.334	-0.00	-0.0706	0.001	1.660	ug/L
|	Cd	114	34.121	0.00	0.0180	0.014	78.442	ug/L
|>	In	115	324818.693	324818.69				ug/L
|	Sn	118	1234.610	0.00	0.0341	0.008	23.827	ug/L
⌊	Sb	123	320.297	0.00	0.1003	0.007	7.419	ug/L
⌈	Ba	135	38423.060	0.08	21.5166	0.015	0.071	ug/L
|	Ce	140	550.070	0.00				ug/L
⌊>	Tb	159	464778.136	464778.14				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	130.002	0.00	0.0236	0.001	3.950	ug/L
|	Tl	205	276.698	0.00	0.0143	0.000	2.732	ug/L
|	Pb	206	807.041	0.00	0.0576	0.009	15.230	ug/L
|	Pb	207	664.029	0.00	0.0557	0.009	15.807	ug/L
|	Pb	208	3170.898	0.00	0.0562	0.003	6.103	ug/L
|	U	238	73094.905	0.20	2.2046	0.016	0.747	ug/L
⌊>	Bi	209	369824.696	369824.70				ug/L

Approved: November 29, 2010

⌈	Na	23	467627615.969	1557.83	73.9691	1.309	1.770	mg/L
|	Mg	24	67330123.110	224.29	16.1398	0.135	0.835	mg/L
|	K	39	49374622.219	162.89	4.7145	0.060	1.270	mg/L
|	Ca	43	1570648.487	5.23	72.5359	0.676	0.932	mg/L
|	Fe	54	1667118.583	5.37	2.1588	0.013	0.612	mg/L
|	Fe	57	731948.066	2.41	2.4252	0.031	1.293	mg/L
⌊>	Sc-1	45	300189.226	300189.23				mg/L
	Cl	35	2108161.308	2083035.11				mg/L
	Kr	83	32.667	-12.67				mg/L
	Br	81	62124.438	53291.20				mg/L
	P	31	22363.036	11868.82				mg/L
	S	34	909602.635	736443.83				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.884			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.803			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.884			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		85.471			
⌈	Na	23					

Sample ID: L1011067803 WG349668-01
Report Date/Time: Wednesday, November 24, 2010 22:38:03
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011067803 WG349668-01
Report Date/Time: Wednesday, November 24, 2010 22:38:03
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067803S WG349668-05

Sample Date/Time: Wednesday, November 24, 2010 22:42:39
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 88
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	48785.410	0.05				ug/L
|	Be	9	10496.841	0.04	25.5741	1.045	4.085	ug/L
|	Al	27	285630.802	0.93	39.9078	2.716	6.806	ug/L
⌊>	Sc	45	299263.718	299263.72				ug/L
⌈	Ti	49	846.789	0.00	1.2013	0.390	32.485	ug/L
|	V	51	267947.383	0.65	26.7112	0.260	0.973	ug/L
|	Cr	52	243328.817	0.57	28.0061	0.450	1.607	ug/L
|	Cr	53	27925.090	0.07	28.3659	0.900	3.172	ug/L
|	Mn	55	1649765.515	4.02	127.5499	0.879	0.689	ug/L
|	Co	59	303106.289	0.74	27.3994	0.242	0.885	ug/L
|	Ni	60	70706.802	0.17	30.2898	0.166	0.547	ug/L
|	Cu	65	58491.157	0.14	24.3864	0.066	0.272	ug/L
|	Zn	66	33823.108	0.08	24.2869	0.214	0.883	ug/L
|>	Ge	72	410289.388	410289.39				ug/L
|	As	75	26673.119	0.07	29.5361	0.563	1.907	ug/L
|	Se	77	1600.288	0.00	23.7015	0.879	3.710	ug/L
|	Se	82	2032.585	0.00	24.5601	0.507	2.062	ug/L
⌊	Rb	85	3731.400	0.01				mg/L
	Y	89	236872.806	-13921.29				ug/L
	Rh	103	77.334	58.33				ug/L
⌈	Mo	98	4353.594	0.01	2.0317	0.039	1.906	ug/L
|	Ag	107	101216.344	0.31	22.1320	0.211	0.955	ug/L
|	Cd	114	24537.680	0.08	23.1204	0.242	1.046	ug/L
|>	In	115	325836.146	325836.15				ug/L
|	Sn	118	1157.667	0.00	0.0121	0.016	133.845	ug/L
⌊	Sb	123	77077.009	0.24	23.3758	0.305	1.307	ug/L
⌈	Ba	135	78222.196	0.17	44.3268	0.484	1.092	ug/L
|	Ce	140	733.434	0.00				ug/L
⌊>	Tb	159	459419.342	459419.34				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	158197.408	0.43	26.2762	0.239	0.909	ug/L
|	Tl	205	387922.972	1.06	26.2557	0.214	0.814	ug/L
|	Pb	206	132332.826	0.36	26.6458	0.226	0.848	ug/L
|	Pb	207	116099.571	0.32	25.6968	0.047	0.184	ug/L
|	Pb	208	538683.292	1.46	26.2397	0.201	0.766	ug/L
|	U	238	954361.252	2.60	28.9638	0.200	0.690	ug/L
⌊>	Bi	209	366590.005	366590.00				ug/L

Sample ID: L1011067803S WG349668-05
Report Date/Time: Wednesday, November 24, 2010 22:44:50
Page 1

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	69234971.198	231.45	16.6548	0.431	2.586	mg/L
|	K	39	49648392.012	164.38	4.7575	0.149	3.139	mg/L
|	Ca	43	1595082.653	5.33	73.9147	1.850	2.504	mg/L
|	Fe	54	1720218.373	5.57	2.2381	0.070	3.116	mg/L
|	Fe	57	763219.022	2.53	2.5387	0.046	1.818	mg/L
⌊>	Sc-1	45	299263.718	299263.72				mg/L
	Cl	35	2134435.091	2109308.90				mg/L
	Kr	83	36.334	-9.00				mg/L
	Br	81	52638.852	43805.62				mg/L
	P	31	22999.807	12505.60				mg/L
	S	34	919093.141	745934.34				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.974			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.116			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.617			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		84.724			
⌈	Na	23					

Sample ID: L1011067803S WG349668-05
Report Date/Time: Wednesday, November 24, 2010 22:44:50
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011067803S WG349668-05
Report Date/Time: Wednesday, November 24, 2010 22:44:50
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067803SD WG349668-06

Sample Date/Time: Wednesday, November 24, 2010 22:49:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 89
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	48450.448	0.05				ug/L
|	Be	9	10313.984	0.03	24.5093	0.248	1.012	ug/L
|	Al	27	272137.682	0.87	37.0339	1.319	3.561	ug/L
⌊>	Sc	45	306665.357	306665.36				ug/L
⌈	Ti	49	823.450	0.00	1.1485	0.062	5.441	ug/L
|	V	51	264067.709	0.63	25.9418	0.177	0.681	ug/L
|	Cr	52	235267.883	0.55	26.6439	0.156	0.586	ug/L
|	Cr	53	27731.183	0.07	27.7641	0.832	2.996	ug/L
|	Mn	55	1637589.469	3.93	124.8001	1.102	0.883	ug/L
|	Co	59	302927.481	0.73	26.9926	0.173	0.643	ug/L
|	Ni	60	71597.449	0.17	30.2345	0.296	0.978	ug/L
|	Cu	65	58158.544	0.14	23.9014	0.055	0.231	ug/L
|	Zn	66	33702.705	0.08	23.8390	0.366	1.535	ug/L
|>	Ge	72	416210.163	416210.16				ug/L
|	As	75	26219.480	0.06	28.6255	0.349	1.220	ug/L
|	Se	77	1807.011	0.00	26.4967	2.354	8.884	ug/L
|	Se	82	1995.591	0.00	23.7683	0.652	2.742	ug/L
⌊	Rb	85	3777.418	0.01				mg/L
	Y	89	244828.969	-5965.13				ug/L
	Rh	103	95.001	76.00				ug/L
⌈	Mo	98	4378.049	0.01	1.9715	0.102	5.193	ug/L
|	Ag	107	101829.218	0.30	21.4719	0.065	0.304	ug/L
|	Cd	114	24693.224	0.07	22.4408	0.281	1.254	ug/L
|>	In	115	337818.181	337818.18				ug/L
|	Sn	118	1077.925	-0.00	-0.0198	0.013	66.927	ug/L
⌊	Sb	123	76254.565	0.23	22.3047	0.225	1.008	ug/L
⌈	Ba	135	78743.287	0.16	42.6366	0.309	0.725	ug/L
|	Ce	140	596.744	0.00				ug/L
⌊>	Tb	159	480805.572	480805.57				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	157829.007	0.43	25.9221	0.235	0.908	ug/L
|	Tl	205	389007.928	1.05	26.0374	0.552	2.121	ug/L
|	Pb	206	131310.137	0.35	26.1422	0.099	0.379	ug/L
|	Pb	207	115823.039	0.31	25.3488	0.169	0.667	ug/L
|	Pb	208	535529.903	1.44	25.7929	0.128	0.496	ug/L
|	U	238	949251.484	2.56	28.4863	0.070	0.247	ug/L
⌊>	Bi	209	370725.950	370725.95				ug/L

Sample ID: L1011067803SD WG349668-06
Report Date/Time: Wednesday, November 24, 2010 22:51:38
Page 1

Approved: November 29, 2010

⌈	Na	23	473910449.962	1545.63	73.3898	1.768	2.410	mg/L
|	Mg	24	68397950.359	223.08	16.0526	0.294	1.832	mg/L
|	K	39	50770688.062	164.00	4.7465	0.117	2.475	mg/L
|	Ca	43	1598517.208	5.21	72.2740	1.258	1.741	mg/L
|	Fe	54	1721704.209	5.43	2.1832	0.008	0.346	mg/L
|	Fe	57	752485.634	2.43	2.4411	0.042	1.704	mg/L
⌊>	Sc-1	45	306665.357	306665.36				mg/L
	Cl	35	2147982.586	2122856.39				mg/L
	Kr	83	34.667	-10.67				mg/L
	Br	81	64375.220	55541.98				mg/L
	P	31	24484.605	13990.39				mg/L
	S	34	940140.665	766981.86				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.316			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.797			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		113.673			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		85.680			
⌈	Na	23					

Sample ID: L1011067803SD WG349668-06
Report Date/Time: Wednesday, November 24, 2010 22:51:38
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011067803SD WG349668-06
Report Date/Time: Wednesday, November 24, 2010 22:51:38
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067804

Sample Date/Time: Wednesday, November 24, 2010 22:56:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 90
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	48718.510	0.05				ug/L
|	Be	9	8.667	-0.00	0.0533	0.003	6.005	ug/L
|	Al	27	1219172.696	4.06	173.8014	21.719	12.496	ug/L
⌊>	Sc	45	298318.439	298318.44				ug/L
⌈	Ti	49	3034.099	0.01	4.7813	0.444	9.283	ug/L
|	V	51	13089.785	0.03	1.0883	0.030	2.729	ug/L
|	Cr	52	22858.325	0.04	1.7980	0.040	2.247	ug/L
|	Cr	53	3014.089	0.01	2.8027	0.069	2.467	ug/L
|	Mn	55	4283495.748	10.69	339.1537	2.782	0.820	ug/L
|	Co	59	23533.897	0.06	2.1578	0.028	1.284	ug/L
|	Ni	60	16574.896	0.04	7.2473	0.192	2.649	ug/L
|	Cu	65	2531.679	0.01	1.0171	0.025	2.454	ug/L
|	Zn	66	5981.849	0.01	3.6249	0.099	2.735	ug/L
|>	Ge	72	400694.908	400694.91				ug/L
|	As	75	4408.497	0.01	5.1873	0.071	1.365	ug/L
|	Se	77	183.353	0.00	1.9369	0.388	20.052	ug/L
|	Se	82	127.032	0.00	1.5989	0.093	5.790	ug/L
⌊	Rb	85	7421.828	0.02				mg/L
	Y	89	235907.476	-14886.62				ug/L
	Rh	103	77.001	58.00				ug/L
⌈	Mo	98	2638.680	0.01	1.2542	0.020	1.564	ug/L
|	Ag	107	53.334	-0.00	-0.0654	0.001	1.892	ug/L
|	Cd	114	110.929	0.00	0.0914	0.006	6.447	ug/L
|>	In	115	321930.728	321930.73				ug/L
|	Sn	118	1030.453	-0.00	-0.0188	0.020	104.666	ug/L
⌊	Sb	123	493.889	0.00	0.1545	0.009	5.988	ug/L
⌈	Ba	135	44856.163	0.10	25.3371	0.402	1.589	ug/L
|	Ce	140	9772.417	0.02				ug/L
⌊>	Tb	159	460849.910	460849.91				ug/L
⌈	Ho	165	183.353	0.00				ug/L
|	Tl	203	305.674	0.00	0.0551	0.004	6.851	ug/L
|	Tl	205	773.441	0.00	0.0503	0.005	10.789	ug/L
|	Pb	206	2826.428	0.01	0.4911	0.009	1.831	ug/L
|	Pb	207	2347.299	0.01	0.4527	0.020	4.461	ug/L
|	Pb	208	11035.503	0.03	0.4646	0.008	1.634	ug/L
|	U	238	212719.842	0.60	6.7305	0.037	0.545	ug/L
⌊>	Bi	209	351864.539	351864.54				ug/L

Sample ID: L1011067804
Report Date/Time: Wednesday, November 24, 2010 22:58:25
Page 1

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	86877757.612	291.28	20.9613	0.381	1.817	mg/L
|	K	39	71016844.760	236.54	6.8473	0.207	3.025	mg/L
|	Ca	43	2285536.181	7.66	106.2514	3.351	3.153	mg/L
|	Fe	54	2289157.809	7.49	3.0110	0.064	2.134	mg/L
|	Fe	57	994707.143	3.31	3.3274	0.042	1.261	mg/L
⌊>	Sc-1	45	298318.439	298318.44				mg/L
	Cl	35	2077217.818	2052091.62				mg/L
	Kr	83	35.000	-10.33				mg/L
	Br	81	62298.128	53464.89				mg/L
	P	31	26429.136	15934.92				mg/L
	S	34	1818620.963	1645462.16				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.800			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.916			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.955			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		81.320			
⌈	Na	23					

Sample ID: L1011067804
Report Date/Time: Wednesday, November 24, 2010 22:58:25
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067806

Sample Date/Time: Wednesday, November 24, 2010 23:03:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 91
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	54598.984	0.08				ug/L
|	Be	9	5.333	-0.00	0.0454	0.008	16.798	ug/L
|	Al	27	73082.912	0.23	9.8478	0.309	3.135	ug/L
⌊>	Sc	45	290063.463	290063.46				ug/L
⌈	Ti	49	1260.206	0.00	1.9278	0.168	8.724	ug/L
|	V	51	4521.551	0.01	0.2099	0.022	10.252	ug/L
|	Cr	52	15623.687	0.02	0.9352	0.032	3.393	ug/L
|	Cr	53	2260.483	0.00	2.0323	0.189	9.284	ug/L
|	Mn	55	228386.599	0.58	18.2372	0.102	0.560	ug/L
|	Co	59	2684.054	0.01	0.2290	0.004	1.676	ug/L
|	Ni	60	9485.593	0.02	4.1778	0.093	2.222	ug/L
|	Cu	65	1486.459	0.00	0.5764	0.017	2.882	ug/L
|	Zn	66	2755.407	0.00	1.1825	0.065	5.539	ug/L
|>	Ge	72	396547.036	396547.04				ug/L
|	As	75	250.155	0.00	0.5130	0.183	35.753	ug/L
|	Se	77	1830.351	0.00	28.2361	1.759	6.228	ug/L
|	Se	82	2178.629	0.01	27.2313	0.595	2.185	ug/L
⌊	Rb	85	8446.650	0.02				mg/L
	Y	89	231839.733	-18954.37				ug/L
	Rh	103	78.334	59.33				ug/L
⌈	Mo	98	6830.003	0.02	3.2174	0.048	1.503	ug/L
|	Ag	107	32.667	-0.00	-0.0700	0.001	1.219	ug/L
|	Cd	114	40.581	0.00	0.0243	0.018	73.049	ug/L
|>	In	115	321528.511	321528.51				ug/L
|	Sn	118	1086.193	0.00	-0.0033	0.024	717.596	ug/L
⌊	Sb	123	197.957	0.00	0.0637	0.003	4.198	ug/L
⌈	Ba	135	45942.761	0.10	26.1600	0.208	0.794	ug/L
|	Ce	140	596.744	0.00				ug/L
⌊>	Tb	159	457134.026	457134.03				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	701.032	0.00	0.1232	0.005	4.337	ug/L
|	Tl	205	1630.297	0.00	0.1105	0.012	10.466	ug/L
|	Pb	206	500.018	-0.00	0.0010	0.004	415.709	ug/L
|	Pb	207	419.013	0.00	0.0062	0.002	28.711	ug/L
|	Pb	208	1961.429	-0.00	0.0021	0.002	90.563	ug/L
|	U	238	38720.542	0.11	1.2272	0.004	0.301	ug/L
⌊>	Bi	209	352725.880	352725.88				ug/L

Sample ID: L1011067806
Report Date/Time: Wednesday, November 24, 2010 23:05:14
Page 1

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	63004588.510	217.21	15.6303	0.069	0.444	mg/L
|	K	39	106152235.786	364.36	10.5486	0.051	0.482	mg/L
|	Ca	43	1273082.601	4.39	60.8464	0.984	1.617	mg/L
|	Fe	54	107846.281	0.19	0.0777	0.001	1.721	mg/L
|	Fe	57	64000.826	0.20	0.1934	0.010	5.270	mg/L
⌊>	Sc-1	45	290063.463	290063.46				mg/L
	Cl	35	1644598.515	1619472.32				mg/L
	Kr	83	35.000	-10.33				mg/L
	Br	81	72674.480	63841.24				mg/L
	P	31	22851.479	12357.27				mg/L
	S	34	1725356.673	1552197.87				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.860			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.792			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.077			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		81.519			
⌈	Na	23					

Sample ID: L1011067806
Report Date/Time: Wednesday, November 24, 2010 23:05:14
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011067806
Report Date/Time: Wednesday, November 24, 2010 23:05:14
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067807

Sample Date/Time: Wednesday, November 24, 2010 23:09:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 92
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	63735.870	0.10				ug/L
|	Be	9	6.667	-0.00	0.0486	0.003	6.366	ug/L
|	Al	27	49405.234	0.15	6.2544	0.387	6.187	ug/L
⌊>	Sc	45	294353.860	294353.86				ug/L
⌈	Ti	49	1363.563	0.00	2.0899	0.174	8.304	ug/L
|	V	51	8431.676	0.01	0.6149	0.022	3.511	ug/L
|	Cr	52	26619.329	0.05	2.2825	0.084	3.702	ug/L
|	Cr	53	2043.747	0.00	1.7963	0.103	5.756	ug/L
|	Mn	55	237113.564	0.60	18.8877	0.218	1.156	ug/L
|	Co	59	3430.289	0.01	0.2980	0.007	2.247	ug/L
|	Ni	60	9232.686	0.02	4.0549	0.042	1.031	ug/L
|	Cu	65	2691.056	0.01	1.0945	0.006	0.537	ug/L
|	Zn	66	2855.436	0.00	1.2540	0.045	3.595	ug/L
|>	Ge	72	397574.554	397574.55				ug/L
|	As	75	3761.636	0.01	4.4977	0.828	18.409	ug/L
|	Se	77	6632.863	0.02	104.5357	2.070	1.980	ug/L
|	Se	82	8417.343	0.02	104.8621	2.317	2.210	ug/L
⌊	Rb	85	5472.885	0.01				mg/L
	Y	89	232757.526	-18036.57				ug/L
	Rh	103	108.335	89.33				ug/L
⌈	Mo	98	60860.559	0.19	28.0275	0.342	1.219	ug/L
|	Ag	107	34.000	-0.00	-0.0698	0.001	1.910	ug/L
|	Cd	114	70.183	0.00	0.0516	0.013	25.388	ug/L
|>	In	115	327016.661	327016.66				ug/L
|	Sn	118	1105.395	0.00	-0.0031	0.023	761.238	ug/L
⌊	Sb	123	53743.663	0.16	16.2393	0.122	0.749	ug/L
⌈	Ba	135	50439.394	0.11	28.4782	0.121	0.427	ug/L
|	Ce	140	550.071	0.00				ug/L
⌊>	Tb	159	461035.718	461035.72				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	653.695	0.00	0.1146	0.004	3.882	ug/L
|	Tl	205	1606.957	0.00	0.1083	0.005	4.995	ug/L
|	Pb	206	515.352	0.00	0.0037	0.005	132.814	ug/L
|	Pb	207	448.348	0.00	0.0125	0.003	22.847	ug/L
|	Pb	208	2089.774	0.00	0.0082	0.003	37.136	ug/L
|	U	238	87707.829	0.25	2.7603	0.020	0.728	ug/L
⌊>	Bi	209	354223.787	354223.79				ug/L

Sample ID: L1011067807
Report Date/Time: Wednesday, November 24, 2010 23:12:02
Page 1

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	66324863.863	225.38	16.2184	0.344	2.121	mg/L
|	K	39	153564040.663	520.20	15.0613	0.302	2.004	mg/L
|	Ca	43	1103753.137	3.75	51.9926	0.925	1.779	mg/L
|	Fe	54	107114.813	0.18	0.0745	0.005	6.185	mg/L
|	Fe	57	61259.908	0.18	0.1809	0.008	4.576	mg/L
⌊>	Sc-1	45	294353.860	294353.86				mg/L
	Cl	35	853959.877	828833.68				mg/L
	Kr	83	36.000	-9.33				mg/L
	Br	81	83790.421	74957.18				mg/L
	P	31	23337.263	12843.05				mg/L
	S	34	1981982.607	1808823.81				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.093			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.478			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.999			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		81.866			
⌈	Na	23					

Sample ID: L1011067807
Report Date/Time: Wednesday, November 24, 2010 23:12:02
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Se 82 Upper, S, EEE	Se	82	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067808

Sample Date/Time: Wednesday, November 24, 2010 23:16:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 93
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	98364.961	0.23				ug/L
|	Be	9	4.667	-0.00	0.0440	0.006	13.372	ug/L
|	Al	27	870418.887	3.02	129.2849	2.492	1.927	ug/L
⌊>	Sc	45	285896.403	285896.40				ug/L
⌈	Ti	49	4137.974	0.01	6.8271	1.792	26.251	ug/L
|	V	51	9843.683	0.02	0.7931	0.084	10.604	ug/L
|	Cr	52	18906.053	0.03	1.4046	0.095	6.791	ug/L
|	Cr	53	3407.588	0.01	3.3542	0.023	0.691	ug/L
|	Mn	55	173843.911	0.45	14.2557	0.118	0.828	ug/L
|	Co	59	5361.824	0.01	0.4934	0.002	0.365	ug/L
|	Ni	60	11358.903	0.03	5.1470	0.206	4.003	ug/L
|	Cu	65	5561.602	0.01	2.4053	0.019	0.775	ug/L
|	Zn	66	4081.874	0.01	2.2919	0.076	3.311	ug/L
|>	Ge	72	385947.800	385947.80				ug/L
|	As	75	1264.318	0.00	1.7028	0.359	21.095	ug/L
|	Se	77	7440.179	0.02	120.9384	3.654	3.021	ug/L
|	Se	82	9145.928	0.02	117.3707	2.436	2.075	ug/L
⌊	Rb	85	4169.911	0.01				mg/L
	Y	89	220885.241	-29908.86				ug/L
	Rh	103	140.336	121.34				ug/L
⌈	Mo	98	39168.415	0.13	19.7651	0.244	1.235	ug/L
|	Ag	107	42.001	-0.00	-0.0672	0.001	0.942	ug/L
|	Cd	114	51.064	0.00	0.0381	0.003	7.767	ug/L
|>	In	115	298524.384	298524.38				ug/L
|	Sn	118	2714.376	0.01	0.4997	0.132	26.492	ug/L
⌊	Sb	123	11002.445	0.04	3.6442	0.036	0.997	ug/L
⌈	Ba	135	36010.755	0.08	21.6539	0.353	1.631	ug/L
|	Ce	140	4801.680	0.01				ug/L
⌊>	Tb	159	432864.092	432864.09				ug/L
⌈	Ho	165	80.008	0.00				ug/L
|	Tl	203	759.703	0.00	0.1504	0.002	1.538	ug/L
|	Tl	205	1750.329	0.01	0.1348	0.010	7.324	ug/L
|	Pb	206	974.724	0.00	0.1273	0.006	4.830	ug/L
|	Pb	207	804.040	0.00	0.1192	0.009	7.922	ug/L
|	Pb	208	3839.664	0.01	0.1229	0.006	5.069	ug/L
|	U	238	139042.353	0.45	4.9605	0.014	0.284	ug/L
⌊>	Bi	209	312163.617	312163.62				ug/L

Sample ID: L1011067808
Report Date/Time: Wednesday, November 24, 2010 23:18:51
Page 1

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	77958341.200	272.71	19.6245	0.344	1.751	mg/L
|	K	39	192645879.281	672.30	19.4657	0.454	2.331	mg/L
|	Ca	43	1247530.800	4.36	60.4961	0.680	1.123	mg/L
|	Fe	54	222706.333	0.59	0.2413	0.008	3.258	mg/L
|	Fe	57	121121.769	0.40	0.3977	0.014	3.600	mg/L
⌊>	Sc-1	45	285896.403	285896.40				mg/L
	Cl	35	2141296.304	2116170.11				mg/L
	Kr	83	44.334	-1.00				mg/L
	Br	81	135742.524	126909.29				mg/L
	P	31	24785.531	14291.32				mg/L
	S	34	2448649.701	2275490.90				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.458			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.724			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.339			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		72.145			
⌈	Na	23					

Sample ID: L1011067808
Report Date/Time: Wednesday, November 24, 2010 23:18:51
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Se 82 Upper, S, EEE	Se	82	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067809

Sample Date/Time: Wednesday, November 24, 2010 23:23:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 94
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	50946.255	0.06				ug/L
|	Be	9	5.333	-0.00	0.0450	0.007	16.337	ug/L
|	Al	27	557500.492	1.84	78.7632	2.707	3.436	ug/L
⌊>	Sc	45	299124.785	299124.78				ug/L
⌈	Ti	49	3414.580	0.01	5.0593	4.724	93.366	ug/L
|	V	51	7269.061	0.01	0.4433	0.010	2.282	ug/L
|	Cr	52	14882.215	0.01	0.7156	0.011	1.515	ug/L
|	Cr	53	2313.833	0.00	1.9180	0.166	8.650	ug/L
|	Mn	55	4734877.540	11.11	352.3505	2.496	0.708	ug/L
|	Co	59	14071.372	0.03	1.2028	0.034	2.794	ug/L
|	Ni	60	12014.667	0.03	4.9274	0.055	1.110	ug/L
|	Cu	65	1475.790	0.00	0.5272	0.013	2.532	ug/L
|	Zn	66	3987.168	0.01	1.9180	0.013	0.687	ug/L
|>	Ge	72	426324.478	426324.48				ug/L
|	As	75	474.929	0.00	0.7300	0.119	16.324	ug/L
|	Se	77	360.043	0.00	4.3831	1.030	23.508	ug/L
|	Se	82	392.720	0.00	4.5901	0.201	4.390	ug/L
⌊	Rb	85	6787.704	0.02				mg/L
	Y	89	245948.871	-4845.23				ug/L
	Rh	103	55.334	36.33				ug/L
⌈	Mo	98	8161.978	0.02	3.5214	0.055	1.570	ug/L
|	Ag	107	27.334	-0.00	-0.0717	0.000	0.635	ug/L
|	Cd	114	63.897	0.00	0.0415	0.007	16.851	ug/L
|>	In	115	350878.114	350878.11				ug/L
|	Sn	118	1146.466	0.00	-0.0129	0.014	110.801	ug/L
⌊	Sb	123	512.139	0.00	0.1471	0.007	4.631	ug/L
⌈	Ba	135	53436.260	0.11	28.3078	0.093	0.328	ug/L
|	Ce	140	3320.884	0.01				ug/L
⌊>	Tb	159	491372.073	491372.07				ug/L
⌈	Ho	165	60.006	0.00				ug/L
|	Tl	203	776.371	0.00	0.1283	0.003	2.592	ug/L
|	Tl	205	1830.351	0.00	0.1169	0.006	5.242	ug/L
|	Pb	206	5552.263	0.01	0.9940	0.028	2.859	ug/L
|	Pb	207	4779.857	0.01	0.9481	0.028	2.927	ug/L
|	Pb	208	22247.002	0.05	0.9665	0.017	1.731	ug/L
|	U	238	48947.994	0.13	1.4592	0.019	1.306	ug/L
⌊>	Bi	209	374742.917	374742.92				ug/L

Sample ID: L1011067809
Report Date/Time: Wednesday, November 24, 2010 23:25:40
Page 1

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	45349288.494	151.63	10.9103	0.295	2.705	mg/L
|	K	39	71868573.003	238.70	6.9097	0.140	2.023	mg/L
|	Ca	43	888526.358	2.97	41.1791	1.019	2.473	mg/L
|	Fe	54	206302.017	0.50	0.2053	0.005	2.213	mg/L
|	Fe	57	97200.200	0.30	0.2984	0.013	4.233	mg/L
⌊>	Sc-1	45	299124.785	299124.78				mg/L
	Cl	35	1405383.130	1380256.93				mg/L
	Kr	83	33.667	-11.67				mg/L
	Br	81	81739.385	72906.15				mg/L
	P	31	26697.782	16203.57				mg/L
	S	34	1208571.037	1035412.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.608			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.810			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		116.172			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		86.608			
⌈	Na	23					

Sample ID: L1011067809
Report Date/Time: Wednesday, November 24, 2010 23:25:40
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067810

Sample Date/Time: Wednesday, November 24, 2010 23:30:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 95
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

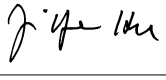
User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	53090.588	0.07				ug/L
|	Be	9	8.000	-0.00	0.0513	0.021	40.487	ug/L
|	Al	27	233112.143	0.77	32.7039	13.986	42.765	ug/L
⌊>	Sc	45	298663.171	298663.17				ug/L
⌈	Ti	49	1066.836	0.00	1.4996	0.655	43.690	ug/L
|	V	51	6503.727	0.01	0.3728	0.011	2.986	ug/L
|	Cr	52	17178.248	0.02	0.9901	0.013	1.360	ug/L
|	Cr	53	1023.489	0.00	0.6458	0.150	23.245	ug/L
|	Mn	55	1795660.229	4.24	134.3616	1.588	1.182	ug/L
|	Co	59	7967.253	0.02	0.6753	0.010	1.434	ug/L
|	Ni	60	8170.752	0.02	3.3605	0.037	1.090	ug/L
|	Cu	65	1411.781	0.00	0.5046	0.029	5.831	ug/L
|	Zn	66	2548.017	0.00	0.8953	0.064	7.107	ug/L
|>	Ge	72	423904.160	423904.16				ug/L
|	As	75	694.505	0.00	0.9663	0.054	5.597	ug/L
|	Se	77	3090.787	0.01	45.1427	1.094	2.423	ug/L
|	Se	82	3884.572	0.01	45.3990	0.451	0.994	ug/L
⌊	Rb	85	7136.951	0.02				mg/L
	Y	89	247168.829	-3625.27				ug/L
	Rh	103	41.667	22.67				ug/L
⌈	Mo	98	13505.478	0.04	5.6287	0.075	1.333	ug/L
|	Ag	107	29.000	-0.00	-0.0715	0.001	1.057	ug/L
|	Cd	114	48.255	0.00	0.0264	0.016	61.535	ug/L
|>	In	115	362439.307	362439.31				ug/L
|	Sn	118	852.970	-0.00	-0.0935	0.003	3.284	ug/L
⌊	Sb	123	530.723	0.00	0.1475	0.001	0.760	ug/L
⌈	Ba	135	38858.074	0.08	20.1712	0.131	0.652	ug/L
|	Ce	140	1200.192	0.00				ug/L
⌊>	Tb	159	501392.255	501392.26				ug/L
⌈	Ho	165	60.006	0.00				ug/L
|	Tl	203	1062.734	0.00	0.1700	0.010	5.864	ug/L
|	Tl	205	2457.214	0.01	0.1539	0.006	4.211	ug/L
|	Pb	206	627.359	0.00	0.0164	0.008	51.196	ug/L
|	Pb	207	515.352	0.00	0.0183	0.004	23.809	ug/L
|	Pb	208	2460.144	0.00	0.0168	0.002	14.716	ug/L
|	U	238	38149.012	0.10	1.1065	0.004	0.340	ug/L
⌊>	Bi	209	385647.172	385647.17				ug/L

Sample ID: L1011067810
Report Date/Time: Wednesday, November 24, 2010 23:32:25
Page 1

Approved: November 29, 2010



⌈	Na	23	436949467.757	1463.40	69.4853	1.261	1.815	mg/L
|	Mg	24	36653726.493	122.76	8.8322	0.160	1.811	mg/L
|	K	39	67196875.609	223.42	6.4671	0.046	0.710	mg/L
|	Ca	43	648172.831	2.17	30.0879	0.383	1.271	mg/L
|	Fe	54	129122.560	0.25	0.1021	0.006	6.145	mg/L
|	Fe	57	51830.269	0.15	0.1458	0.015	10.403	mg/L
⌊>	Sc-1	45	298663.171	298663.17				mg/L
	Cl	35	314314.176	289187.98				mg/L
	Kr	83	26.667	-18.67				mg/L
	Br	81	60698.379	51865.14				mg/L
	P	31	27923.017	17428.81				mg/L
	S	34	1002160.952	829002.15				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.059			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.362			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		118.541			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.128			
⌈	Na	23					

Sample ID: L1011067810
Report Date/Time: Wednesday, November 24, 2010 23:32:25
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011067811

Sample Date/Time: Wednesday, November 24, 2010 23:37:00
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 96
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	68735.423	0.14				ug/L
|	Be	9	7.333	-0.00	0.0517	0.016	30.177	ug/L
|	Al	27	703182.153	2.56	109.3566	9.679	8.851	ug/L
⌊>	Sc	45	272547.622	272547.62				ug/L
⌈	Ti	49	3414.314	0.01	5.6359	2.170	38.510	ug/L
|	V	51	10961.636	0.02	0.9200	0.039	4.280	ug/L
|	Cr	52	25692.888	0.05	2.2850	0.039	1.712	ug/L
|	Cr	53	2317.168	0.01	2.1770	0.165	7.564	ug/L
|	Mn	55	1624491.547	4.24	134.3889	1.164	0.866	ug/L
|	Co	59	7998.945	0.02	0.7521	0.008	1.110	ug/L
|	Ni	60	11506.398	0.03	5.2493	0.094	1.781	ug/L
|	Cu	65	2863.105	0.01	1.2145	0.040	3.303	ug/L
|	Zn	66	3845.444	0.01	2.1255	0.077	3.601	ug/L
|>	Ge	72	383445.579	383445.58				ug/L
|	As	75	4452.551	0.01	5.4663	0.781	14.281	ug/L
|	Se	77	27400.231	0.07	450.8569	5.514	1.223	ug/L
|	Se	82	33139.281	0.09	427.9333	3.271	0.764	ug/L
⌊	Rb	85	8536.062	0.02				mg/L
	Y	89	222044.163	-28749.94				ug/L
	Rh	103	87.335	68.33				ug/L
⌈	Mo	98	76566.971	0.25	36.9040	0.429	1.162	ug/L
|	Ag	107	23.334	-0.00	-0.0719	0.001	0.917	ug/L
|	Cd	114	106.389	0.00	0.0903	0.012	13.126	ug/L
|>	In	115	312399.526	312399.53				ug/L
|	Sn	118	1033.253	0.00	-0.0094	0.005	51.150	ug/L
⌊	Sb	123	248579.370	0.80	78.6219	0.728	0.926	ug/L
⌈	Ba	135	73240.971	0.16	42.7706	0.607	1.420	ug/L
|	Ce	140	3834.453	0.01				ug/L
⌊>	Tb	159	445850.078	445850.08				ug/L
⌈	Ho	165	90.009	0.00				ug/L
|	Tl	203	799.373	0.00	0.1460	0.004	2.414	ug/L
|	Tl	205	1963.723	0.01	0.1398	0.013	9.034	ug/L
|	Pb	206	1231.088	0.00	0.1656	0.021	12.502	ug/L
|	Pb	207	994.393	0.00	0.1488	0.015	10.031	ug/L
|	Pb	208	4774.165	0.01	0.1554	0.012	7.576	ug/L
|	U	238	94648.098	0.28	3.1175	0.055	1.774	ug/L
⌊>	Bi	209	338405.676	338405.68				ug/L

Sample ID: L1011067811
Report Date/Time: Wednesday, November 24, 2010 23:39:11
Page 1

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	61890878.058	227.09	16.3410	0.120	0.732	mg/L
|	K	39	102911826.078	376.04	10.8867	0.274	2.514	mg/L
|	Ca	43	968399.960	3.55	49.2624	1.780	3.612	mg/L
|	Fe	54	239066.417	0.69	0.2806	0.006	2.256	mg/L
|	Fe	57	111499.533	0.38	0.3831	0.011	2.770	mg/L
⌊>	Sc-1	45	272547.622	272547.62				mg/L
	Cl	35	1087968.237	1062842.04				mg/L
	Kr	83	38.000	-7.33				mg/L
	Br	81	59285.914	50452.68				mg/L
	P	31	24346.963	13852.75				mg/L
	S	34	1797633.053	1624474.25				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.891			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.987			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.409			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		78.210			
⌈	Na	23					

Sample ID: L1011067811
Report Date/Time: Wednesday, November 24, 2010 23:39:11
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Se 82 Upper, S, EEE	Se	82	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, November 24, 2010 23:43:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	48684.923	0.05				ug/L
|	Be	9	23555.711	0.08	57.7217	1.649	2.857	ug/L
|	Al	27	360173.823	1.19	50.9201	2.448	4.807	ug/L
⌊>	Sc	45	297289.487	297289.49				ug/L
⌈	Ti	49	65715.219	0.15	94.8584	1.566	1.651	ug/L
|	V	51	541593.170	1.20	49.5505	0.467	0.942	ug/L
|	Cr	52	469308.806	1.03	50.1079	0.392	0.782	ug/L
|	Cr	53	53461.211	0.12	49.9050	0.294	0.589	ug/L
|	Mn	55	755836.295	1.68	53.3747	0.117	0.218	ug/L
|	Co	59	638633.563	1.42	52.7708	0.418	0.793	ug/L
|	Ni	60	135286.704	0.30	52.9804	0.243	0.459	ug/L
|	Cu	65	133170.244	0.30	50.8071	0.136	0.268	ug/L
|	Zn	66	75986.714	0.17	50.8509	0.246	0.485	ug/L
| >	Ge	72	449005.846	449005.85				ug/L
|	As	75	48555.412	0.11	48.9803	0.770	1.572	ug/L
|	Se	77	3724.400	0.01	51.5158	2.928	5.684	ug/L
|	Se	82	4788.951	0.01	52.8431	1.018	1.926	ug/L
⌊	Rb	85	1871.194	0.00				mg/L
	Y	89	255813.641	5019.54				ug/L
	Rh	103	25.334	6.33				ug/L
⌈	Mo	98	213382.603	0.57	85.9703	0.379	0.441	ug/L
|	Ag	107	249594.789	0.67	47.6871	0.622	1.304	ug/L
|	Cd	114	60511.452	0.16	49.7402	0.320	0.643	ug/L
| >	In	115	373587.815	373587.82				ug/L
|	Sn	118	204202.485	0.54	47.8582	0.277	0.578	ug/L
⌊	Sb	123	171616.796	0.46	45.3868	0.605	1.332	ug/L
⌈	Ba	135	84594.238	0.17	43.2157	0.652	1.509	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	509577.995	509578.00				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	357458.328	0.82	50.1486	0.499	0.996	ug/L
|	Tl	205	879056.741	2.03	50.2605	0.516	1.027	ug/L
|	Pb	206	290148.912	0.67	49.4368	0.616	1.247	ug/L
|	Pb	207	271394.083	0.62	50.8276	0.585	1.150	ug/L
|	Pb	208	1210181.359	2.78	49.8799	0.513	1.029	ug/L
|	U	238	1876637.462	4.32	48.1029	0.211	0.439	ug/L
⌊>	Bi	209	433994.587	433994.59				ug/L

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 23:45:57
Page 1

Approved: November 29, 2010

Na	23	33443305.811	112.48	5.3387	0.120	2.252	mg/L
Mg	24	21330127.385	71.77	5.1628	0.121	2.342	mg/L
K	39	51153325.374	170.48	4.9342	0.038	0.769	mg/L
Ca	43	108954.682	0.37	5.0737	0.091	1.802	mg/L
Fe	54	3829069.937	12.70	5.1034	0.128	2.509	mg/L
Fe	57	1568399.577	5.25	5.2813	0.109	2.064	mg/L
Sc-1	45	297289.487	297289.49				mg/L
Cl	35	30868.238	5742.04				mg/L
Kr	83	29.667	-15.67				mg/L
Br	81	23501.584	14668.35				mg/L
P	31	16309.421	5815.21				mg/L
S	34	246912.993	73754.19				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	99.101				
Cr	52	100.216				
Cr	53					
Mn	55	106.749				
Co	59	105.542				
Ni	60	105.961				
Cu	65	101.614				
Zn	66	101.702				
Ge	72		101.748			
As	75	97.961				
Se	77					
Se	82	105.686				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	95.374				
Cd	114	99.480				
In	115		114.788			
Sn	118					
Sb	123	90.774				
Ba	135	86.431				
Ce	140					
Tb	159		120.476			
Ho	165					
Tl	203	100.297				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.760				
U	238	96.206				
Bi	209		100.302			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 23:45:57

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Ba	135	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
Tb 159 Int Std for QC	Tb	159	Rerun for AFCEE QC

Sample ID: QC Std 6
Report Date/Time: Wednesday, November 24, 2010 23:45:57

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, November 24, 2010 23:50:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	50477.283	0.06				ug/L
|	Be	9	4.667	-0.00	0.0437	0.010	23.594	ug/L
|	Al	27	7002.470	0.00	0.0852	0.096	112.710	ug/L
⌊>	Sc	45	295915.546	295915.55				ug/L
⌈	Ti	49	30.003	-0.00	-0.0928	0.014	15.524	ug/L
|	V	51	2802.804	-0.00	-0.0061	0.008	137.949	ug/L
|	Cr	52	9067.533	-0.00	-0.0154	0.003	22.312	ug/L
|	Cr	53	340.040	-0.00	-0.0577	0.078	134.620	ug/L
|	Mn	55	378.011	0.00	-0.0101	0.001	9.189	ug/L
|	Co	59	215.004	-0.00	-0.0047	0.001	16.780	ug/L
|	Ni	60	26.000	-0.00	-0.0206	0.003	13.178	ug/L
|	Cu	65	128.002	-0.00	-0.0183	0.003	17.455	ug/L
|	Zn	66	685.697	-0.00	-0.4824	0.011	2.356	ug/L
|>	Ge	72	454349.984	454349.98				ug/L
|	As	75	-116.253	0.00	0.1125	0.046	40.924	ug/L
|	Se	77	53.339	-0.00	-0.2124	0.218	102.532	ug/L
|	Se	82	38.806	0.00	0.4529	0.121	26.803	ug/L
⌊	Rb	85	16.000	0.00				mg/L
	Y	89	259654.525	8860.43				ug/L
	Rh	103	3.667	-15.33				ug/L
⌈	Mo	98	94.750	0.00	0.0581	0.003	5.773	ug/L
|	Ag	107	28.667	-0.00	-0.0719	0.001	0.893	ug/L
|	Cd	114	14.896	0.00	-0.0025	0.007	289.880	ug/L
|>	In	115	382800.264	382800.26				ug/L
|	Sn	118	976.581	-0.00	-0.0760	0.011	14.362	ug/L
⌊	Sb	123	291.504	0.00	0.0782	0.004	5.560	ug/L
⌈	Ba	135	17.334	-0.00	-0.0012	0.005	416.047	ug/L
|	Ce	140	33.337	-0.00				ug/L
⌊>	Tb	159	515845.355	515845.36				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	23.000	-0.00	0.0053	0.000	8.108	ug/L
|	Tl	205	53.339	-0.00	-0.0013	0.002	142.397	ug/L
|	Pb	206	455.015	-0.00	-0.0296	0.001	2.504	ug/L
|	Pb	207	382.678	-0.00	-0.0217	0.002	10.298	ug/L
|	Pb	208	1833.086	-0.00	-0.0250	0.001	4.180	ug/L
|	U	238	88.335	0.00	0.0084	0.000	4.244	ug/L
⌊>	Bi	209	452825.006	452825.01				ug/L

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 23:52:40
Page 1

Approved: November 29, 2010

Na	23	52328.455	0.13	0.0038	0.000	6.962	mg/L
Mg	24	1276.876	0.00	-0.0027	0.000	0.373	mg/L
K	39	425287.082	-0.16	-0.0070	0.001	7.443	mg/L
Ca	43	156.684	-0.00	-0.0011	0.000	35.229	mg/L
Fe	54	58129.842	0.01	0.0072	0.002	23.451	mg/L
Fe	57	8794.752	0.00	0.0013	0.001	104.636	mg/L
Sc-1	45	295915.546	295915.55				mg/L
Cl	35	29029.409	3903.21				mg/L
Kr	83	22.334	-23.00				mg/L
Br	81	22058.305	13225.07				mg/L
P	31	16968.466	6474.25				mg/L
S	34	249543.529	76384.73				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		102.959			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		117.618			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		121.958			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		104.654			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Wednesday, November 24, 2010 23:52:40

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 7	Se	82	CCB IS OUT OF LIMITS (+/-1/2RL)
Tb 159 Int Std for QC	Tb	159	Rerun for AFCEE QC

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011077401

Sample Date/Time: Wednesday, November 24, 2010 23:57:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 97
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	50360.047	0.06				ug/L
|	Be	9	4.667	-0.00	0.0437	0.008	17.742	ug/L
|	Al	27	95737.617	0.30	12.7814	7.394	57.846	ug/L
⌊>	Sc	45	295556.733	295556.73				ug/L
⌈	Ti	49	786.780	0.00	1.0982	0.511	46.524	ug/L
|	V	51	5246.007	0.01	0.2626	0.020	7.440	ug/L
|	Cr	52	16887.417	0.02	1.0037	0.007	0.681	ug/L
|	Cr	53	883.461	0.00	0.5272	0.070	13.362	ug/L
|	Mn	55	18971.169	0.05	1.4178	0.007	0.490	ug/L
|	Co	59	1068.068	0.00	0.0735	0.000	0.313	ug/L
|	Ni	60	4554.082	0.01	1.9053	0.026	1.382	ug/L
|	Cu	65	1383.443	0.00	0.5068	0.009	1.811	ug/L
|	Zn	66	2587.027	0.00	0.9688	0.030	3.071	ug/L
|>	Ge	72	413875.526	413875.53				ug/L
|	As	75	390.289	0.00	0.6537	0.244	37.345	ug/L
|	Se	77	4925.046	0.01	74.3110	7.884	10.609	ug/L
|	Se	82	5840.469	0.01	69.8976	0.934	1.337	ug/L
⌊	Rb	85	2013.556	0.00				mg/L
	Y	89	237398.362	-13395.74				ug/L
	Rh	103	56.001	37.00				ug/L
⌈	Mo	98	15888.261	0.05	6.8329	0.065	0.955	ug/L
|	Ag	107	22.334	-0.00	-0.0727	0.001	1.574	ug/L
|	Cd	114	49.489	0.00	0.0289	0.009	32.383	ug/L
|>	In	115	350967.145	350967.15				ug/L
|	Sn	118	850.436	-0.00	-0.0873	0.002	2.767	ug/L
⌊	Sb	123	17631.748	0.05	4.9662	0.046	0.923	ug/L
⌈	Ba	135	34456.273	0.07	18.2048	0.305	1.678	ug/L
|	Ce	140	273.365	0.00				ug/L
⌊>	Tb	159	492625.530	492625.53				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	262.339	0.00	0.0442	0.002	4.004	ug/L
|	Tl	205	643.419	0.00	0.0377	0.005	14.306	ug/L
|	Pb	206	492.017	-0.00	-0.0083	0.003	32.139	ug/L
|	Pb	207	387.345	-0.00	-0.0077	0.003	35.099	ug/L
|	Pb	208	1870.087	-0.00	-0.0095	0.002	17.465	ug/L
|	U	238	21354.991	0.06	0.6301	0.001	0.217	ug/L
⌊>	Bi	209	380692.478	380692.48				ug/L

Approved: November 29, 2010

⌈	Na	23	276298760.372	935.33	44.4107	1.250	2.814	mg/L
|	Mg	24	34604276.798	117.11	8.4260	0.148	1.753	mg/L
|	K	39	58506685.940	196.43	5.6857	0.151	2.662	mg/L
|	Ca	43	589511.156	1.99	27.6543	0.626	2.262	mg/L
|	Fe	54	106135.996	0.17	0.0727	0.006	8.130	mg/L
|	Fe	57	39317.836	0.11	0.1053	0.007	6.785	mg/L
⌊>	Sc-1	45	295556.733	295556.73				mg/L
	Cl	35	224153.834	199027.64				mg/L
	Kr	83	36.334	-9.00				mg/L
	Br	81	41376.789	32543.55				mg/L
	P	31	29484.178	18989.97				mg/L
	S	34	855042.198	681883.40				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.787			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.837			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		116.468			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		87.983			
⌈	Na	23					

Sample ID: L1011077401
Report Date/Time: Wednesday, November 24, 2010 23:59:27
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011077402

Sample Date/Time: Thursday, November 25, 2010 00:04:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 98
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	52487.474	0.07				ug/L
|	Be	9	3.333	-0.00	0.0405	0.006	14.359	ug/L
|	Al	27	272819.398	0.92	39.4623	2.408	6.102	ug/L
⌊>	Sc	45	288640.750	288640.75				ug/L
⌈	Ti	49	813.448	0.00	1.2024	0.155	12.873	ug/L
|	V	51	5847.889	0.01	0.3510	0.037	10.503	ug/L
|	Cr	52	18348.336	0.03	1.2813	0.043	3.381	ug/L
|	Cr	53	2017.072	0.00	1.7834	0.147	8.229	ug/L
|	Mn	55	3403743.935	8.62	273.5162	2.842	1.039	ug/L
|	Co	59	4364.996	0.01	0.3881	0.003	0.797	ug/L
|	Ni	60	9650.419	0.02	4.2702	0.103	2.418	ug/L
|	Cu	65	934.053	0.00	0.3393	0.026	7.616	ug/L
|	Zn	66	3964.492	0.01	2.1290	0.013	0.611	ug/L
|>	Ge	72	394795.703	394795.70				ug/L
|	As	75	1503.089	0.00	1.9442	0.059	3.023	ug/L
|	Se	77	153.350	0.00	1.5017	0.416	27.717	ug/L
|	Se	82	98.115	0.00	1.2597	0.089	7.051	ug/L
⌊	Rb	85	2798.753	0.01				mg/L
	Y	89	233426.083	-17368.02				ug/L
	Rh	103	60.334	41.33				ug/L
⌈	Mo	98	1997.375	0.01	0.9352	0.042	4.456	ug/L
|	Ag	107	25.334	-0.00	-0.0718	0.001	0.937	ug/L
|	Cd	114	39.076	0.00	0.0221	0.004	20.287	ug/L
|>	In	115	328735.462	328735.46				ug/L
|	Sn	118	892.040	-0.00	-0.0617	0.004	5.874	ug/L
⌊	Sb	123	224.835	0.00	0.0705	0.003	4.868	ug/L
⌈	Ba	135	34122.462	0.07	18.9343	0.117	0.618	ug/L
|	Ce	140	2047.082	0.00				ug/L
⌊>	Tb	159	469014.544	469014.54				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	109.668	0.00	0.0208	0.002	9.042	ug/L
|	Tl	205	220.024	0.00	0.0110	0.002	13.709	ug/L
|	Pb	206	934.386	0.00	0.0890	0.004	4.657	ug/L
|	Pb	207	808.041	0.00	0.0929	0.002	2.650	ug/L
|	Pb	208	3713.975	0.00	0.0881	0.002	2.361	ug/L
|	U	238	160820.466	0.45	4.9935	0.026	0.528	ug/L
⌊>	Bi	209	358675.208	358675.21				ug/L

Sample ID: L1011077402
Report Date/Time: Thursday, November 25, 2010 00:06:13
Page 1

Approved: November 29, 2010

⌈	Na	23	309723031.138	1073.32	50.9629	1.247	2.448	mg/L
|	Mg	24	68065644.744	235.89	16.9744	0.416	2.453	mg/L
|	K	39	35913473.594	122.87	3.5556	0.094	2.644	mg/L
|	Ca	43	1423535.624	4.93	68.3811	1.164	1.702	mg/L
|	Fe	54	494048.427	1.53	0.6159	0.012	2.019	mg/L
|	Fe	57	243629.767	0.82	0.8209	0.008	0.956	mg/L
⌊>	Sc-1	45	288640.750	288640.75				mg/L
	Cl	35	1396064.171	1370937.98				mg/L
	Kr	83	25.334	-20.00				mg/L
	Br	81	50870.464	42037.23				mg/L
	P	31	26193.020	15698.81				mg/L
	S	34	939945.372	766786.57				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.463			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.006			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.886			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		82.894			
⌈	Na	23					

Sample ID: L1011077402
Report Date/Time: Thursday, November 25, 2010 00:06:13
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011077403

Sample Date/Time: Thursday, November 25, 2010 00:10:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 99
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	50142.158	0.06				ug/L
|	Be	9	6.000	-0.00	0.0474	0.009	18.938	ug/L
|	Al	27	343525.123	1.18	50.2877	2.215	4.404	ug/L
⌊>	Sc	45	286822.086	286822.09				ug/L
⌈	Ti	49	906.799	0.00	1.3758	0.189	13.752	ug/L
|	V	51	5224.037	0.01	0.2935	0.045	15.322	ug/L
|	Cr	52	16084.085	0.02	1.0289	0.018	1.761	ug/L
|	Cr	53	2897.377	0.01	2.7683	0.180	6.498	ug/L
|	Mn	55	2618808.324	6.73	213.3974	1.805	0.846	ug/L
|	Co	59	5901.467	0.01	0.5404	0.006	1.180	ug/L
|	Ni	60	9447.891	0.02	4.2392	0.117	2.756	ug/L
|	Cu	65	1217.086	0.00	0.4697	0.013	2.745	ug/L
|	Zn	66	3385.274	0.01	1.7167	0.090	5.226	ug/L
|>	Ge	72	389298.284	389298.28				ug/L
|	As	75	224.705	0.00	0.4883	0.066	13.459	ug/L
|	Se	77	350.041	0.00	4.7296	0.033	0.690	ug/L
|	Se	82	341.732	0.00	4.3750	0.134	3.061	ug/L
⌊	Rb	85	5812.414	0.01				mg/L
	Y	89	232907.644	-17886.45				ug/L
	Rh	103	67.668	48.67				ug/L
⌈	Mo	98	2648.829	0.01	1.2276	0.014	1.173	ug/L
|	Ag	107	30.667	-0.00	-0.0706	0.001	1.215	ug/L
|	Cd	114	63.500	0.00	0.0448	0.015	33.624	ug/L
|>	In	115	330329.577	330329.58				ug/L
|	Sn	118	839.102	-0.00	-0.0771	0.011	14.642	ug/L
⌊	Sb	123	221.207	0.00	0.0691	0.005	6.985	ug/L
⌈	Ba	135	43085.734	0.09	23.9438	0.090	0.376	ug/L
|	Ce	140	3010.755	0.01				ug/L
⌊>	Tb	159	468363.521	468363.52				ug/L
⌈	Ho	165	36.670	0.00				ug/L
|	Tl	203	1350.438	0.00	0.2313	0.008	3.627	ug/L
|	Tl	205	3287.538	0.01	0.2233	0.021	9.278	ug/L
|	Pb	206	906.717	0.00	0.0833	0.010	11.622	ug/L
|	Pb	207	749.369	0.00	0.0796	0.003	3.447	ug/L
|	Pb	208	3553.618	0.00	0.0800	0.003	3.688	ug/L
|	U	238	23148.661	0.06	0.7240	0.007	1.024	ug/L
⌊>	Bi	209	358723.642	358723.64				ug/L

Approved: November 29, 2010

⌈	Na	23	422358470.936	1472.58	69.9211	0.785	1.123	mg/L
|	Mg	24	55483914.562	193.45	13.9203	0.166	1.193	mg/L
|	K	39	115663734.833	401.71	11.6301	0.212	1.827	mg/L
|	Ca	43	1147660.002	4.00	55.4760	1.455	2.623	mg/L
|	Fe	54	164241.239	0.39	0.1583	0.007	4.390	mg/L
|	Fe	57	89807.691	0.29	0.2866	0.018	6.273	mg/L
⌊>	Sc-1	45	286822.086	286822.09				mg/L
	Cl	35	2154236.398	2129110.20				mg/L
	Kr	83	32.000	-13.33				mg/L
	Br	81	48568.332	39735.10				mg/L
	P	31	24901.852	14407.64				mg/L
	S	34	794893.407	621734.61				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.217			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.496			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.732			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		82.906			
⌈	Na	23					

Sample ID: L1011077403
Report Date/Time: Thursday, November 25, 2010 00:13:00
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011077403
Report Date/Time: Thursday, November 25, 2010 00:13:00
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011077404

Sample Date/Time: Thursday, November 25, 2010 00:17:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 100
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	50745.400	0.07				ug/L
|	Be	9	7.333	-0.00	0.0508	0.013	24.966	ug/L
|	Al	27	400526.815	1.39	59.3870	7.625	12.839	ug/L
⌊>	Sc	45	283976.108	283976.11				ug/L
⌈	Ti	49	1230.199	0.00	1.9697	0.233	11.836	ug/L
|	V	51	7163.893	0.01	0.5193	0.031	5.923	ug/L
|	Cr	52	20736.018	0.03	1.6823	0.003	0.155	ug/L
|	Cr	53	4611.527	0.01	4.7610	0.321	6.749	ug/L
|	Mn	55	128974.351	0.34	10.7549	0.068	0.632	ug/L
|	Co	59	3297.243	0.01	0.3005	0.009	2.944	ug/L
|	Ni	60	9883.985	0.03	4.5556	0.192	4.207	ug/L
|	Cu	65	1529.799	0.00	0.6254	0.013	2.064	ug/L
|	Zn	66	3506.317	0.01	1.8860	0.103	5.452	ug/L
|>	Ge	72	379214.720	379214.72				ug/L
|	As	75	258.265	0.00	0.5349	0.054	10.040	ug/L
|	Se	77	413.384	0.00	5.9472	2.234	37.562	ug/L
|	Se	82	249.372	0.00	3.2869	0.340	10.352	ug/L
⌊	Rb	85	6976.169	0.02				mg/L
	Y	89	227907.526	-22886.57				ug/L
	Rh	103	97.001	78.00				ug/L
⌈	Mo	98	3851.940	0.01	1.8193	0.021	1.172	ug/L
|	Ag	107	28.000	-0.00	-0.0711	0.000	0.529	ug/L
|	Cd	114	51.974	0.00	0.0351	0.004	11.982	ug/L
|>	In	115	322277.525	322277.53				ug/L
|	Sn	118	1012.985	-0.00	-0.0239	0.021	86.895	ug/L
⌊	Sb	123	183.374	0.00	0.0591	0.001	1.019	ug/L
⌈	Ba	135	95484.054	0.21	54.3153	0.360	0.662	ug/L
|	Ce	140	7610.323	0.02				ug/L
⌊>	Tb	159	457658.084	457658.08				ug/L
⌈	Ho	165	86.676	0.00				ug/L
|	Tl	203	743.035	0.00	0.1339	0.005	3.929	ug/L
|	Tl	205	1787.006	0.00	0.1249	0.010	8.202	ug/L
|	Pb	206	1630.149	0.00	0.2475	0.005	2.011	ug/L
|	Pb	207	1401.112	0.00	0.2416	0.002	0.955	ug/L
|	Pb	208	6450.880	0.01	0.2390	0.002	0.947	ug/L
|	U	238	29263.715	0.09	0.9537	0.009	0.931	ug/L
⌊>	Bi	209	343566.296	343566.30				ug/L

Sample ID: L1011077404
Report Date/Time: Thursday, November 25, 2010 00:19:48
Page 1

Approved: November 29, 2010

	Na	23	S	S	S	S	S	mg/L
	Mg	24	73593875.399	259.18	18.6507	0.263	1.413	mg/L
	K	39	115132205.177	403.89	11.6932	0.202	1.729	mg/L
	Ca	43	1513208.897	5.33	73.8793	1.000	1.354	mg/L
	Fe	54	247758.528	0.69	0.2788	0.003	1.249	mg/L
	Fe	57	137681.695	0.46	0.4594	0.009	1.996	mg/L
>	Sc-1	45	283976.108	283976.11				mg/L
	Cl	35	3935902.098	3910775.90				mg/L
	Kr	83	34.667	-10.67				mg/L
	Br	81	42958.074	34124.84				mg/L
	P	31	24450.526	13956.31				mg/L
	S	34	665647.078	492488.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc	45					
	Ti	49					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		85.932			
	As	75					
	Se	77					
	Se	82					
	Rb	85					
	Y	89					
	Rh	103					
	Mo	98					
	Ag	107					
	Cd	114					
>	In	115		99.022			
	Sn	118					
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		108.201			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
	U	238					
>	Bi	209		79.403			
	Na	23					

Sample ID: L1011077404
Report Date/Time: Thursday, November 25, 2010 00:19:48
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011077404
Report Date/Time: Thursday, November 25, 2010 00:19:48
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011077405

Sample Date/Time: Thursday, November 25, 2010 00:24:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 101
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	52688.731	0.07				ug/L
|	Be	9	8.667	-0.00	0.0539	0.003	5.701	ug/L
|	Al	27	1266863.210	4.36	186.4299	26.956	14.459	ug/L
⌊>	Sc	45	289687.573	289687.57				ug/L
⌈	Ti	49	2200.469	0.01	3.6484	0.791	21.682	ug/L
|	V	51	9441.624	0.02	0.7718	0.017	2.209	ug/L
|	Cr	52	14181.191	0.02	0.8452	0.019	2.222	ug/L
|	Cr	53	4624.872	0.01	4.7975	0.481	10.018	ug/L
|	Mn	55	356168.547	0.94	29.8934	0.372	1.245	ug/L
|	Co	59	4475.380	0.01	0.4177	0.007	1.649	ug/L
|	Ni	60	11343.211	0.03	5.2549	0.098	1.864	ug/L
|	Cu	65	1702.495	0.00	0.7069	0.028	3.919	ug/L
|	Zn	66	4825.879	0.01	2.9676	0.060	2.025	ug/L
|>	Ge	72	377565.834	377565.83				ug/L
|	As	75	404.362	0.00	0.7106	0.046	6.524	ug/L
|	Se	77	480.060	0.00	7.0847	1.114	15.718	ug/L
|	Se	82	317.418	0.00	4.1915	0.089	2.123	ug/L
⌊	Rb	85	8979.787	0.02				mg/L
	Y	89	231607.700	-19186.40				ug/L
	Rh	103	104.335	85.33				ug/L
⌈	Mo	98	3772.279	0.01	1.7587	0.025	1.421	ug/L
|	Ag	107	43.001	-0.00	-0.0679	0.000	0.646	ug/L
|	Cd	114	77.854	0.00	0.0588	0.012	20.891	ug/L
|>	In	115	326611.270	326611.27				ug/L
|	Sn	118	1085.392	0.00	-0.0081	0.016	202.498	ug/L
⌊	Sb	123	331.004	0.00	0.1030	0.005	4.817	ug/L
⌈	Ba	135	79707.231	0.17	44.8855	0.210	0.469	ug/L
|	Ce	140	10823.613	0.02				ug/L
⌊>	Tb	159	462303.885	462303.88				ug/L
⌈	Ho	165	180.020	0.00				ug/L
|	Tl	203	1503.795	0.00	0.2657	0.002	0.911	ug/L
|	Tl	205	3407.588	0.01	0.2392	0.007	2.736	ug/L
|	Pb	206	2131.582	0.00	0.3506	0.013	3.588	ug/L
|	Pb	207	1781.510	0.00	0.3271	0.010	3.066	ug/L
|	Pb	208	8282.090	0.02	0.3298	0.010	3.039	ug/L
|	U	238	28764.598	0.08	0.9272	0.006	0.697	ug/L
⌊>	Bi	209	347410.490	347410.49				ug/L

Sample ID: L1011077405
Report Date/Time: Thursday, November 25, 2010 00:26:35
Page 1

Approved: November 29, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	72392569.743	249.94	17.9857	0.192	1.066	mg/L
|	K	39	104612080.579	359.60	10.4106	0.173	1.664	mg/L
|	Ca	43	1540094.488	5.32	73.7123	1.019	1.383	mg/L
|	Fe	54	380485.642	1.13	0.4560	0.013	2.816	mg/L
|	Fe	57	201130.174	0.67	0.6700	0.004	0.558	mg/L
⌊>	Sc-1	45	289687.573	289687.57				mg/L
	Cl	35	3941271.532	3916145.34				mg/L
	Kr	83	29.667	-15.67				mg/L
	Br	81	52390.242	43557.01				mg/L
	P	31	26206.305	15712.09				mg/L
	S	34	588312.429	415153.63				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.559			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.354			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.299			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		80.291			
⌈	Na	23					

Sample ID: L1011077405
Report Date/Time: Thursday, November 25, 2010 00:26:35
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011077405
Report Date/Time: Thursday, November 25, 2010 00:26:35
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, November 25, 2010 00:31:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	51247.799	0.06				ug/L
|	Be	9	23981.393	0.08	59.9324	1.557	2.597	ug/L
|	Al	27	370246.580	1.25	53.4265	1.816	3.400	ug/L
⌊>	Sc	45	291490.118	291490.12				ug/L
⌈	Ti	49	65023.911	0.15	98.0670	0.878	0.896	ug/L
|	V	51	531829.609	1.23	50.8384	0.336	0.661	ug/L
|	Cr	52	459187.634	1.05	51.2391	0.116	0.225	ug/L
|	Cr	53	54208.633	0.13	52.8833	0.331	0.625	ug/L
|	Mn	55	746333.865	1.74	55.0568	0.619	1.125	ug/L
|	Co	59	620108.261	1.44	53.5290	0.801	1.496	ug/L
|	Ni	60	130760.482	0.30	53.4974	1.015	1.898	ug/L
|	Cu	65	127013.190	0.30	50.6214	0.146	0.288	ug/L
|	Zn	66	72805.160	0.17	50.8962	0.175	0.344	ug/L
|>	Ge	72	429810.306	429810.31				ug/L
|	As	75	46992.583	0.11	49.5178	1.142	2.306	ug/L
|	Se	77	3961.181	0.01	57.3105	2.163	3.775	ug/L
|	Se	82	4645.854	0.01	53.5495	0.683	1.275	ug/L
⌊	Rb	85	1857.858	0.00				mg/L
	Y	89	253559.422	2765.32				ug/L
	Rh	103	28.334	9.33				ug/L
⌈	Mo	98	213768.556	0.57	85.1793	2.068	2.428	ug/L
|	Ag	107	248702.477	0.66	46.9891	0.261	0.556	ug/L
|	Cd	114	60109.751	0.16	48.8641	0.212	0.433	ug/L
|>	In	115	377772.977	377772.98				ug/L
|	Sn	118	202369.620	0.53	46.8991	0.373	0.796	ug/L
⌊	Sb	123	168985.853	0.45	44.1969	0.652	1.474	ug/L
⌈	Ba	135	82957.210	0.16	42.4695	0.767	1.807	ug/L
|	Ce	140	90.009	0.00				ug/L
⌊>	Tb	159	508556.383	508556.38				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	358806.202	0.82	49.9969	0.572	1.145	ug/L
|	Tl	205	887240.501	2.03	50.3851	0.563	1.117	ug/L
|	Pb	206	291661.757	0.67	49.3522	0.285	0.576	ug/L
|	Pb	207	271465.087	0.62	50.4964	0.572	1.133	ug/L
|	Pb	208	1217635.390	2.78	49.8440	0.395	0.792	ug/L
|	U	238	1893617.604	4.33	48.2052	0.482	0.999	ug/L
⌊>	Bi	209	436989.294	436989.29				ug/L

Sample ID: QC Std 6
Report Date/Time: Thursday, November 25, 2010 00:33:21
Page 1

Approved: November 29, 2010

⌈	Na	23	32986464.720	113.21	5.3732	0.209	3.894	mg/L
|	Mg	24	21175792.978	72.68	5.2278	0.109	2.087	mg/L
|	K	39	51126108.494	173.91	5.0336	0.149	2.954	mg/L
|	Ca	43	111425.219	0.38	5.2953	0.205	3.868	mg/L
|	Fe	54	3798283.729	12.85	5.1651	0.158	3.064	mg/L
|	Fe	57	1530848.139	5.23	5.2591	0.157	2.982	mg/L
⌊>	Sc-1	45	291490.118	291490.12				mg/L
	Cl	35	33776.949	8650.75				mg/L
	Kr	83	33.000	-12.33				mg/L
	Br	81	19649.967	10816.73				mg/L
	P	31	16402.783	5908.57				mg/L
	S	34	246987.626	73828.83				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	101.677				
|	Cr	52	102.478				
|	Cr	53					
|	Mn	55	110.114				
|	Co	59	107.058				
|	Ni	60	106.995				
|	Cu	65	101.243				
|	Zn	66	101.792				
|>	Ge	72		97.398			
|	As	75	99.036				
|	Se	77					
|	Se	82	107.099				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	93.978				
|	Cd	114	97.728				
|>	In	115		116.074			
|	Sn	118					
⌊	Sb	123	88.394				
⌈	Ba	135	84.939				
|	Ce	140					
⌊>	Tb	159		120.234			
⌈	Ho	165					
|	Tl	203	99.994				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.688				
|	U	238	96.410				
⌊>	Bi	209		100.994			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Thursday, November 25, 2010 00:33:21
Page 2

Approved: November 29, 2010

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Mn	55	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	Sb	123	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	Ba	135	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
Tb 159 Int Std for QC	Tb	159	Rerun for AFCEE QC

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, November 25, 2010 00:37:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	54682.445	0.07				ug/L
|	Be	9	6.000	-0.00	0.0467	0.005	10.622	ug/L
|	Al	27	7386.085	0.00	0.1284	0.122	94.727	ug/L
⌊>	Sc	45	299485.319	299485.32				ug/L
⌈	Ti	49	46.671	0.00	-0.0669	0.023	33.804	ug/L
|	V	51	2594.130	-0.00	-0.0178	0.008	44.952	ug/L
|	Cr	52	8575.095	-0.00	-0.0398	0.012	30.098	ug/L
|	Cr	53	496.729	0.00	0.1020	0.060	58.372	ug/L
|	Mn	55	368.677	0.00	-0.0100	0.001	12.149	ug/L
|	Co	59	199.671	-0.00	-0.0054	0.000	3.962	ug/L
|	Ni	60	23.334	-0.00	-0.0213	0.003	12.078	ug/L
|	Cu	65	103.668	-0.00	-0.0262	0.001	4.507	ug/L
|	Zn	66	674.696	-0.00	-0.4757	0.008	1.584	ug/L
|>	Ge	72	440711.291	440711.29				ug/L
|	As	75	-139.037	0.00	0.0857	0.068	79.120	ug/L
|	Se	77	63.340	-0.00	-0.0475	0.297	624.873	ug/L
|	Se	82	22.797	0.00	0.2857	0.082	28.784	ug/L
⌊	Rb	85	14.000	0.00				mg/L
	Y	89	262376.739	11582.64				ug/L
	Rh	103	4.000	-15.00				ug/L
⌈	Mo	98	110.860	0.00	0.0641	0.005	8.430	ug/L
|	Ag	107	26.667	-0.00	-0.0723	0.000	0.198	ug/L
|	Cd	114	14.640	0.00	-0.0028	0.005	182.699	ug/L
|>	In	115	385706.434	385706.43				ug/L
|	Sn	118	964.313	-0.00	-0.0805	0.015	18.676	ug/L
⌊	Sb	123	281.879	0.00	0.0751	0.009	12.047	ug/L
⌈	Ba	135	16.000	-0.00	-0.0020	0.002	109.303	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	524380.126	524380.13				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	25.000	-0.00	0.0055	0.000	3.676	ug/L
|	Tl	205	60.006	-0.00	-0.0010	0.001	103.594	ug/L
|	Pb	206	455.682	-0.00	-0.0304	0.003	10.572	ug/L
|	Pb	207	397.345	-0.00	-0.0199	0.001	3.713	ug/L
|	Pb	208	1837.752	-0.00	-0.0256	0.002	7.202	ug/L
|	U	238	94.668	0.00	0.0085	0.000	3.733	ug/L
⌊>	Bi	209	458149.269	458149.27				ug/L

Sample ID: QC Std 7
Report Date/Time: Thursday, November 25, 2010 00:40:04
Page 1

Approved: November 29, 2010

⌈	Na	23	39167.157	0.08	0.0016	0.000	7.068	mg/L
|	Mg	24	1303.549	0.00	-0.0027	0.000	0.755	mg/L
|	K	39	408125.166	-0.23	-0.0092	0.000	4.125	mg/L
|	Ca	43	183.353	0.00	0.0000	0.001	35618.359	mg/L
|	Fe	54	57302.137	0.01	0.0052	0.001	24.788	mg/L
|	Fe	57	8641.269	0.00	0.0004	0.001	318.296	mg/L
⌊>	Sc-1	45	299485.319	299485.32				mg/L
	Cl	35	29477.382	4351.19				mg/L
	Kr	83	23.334	-22.00				mg/L
	Br	81	18446.332	9613.10				mg/L
	P	31	17602.895	7108.68				mg/L
	S	34	250178.312	77019.51				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.868			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		118.511			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		123.975			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.884			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Thursday, November 25, 2010 00:40:04
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Tb 159 Int Std for QC	Tb	159	Rerun for AFCEE QC

Sample ID: QC Std 7
Report Date/Time: Thursday, November 25, 2010 00:40:04

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: PBW C6 WG349532-02

Sample Date/Time: Thursday, November 25, 2010 00:44:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 102
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	48953.148	0.06				ug/L
|	Be	9	3.333	-0.00	0.0405	0.008	18.930	ug/L
|	Al	27	8136.649	0.01	0.2842	0.059	20.720	ug/L
⌊>	Sc	45	287456.744	287456.74				ug/L
⌈	Ti	49	53.339	0.00	-0.0551	0.031	56.755	ug/L
|	V	51	2620.202	-0.00	-0.0086	0.018	209.273	ug/L
|	Cr	52	8506.703	-0.00	-0.0217	0.024	111.686	ug/L
|	Cr	53	466.724	0.00	0.0854	0.020	23.960	ug/L
|	Mn	55	568.022	0.00	0.0055	0.002	45.277	ug/L
|	Co	59	193.337	-0.00	-0.0055	0.001	10.629	ug/L
|	Ni	60	58.667	0.00	-0.0066	0.003	45.630	ug/L
|	Cu	65	153.003	0.00	-0.0054	0.002	38.966	ug/L
|	Zn	66	2118.912	0.00	0.5674	0.039	6.925	ug/L
|>	Ge	72	428992.478	428992.48				ug/L
|	As	75	-159.629	-0.00	0.0600	0.054	90.833	ug/L
|	Se	77	86.676	0.00	0.3208	0.336	104.662	ug/L
|	Se	82	21.412	0.00	0.2764	0.074	26.880	ug/L
⌊	Rb	85	21.000	0.00				mg/L
	Y	89	248552.394	-2241.70				ug/L
	Rh	103	4.000	-15.00				ug/L
⌈	Mo	98	114.230	0.00	0.0670	0.003	4.598	ug/L
|	Ag	107	20.334	-0.00	-0.0734	0.000	0.400	ug/L
|	Cd	114	15.286	0.00	-0.0018	0.006	328.672	ug/L
|>	In	115	371747.656	371747.66				ug/L
|	Sn	118	760.162	-0.00	-0.1207	0.002	1.676	ug/L
⌊	Sb	123	89.372	-0.00	0.0266	0.006	22.269	ug/L
⌈	Ba	135	26.667	-0.00	0.0039	0.001	20.975	ug/L
|	Ce	140	53.339	-0.00				ug/L
⌊>	Tb	159	501857.601	501857.60				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	12.000	-0.00	0.0039	0.000	3.263	ug/L
|	Tl	205	40.004	-0.00	-0.0020	0.001	48.033	ug/L
|	Pb	206	451.348	-0.00	-0.0282	0.003	8.868	ug/L
|	Pb	207	409.012	-0.00	-0.0149	0.003	19.728	ug/L
|	Pb	208	1808.748	-0.00	-0.0240	0.001	3.122	ug/L
|	U	238	26.334	-0.00	0.0069	0.000	0.258	ug/L
⌊>	Bi	209	440712.711	440712.71				ug/L

Sample ID: PBW C6 WG349532-02
Report Date/Time: Thursday, November 25, 2010 00:46:52
Page 1

Approved: November 29, 2010

⌈	Na	23	46345.150	0.11	0.0030	0.000	3.645	mg/L
|	Mg	24	1706.983	0.00	-0.0026	0.000	0.890	mg/L
|	K	39	420517.815	-0.13	-0.0063	0.001	10.872	mg/L
|	Ca	43	253.362	0.00	0.0037	0.003	92.721	mg/L
|	Fe	54	54689.162	0.00	0.0047	0.000	8.938	mg/L
|	Fe	57	8210.866	0.00	0.0001	0.002	1355.782	mg/L
⌊>	Sc-1	45	287456.744	287456.74				mg/L
	Cl	35	28527.979	3401.78				mg/L
	Kr	83	29.334	-16.00				mg/L
	Br	81	18003.533	9170.30				mg/L
	P	31	15365.157	4870.95				mg/L
	S	34	226522.146	53363.35				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.212			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		114.222			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		118.651			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.854			
⌈	Na	23					

Sample ID: PBW C6 WG349532-02
Report Date/Time: Thursday, November 25, 2010 00:46:52
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW C6 WG349532-02
Report Date/Time: Thursday, November 25, 2010 00:46:52
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: LCSW C6 WG349532-03

Sample Date/Time: Thursday, November 25, 2010 00:51:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 103
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	50661.508	0.06				ug/L
|	Be	9	11861.033	0.04	28.7661	1.344	4.672	ug/L
|	Al	27	213692.834	0.69	29.4903	1.212	4.109	ug/L
⌊>	Sc	45	300673.261	300673.26				ug/L
⌈	Ti	49	93.343	0.00	0.0022	0.036	1623.142	ug/L
|	V	51	273309.109	0.62	25.4688	0.091	0.357	ug/L
|	Cr	52	244373.115	0.54	26.2434	0.080	0.303	ug/L
|	Cr	53	28657.211	0.06	27.2134	0.664	2.438	ug/L
|	Mn	55	392621.039	0.89	28.3621	0.267	0.943	ug/L
|	Co	59	324577.740	0.74	27.4409	0.189	0.691	ug/L
|	Ni	60	69194.257	0.16	27.7209	0.236	0.852	ug/L
|	Cu	65	67551.405	0.15	26.3466	0.144	0.545	ug/L
|	Zn	66	38501.695	0.08	25.9170	0.116	0.449	ug/L
|>	Ge	72	438681.229	438681.23				ug/L
|	As	75	23952.836	0.05	24.8417	0.189	0.760	ug/L
|	Se	77	1883.699	0.00	26.1875	1.319	5.036	ug/L
|	Se	82	2364.691	0.01	26.7174	0.111	0.415	ug/L
⌊	Rb	85	27.000	0.00				mg/L
	Y	89	258392.650	7598.55				ug/L
	Rh	103	20.000	1.00				ug/L
⌈	Mo	98	74.786	0.00	0.0503	0.001	1.262	ug/L
|	Ag	107	128971.333	0.34	24.1333	0.089	0.370	ug/L
|	Cd	114	30555.216	0.08	24.6308	0.196	0.794	ug/L
|>	In	115	380831.810	380831.81				ug/L
|	Sn	118	879.772	-0.00	-0.0973	0.000	0.298	ug/L
⌊	Sb	123	87905.186	0.23	22.8074	0.078	0.340	ug/L
⌈	Ba	135	42573.192	0.08	21.6480	0.093	0.428	ug/L
|	Ce	140	80.008	0.00				ug/L
⌊>	Tb	159	511849.658	511849.66				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	186364.858	0.41	25.0804	0.032	0.129	ug/L
|	Tl	205	457155.062	1.01	25.0719	0.384	1.532	ug/L
|	Pb	206	157525.606	0.35	25.6968	0.230	0.895	ug/L
|	Pb	207	137916.714	0.30	24.7293	0.086	0.348	ug/L
|	Pb	208	640930.607	1.41	25.2920	0.231	0.914	ug/L
|	U	238	971624.724	2.15	23.8929	0.262	1.094	ug/L
⌊>	Bi	209	452438.559	452438.56				ug/L

Sample ID: LCSW C6 WG349532-03
Report Date/Time: Thursday, November 25, 2010 00:53:41
Page 1

Approved: November 29, 2010

⌈	Na	23	78448.186	0.21	0.0078	0.001	9.584	mg/L
|	Mg	24	5628.822	0.02	-0.0016	0.000	6.246	mg/L
|	K	39	427203.040	-0.17	-0.0075	0.001	19.721	mg/L
|	Ca	43	660.088	0.00	0.0220	0.003	12.949	mg/L
|	Fe	54	58532.219	0.01	0.0066	0.004	55.517	mg/L
|	Fe	57	8674.640	0.00	0.0004	0.001	352.612	mg/L
⌊>	Sc-1	45	300673.261	300673.26				mg/L
	Cl	35	27939.645	2813.45				mg/L
	Kr	83	33.000	-12.33				mg/L
	Br	81	17938.075	9104.84				mg/L
	P	31	16161.160	5666.95				mg/L
	S	34	237254.916	64096.11				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.408			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		117.013			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		121.013			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.564			
⌈	Na	23					

Sample ID: LCSW C6 WG349532-03
Report Date/Time: Thursday, November 25, 2010 00:53:41
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063333 WG349532-01

Sample Date/Time: Thursday, November 25, 2010 00:58:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 104
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	49589.447	0.06				ug/L
|	Be	9	2.667	-0.00	0.0389	0.012	30.291	ug/L
|	Al	27	258568.621	0.85	36.4618	3.307	9.069	ug/L
⌊>	Sc	45	295798.592	295798.59				ug/L
⌈	Ti	49	423.385	0.00	0.4992	0.154	30.850	ug/L
|	V	51	3203.475	0.00	0.0449	0.011	24.869	ug/L
|	Cr	52	9884.984	0.00	0.1259	0.029	23.125	ug/L
|	Cr	53	640.085	0.00	0.2506	0.017	6.791	ug/L
|	Mn	55	9769.201	0.02	0.6799	0.006	0.891	ug/L
|	Co	59	672.696	0.00	0.0354	0.001	4.061	ug/L
|	Ni	60	421.013	0.00	0.1405	0.012	8.834	ug/L
|	Cu	65	340.676	0.00	0.0685	0.009	12.822	ug/L
|	Zn	66	9685.452	0.02	5.9063	0.103	1.743	ug/L
|>	Ge	72	432697.788	432697.79				ug/L
|	As	75	-116.187	0.00	0.1068	0.029	27.215	ug/L
|	Se	77	93.343	0.00	0.4088	0.372	90.967	ug/L
|	Se	82	29.403	0.00	0.3659	0.063	17.340	ug/L
⌊	Rb	85	833.043	0.00				mg/L
	Y	89	256339.663	5545.57				ug/L
	Rh	103	10.667	-8.33				ug/L
⌈	Mo	98	339.575	0.00	0.1565	0.011	7.129	ug/L
|	Ag	107	31.000	-0.00	-0.0714	0.002	2.857	ug/L
|	Cd	114	24.954	0.00	0.0060	0.011	178.916	ug/L
|>	In	115	376542.553	376542.55				ug/L
|	Sn	118	656.955	-0.00	-0.1471	0.003	1.931	ug/L
⌊	Sb	123	335.587	0.00	0.0910	0.008	8.395	ug/L
⌈	Ba	135	4579.427	0.01	2.3440	0.039	1.650	ug/L
|	Ce	140	1166.853	0.00				ug/L
⌊>	Tb	159	506627.949	506627.95				ug/L
⌈	Ho	165	76.675	0.00				ug/L
|	Tl	203	42.667	-0.00	0.0081	0.001	8.314	ug/L
|	Tl	205	86.676	-0.00	0.0006	0.001	226.826	ug/L
|	Pb	206	2974.472	0.01	0.3926	0.006	1.568	ug/L
|	Pb	207	2729.066	0.01	0.4103	0.011	2.726	ug/L
|	Pb	208	12321.461	0.02	0.4002	0.007	1.642	ug/L
|	U	238	215.338	0.00	0.0116	0.001	6.348	ug/L
⌊>	Bi	209	443745.195	443745.20				ug/L

Approved: November 29, 2010

⌈	Na	23	31407824.953	106.23	5.0420	0.197	3.911	mg/L
|	Mg	24	1213813.563	4.11	0.2926	0.011	3.755	mg/L
|	K	39	1978954.212	5.10	0.1453	0.007	5.133	mg/L
|	Ca	43	16301.574	0.05	0.7565	0.038	4.989	mg/L
|	Fe	54	87358.773	0.11	0.0470	0.004	8.811	mg/L
|	Fe	57	18111.574	0.04	0.0331	0.005	15.120	mg/L
⌊>	Sc-1	45	295798.592	295798.59				mg/L
	Cl	35	106661.824	81535.63				mg/L
	Kr	83	30.334	-15.00				mg/L
	Br	81	18883.146	10049.91				mg/L
	P	31	18775.626	8281.41				mg/L
	S	34	294947.970	121789.17				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.052			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		115.695			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		119.778			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.555			
⌈	Na	23					

Sample ID: L1011063333 WG349532-01
Report Date/Time: Thursday, November 25, 2010 01:00:29
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011063333 WG349532-01
Report Date/Time: Thursday, November 25, 2010 01:00:29
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063333S WG349532-04

Sample Date/Time: Thursday, November 25, 2010 01:05:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 105
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	54816.506	0.07				ug/L
|	Be	9	2305.599	0.01	5.6806	0.348	6.126	ug/L
|	Al	27	250743.687	0.82	35.1860	6.412	18.222	ug/L
⌊>	Sc	45	297306.200	297306.20				ug/L
⌈	Ti	49	486.728	0.00	0.5811	0.249	42.901	ug/L
|	V	51	55322.540	0.12	4.9383	0.054	1.090	ug/L
|	Cr	52	54882.093	0.10	5.1143	0.027	0.522	ug/L
|	Cr	53	5722.209	0.01	5.1249	0.121	2.360	ug/L
|	Mn	55	82545.449	0.19	5.9237	0.078	1.319	ug/L
|	Co	59	62694.211	0.14	5.2731	0.038	0.714	ug/L
|	Ni	60	13616.067	0.03	5.4207	0.060	1.103	ug/L
|	Cu	65	13158.784	0.03	5.0698	0.063	1.238	ug/L
|	Zn	66	10110.210	0.02	6.0968	0.046	0.757	ug/L
|>	Ge	72	439465.148	439465.15				ug/L
|	As	75	4390.060	0.01	4.7318	0.215	4.546	ug/L
|	Se	77	413.383	0.00	5.0023	1.230	24.588	ug/L
|	Se	82	462.423	0.00	5.2405	0.294	5.605	ug/L
⌊	Rb	85	743.702	0.00				mg/L
	Y	89	259214.012	8419.91				ug/L
	Rh	103	8.333	-10.67				ug/L
⌈	Mo	98	105.823	0.00	0.0626	0.008	11.989	ug/L
|	Ag	107	23234.861	0.06	4.2873	0.021	0.492	ug/L
|	Cd	114	5638.391	0.01	4.5364	0.047	1.035	ug/L
|>	In	115	380581.723	380581.72				ug/L
|	Sn	118	645.888	-0.00	-0.1513	0.002	1.387	ug/L
⌊	Sb	123	16838.498	0.04	4.3740	0.034	0.785	ug/L
⌈	Ba	135	12462.554	0.02	6.3451	0.131	2.061	ug/L
|	Ce	140	1086.835	0.00				ug/L
⌊>	Tb	159	510634.447	510634.45				ug/L
⌈	Ho	165	53.339	0.00				ug/L
|	Tl	203	35467.808	0.08	4.8869	0.070	1.429	ug/L
|	Tl	205	86111.119	0.19	4.8293	0.049	1.017	ug/L
|	Pb	206	30361.659	0.07	4.9851	0.051	1.027	ug/L
|	Pb	207	26738.303	0.06	4.8339	0.008	0.174	ug/L
|	Pb	208	123247.678	0.27	4.8991	0.039	0.798	ug/L
|	U	238	185989.945	0.42	4.6856	0.023	0.496	ug/L
⌊>	Bi	209	442107.677	442107.68				ug/L

Sample ID: L1011063333S WG349532-04
Report Date/Time: Thursday, November 25, 2010 01:07:18
Page 1

Approved: November 29, 2010

⌈	Na	23	30495411.776	102.59	4.8688	0.223	4.587	mg/L
|	Mg	24	1083391.780	3.64	0.2593	0.005	2.004	mg/L
|	K	39	1777196.217	4.39	0.1246	0.008	6.170	mg/L
|	Ca	43	14218.202	0.05	0.6548	0.034	5.185	mg/L
|	Fe	54	83170.144	0.09	0.0408	0.005	11.972	mg/L
|	Fe	57	16301.578	0.03	0.0266	0.000	1.013	mg/L
⌊>	Sc-1	45	297306.200	297306.20				mg/L
	Cl	35	93631.649	68505.45				mg/L
	Kr	83	30.000	-15.33				mg/L
	Br	81	18893.833	10060.60				mg/L
	P	31	19382.812	8888.60				mg/L
	S	34	296359.061	123200.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.586			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		116.937			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		120.726			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.177			
⌈	Na	23					

Sample ID: L1011063333S WG349532-04
Report Date/Time: Thursday, November 25, 2010 01:07:18
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063333SD WG349532-05

Sample Date/Time: Thursday, November 25, 2010 01:11:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 106
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	54515.140	0.07				ug/L
|	Be	9	2372.948	0.01	5.6924	0.089	1.571	ug/L
|	Al	27	292645.679	0.94	40.1332	5.521	13.757	ug/L
⌊>	Sc	45	305101.637	305101.64				ug/L
⌈	Ti	49	500.064	0.00	0.6048	0.318	52.543	ug/L
|	V	51	56998.136	0.12	5.0943	0.064	1.250	ug/L
|	Cr	52	57296.259	0.11	5.3821	0.049	0.903	ug/L
|	Cr	53	6239.241	0.01	5.6198	0.358	6.379	ug/L
|	Mn	55	86919.680	0.20	6.2380	0.034	0.537	ug/L
|	Co	59	64585.213	0.15	5.4321	0.073	1.348	ug/L
|	Ni	60	14054.011	0.03	5.5946	0.034	0.616	ug/L
|	Cu	65	13502.578	0.03	5.2032	0.070	1.338	ug/L
|	Zn	66	10991.814	0.02	6.7099	0.087	1.291	ug/L
|>	Ge	72	439528.759	439528.76				ug/L
|	As	75	4640.816	0.01	4.9880	0.148	2.963	ug/L
|	Se	77	456.723	0.00	5.6191	0.731	13.015	ug/L
|	Se	82	467.411	0.00	5.2951	0.133	2.518	ug/L
⌊	Rb	85	859.712	0.00				mg/L
	Y	89	261193.017	10398.92				ug/L
	Rh	103	7.667	-11.33				ug/L
⌈	Mo	98	86.120	0.00	0.0544	0.004	6.605	ug/L
|	Ag	107	24297.394	0.06	4.4268	0.053	1.200	ug/L
|	Cd	114	6074.251	0.02	4.8238	0.027	0.567	ug/L
|>	In	115	385661.621	385661.62				ug/L
|	Sn	118	640.554	-0.00	-0.1545	0.004	2.832	ug/L
⌊	Sb	123	17366.780	0.04	4.4518	0.010	0.235	ug/L
⌈	Ba	135	13208.182	0.03	6.6767	0.105	1.566	ug/L
|	Ce	140	1093.503	0.00				ug/L
⌊>	Tb	159	514440.511	514440.51				ug/L
⌈	Ho	165	103.344	0.00				ug/L
|	Tl	203	36980.623	0.08	5.0165	0.012	0.240	ug/L
|	Tl	205	90913.780	0.20	5.0205	0.034	0.678	ug/L
|	Pb	206	31658.352	0.07	5.1205	0.010	0.191	ug/L
|	Pb	207	27833.961	0.06	4.9571	0.037	0.738	ug/L
|	Pb	208	128244.561	0.28	5.0214	0.018	0.352	ug/L
|	U	238	194047.135	0.43	4.8130	0.046	0.960	ug/L
⌊>	Bi	209	449007.363	449007.36				ug/L

Approved: November 29, 2010

Na	23	32467442.482	106.38	5.0489	0.065	1.284	mg/L
Mg	24	1192472.437	3.91	0.2783	0.004	1.388	mg/L
K	39	1928656.546	4.73	0.1344	0.001	1.073	mg/L
Ca	43	15443.461	0.05	0.6934	0.014	2.003	mg/L
Fe	54	86921.977	0.10	0.0427	0.002	5.705	mg/L
Fe	57	17433.599	0.03	0.0289	0.001	2.739	mg/L
> Sc-1	45	305101.637	305101.64				mg/L
Cl	35	111274.430	86148.23				mg/L
Kr	83	31.334	-14.00				mg/L
Br	81	19062.156	10228.92				mg/L
P	31	20838.448	10344.24				mg/L
S	34	309547.242	136388.44				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		99.600			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		118.497			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		121.626			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.771			
Na	23					

Sample ID: L1011063333SD WG349532-05
Report Date/Time: Thursday, November 25, 2010 01:14:08
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063302

Sample Date/Time: Thursday, November 25, 2010 01:18:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 107
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	49036.661	0.05				ug/L
|	Be	9	10.667	0.00	0.0578	0.014	23.906	ug/L
|	Al	27	1738465.906	5.75	245.8958	5.713	2.323	ug/L
⌊>	Sc	45	301254.965	301254.96				ug/L
⌈	Ti	49	1430.245	0.00	1.9535	0.036	1.850	ug/L
|	V	51	13586.452	0.02	1.0019	0.030	3.027	ug/L
|	Cr	52	12735.899	0.01	0.4101	0.015	3.570	ug/L
|	Cr	53	803.447	0.00	0.3888	0.157	40.406	ug/L
|	Mn	55	367073.097	0.83	26.1716	0.174	0.663	ug/L
|	Co	59	15716.832	0.03	1.2905	0.016	1.222	ug/L
|	Ni	60	2141.251	0.00	0.8171	0.021	2.571	ug/L
|	Cu	65	5826.422	0.01	2.1824	0.015	0.666	ug/L
|	Zn	66	184820.491	0.41	126.3442	1.262	0.999	ug/L
|>	Ge	72	444392.340	444392.34				ug/L
|	As	75	1939.922	0.00	2.1960	0.072	3.282	ug/L
|	Se	77	66.674	-0.00	-0.0081	0.353	4339.122	ug/L
|	Se	82	25.713	0.00	0.3162	0.064	20.253	ug/L
⌊	Rb	85	3746.406	0.01				mg/L
	Y	89	258915.398	8121.30				ug/L
	Rh	103	10.000	-9.00				ug/L
⌈	Mo	98	1401.341	0.00	0.5880	0.036	6.061	ug/L
|	Ag	107	69.001	-0.00	-0.0640	0.002	3.671	ug/L
|	Cd	114	19.219	0.00	0.0016	0.007	439.575	ug/L
|>	In	115	372102.803	372102.80				ug/L
|	Sn	118	934.177	-0.00	-0.0796	0.003	3.211	ug/L
⌊	Sb	123	138.748	0.00	0.0397	0.004	9.682	ug/L
⌈	Ba	135	455485.104	0.90	233.0814	1.820	0.781	ug/L
|	Ce	140	13286.835	0.03				ug/L
⌊>	Tb	159	508834.877	508834.88				ug/L
⌈	Ho	165	223.358	0.00				ug/L
|	Tl	203	136.669	0.00	0.0212	0.009	43.669	ug/L
|	Tl	205	340.040	0.00	0.0150	0.008	56.008	ug/L
|	Pb	206	3323.919	0.01	0.4563	0.019	4.165	ug/L
|	Pb	207	2866.106	0.01	0.4404	0.019	4.405	ug/L
|	Pb	208	13402.365	0.02	0.4489	0.016	3.518	ug/L
|	U	238	11995.977	0.03	0.3097	0.003	0.972	ug/L
⌊>	Bi	209	439654.097	439654.10				ug/L

Sample ID: L1011063302
Report Date/Time: Thursday, November 25, 2010 01:20:54
Page 1

Approved: November 29, 2010

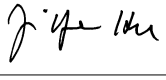
Na	23	112278849.948	372.75	17.6971	0.333	1.880	mg/L	
Mg	24	1414437.931	4.70	0.3350	0.006	1.794	mg/L	
K	39	3970437.472	11.59	0.3330	0.007	2.048	mg/L	
Ca	43	27527.335	0.09	1.2580	0.057	4.558	mg/L	
Fe	54	252120.448	0.65	0.2645	0.009	3.275	mg/L	
Fe	57	100300.525	0.31	0.3065	0.005	1.575	mg/L	
> Sc-1	45	301254.965	301254.96				mg/L	
Cl	35	82727.535	57601.34				mg/L	
Kr	83	33.000	-12.33				mg/L	
Br	81	18903.853	10070.62				mg/L	
P	31	46532.014	36037.80				mg/L	
S	34	314975.571	141816.77				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		100.702			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		114.331			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		120.300			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		101.610			
Na	23					

Sample ID: L1011063302
Report Date/Time: Thursday, November 25, 2010 01:20:54
Page 2

Approved: November 29, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063304

Sample Date/Time: Thursday, November 25, 2010 01:25:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 108
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	53844.737	0.06				ug/L
|	Be	9	7.333	-0.00	0.0497	0.014	28.727	ug/L
|	Al	27	119746.048	0.37	15.7464	0.502	3.188	ug/L
⌊>	Sc	45	307267.528	307267.53				ug/L
⌈	Ti	49	250.028	0.00	0.2340	0.044	18.794	ug/L
|	V	51	4059.408	0.00	0.1210	0.002	1.999	ug/L
|	Cr	52	9989.089	0.00	0.1212	0.027	22.093	ug/L
|	Cr	53	470.058	0.00	0.0777	0.066	84.524	ug/L
|	Mn	55	308452.485	0.70	22.2554	0.241	1.084	ug/L
|	Co	59	7514.564	0.02	0.6131	0.010	1.618	ug/L
|	Ni	60	813.041	0.00	0.2952	0.027	9.114	ug/L
|	Cu	65	635.027	0.00	0.1815	0.005	2.697	ug/L
|	Zn	66	3456.965	0.00	1.4657	0.010	0.708	ug/L
|>	Ge	72	439012.734	439012.73				ug/L
|	As	75	-21.587	0.00	0.2059	0.052	25.324	ug/L
|	Se	77	90.009	0.00	0.3421	0.299	87.289	ug/L
|	Se	82	21.763	0.00	0.2743	0.107	38.911	ug/L
⌊	Rb	85	363.677	0.00				mg/L
	Y	89	258914.894	8120.80				ug/L
	Rh	103	7.667	-11.33				ug/L
⌈	Mo	98	1805.003	0.00	0.7298	0.016	2.229	ug/L
|	Ag	107	61.334	-0.00	-0.0658	0.002	2.419	ug/L
|	Cd	114	22.409	0.00	0.0036	0.006	155.355	ug/L
|>	In	115	383028.684	383028.68				ug/L
|	Sn	118	614.286	-0.00	-0.1595	0.004	2.438	ug/L
⌊	Sb	123	92.414	-0.00	0.0267	0.001	4.633	ug/L
⌈	Ba	135	8001.280	0.02	3.9998	0.100	2.502	ug/L
|	Ce	140	680.092	0.00				ug/L
⌊>	Tb	159	519693.853	519693.85				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	60.334	-0.00	0.0107	0.002	14.094	ug/L
|	Tl	205	140.015	-0.00	0.0037	0.002	57.668	ug/L
|	Pb	206	510.018	-0.00	-0.0170	0.004	23.224	ug/L
|	Pb	207	470.682	-0.00	-0.0022	0.002	98.101	ug/L
|	Pb	208	2090.440	-0.00	-0.0112	0.001	12.500	ug/L
|	U	238	3231.221	0.01	0.0890	0.001	0.891	ug/L
⌊>	Bi	209	434129.981	434129.98				ug/L

Sample ID: L1011063304
Report Date/Time: Thursday, November 25, 2010 01:27:40
Page 1

Approved: November 29, 2010

⌈	Na	23	128461176.566	418.11	19.8509	0.246	1.238	mg/L
|	Mg	24	3113822.669	10.14	0.7265	0.012	1.621	mg/L
|	K	39	2844914.420	7.67	0.2195	0.007	2.971	mg/L
|	Ca	43	70380.541	0.23	3.1676	0.035	1.113	mg/L
|	Fe	54	168267.191	0.36	0.1483	0.003	1.848	mg/L
|	Fe	57	54584.055	0.15	0.1502	0.005	3.402	mg/L
⌊>	Sc-1	45	307267.528	307267.53				mg/L
	Cl	35	78001.029	52874.83				mg/L
	Kr	83	27.334	-18.00				mg/L
	Br	81	20455.579	11622.34				mg/L
	P	31	21539.929	11045.72				mg/L
	S	34	393997.258	220838.46				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.483			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		117.688			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		122.868			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.333			
⌈	Na	23					

Sample ID: L1011063304
Report Date/Time: Thursday, November 25, 2010 01:27:40
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Sample ID: L1011063304
Report Date/Time: Thursday, November 25, 2010 01:27:40

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063304PS WG349755-01

Sample Date/Time: Thursday, November 25, 2010 01:32:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 109
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	52721.967	0.06				ug/L
|	Be	9	24564.801	0.08	58.1564	2.264	3.893	ug/L
|	Al	27	478209.350	1.53	65.5056	0.884	1.349	ug/L
⌊>	Sc	45	307836.702	307836.70				ug/L
⌈	Ti	49	236.693	0.00	0.2173	0.049	22.523	ug/L
|	V	51	573596.169	1.31	54.1253	0.184	0.339	ug/L
|	Cr	52	504281.680	1.14	55.6130	0.307	0.552	ug/L
|	Cr	53	59519.257	0.14	57.3390	1.607	2.803	ug/L
|	Mn	55	1116703.103	2.56	81.3129	0.343	0.422	ug/L
|	Co	59	684078.372	1.57	58.2737	0.158	0.272	ug/L
|	Ni	60	142960.413	0.33	57.7168	0.409	0.709	ug/L
|	Cu	65	137793.619	0.32	54.1975	0.030	0.056	ug/L
|	Zn	66	72538.219	0.16	50.0249	0.288	0.576	ug/L
|>	Ge	72	435555.728	435555.73				ug/L
|	As	75	49456.853	0.11	51.4117	0.112	0.218	ug/L
|	Se	77	3607.678	0.01	51.4255	1.673	3.253	ug/L
|	Se	82	4714.926	0.01	53.6229	0.207	0.386	ug/L
⌊	Rb	85	330.342	0.00				mg/L
	Y	89	259256.915	8462.82				ug/L
	Rh	103	27.000	8.00				ug/L
⌈	Mo	98	1744.544	0.00	0.7058	0.026	3.682	ug/L
|	Ag	107	264220.644	0.69	49.2031	0.293	0.595	ug/L
|	Cd	114	61965.900	0.16	49.6512	0.886	1.784	ug/L
|>	In	115	383303.635	383303.63				ug/L
|	Sn	118	705.625	-0.00	-0.1386	0.008	6.004	ug/L
⌊	Sb	123	181670.370	0.47	46.8272	0.119	0.255	ug/L
⌈	Ba	135	96907.314	0.19	48.2341	0.514	1.066	ug/L
|	Ce	140	836.785	0.00				ug/L
⌊>	Tb	159	523032.788	523032.79				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	383607.184	0.88	53.4070	0.303	0.567	ug/L
|	Tl	205	953080.723	2.18	54.0838	0.474	0.877	ug/L
|	Pb	206	323062.418	0.74	54.6407	0.327	0.599	ug/L
|	Pb	207	281887.381	0.64	52.3952	0.174	0.331	ug/L
|	Pb	208	1312026.743	2.99	53.6763	0.094	0.176	ug/L
|	U	238	2062719.600	4.72	52.4756	0.460	0.877	ug/L
⌊>	Bi	209	437297.433	437297.43				ug/L

Sample ID: L1011063304PS WG349755-01
Report Date/Time: Thursday, November 25, 2010 01:34:27
Page 1

Approved: November 29, 2010

⌈	Na	23	124930810.141	406.18	19.2845	0.829	4.298	mg/L
|	Mg	24	3073544.517	9.99	0.7163	0.029	4.032	mg/L
|	K	39	2776396.926	7.43	0.2127	0.006	2.807	mg/L
|	Ca	43	69041.093	0.22	3.1027	0.073	2.337	mg/L
|	Fe	54	169704.047	0.37	0.1499	0.008	5.358	mg/L
|	Fe	57	52402.194	0.15	0.1428	0.007	4.956	mg/L
⌊>	Sc-1	45	307836.702	307836.70				mg/L
	Cl	35	76004.435	50878.24				mg/L
	Kr	83	28.334	-17.00				mg/L
	Br	81	20287.892	11454.66				mg/L
	P	31	23349.338	12855.13				mg/L
	S	34	389961.043	216802.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.700			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		117.773			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		123.657			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.065			
⌈	Na	23					

Sample ID: L1011063304PS WG349755-01
Report Date/Time: Thursday, November 25, 2010 01:34:27
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063304SDL WG349755-02

Sample Date/Time: Thursday, November 25, 2010 01:39:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 110
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	50812.332	0.06				ug/L
|	Be	9	4.667	-0.00	0.0434	0.006	13.146	ug/L
|	Al	27	30830.818	0.08	3.4328	0.243	7.068	ug/L
⌊>	Sc	45	302732.405	302732.40				ug/L
⌈	Ti	49	83.342	0.00	-0.0137	0.082	594.581	ug/L
|	V	51	3090.127	0.00	0.0256	0.004	14.428	ug/L
|	Cr	52	9194.651	0.00	0.0178	0.004	20.918	ug/L
|	Cr	53	433.386	0.00	0.0372	0.083	222.234	ug/L
|	Mn	55	65033.818	0.15	4.5947	0.076	1.663	ug/L
|	Co	59	1751.838	0.00	0.1237	0.003	2.278	ug/L
|	Ni	60	1282.428	0.00	0.4756	0.013	2.641	ug/L
|	Cu	65	239.339	0.00	0.0256	0.003	13.398	ug/L
|	Zn	66	3358.598	0.00	1.3625	0.042	3.086	ug/L
|>	Ge	72	445550.484	445550.48				ug/L
|	As	75	-165.711	-0.00	0.0601	0.025	42.103	ug/L
|	Se	77	103.344	0.00	0.5080	0.420	82.616	ug/L
|	Se	82	11.397	0.00	0.1550	0.152	97.899	ug/L
⌊	Rb	85	79.334	0.00				mg/L
	Y	89	261535.602	10741.50				ug/L
	Rh	103	5.667	-13.33				ug/L
⌈	Mo	98	418.058	0.00	0.1820	0.011	5.827	ug/L
|	Ag	107	36.334	-0.00	-0.0706	0.001	0.970	ug/L
|	Cd	114	18.995	0.00	0.0006	0.009	1588.074	ug/L
|>	In	115	390169.919	390169.92				ug/L
|	Sn	118	523.080	-0.00	-0.1827	0.003	1.878	ug/L
⌊	Sb	123	398.800	0.00	0.1039	0.017	16.230	ug/L
⌈	Ba	135	1693.494	0.00	0.8323	0.017	2.027	ug/L
|	Ce	140	166.685	0.00				ug/L
⌊>	Tb	159	523553.301	523553.30				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	30.667	-0.00	0.0063	0.001	10.528	ug/L
|	Tl	205	83.342	-0.00	0.0003	0.000	124.791	ug/L
|	Pb	206	474.349	-0.00	-0.0269	0.002	7.911	ug/L
|	Pb	207	405.346	-0.00	-0.0181	0.004	20.978	ug/L
|	Pb	208	1913.759	-0.00	-0.0223	0.002	7.569	ug/L
|	U	238	773.371	0.00	0.0251	0.000	1.365	ug/L
⌊>	Bi	209	455740.033	455740.03				ug/L

Approved: November 29, 2010

⌈	Na	23	25760761.477	85.08	4.0377	0.121	3.005	mg/L
|	Mg	24	674787.428	2.23	0.1575	0.005	3.138	mg/L
|	K	39	932503.038	1.49	0.0406	0.001	3.487	mg/L
|	Ca	43	14939.335	0.05	0.6761	0.046	6.825	mg/L
|	Fe	54	82284.686	0.09	0.0375	0.001	2.769	mg/L
|	Fe	57	17774.230	0.03	0.0305	0.002	7.626	mg/L
⌊>	Sc-1	45	302732.405	302732.40				mg/L
	Cl	35	36513.876	11387.68				mg/L
	Kr	83	31.000	-14.33				mg/L
	Br	81	17318.324	8485.09				mg/L
	P	31	18003.556	7509.34				mg/L
	S	34	273626.438	100467.64				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.965			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		119.883			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		123.780			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.327			
⌈	Na	23					

Sample ID: L1011063304SDL WG349755-02
Report Date/Time: Thursday, November 25, 2010 01:41:14
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, November 25, 2010 01:45:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	52336.689	0.06				ug/L
|	Be	9	24229.986	0.08	58.2461	0.356	0.611	ug/L
|	Al	27	368258.602	1.19	51.0625	0.576	1.129	ug/L
⌊>	Sc	45	302902.464	302902.46				ug/L
⌈	Ti	49	67617.913	0.15	98.4825	0.812	0.824	ug/L
|	V	51	553180.147	1.24	51.0615	0.607	1.188	ug/L
|	Cr	52	476419.385	1.05	51.3336	0.713	1.388	ug/L
|	Cr	53	56176.314	0.13	52.9190	0.415	0.784	ug/L
|	Mn	55	772666.664	1.73	55.0361	0.982	1.783	ug/L
|	Co	59	647457.168	1.45	53.9679	0.279	0.517	ug/L
|	Ni	60	134941.525	0.30	53.3040	0.342	0.642	ug/L
|	Cu	65	131284.578	0.29	50.5242	0.402	0.796	ug/L
|	Zn	66	75368.062	0.17	50.8765	0.123	0.242	ug/L
|>	Ge	72	445106.981	445106.98				ug/L
|	As	75	48297.909	0.11	49.1434	0.536	1.090	ug/L
|	Se	77	3877.808	0.01	54.1152	2.704	4.997	ug/L
|	Se	82	4809.942	0.01	53.5344	0.798	1.490	ug/L
⌊	Rb	85	1920.537	0.00				mg/L
	Y	89	257857.837	7063.74				ug/L
	Rh	103	22.000	3.00				ug/L
⌈	Mo	98	218951.216	0.58	87.0649	0.389	0.447	ug/L
|	Ag	107	258336.596	0.68	48.7148	0.197	0.404	ug/L
|	Cd	114	59688.407	0.16	48.4229	0.843	1.741	ug/L
|>	In	115	378516.968	378516.97				ug/L
|	Sn	118	205545.844	0.54	47.5443	0.360	0.758	ug/L
⌊	Sb	123	170263.497	0.45	44.4433	0.395	0.888	ug/L
⌈	Ba	135	84609.319	0.16	42.8806	0.745	1.739	ug/L
|	Ce	140	96.677	0.00				ug/L
⌊>	Tb	159	513696.974	513696.97				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	367138.207	0.82	49.8518	0.247	0.495	ug/L
|	Tl	205	902289.020	2.01	49.9337	0.422	0.846	ug/L
|	Pb	206	296011.318	0.66	48.8140	0.293	0.599	ug/L
|	Pb	207	278203.185	0.62	50.4272	0.095	0.188	ug/L
|	Pb	208	1239955.751	2.76	49.4651	0.285	0.577	ug/L
|	U	238	1927599.365	4.30	47.8240	0.382	0.798	ug/L
⌊>	Bi	209	448404.395	448404.40				ug/L

Sample ID: QC Std 6
Report Date/Time: Thursday, November 25, 2010 01:47:59
Page 1

Approved: November 29, 2010

Na	23	33173008.166	109.47	5.1957	0.042	0.817	mg/L
Mg	24	20989479.369	69.30	4.9844	0.123	2.473	mg/L
K	39	52723899.446	172.47	4.9918	0.113	2.267	mg/L
Ca	43	113835.687	0.38	5.2022	0.092	1.760	mg/L
Fe	54	3933192.722	12.80	5.1434	0.187	3.630	mg/L
Fe	57	1594304.563	5.24	5.2683	0.044	0.834	mg/L
> Sc-1	45	302902.464	302902.46				mg/L
Cl	35	26246.407	1120.21				mg/L
Kr	83	32.000	-13.33				mg/L
Br	81	16128.997	7295.76				mg/L
P	31	16792.254	6298.04				mg/L
S	34	258150.475	84991.67				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	102.123				
Cr	52	102.667				
Cr	53					
Mn	55	110.072				
Co	59	107.936				
Ni	60	106.608				
Cu	65	101.048				
Zn	66	101.753				
> Ge	72		100.864			
As	75	98.287				
Se	77					
Se	82	107.069				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	97.430				
Cd	114	96.846				
> In	115		116.302			
Sn	118					
Sb	123	88.887				
Ba	135	85.761				
Ce	140					
> Tb	159		121.450			
Ho	165					
Tl	203	99.704				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.930				
U	238	95.648				
> Bi	209		103.632			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Thursday, November 25, 2010 01:47:59

Approved: November 29, 2010

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Mn	55	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	Sb	123	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	Ba	135	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
Tb 159 Int Std for QC	Tb	159	Rerun for AFCEE QC

Sample ID: QC Std 6
Report Date/Time: Thursday, November 25, 2010 01:47:59
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, November 25, 2010 01:52:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	52571.357	0.06				ug/L
|	Be	9	4.667	-0.00	0.0433	0.006	13.540	ug/L
|	Al	27	6985.774	0.00	0.0483	0.057	117.184	ug/L
⌊>	Sc	45	307313.447	307313.45				ug/L
⌈	Ti	49	36.670	-0.00	-0.0826	0.059	71.063	ug/L
|	V	51	2678.809	-0.00	-0.0145	0.008	52.552	ug/L
|	Cr	52	8959.103	-0.00	-0.0156	0.020	130.166	ug/L
|	Cr	53	310.036	-0.00	-0.0825	0.024	29.471	ug/L
|	Mn	55	363.677	0.00	-0.0108	0.000	4.543	ug/L
|	Co	59	225.338	0.00	-0.0036	0.001	31.937	ug/L
|	Ni	60	29.334	-0.00	-0.0192	0.001	7.564	ug/L
|	Cu	65	98.335	-0.00	-0.0290	0.003	11.524	ug/L
|	Zn	66	635.027	-0.00	-0.5114	0.025	4.806	ug/L
|>	Ge	72	448989.045	448989.04				ug/L
|	As	75	-105.299	0.00	0.1222	0.004	3.082	ug/L
|	Se	77	86.676	0.00	0.2647	0.077	29.239	ug/L
|	Se	82	24.096	0.00	0.2951	0.038	13.040	ug/L
⌊	Rb	85	9.000	-0.00				mg/L
	Y	89	267171.996	16377.90				ug/L
	Rh	103	8.667	-10.33				ug/L
⌈	Mo	98	112.563	0.00	0.0640	0.008	12.754	ug/L
|	Ag	107	25.667	-0.00	-0.0726	0.001	0.701	ug/L
|	Cd	114	15.426	0.00	-0.0023	0.006	272.878	ug/L
|>	In	115	391317.047	391317.05				ug/L
|	Sn	118	801.365	-0.00	-0.1204	0.007	6.030	ug/L
⌊	Sb	123	307.171	0.00	0.0804	0.006	7.224	ug/L
⌈	Ba	135	14.333	-0.00	-0.0029	0.002	84.682	ug/L
|	Ce	140	30.003	-0.00				ug/L
⌊>	Tb	159	529187.106	529187.11				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	24.667	-0.00	0.0054	0.001	14.967	ug/L
|	Tl	205	50.005	-0.00	-0.0016	0.001	86.861	ug/L
|	Pb	206	443.348	-0.00	-0.0332	0.003	10.135	ug/L
|	Pb	207	396.679	-0.00	-0.0208	0.001	5.738	ug/L
|	Pb	208	1778.746	-0.00	-0.0287	0.001	3.081	ug/L
|	U	238	92.335	0.00	0.0084	0.000	2.976	ug/L
⌊>	Bi	209	463446.384	463446.38				ug/L

Sample ID: QC Std 7
Report Date/Time: Thursday, November 25, 2010 01:54:42
Page 1

Approved: November 29, 2010

Na	23	25642.509	0.04	-0.0007	0.000	60.728	mg/L
Mg	24	1176.854	0.00	-0.0027	0.000	0.668	mg/L
K	39	415626.135	-0.24	-0.0094	0.003	31.381	mg/L
Ca	43	133.348	-0.00	-0.0025	0.001	37.985	mg/L
Fe	54	58602.373	0.01	0.0051	0.004	86.977	mg/L
Fe	57	9248.544	0.01	0.0017	0.001	54.474	mg/L
Sc-1	45	307313.447	307313.45				mg/L
Cl	35	25307.326	181.13				mg/L
Kr	83	27.334	-18.00				mg/L
Br	81	16259.875	7426.64				mg/L
P	31	17413.180	6918.97				mg/L
S	34	249678.813	76520.01				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.744			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		120.235			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		125.112			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		107.108			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Thursday, November 25, 2010 01:54:42

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
In 115 Int Std for QC S	In	115	Rerun for AFCEE QC
Tb 159 Int Std for QC	Tb	159	Rerun for AFCEE QC

Sample ID: QC Std 7
Report Date/Time: Thursday, November 25, 2010 01:54:42
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063306

Sample Date/Time: Thursday, November 25, 2010 01:59:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 111
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	48550.909	0.05				ug/L
|	Be	9	5.333	-0.00	0.0447	0.007	15.864	ug/L
|	Al	27	67795.733	0.20	8.5208	0.060	0.703	ug/L
⌊>	Sc	45	306888.520	306888.52				ug/L
⌈	Ti	49	80.008	0.00	-0.0222	0.028	124.449	ug/L
|	V	51	2937.211	0.00	0.0045	0.001	27.990	ug/L
|	Cr	52	9240.694	0.00	-0.0029	0.006	201.385	ug/L
|	Cr	53	480.060	0.00	0.0694	0.074	105.999	ug/L
|	Mn	55	2203460.194	4.82	152.8866	1.335	0.873	ug/L
|	Co	59	1244.423	0.00	0.0788	0.002	2.427	ug/L
|	Ni	60	1004.061	0.00	0.3557	0.013	3.640	ug/L
|	Cu	65	350.676	0.00	0.0649	0.012	17.882	ug/L
|	Zn	66	3115.850	0.00	1.1418	0.031	2.749	ug/L
|>	Ge	72	457151.900	457151.90				ug/L
|	As	75	-123.420	0.00	0.1060	0.024	23.000	ug/L
|	Se	77	136.681	0.00	0.9336	0.338	36.192	ug/L
|	Se	82	29.792	0.00	0.3516	0.073	20.799	ug/L
⌊	Rb	85	376.011	0.00				mg/L
	Y	89	262356.346	11562.25				ug/L
	Rh	103	12.333	-6.67				ug/L
⌈	Mo	98	391.464	0.00	0.1729	0.007	3.763	ug/L
|	Ag	107	29.667	-0.00	-0.0718	0.002	2.914	ug/L
|	Cd	114	17.761	0.00	-0.0002	0.005	2207.721	ug/L
|>	In	115	387524.807	387524.81				ug/L
|	Sn	118	560.949	-0.00	-0.1733	0.002	1.048	ug/L
⌊	Sb	123	121.748	0.00	0.0338	0.006	18.103	ug/L
⌈	Ba	135	21513.671	0.04	10.7313	0.200	1.861	ug/L
|	Ce	140	520.066	0.00				ug/L
⌊>	Tb	159	521542.186	521542.19				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	69.668	0.00	0.0114	0.001	12.986	ug/L
|	Tl	205	160.017	-0.00	0.0043	0.001	34.124	ug/L
|	Pb	206	553.021	-0.00	-0.0155	0.003	16.691	ug/L
|	Pb	207	470.016	-0.00	-0.0077	0.004	50.184	ug/L
|	Pb	208	2157.446	-0.00	-0.0139	0.003	21.250	ug/L
|	U	238	853.045	0.00	0.0267	0.001	1.901	ug/L
⌊>	Bi	209	462369.932	462369.93				ug/L

Sample ID: L1011063306
Report Date/Time: Thursday, November 25, 2010 02:01:30
Page 1

Approved: November 29, 2010

Na	23	17639142.095	57.44	2.7249	0.030	1.118	mg/L
Mg	24	4044695.512	13.18	0.9458	0.029	3.110	mg/L
K	39	2498249.418	6.55	0.1871	0.002	1.023	mg/L
Ca	43	96947.465	0.32	4.3716	0.085	1.949	mg/L
Fe	54	48743.843	-0.03	-0.0079	0.001	7.932	mg/L
Fe	57	18142.017	0.03	0.0308	0.011	35.508	mg/L
> Sc-1	45	306888.520	306888.52				mg/L
Cl	35	79564.675	54438.48				mg/L
Kr	83	24.000	-21.33				mg/L
Br	81	19343.367	10510.13				mg/L
P	31	11364.460	870.25				mg/L
S	34	315397.243	142238.44				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		103.593			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		119.070			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		123.305			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		106.860			
Na	23					

Sample ID: L1011063306
Report Date/Time: Thursday, November 25, 2010 02:01:30
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Sample ID: L1011063306
Report Date/Time: Thursday, November 25, 2010 02:01:30
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063308

Sample Date/Time: Thursday, November 25, 2010 02:06:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 112
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	53358.836	0.06				ug/L
|	Be	9	14.000	0.00	0.0660	0.009	13.242	ug/L
|	Al	27	2746134.203	9.10	389.1507	19.230	4.941	ug/L
⌊>	Sc	45	301133.965	301133.96				ug/L
⌈	Ti	49	2200.464	0.00	3.0294	0.348	11.489	ug/L
|	V	51	25615.686	0.05	2.0827	0.127	6.094	ug/L
|	Cr	52	15060.484	0.01	0.6398	0.033	5.220	ug/L
|	Cr	53	1060.163	0.00	0.6181	0.145	23.466	ug/L
|	Mn	55	635655.215	1.41	44.6412	2.262	5.066	ug/L
|	Co	59	17352.897	0.04	1.4045	0.063	4.466	ug/L
|	Ni	60	3372.936	0.01	1.2837	0.032	2.525	ug/L
|	Cu	65	11903.541	0.03	4.4563	0.214	4.798	ug/L
|	Zn	66	181031.035	0.40	121.7807	4.540	3.728	ug/L
|>	Ge	72	451519.165	451519.17				ug/L
|	As	75	1665.492	0.00	1.8911	0.108	5.705	ug/L
|	Se	77	80.008	0.00	0.1650	0.698	423.146	ug/L
|	Se	82	34.082	0.00	0.4031	0.060	14.886	ug/L
⌊	Rb	85	6494.507	0.01				mg/L
	Y	89	275531.840	24737.74				ug/L
	Rh	103	7.667	-11.33				ug/L
⌈	Mo	98	615.628	0.00	0.2616	0.011	4.167	ug/L
|	Ag	107	122.335	-0.00	-0.0545	0.000	0.517	ug/L
|	Cd	114	16.978	0.00	-0.0008	0.001	175.575	ug/L
|>	In	115	384697.632	384697.63				ug/L
|	Sn	118	1537.585	0.00	0.0513	0.028	54.226	ug/L
⌊	Sb	123	206.459	0.00	0.0559	0.001	2.376	ug/L
⌈	Ba	135	453885.585	0.89	232.2220	8.815	3.796	ug/L
|	Ce	140	15620.431	0.03				ug/L
⌊>	Tb	159	508905.966	508905.97				ug/L
⌈	Ho	165	313.370	0.00				ug/L
|	Tl	203	147.669	0.00	0.0223	0.002	9.328	ug/L
|	Tl	205	370.044	0.00	0.0162	0.005	29.472	ug/L
|	Pb	206	3496.314	0.01	0.4744	0.031	6.569	ug/L
|	Pb	207	2940.128	0.01	0.4439	0.014	3.135	ug/L
|	Pb	208	13980.698	0.03	0.4619	0.024	5.163	ug/L
|	U	238	7156.303	0.02	0.1839	0.010	5.645	ug/L
⌊>	Bi	209	447979.733	447979.73				ug/L

Sample ID: L1011063308
Report Date/Time: Thursday, November 25, 2010 02:08:17
Page 1

Approved: November 29, 2010

Na	23	95496284.897	317.16	15.0574	0.694	4.607	mg/L	
Mg	24	944384.164	3.14	0.2228	0.007	3.247	mg/L	
K	39	4619715.155	13.75	0.3957	0.008	2.075	mg/L	
Ca	43	38223.606	0.13	1.7525	0.138	7.857	mg/L	
Fe	54	298905.645	0.81	0.3271	0.020	6.031	mg/L	
Fe	57	118369.373	0.37	0.3671	0.024	6.503	mg/L	
> Sc-1	45	301133.965	301133.96				mg/L	
Cl	35	74237.890	49111.70				mg/L	
Kr	83	29.000	-16.33				mg/L	
Br	81	18413.604	9580.37				mg/L	
P	31	24478.594	13984.38				mg/L	
S	34	315184.625	142025.82				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		102.317			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		118.201			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		120.317			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.534			
Na	23					

Sample ID: L1011063308
Report Date/Time: Thursday, November 25, 2010 02:08:17
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063310

Sample Date/Time: Thursday, November 25, 2010 02:12:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 113
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	52320.179	0.06				ug/L
|	Be	9	8.000	-0.00	0.0510	0.012	24.299	ug/L
|	Al	27	1374983.890	4.45	190.2706	24.779	13.023	ug/L
⌊>	Sc	45	307540.877	307540.88				ug/L
⌈	Ti	49	970.144	0.00	1.2442	0.085	6.830	ug/L
|	V	51	11195.709	0.02	0.7522	0.068	9.093	ug/L
|	Cr	52	16457.054	0.02	0.7717	0.102	13.248	ug/L
|	Cr	53	1106.839	0.00	0.6500	0.082	12.596	ug/L
|	Mn	55	180854.412	0.40	12.5383	1.362	10.862	ug/L
|	Co	59	38573.300	0.08	3.1150	0.275	8.816	ug/L
|	Ni	60	4186.924	0.01	1.5835	0.169	10.648	ug/L
|	Cu	65	18249.925	0.04	6.7930	0.704	10.363	ug/L
|	Zn	66	165187.179	0.36	109.8412	11.614	10.574	ug/L
|>	Ge	72	456511.731	456511.73				ug/L
|	As	75	3419.546	0.01	3.6052	0.248	6.888	ug/L
|	Se	77	93.343	0.00	0.3388	0.431	127.178	ug/L
|	Se	82	50.070	0.00	0.5722	0.091	15.869	ug/L
⌊	Rb	85	2740.738	0.01				mg/L
	Y	89	273145.308	22351.21				ug/L
	Rh	103	8.667	-10.33				ug/L
⌈	Mo	98	2035.534	0.01	0.8187	0.062	7.581	ug/L
|	Ag	107	82.334	-0.00	-0.0619	0.001	0.918	ug/L
|	Cd	114	23.610	0.00	0.0045	0.005	120.698	ug/L
|>	In	115	384002.530	384002.53				ug/L
|	Sn	118	690.290	-0.00	-0.1424	0.004	2.892	ug/L
⌊	Sb	123	163.208	0.00	0.0449	0.005	11.724	ug/L
⌈	Ba	135	402466.528	0.78	202.8418	20.861	10.284	ug/L
|	Ce	140	19116.963	0.04				ug/L
⌊>	Tb	159	516648.970	516648.97				ug/L
⌈	Ho	165	936.804	0.00				ug/L
|	Tl	203	66.668	0.00	0.0113	0.002	13.686	ug/L
|	Tl	205	186.687	0.00	0.0061	0.003	47.282	ug/L
|	Pb	206	2528.013	0.00	0.3140	0.039	12.454	ug/L
|	Pb	207	2075.903	0.00	0.2867	0.027	9.506	ug/L
|	Pb	208	9828.005	0.02	0.2956	0.034	11.622	ug/L
|	U	238	14433.301	0.03	0.3645	0.043	11.816	ug/L
⌊>	Bi	209	448423.185	448423.19				ug/L

Sample ID: L1011063310
Report Date/Time: Thursday, November 25, 2010 02:15:05
Page 1

Approved: November 29, 2010

⌈	Na	23	132244074.593	430.01	20.4163	1.647	8.066	mg/L
|	Mg	24	321840.490	1.05	0.0723	0.008	11.478	mg/L
|	K	39	3276106.847	9.06	0.2598	0.021	8.224	mg/L
|	Ca	43	9425.429	0.03	0.4164	0.053	12.836	mg/L
|	Fe	54	544753.127	1.59	0.6398	0.071	11.089	mg/L
|	Fe	57	222162.490	0.70	0.6984	0.075	10.707	mg/L
⌊>	Sc-1	45	307540.877	307540.88				mg/L
	Cl	35	59310.096	34183.90				mg/L
	Kr	83	30.334	-15.00				mg/L
	Br	81	18609.971	9776.74				mg/L
	P	31	130049.695	119555.48				mg/L
	S	34	307224.881	134066.08				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.448			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		117.988			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		122.148			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.636			
⌈	Na	23					

Sample ID: L1011063310
Report Date/Time: Thursday, November 25, 2010 02:15:05
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063312

Sample Date/Time: Thursday, November 25, 2010 02:19:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 114
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	54464.662	0.06				ug/L
|	Be	9	5.333	-0.00	0.0446	0.012	26.377	ug/L
|	Al	27	139410.640	0.43	18.2807	2.694	14.738	ug/L
⌊>	Sc	45	310463.226	310463.23				ug/L
⌈	Ti	49	373.379	0.00	0.3877	0.303	78.121	ug/L
|	V	51	3067.673	0.00	0.0132	0.012	92.231	ug/L
|	Cr	52	9600.370	0.00	0.0243	0.023	96.534	ug/L
|	Cr	53	486.727	0.00	0.0706	0.015	20.712	ug/L
|	Mn	55	6207.340	0.01	0.3897	0.054	13.772	ug/L
|	Co	59	581.689	0.00	0.0244	0.002	6.444	ug/L
|	Ni	60	475.016	0.00	0.1502	0.011	7.398	ug/L
|	Cu	65	244.005	0.00	0.0240	0.008	34.669	ug/L
|	Zn	66	4146.569	0.01	1.8015	0.164	9.090	ug/L
|>	Ge	72	462280.644	462280.64				ug/L
|	As	75	-161.976	0.00	0.0700	0.013	18.995	ug/L
|	Se	77	73.341	-0.00	0.0455	0.389	855.628	ug/L
|	Se	82	16.736	0.00	0.2094	0.149	71.333	ug/L
⌊	Rb	85	655.695	0.00				mg/L
	Y	89	267986.832	17192.73				ug/L
	Rh	103	8.333	-10.67				ug/L
⌈	Mo	98	40.599	0.00	0.0362	0.004	10.342	ug/L
|	Ag	107	21.000	-0.00	-0.0735	0.001	1.912	ug/L
|	Cd	114	11.550	-0.00	-0.0055	0.003	61.395	ug/L
|>	In	115	397454.873	397454.87				ug/L
|	Sn	118	471.344	-0.00	-0.1963	0.006	2.859	ug/L
⌊	Sb	123	62.495	-0.00	0.0184	0.001	3.336	ug/L
⌈	Ba	135	4393.684	0.01	2.1434	0.238	11.113	ug/L
|	Ce	140	660.090	0.00				ug/L
⌊>	Tb	159	531091.172	531091.17				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	20.000	-0.00	0.0048	0.000	6.904	ug/L
|	Tl	205	50.005	-0.00	-0.0016	0.001	65.697	ug/L
|	Pb	206	491.017	-0.00	-0.0263	0.003	10.720	ug/L
|	Pb	207	413.013	-0.00	-0.0187	0.004	20.399	ug/L
|	Pb	208	1922.758	-0.00	-0.0239	0.000	1.648	ug/L
|	U	238	52.667	0.00	0.0074	0.000	1.603	ug/L
⌊>	Bi	209	467929.842	467929.84				ug/L

Sample ID: L1011063312
Report Date/Time: Thursday, November 25, 2010 02:21:54
Page 1

Approved: November 29, 2010

⌈	Na	23	30917989.784	99.61	4.7274	0.459	9.702	mg/L
|	Mg	24	1149095.299	3.70	0.2636	0.031	11.687	mg/L
|	K	39	1834120.045	4.32	0.1225	0.011	8.922	mg/L
|	Ca	43	14845.880	0.05	0.6552	0.067	10.195	mg/L
|	Fe	54	52925.478	-0.01	-0.0032	0.002	60.590	mg/L
|	Fe	57	14291.662	0.02	0.0177	0.003	16.502	mg/L
⌊>	Sc-1	45	310463.226	310463.23				mg/L
	Cl	35	104112.665	78986.47				mg/L
	Kr	83	30.334	-15.00				mg/L
	Br	81	17069.229	8235.99				mg/L
	P	31	12272.861	1778.65				mg/L
	S	34	314554.672	141395.87				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.756			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		122.121			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		125.562			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		108.145			
⌈	Na	23					

Sample ID: L1011063312
Report Date/Time: Thursday, November 25, 2010 02:21:54
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
In 115 Int Std for sam	In	115	Rerun for AFCEE sample
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063314

Sample Date/Time: Thursday, November 25, 2010 02:26:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 115
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌜	Li	6	54196.489	0.06				ug/L
|	Be	9	24.667	0.00	0.0886	0.010	10.796	ug/L
|	Al	27	5169987.437	16.28	696.1186	144.141	20.706	ug/L
⌊>	Sc	45	317736.336	317736.34				ug/L
⌜	Ti	49	3851.141	0.01	5.4148	1.005	18.559	ug/L
|	V	51	33348.163	0.07	2.7970	0.561	20.048	ug/L
|	Cr	52	18166.124	0.02	0.9797	0.235	23.972	ug/L
|	Cr	53	1406.910	0.00	0.9458	0.329	34.770	ug/L
|	Mn	55	727685.959	1.62	51.2360	10.476	20.447	ug/L
|	Co	59	18524.326	0.04	1.5043	0.280	18.641	ug/L
|	Ni	60	4635.490	0.01	1.7809	0.429	24.110	ug/L
|	Cu	65	12575.877	0.03	4.7235	0.953	20.167	ug/L
|	Zn	66	139818.558	0.31	94.0743	18.522	19.688	ug/L
|>	Ge	72	451134.910	451134.91				ug/L
|	As	75	1816.847	0.00	2.0462	0.329	16.063	ug/L
|	Se	77	96.677	0.00	0.4015	0.668	166.279	ug/L
|	Se	82	33.073	0.00	0.3921	0.104	26.447	ug/L
⌊	Rb	85	10190.699	0.02				mg/L
	Y	89	269233.363	18439.26				ug/L
	Rh	103	7.667	-11.33				ug/L
⌜	Mo	98	741.045	0.00	0.3105	0.060	19.407	ug/L
|	Ag	107	108.002	-0.00	-0.0572	0.005	8.174	ug/L
|	Cd	114	30.104	0.00	0.0097	0.015	155.421	ug/L
|>	In	115	385736.943	385736.94				ug/L
|	Sn	118	609.485	-0.00	-0.1615	0.010	6.132	ug/L
⌊	Sb	123	165.707	0.00	0.0454	0.011	23.489	ug/L
⌜	Ba	135	358113.658	0.69	179.3885	36.422	20.304	ug/L
|	Ce	140	29424.096	0.06				ug/L
⌊>	Tb	159	520651.835	520651.83				ug/L
⌜	Ho	165	606.746	0.00				ug/L
|	Tl	203	97.001	0.00	0.0154	0.002	10.858	ug/L
|	Tl	205	230.026	0.00	0.0085	0.005	55.199	ug/L
|	Pb	206	3435.636	0.01	0.4636	0.105	22.613	ug/L
|	Pb	207	2863.112	0.01	0.4293	0.087	20.322	ug/L
|	Pb	208	13439.072	0.02	0.4395	0.090	20.373	ug/L
|	U	238	14976.635	0.03	0.3777	0.076	20.068	ug/L
⌊>	Bi	209	449032.268	449032.27				ug/L

Sample ID: L1011063314
Report Date/Time: Thursday, November 25, 2010 02:28:42
Page 1

Approved: November 29, 2010

Na	23	144439193.697	455.14	21.6095	3.506	16.225	mg/L	
Mg	24	442573.609	1.39	0.0974	0.020	20.305	mg/L	
K	39	4338040.460	12.08	0.3472	0.054	15.610	mg/L	
Ca	43	10984.076	0.03	0.4717	0.132	27.909	mg/L	
Fe	54	445576.792	1.22	0.4925	0.114	23.079	mg/L	
Fe	57	177397.274	0.53	0.5342	0.113	21.097	mg/L	
> Sc-1	45	317736.336	317736.34				mg/L	
Cl	35	69697.577	44571.38				mg/L	
Kr	83	30.000	-15.33				mg/L	
Br	81	22872.799	14039.56				mg/L	
P	31	37330.792	26836.58				mg/L	
S	34	313383.537	140224.74				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		102.230			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		118.521			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		123.094			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.777			
Na	23					

Sample ID: L1011063314
Report Date/Time: Thursday, November 25, 2010 02:28:42
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ba 135 Upper, S, EEE	Ba	135	
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Sample ID: L1011063314
Report Date/Time: Thursday, November 25, 2010 02:28:42
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063316

Sample Date/Time: Thursday, November 25, 2010 02:33:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 116
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	53744.261	0.06				ug/L
|	Be	9	37.333	0.00	0.1168	0.003	2.575	ug/L
|	Al	27	7096282.027	22.08	944.2518	151.395	16.033	ug/L
⌊>	Sc	45	320694.839	320694.84				ug/L
⌈	Ti	49	6179.219	0.01	8.8424	1.381	15.618	ug/L
|	V	51	59803.624	0.13	5.2685	1.022	19.394	ug/L
|	Cr	52	23728.267	0.03	1.6051	0.323	20.135	ug/L
|	Cr	53	2237.149	0.00	1.7422	0.512	29.403	ug/L
|	Mn	55	1803972.997	4.04	128.1182	24.997	19.511	ug/L
|	Co	59	16221.535	0.04	1.3256	0.231	17.424	ug/L
|	Ni	60	4588.455	0.01	1.7766	0.348	19.610	ug/L
|	Cu	65	13085.906	0.03	4.9595	1.037	20.919	ug/L
|	Zn	66	197860.277	0.44	134.6336	25.797	19.161	ug/L
|>	Ge	72	447202.302	447202.30				ug/L
|	As	75	2517.683	0.01	2.7693	0.534	19.266	ug/L
|	Se	77	86.676	0.00	0.2729	0.448	163.956	ug/L
|	Se	82	28.029	0.00	0.3408	0.149	43.676	ug/L
⌊	Rb	85	14939.448	0.03				mg/L
	Y	89	269232.869	18438.77				ug/L
	Rh	103	9.333	-9.67				ug/L
⌈	Mo	98	465.431	0.00	0.2058	0.028	13.630	ug/L
|	Ag	107	155.003	-0.00	-0.0480	0.002	4.197	ug/L
|	Cd	114	38.148	0.00	0.0165	0.006	36.318	ug/L
|>	In	115	378897.063	378897.06				ug/L
|	Sn	118	778.964	-0.00	-0.1195	0.021	17.431	ug/L
⌊	Sb	123	219.876	0.00	0.0602	0.009	15.430	ug/L
⌈	Ba	135	474726.787	0.93	241.1770	51.368	21.299	ug/L
|	Ce	140	54089.029	0.11				ug/L
⌊>	Tb	159	513658.948	513658.95				ug/L
⌈	Ho	165	1003.487	0.00				ug/L
|	Tl	203	139.336	0.00	0.0215	0.003	13.668	ug/L
|	Tl	205	313.370	0.00	0.0134	0.004	30.379	ug/L
|	Pb	206	5448.238	0.01	0.8163	0.179	21.949	ug/L
|	Pb	207	4550.771	0.01	0.7543	0.167	22.098	ug/L
|	Pb	208	21474.838	0.04	0.7799	0.168	21.557	ug/L
|	U	238	12610.609	0.03	0.3260	0.067	20.498	ug/L
⌊>	Bi	209	439399.869	439399.87				ug/L

Sample ID: L1011063316
Report Date/Time: Thursday, November 25, 2010 02:35:31
Page 1

Approved: November 29, 2010

Na	23	150449192.039	468.59	22.2479	3.316	14.907	mg/L	
Mg	24	666183.123	2.07	0.1463	0.027	18.169	mg/L	
K	39	5800522.493	16.48	0.4746	0.066	13.919	mg/L	
Ca	43	14011.385	0.04	0.5966	0.093	15.576	mg/L	
Fe	54	679583.742	1.93	0.7783	0.151	19.464	mg/L	
Fe	57	277888.560	0.84	0.8424	0.148	17.515	mg/L	
Sc-1	45	320694.839	320694.84				mg/L	
Cl	35	66885.838	41759.64				mg/L	
Kr	83	35.000	-10.33				mg/L	
Br	81	17974.807	9141.57				mg/L	
P	31	49576.677	39082.47				mg/L	
S	34	309064.868	135906.07				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.339			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		116.419			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		121.441			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		101.551			
Na	23					

Sample ID: L1011063316
Report Date/Time: Thursday, November 25, 2010 02:35:31
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063318

Sample Date/Time: Thursday, November 25, 2010 02:40:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 117
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	51482.247	0.05				ug/L
|	Be	9	13.333	0.00	0.0636	0.008	11.846	ug/L
|	Al	27	1724307.838	5.60	239.5614	40.022	16.706	ug/L
⌊>	Sc	45	307958.109	307958.11				ug/L
⌈	Ti	49	1226.865	0.00	1.6347	0.188	11.512	ug/L
|	V	51	6960.773	0.01	0.3782	0.046	12.273	ug/L
|	Cr	52	12129.144	0.01	0.3272	0.040	12.167	ug/L
|	Cr	53	600.078	0.00	0.1892	0.060	31.577	ug/L
|	Mn	55	890304.419	1.98	62.7644	6.737	10.734	ug/L
|	Co	59	12475.613	0.03	1.0072	0.095	9.398	ug/L
|	Ni	60	1309.767	0.00	0.4816	0.070	14.487	ug/L
|	Cu	65	7136.304	0.02	2.6547	0.298	11.213	ug/L
|	Zn	66	174937.508	0.39	118.0823	12.591	10.663	ug/L
|>	Ge	72	449799.622	449799.62				ug/L
|	As	75	680.599	0.00	0.9100	0.024	2.648	ug/L
|	Se	77	50.005	-0.00	-0.2521	0.488	193.562	ug/L
|	Se	82	30.084	0.00	0.3606	0.100	27.723	ug/L
⌊	Rb	85	3554.003	0.01				mg/L
	Y	89	261819.243	11025.14				ug/L
	Rh	103	15.000	-4.00				ug/L
⌈	Mo	98	398.985	0.00	0.1789	0.021	11.732	ug/L
|	Ag	107	38.000	-0.00	-0.0701	0.001	0.831	ug/L
|	Cd	114	23.391	0.00	0.0046	0.005	118.359	ug/L
|>	In	115	379495.677	379495.68				ug/L
|	Sn	118	572.950	-0.00	-0.1678	0.003	1.741	ug/L
⌊	Sb	123	81.122	-0.00	0.0240	0.004	15.638	ug/L
⌈	Ba	135	473112.869	0.92	240.4417	29.343	12.204	ug/L
|	Ce	140	16612.313	0.03				ug/L
⌊>	Tb	159	512828.384	512828.38				ug/L
⌈	Ho	165	423.385	0.00				ug/L
|	Tl	203	66.334	0.00	0.0111	0.001	7.118	ug/L
|	Tl	205	136.681	-0.00	0.0032	0.001	41.764	ug/L
|	Pb	206	3269.903	0.01	0.4278	0.044	10.256	ug/L
|	Pb	207	2729.736	0.00	0.3975	0.051	12.891	ug/L
|	Pb	208	12884.092	0.02	0.4094	0.051	12.358	ug/L
|	U	238	1609.147	0.00	0.0455	0.005	9.893	ug/L
⌊>	Bi	209	455748.039	455748.04				ug/L

Sample ID: L1011063318
Report Date/Time: Thursday, November 25, 2010 02:42:21
Page 1

Approved: November 29, 2010

Na	23	32737740.127	106.63	5.0609	0.687	13.581	mg/L	
Mg	24	2806413.905	9.15	0.6557	0.109	16.635	mg/L	
K	39	3766986.291	10.67	0.3066	0.039	12.672	mg/L	
Ca	43	52349.633	0.17	2.3570	0.344	14.580	mg/L	
Fe	54	302149.748	0.80	0.3236	0.046	14.320	mg/L	
Fe	57	121384.740	0.37	0.3697	0.063	17.004	mg/L	
Sc-1	45	307958.109	307958.11				mg/L	
Cl	35	42969.455	17843.26				mg/L	
Kr	83	28.667	-16.67				mg/L	
Br	81	17727.040	8893.80				mg/L	
P	31	32630.557	22136.34				mg/L	
S	34	266379.965	93221.16				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.927			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		116.603			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		121.244			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		105.329			
Na	23					

Sample ID: L1011063318
Report Date/Time: Thursday, November 25, 2010 02:42:21
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063320

Sample Date/Time: Thursday, November 25, 2010 02:46:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 118
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	51566.138	0.05				ug/L
|	Be	9	3.333	-0.00	0.0400	0.007	18.137	ug/L
|	Al	27	95692.344	0.29	12.2958	1.488	12.100	ug/L
⌊>	Sc	45	309672.070	309672.07				ug/L
⌈	Ti	49	206.690	0.00	0.1633	0.077	47.041	ug/L
|	V	51	4972.862	0.00	0.1961	0.005	2.466	ug/L
|	Cr	52	9942.707	0.00	0.0907	0.012	13.561	ug/L
|	Cr	53	506.730	0.00	0.1024	0.076	73.774	ug/L
|	Mn	55	191774.581	0.43	13.5080	1.114	8.246	ug/L
|	Co	59	3825.439	0.01	0.2938	0.026	8.832	ug/L
|	Ni	60	467.349	0.00	0.1523	0.013	8.287	ug/L
|	Cu	65	348.343	0.00	0.0664	0.013	20.240	ug/L
|	Zn	66	3803.762	0.01	1.6463	0.061	3.725	ug/L
|>	Ge	72	449388.295	449388.30				ug/L
|	As	75	134.266	0.00	0.3631	0.077	21.324	ug/L
|	Se	77	66.674	-0.00	-0.0177	0.161	908.296	ug/L
|	Se	82	38.737	0.00	0.4573	0.174	37.969	ug/L
⌊	Rb	85	227.005	0.00				mg/L
	Y	89	259674.095	8880.00				ug/L
	Rh	103	6.000	-13.00				ug/L
⌈	Mo	98	173.012	0.00	0.0882	0.006	6.244	ug/L
|	Ag	107	31.334	-0.00	-0.0715	0.001	1.764	ug/L
|	Cd	114	5.862	-0.00	-0.0097	0.007	69.130	ug/L
|>	In	115	386340.121	386340.12				ug/L
|	Sn	118	508.413	-0.00	-0.1849	0.003	1.544	ug/L
⌊	Sb	123	55.831	-0.00	0.0172	0.002	8.929	ug/L
⌈	Ba	135	4486.390	0.01	2.2309	0.218	9.772	ug/L
|	Ce	140	470.058	0.00				ug/L
⌊>	Tb	159	521601.315	521601.31				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	23.334	-0.00	0.0053	0.001	12.498	ug/L
|	Tl	205	56.673	-0.00	-0.0012	0.001	116.217	ug/L
|	Pb	206	464.349	-0.00	-0.0283	0.002	5.878	ug/L
|	Pb	207	422.680	-0.00	-0.0147	0.001	9.924	ug/L
|	Pb	208	1919.759	-0.00	-0.0217	0.002	11.158	ug/L
|	U	238	3390.613	0.01	0.0893	0.009	10.105	ug/L
⌊>	Bi	209	453840.550	453840.55				ug/L

Sample ID: L1011063320
Report Date/Time: Thursday, November 25, 2010 02:49:10
Page 1

Approved: November 29, 2010

⌈	Na	23	72528599.086	234.30	11.1229	0.931	8.373	mg/L
|	Mg	24	884724.515	2.86	0.2028	0.019	9.614	mg/L
|	K	39	1810961.227	4.26	0.1208	0.010	8.013	mg/L
|	Ca	43	48924.811	0.16	2.1834	0.204	9.363	mg/L
|	Fe	54	78331.994	0.07	0.0300	0.005	17.743	mg/L
|	Fe	57	26029.790	0.06	0.0560	0.004	6.455	mg/L
⌊>	Sc-1	45	309672.070	309672.07				mg/L
	Cl	35	98049.975	72923.78				mg/L
	Kr	83	30.334	-15.00				mg/L
	Br	81	25423.618	16590.38				mg/L
	P	31	12608.620	2114.41				mg/L
	S	34	318773.018	145614.22				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.834			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		118.706			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		123.319			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.888			
⌈	Na	23					

Sample ID: L1011063320
Report Date/Time: Thursday, November 25, 2010 02:49:10
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063322

Sample Date/Time: Thursday, November 25, 2010 02:53:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 119
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	51180.680	0.05				ug/L
|	Be	9	19.333	0.00	0.0779	0.019	24.878	ug/L
|	Al	27	4758777.099	15.51	663.1600	3.254	0.491	ug/L
⌊>	Sc	45	306443.152	306443.15				ug/L
⌈	Ti	49	5178.525	0.01	7.2469	0.093	1.277	ug/L
|	V	51	11472.596	0.02	0.7797	0.011	1.382	ug/L
|	Cr	52	14176.518	0.01	0.5312	0.026	4.970	ug/L
|	Cr	53	906.799	0.00	0.4670	0.078	16.691	ug/L
|	Mn	55	172451.990	0.38	11.9805	0.060	0.499	ug/L
|	Co	59	2736.402	0.01	0.2008	0.003	1.696	ug/L
|	Ni	60	2041.896	0.00	0.7584	0.023	3.021	ug/L
|	Cu	65	5105.354	0.01	1.8567	0.018	0.956	ug/L
|	Zn	66	212630.031	0.46	141.9751	1.484	1.045	ug/L
|>	Ge	72	455333.796	455333.80				ug/L
|	As	75	221.637	0.00	0.4475	0.043	9.564	ug/L
|	Se	77	83.342	0.00	0.2022	0.217	107.163	ug/L
|	Se	82	15.368	0.00	0.1974	0.192	97.215	ug/L
⌊	Rb	85	11392.937	0.02				mg/L
	Y	89	268038.567	17244.47				ug/L
	Rh	103	7.667	-11.33				ug/L
⌈	Mo	98	69.636	0.00	0.0478	0.004	7.430	ug/L
|	Ag	107	41.667	-0.00	-0.0696	0.000	0.174	ug/L
|	Cd	114	16.953	0.00	-0.0009	0.004	402.784	ug/L
|>	In	115	387353.351	387353.35				ug/L
|	Sn	118	592.684	-0.00	-0.1660	0.002	1.105	ug/L
⌊	Sb	123	110.165	0.00	0.0310	0.004	11.564	ug/L
⌈	Ba	135	553203.016	1.07	277.6364	2.595	0.935	ug/L
|	Ce	140	31626.532	0.06				ug/L
⌊>	Tb	159	518838.078	518838.08				ug/L
⌈	Ho	165	363.376	0.00				ug/L
|	Tl	203	141.002	0.00	0.0208	0.001	2.634	ug/L
|	Tl	205	316.703	0.00	0.0127	0.002	18.348	ug/L
|	Pb	206	4715.159	0.01	0.6512	0.010	1.461	ug/L
|	Pb	207	4014.513	0.01	0.6162	0.021	3.479	ug/L
|	Pb	208	18752.459	0.03	0.6290	0.014	2.177	ug/L
|	U	238	499.684	0.00	0.0182	0.000	0.563	ug/L
⌊>	Bi	209	462654.784	462654.78				ug/L

Sample ID: L1011063322
Report Date/Time: Thursday, November 25, 2010 02:55:56
Page 1

Approved: November 29, 2010

Na	23	20820532.687	67.90	3.2216	0.015	0.479	mg/L	
Mg	24	1331688.629	4.34	0.3098	0.004	1.277	mg/L	
K	39	5517346.867	16.41	0.4728	0.009	1.851	mg/L	
Ca	43	24689.577	0.08	1.1088	0.018	1.667	mg/L	
Fe	54	572012.888	1.68	0.6783	0.015	2.159	mg/L	
Fe	57	232433.235	0.73	0.7350	0.020	2.757	mg/L	
> Sc-1	45	306443.152	306443.15				mg/L	
Cl	35	59332.180	34205.98				mg/L	
Kr	83	34.334	-11.00				mg/L	
Br	81	16627.819	7794.58				mg/L	
P	31	17896.676	7402.46				mg/L	
S	34	288629.113	115470.31				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		103.181			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		119.017			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		122.665			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		106.925			
Na	23					

Sample ID: L1011063322
Report Date/Time: Thursday, November 25, 2010 02:55:56
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063324

Sample Date/Time: Thursday, November 25, 2010 03:00:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 120
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	56459.013	0.07				ug/L
|	Be	9	7.333	-0.00	0.0494	0.010	19.294	ug/L
|	Al	27	1584704.997	5.17	220.8653	25.193	11.406	ug/L
⌊>	Sc	45	305325.801	305325.80				ug/L
⌈	Ti	49	1210.196	0.00	1.6280	0.358	21.990	ug/L
|	V	51	9017.398	0.01	0.5747	0.076	13.161	ug/L
|	Cr	52	13173.483	0.01	0.4537	0.082	17.968	ug/L
|	Cr	53	530.067	0.00	0.1279	0.010	7.618	ug/L
|	Mn	55	89500.761	0.20	6.3365	0.791	12.485	ug/L
|	Co	59	4004.180	0.01	0.3112	0.035	11.260	ug/L
|	Ni	60	891.049	0.00	0.3211	0.046	14.201	ug/L
|	Cu	65	4257.291	0.01	1.5723	0.215	13.696	ug/L
|	Zn	66	201249.612	0.45	137.2834	17.656	12.861	ug/L
|>	Ge	72	445930.465	445930.46				ug/L
|	As	75	504.160	0.00	0.7375	0.008	1.029	ug/L
|	Se	77	60.006	-0.00	-0.1061	0.371	349.966	ug/L
|	Se	82	23.424	0.00	0.2896	0.206	71.197	ug/L
⌊	Rb	85	4327.984	0.01				mg/L
	Y	89	261322.925	10528.83				ug/L
	Rh	103	6.000	-13.00				ug/L
⌈	Mo	98	4478.653	0.01	1.7930	0.195	10.888	ug/L
|	Ag	107	142.002	-0.00	-0.0506	0.005	9.569	ug/L
|	Cd	114	10.008	-0.00	-0.0063	0.004	64.266	ug/L
|>	In	115	380394.698	380394.70				ug/L
|	Sn	118	598.018	-0.00	-0.1623	0.009	5.847	ug/L
⌊	Sb	123	91.290	-0.00	0.0266	0.005	18.897	ug/L
⌈	Ba	135	437615.154	0.83	217.4015	29.008	13.343	ug/L
|	Ce	140	6419.390	0.01				ug/L
⌊>	Tb	159	524443.219	524443.22				ug/L
⌈	Ho	165	156.684	0.00				ug/L
|	Tl	203	75.668	0.00	0.0127	0.002	12.914	ug/L
|	Tl	205	180.020	0.00	0.0060	0.004	71.940	ug/L
|	Pb	206	2346.634	0.00	0.2938	0.051	17.331	ug/L
|	Pb	207	1957.880	0.00	0.2743	0.050	18.165	ug/L
|	Pb	208	9321.497	0.02	0.2847	0.046	16.284	ug/L
|	U	238	2509.344	0.01	0.0701	0.010	14.465	ug/L
⌊>	Bi	209	437670.244	437670.24				ug/L

Sample ID: L1011063324
Report Date/Time: Thursday, November 25, 2010 03:02:43
Page 1

Approved: November 29, 2010

Na	23	324673155.815	1062.74	50.4605	4.766	9.445	mg/L
Mg	24	472389.944	1.54	0.1083	0.015	13.902	mg/L
K	39	4851208.727	14.29	0.4113	0.029	7.108	mg/L
Ca	43	7446.936	0.02	0.3291	0.069	21.063	mg/L
Fe	54	154703.497	0.32	0.1317	0.017	12.717	mg/L
Fe	57	57203.342	0.16	0.1598	0.017	10.664	mg/L
Sc-1	45	305325.801	305325.80				mg/L
Cl	35	47138.178	22011.98				mg/L
Kr	83	28.000	-17.33				mg/L
Br	81	17758.427	8925.19				mg/L
P	31	19074.186	8579.97				mg/L
S	34	436472.887	263314.09				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.051			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		116.879			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		123.990			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		101.151			
Na	23					

Sample ID: L1011063324
Report Date/Time: Thursday, November 25, 2010 03:02:43
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, November 25, 2010 03:07:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	53526.274	0.06				ug/L
|	Be	9	24811.420	0.08	57.7557	0.919	1.591	ug/L
|	Al	27	379593.747	1.19	50.9628	1.659	3.255	ug/L
⌊>	Sc	45	312907.545	312907.54				ug/L
⌈	Ti	49	68957.456	0.15	98.4370	4.160	4.226	ug/L
|	V	51	567096.633	1.24	51.3144	1.005	1.958	ug/L
|	Cr	52	493514.581	1.07	52.1406	1.093	2.096	ug/L
|	Cr	53	57054.751	0.12	52.6791	1.219	2.315	ug/L
|	Mn	55	791969.797	1.74	55.2979	0.655	1.184	ug/L
|	Co	59	671514.312	1.48	54.8660	0.442	0.805	ug/L
|	Ni	60	139176.884	0.31	53.8957	0.657	1.220	ug/L
|	Cu	65	134151.338	0.30	50.6065	0.692	1.367	ug/L
|	Zn	66	75865.128	0.16	50.1883	0.468	0.932	ug/L
| >	Ge	72	454093.622	454093.62				ug/L
|	As	75	48253.028	0.11	48.1271	0.153	0.317	ug/L
|	Se	77	3901.151	0.01	53.3731	1.910	3.579	ug/L
|	Se	82	4777.620	0.01	52.1186	0.254	0.488	ug/L
⌊	Rb	85	1957.878	0.00				mg/L
	Y	89	266911.915	16117.82				ug/L
	Rh	103	24.000	5.00				ug/L
⌈	Mo	98	223712.308	0.58	86.9991	1.948	2.240	ug/L
|	Ag	107	263218.918	0.68	48.5401	0.450	0.928	ug/L
|	Cd	114	60713.635	0.16	48.1739	0.601	1.247	ug/L
| >	In	115	387050.971	387050.97				ug/L
|	Sn	118	208454.366	0.54	47.1493	0.382	0.811	ug/L
⌊	Sb	123	172361.659	0.45	43.9983	0.464	1.054	ug/L
⌈	Ba	135	85210.023	0.16	42.1729	0.316	0.750	ug/L
|	Ce	140	66.674	0.00				ug/L
⌊>	Tb	159	526015.785	526015.78				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	372942.458	0.82	49.8244	0.442	0.887	ug/L
|	Tl	205	922323.197	2.02	50.2144	0.472	0.941	ug/L
|	Pb	206	301121.114	0.66	48.8556	0.213	0.436	ug/L
|	Pb	207	283227.136	0.62	50.5139	0.435	0.861	ug/L
|	Pb	208	1262905.009	2.77	49.5669	0.067	0.136	ug/L
|	U	238	1956185.608	4.29	47.7458	0.346	0.725	ug/L
⌊>	Bi	209	455746.228	455746.23				ug/L

Sample ID: QC Std 6
Report Date/Time: Thursday, November 25, 2010 03:09:29
Page 1

Approved: November 29, 2010

Na	23	33931871.977	108.43	5.1462	0.106	2.054	mg/L
Mg	24	21699973.802	69.38	4.9905	0.134	2.679	mg/L
K	39	55250266.303	175.04	5.0662	0.104	2.051	mg/L
Ca	43	119512.444	0.38	5.2874	0.096	1.820	mg/L
Fe	54	4062041.298	12.80	5.1453	0.145	2.816	mg/L
Fe	57	1634065.772	5.20	5.2302	0.164	3.141	mg/L
Sc-1	45	312907.545	312907.54				mg/L
Cl	35	25755.792	629.60				mg/L
Kr	83	28.667	-16.67				mg/L
Br	81	15601.498	6768.26				mg/L
P	31	17222.880	6728.67				mg/L
S	34	262469.368	89310.57				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	102.629				
Cr	52	104.281				
Cr	53					
Mn	55	110.596				
Co	59	109.732				
Ni	60	107.791				
Cu	65	101.213				
Zn	66	100.377				
Ge	72		102.900			
As	75	96.254				
Se	77					
Se	82	104.237				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	97.080				
Cd	114	96.348				
In	115		118.924			
Sn	118					
Sb	123	87.997				
Ba	135	84.346				
Ce	140					
Tb	159		124.362			
Ho	165					
Tl	203	99.649				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.134				
U	238	95.492				
Bi	209		105.329			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Thursday, November 25, 2010 03:09:29
Page 2

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Mn	55	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	Sb	123	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	Ba	135	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
Tb 159 Int Std for QC	Tb	159	Rerun for AFCEE QC

Sample ID: QC Std 6
Report Date/Time: Thursday, November 25, 2010 03:09:29
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, November 25, 2010 03:14:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	52738.734	0.06				ug/L
|	Be	9	5.333	-0.00	0.0444	0.009	21.112	ug/L
|	Al	27	7469.477	0.00	0.0970	0.123	126.716	ug/L
⌊>	Sc	45	312612.475	312612.47				ug/L
⌈	Ti	49	50.005	0.00	-0.0635	0.029	45.341	ug/L
|	V	51	2841.609	-0.00	0.0002	0.001	886.525	ug/L
|	Cr	52	9210.666	0.00	0.0106	0.009	87.747	ug/L
|	Cr	53	253.362	-0.00	-0.1361	0.087	63.675	ug/L
|	Mn	55	354.010	0.00	-0.0115	0.002	15.133	ug/L
|	Co	59	226.005	0.00	-0.0036	0.001	31.596	ug/L
|	Ni	60	32.000	0.00	-0.0181	0.001	4.174	ug/L
|	Cu	65	101.335	-0.00	-0.0279	0.004	15.641	ug/L
|	Zn	66	724.033	-0.00	-0.4514	0.009	1.921	ug/L
|>	Ge	72	449559.460	449559.46				ug/L
|	As	75	-188.847	-0.00	0.0386	0.035	91.118	ug/L
|	Se	77	76.675	0.00	0.1230	0.587	477.042	ug/L
|	Se	82	12.090	0.00	0.1626	0.036	21.854	ug/L
⌊	Rb	85	14.333	0.00				mg/L
	Y	89	269622.037	18827.94				ug/L
	Rh	103	6.667	-12.33				ug/L
⌈	Mo	98	105.047	0.00	0.0615	0.006	10.046	ug/L
|	Ag	107	33.334	-0.00	-0.0711	0.001	1.240	ug/L
|	Cd	114	15.365	0.00	-0.0023	0.002	106.809	ug/L
|>	In	115	388387.685	388387.69				ug/L
|	Sn	118	700.025	-0.00	-0.1420	0.003	2.172	ug/L
⌊	Sb	123	283.170	0.00	0.0749	0.010	13.883	ug/L
⌈	Ba	135	16.000	-0.00	-0.0020	0.001	61.005	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	520073.398	520073.40				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	26.000	-0.00	0.0056	0.001	9.813	ug/L
|	Tl	205	53.339	-0.00	-0.0014	0.001	86.168	ug/L
|	Pb	206	458.682	-0.00	-0.0315	0.002	5.065	ug/L
|	Pb	207	396.012	-0.00	-0.0217	0.004	19.399	ug/L
|	Pb	208	1817.750	-0.00	-0.0280	0.002	8.711	ug/L
|	U	238	100.668	0.00	0.0086	0.000	3.174	ug/L
⌊>	Bi	209	468463.741	468463.74				ug/L

Sample ID: QC Std 7
Report Date/Time: Thursday, November 25, 2010 03:16:12
Page 1

Approved: November 29, 2010

Na	23	23753.893	0.03	-0.0010	0.000	13.703	mg/L
Mg	24	1323.553	0.00	-0.0027	0.000	0.889	mg/L
K	39	428729.945	-0.22	-0.0089	0.001	7.478	mg/L
Ca	43	176.686	-0.00	-0.0006	0.001	223.247	mg/L
Fe	54	59571.167	0.01	0.0049	0.001	11.655	mg/L
Fe	57	9051.675	0.00	0.0005	0.002	383.315	mg/L
Sc-1	45	312612.475	312612.47				mg/L
Cl	35	25408.917	282.72				mg/L
Kr	83	28.000	-17.33				mg/L
Br	81	15644.897	6811.66				mg/L
P	31	17707.672	7213.46				mg/L
S	34	272379.925	99221.12				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		101.873			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		119.335			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		122.957			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		108.268			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Thursday, November 25, 2010 03:16:12

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Tb 159 Int Std for QC	Tb	159	Rerun for AFCEE QC

Sample ID: QC Std 7
Report Date/Time: Thursday, November 25, 2010 03:16:12
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063328

Sample Date/Time: Thursday, November 25, 2010 03:20:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 121
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	47830.902	0.05				ug/L
|	Be	9	4.000	-0.00	0.0419	0.005	11.984	ug/L
|	Al	27	20320.881	0.05	1.9989	0.360	18.014	ug/L
⌊>	Sc	45	296773.218	296773.22				ug/L
⌈	Ti	49	86.676	0.00	-0.0090	0.037	410.203	ug/L
|	V	51	2817.497	-0.00	0.0011	0.005	436.550	ug/L
|	Cr	52	8896.379	-0.00	-0.0118	0.017	146.806	ug/L
|	Cr	53	256.696	-0.00	-0.1300	0.081	62.120	ug/L
|	Mn	55	3215.883	0.01	0.1932	0.001	0.727	ug/L
|	Co	59	205.671	-0.00	-0.0051	0.002	43.298	ug/L
|	Ni	60	126.335	0.00	0.0194	0.006	30.676	ug/L
|	Cu	65	323.675	0.00	0.0584	0.029	49.994	ug/L
|	Zn	66	4522.410	0.01	2.1716	0.355	16.353	ug/L
|>	Ge	72	444157.563	444157.56				ug/L
|	As	75	-187.660	-0.00	0.0374	0.025	66.122	ug/L
|	Se	77	53.339	-0.00	-0.1967	0.163	82.701	ug/L
|	Se	82	10.710	0.00	0.1488	0.069	46.045	ug/L
⌊	Rb	85	87.668	0.00				mg/L
	Y	89	259144.096	8350.00				ug/L
	Rh	103	4.000	-15.00				ug/L
⌈	Mo	98	153.971	0.00	0.0825	0.013	15.787	ug/L
|	Ag	107	20.000	-0.00	-0.0735	0.002	2.063	ug/L
|	Cd	114	10.070	-0.00	-0.0062	0.003	44.998	ug/L
|>	In	115	375507.212	375507.21				ug/L
|	Sn	118	496.146	-0.00	-0.1844	0.002	1.040	ug/L
⌊	Sb	123	84.997	-0.00	0.0253	0.002	6.532	ug/L
⌈	Ba	135	1676.491	0.00	0.8581	0.034	3.983	ug/L
|	Ce	140	73.341	0.00				ug/L
⌊>	Tb	159	503026.288	503026.29				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	20.000	-0.00	0.0049	0.000	2.722	ug/L
|	Tl	205	43.338	-0.00	-0.0019	0.001	58.500	ug/L
|	Pb	206	475.349	-0.00	-0.0273	0.001	5.498	ug/L
|	Pb	207	411.346	-0.00	-0.0175	0.008	43.945	ug/L
|	Pb	208	1944.762	-0.00	-0.0215	0.004	17.174	ug/L
|	U	238	29.667	-0.00	0.0069	0.000	1.409	ug/L
⌊>	Bi	209	458595.254	458595.25				ug/L

Sample ID: L1011063328
Report Date/Time: Thursday, November 25, 2010 03:22:59
Page 1

Approved: November 29, 2010

Na	23	2004434.591	6.71	0.3162	0.012	3.686	mg/L	
Mg	24	59234.614	0.20	0.0114	0.001	9.720	mg/L	
K	39	534396.783	0.21	0.0035	0.001	23.869	mg/L	
Ca	43	920.134	0.00	0.0345	0.003	8.170	mg/L	
Fe	54	43184.026	-0.04	-0.0132	0.001	6.804	mg/L	
Fe	57	9842.496	0.01	0.0048	0.001	15.752	mg/L	
Sc-1	45	296773.218	296773.22				mg/L	
Cl	35	35315.584	10189.39				mg/L	
Kr	83	33.334	-12.00				mg/L	
Br	81	15477.312	6644.08				mg/L	
P	31	11447.216	953.00				mg/L	
S	34	246350.339	73191.54				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		100.649			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		115.377			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		118.927			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		105.987			
Na	23					

Sample ID: L1011063328
Report Date/Time: Thursday, November 25, 2010 03:22:59
Page 2

Approved: November 29, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011063328
Report Date/Time: Thursday, November 25, 2010 03:22:59
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: L1011063331

Sample Date/Time: Thursday, November 25, 2010 03:27:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 122
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

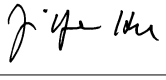
User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	51633.601	0.05				ug/L
|	Be	9	22.000	0.00	0.0839	0.008	9.800	ug/L
|	Al	27	4352846.209	14.08	601.9293	15.330	2.547	ug/L
⌊>	Sc	45	308812.834	308812.83				ug/L
⌈	Ti	49	3334.223	0.01	4.8704	0.141	2.899	ug/L
|	V	51	29186.349	0.06	2.5273	0.028	1.122	ug/L
|	Cr	52	17240.020	0.02	0.9586	0.014	1.431	ug/L
|	Cr	53	1150.182	0.00	0.7486	0.147	19.661	ug/L
|	Mn	55	644460.345	1.49	47.2616	0.428	0.905	ug/L
|	Co	59	17186.595	0.04	1.4533	0.015	0.999	ug/L
|	Ni	60	3963.826	0.01	1.5823	0.048	3.038	ug/L
|	Cu	65	12595.058	0.03	4.9301	0.128	2.603	ug/L
|	Zn	66	157987.510	0.36	110.8964	0.066	0.060	ug/L
|>	Ge	72	432324.444	432324.44				ug/L
|	As	75	1484.840	0.00	1.7765	0.086	4.814	ug/L
|	Se	77	76.675	0.00	0.1646	0.362	220.023	ug/L
|	Se	82	15.394	0.00	0.2061	0.077	37.513	ug/L
⌊	Rb	85	8731.565	0.02				mg/L
	Y	89	259482.395	8688.30				ug/L
	Rh	103	7.000	-12.00				ug/L
⌈	Mo	98	755.748	0.00	0.3294	0.005	1.496	ug/L
|	Ag	107	118.002	-0.00	-0.0544	0.001	2.472	ug/L
|	Cd	114	30.357	0.00	0.0109	0.003	24.651	ug/L
|>	In	115	368515.226	368515.23				ug/L
|	Sn	118	702.291	-0.00	-0.1329	0.005	3.910	ug/L
⌊	Sb	123	193.293	0.00	0.0547	0.003	5.649	ug/L
⌈	Ba	135	453358.812	0.91	236.1172	3.072	1.301	ug/L
|	Ce	140	26400.784	0.05				ug/L
⌊>	Tb	159	499969.590	499969.59				ug/L
⌈	Ho	165	540.069	0.00				ug/L
|	Tl	203	92.335	0.00	0.0154	0.001	6.110	ug/L
|	Tl	205	283.366	0.00	0.0123	0.003	27.548	ug/L
|	Pb	206	3798.760	0.01	0.5589	0.021	3.830	ug/L
|	Pb	207	3224.886	0.01	0.5279	0.005	1.015	ug/L
|	Pb	208	15034.600	0.03	0.5371	0.009	1.678	ug/L
|	U	238	13797.651	0.03	0.3676	0.005	1.304	ug/L
⌊>	Bi	209	424622.369	424622.37				ug/L

Sample ID: L1011063331
Report Date/Time: Thursday, November 25, 2010 03:29:46
Page 1

Approved: November 29, 2010



Na	23	136949537.823	443.46	21.0548	0.241	1.145	mg/L
Mg	24	414100.644	1.34	0.0935	0.001	1.434	mg/L
K	39	4402930.705	12.67	0.3643	0.007	1.913	mg/L
Ca	43	11427.678	0.04	0.5044	0.019	3.724	mg/L
Fe	54	418364.650	1.17	0.4724	0.012	2.573	mg/L
Fe	57	158651.189	0.49	0.4884	0.006	1.168	mg/L
> Sc-1	45	308812.834	308812.83				mg/L
Cl	35	65805.147	40678.95				mg/L
Kr	83	31.334	-14.00				mg/L
Br	81	16642.505	7809.27				mg/L
P	31	41033.355	30539.14				mg/L
S	34	306180.745	133021.94				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		97.967			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		113.229			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		118.204			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		98.136			
Na	23					

Sample ID: L1011063331
Report Date/Time: Thursday, November 25, 2010 03:29:46
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, November 25, 2010 03:34:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	51197.879	0.06				ug/L
|	Be	9	23428.749	0.08	57.1649	2.222	3.888	ug/L
|	Al	27	362987.570	1.19	51.0811	1.770	3.466	ug/L
⌊>	Sc	45	298734.624	298734.62				ug/L
⌈	Ti	49	64933.381	0.15	96.4854	2.054	2.128	ug/L
|	V	51	537076.943	1.22	50.5850	0.597	1.181	ug/L
|	Cr	52	465748.157	1.05	51.2062	0.692	1.352	ug/L
|	Cr	53	53602.060	0.12	51.5107	1.395	2.708	ug/L
|	Mn	55	745914.720	1.71	54.2155	0.854	1.575	ug/L
|	Co	59	631731.147	1.45	53.7287	0.633	1.178	ug/L
|	Ni	60	133094.521	0.31	53.6505	0.333	0.621	ug/L
|	Cu	65	129721.939	0.30	50.9433	0.279	0.547	ug/L
|	Zn	66	73536.460	0.17	50.6499	0.126	0.250	ug/L
⌊>	Ge	72	436207.660	436207.66				ug/L
|	As	75	46541.178	0.11	48.3238	0.593	1.227	ug/L
|	Se	77	3884.476	0.01	55.3496	1.662	3.003	ug/L
|	Se	82	4552.785	0.01	51.7053	0.654	1.265	ug/L
⌊	Rb	85	1774.175	0.00				mg/L
	Y	89	250968.988	174.89				ug/L
	Rh	103	22.000	3.00				ug/L
⌈	Mo	98	213274.547	0.59	88.4979	1.194	1.350	ug/L
|	Ag	107	249212.050	0.68	49.0366	0.156	0.319	ug/L
|	Cd	114	57862.271	0.16	48.9826	0.127	0.260	ug/L
⌊>	In	115	362758.538	362758.54				ug/L
|	Sn	118	198044.295	0.54	47.8026	0.404	0.845	ug/L
⌊	Sb	123	166061.283	0.46	45.2267	0.400	0.885	ug/L
⌈	Ba	135	81668.682	0.16	42.9372	0.758	1.765	ug/L
|	Ce	140	66.674	0.00				ug/L
⌊>	Tb	159	495169.985	495169.99				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	355301.332	0.82	50.0531	0.128	0.255	ug/L
|	Tl	205	872660.882	2.02	50.1030	0.157	0.313	ug/L
|	Pb	206	286504.788	0.66	49.0217	0.592	1.208	ug/L
|	Pb	207	268456.413	0.62	50.4854	0.088	0.174	ug/L
|	Pb	208	1201969.277	2.78	49.7487	0.295	0.593	ug/L
|	U	238	1861142.287	4.31	47.9062	0.296	0.619	ug/L
⌊>	Bi	209	432196.249	432196.25				ug/L

Sample ID: QC Std 6
Report Date/Time: Thursday, November 25, 2010 03:36:32
Page 1

Approved: November 29, 2010

Na	23	31530918.247	105.64	5.0137	0.238	4.740	mg/L	
Mg	24	20398559.342	68.36	4.9170	0.202	4.110	mg/L	
K	39	51933008.935	172.30	4.9870	0.091	1.819	mg/L	
Ca	43	112140.504	0.37	5.1961	0.057	1.101	mg/L	
Fe	54	3800230.053	12.54	5.0408	0.122	2.422	mg/L	
Fe	57	1560642.447	5.20	5.2320	0.124	2.361	mg/L	
Sc-1	45	298734.624	298734.62				mg/L	
Cl	35	25180.330	54.14				mg/L	
Kr	83	36.000	-9.33				mg/L	
Br	81	14209.424	5376.19				mg/L	
P	31	16424.152	5929.94				mg/L	
S	34	244467.586	71308.79				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	101.170				
Cr	52	102.412				
Cr	53					
Mn	55	108.431				
Co	59	107.457				
Ni	60	107.301				
Cu	65	101.887				
Zn	66	101.300				
Ge	72		98.847			
As	75	96.648				
Se	77					
Se	82	103.411				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.073				
Cd	114	97.965				
In	115		111.460			
Sn	118					
Sb	123	90.453				
Ba	135	85.874				
Ce	140					
Tb	159		117.070			
Ho	165					
Tl	203	100.106				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.497				
U	238	95.812				
Bi	209		99.886			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Thursday, November 25, 2010 03:36:32

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Ba	135	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Thursday, November 25, 2010 03:36:32
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, November 25, 2010 03:41:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	50343.128	0.06				ug/L
|	Be	9	8.000	-0.00	0.0514	0.008	15.329	ug/L
|	Al	27	5818.363	-0.00	-0.0955	0.079	82.239	ug/L
⌊>	Sc	45	300244.309	300244.31				ug/L
⌈	Ti	49	60.006	0.00	-0.0463	0.016	33.484	ug/L
|	V	51	2867.733	0.00	0.0108	0.007	69.108	ug/L
|	Cr	52	9088.554	0.00	0.0279	0.021	74.823	ug/L
|	Cr	53	280.032	-0.00	-0.1030	0.037	36.258	ug/L
|	Mn	55	339.343	0.00	-0.0118	0.002	20.250	ug/L
|	Co	59	240.005	0.00	-0.0018	0.002	84.783	ug/L
|	Ni	60	27.000	-0.00	-0.0198	0.001	4.671	ug/L
|	Cu	65	116.002	-0.00	-0.0210	0.004	17.741	ug/L
|	Zn	66	635.693	-0.00	-0.4979	0.022	4.384	ug/L
⌊>	Ge	72	436037.187	436037.19				ug/L
|	As	75	-212.364	-0.00	0.0085	0.051	601.429	ug/L
|	Se	77	76.675	0.00	0.1562	0.085	54.578	ug/L
|	Se	82	0.722	0.00	0.0387	0.210	543.499	ug/L
⌊	Rb	85	16.667	0.00				mg/L
	Y	89	257512.393	6718.29				ug/L
	Rh	103	5.667	-13.33				ug/L
⌈	Mo	98	123.157	0.00	0.0696	0.004	5.034	ug/L
|	Ag	107	31.667	-0.00	-0.0713	0.001	1.275	ug/L
|	Cd	114	20.455	0.00	0.0021	0.001	59.684	ug/L
⌊>	In	115	380054.174	380054.17				ug/L
|	Sn	118	707.492	-0.00	-0.1367	0.009	6.411	ug/L
⌊	Sb	123	294.212	0.00	0.0794	0.003	4.165	ug/L
⌈	Ba	135	16.334	-0.00	-0.0016	0.002	95.059	ug/L
|	Ce	140	40.004	-0.00				ug/L
⌊>	Tb	159	509352.867	509352.87				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	28.334	-0.00	0.0060	0.001	15.077	ug/L
|	Tl	205	56.672	-0.00	-0.0011	0.001	56.662	ug/L
|	Pb	206	437.681	-0.00	-0.0320	0.002	6.882	ug/L
|	Pb	207	399.345	-0.00	-0.0182	0.004	24.507	ug/L
|	Pb	208	1821.418	-0.00	-0.0250	0.001	5.520	ug/L
|	U	238	120.669	0.00	0.0092	0.000	2.687	ug/L
⌊>	Bi	209	450071.481	450071.48				ug/L

Sample ID: QC Std 7
Report Date/Time: Thursday, November 25, 2010 03:43:15
Page 1

Approved: November 29, 2010

Na	23	21842.682	0.02	-0.0012	0.000	6.394	mg/L
Mg	24	1343.558	0.00	-0.0027	0.000	1.254	mg/L
K	39	413555.589	-0.22	-0.0087	0.001	13.596	mg/L
Ca	43	156.684	-0.00	-0.0012	0.001	76.104	mg/L
Fe	54	57824.201	0.01	0.0057	0.002	28.746	mg/L
Fe	57	9135.085	0.01	0.0020	0.002	90.114	mg/L
> Sc-1	45	300244.309	300244.31				mg/L
Cl	35	24432.486	-693.71				mg/L
Kr	83	32.000	-13.33				mg/L
Br	81	14780.938	5947.70				mg/L
P	31	17504.658	7010.45				mg/L
S	34	248483.933	75325.13				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		98.809			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		116.774			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		120.423			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		104.017			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Thursday, November 25, 2010 03:43:15
Page 2

Approved: November 29, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Tb 159 Int Std for QC	Tb	159	Rerun for AFCEE QC

Sample ID: QC Std 7
Report Date/Time: Thursday, November 25, 2010 03:43:15
Page 3

Approved: November 29, 2010

Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, November 25, 2010 03:47:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	51147.349	0.05				ug/L
|	Be	9	3.333	-0.00	0.0398	0.007	17.832	ug/L
|	Al	27	3784.050	-0.01	-0.4044	0.025	6.203	ug/L
⌊>	Sc	45	310411.623	310411.62				ug/L
⌈	Ti	49	30.003	-0.00	-0.0918	0.025	27.493	ug/L
|	V	51	7160.133	0.01	0.4085	0.008	1.949	ug/L
|	Cr	52	16689.419	0.02	0.8557	0.026	3.034	ug/L
|	Cr	53	1186.856	0.00	0.7599	0.076	9.990	ug/L
|	Mn	55	8178.759	0.02	0.5508	0.006	1.101	ug/L
|	Co	59	5505.570	0.01	0.4403	0.007	1.622	ug/L
|	Ni	60	4570.757	0.01	1.7898	0.035	1.967	ug/L
|	Cu	65	2348.966	0.00	0.8452	0.037	4.369	ug/L
|	Zn	66	9995.093	0.02	5.9802	0.066	1.101	ug/L
|>	Ge	72	441786.341	441786.34				ug/L
|	As	75	148.126	0.00	0.3787	0.059	15.466	ug/L
|	Se	77	116.679	0.00	0.7134	0.353	49.491	ug/L
|	Se	82	43.740	0.00	0.5193	0.078	14.939	ug/L
⌊	Rb	85	10.000	-0.00				mg/L
	Y	89	257235.641	6441.54				ug/L
	Rh	103	4.667	-14.33				ug/L
⌈	Mo	98	34.598	0.00	0.0345	0.001	2.927	ug/L
|	Ag	107	2192.596	0.00	0.3343	0.016	4.911	ug/L
|	Cd	114	277.828	0.00	0.2095	0.012	5.720	ug/L
|>	In	115	380949.934	380949.93				ug/L
|	Sn	118	564.016	-0.00	-0.1704	0.005	3.042	ug/L
⌊	Sb	123	1424.321	0.00	0.3722	0.016	4.425	ug/L
⌈	Ba	135	1325.101	0.00	0.6598	0.050	7.599	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	515255.809	515255.81				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	611.025	0.00	0.0843	0.002	2.248	ug/L
|	Tl	205	1566.947	0.00	0.0815	0.008	9.528	ug/L
|	Pb	206	2898.449	0.00	0.3697	0.014	3.662	ug/L
|	Pb	207	2676.385	0.00	0.3901	0.012	3.167	ug/L
|	Pb	208	11976.280	0.02	0.3759	0.005	1.235	ug/L
|	U	238	15645.720	0.03	0.3900	0.000	0.123	ug/L
⌊>	Bi	209	453393.359	453393.36				ug/L

Sample ID: QC Std 8
Report Date/Time: Thursday, November 25, 2010 03:50:03
Page 1

Approved: November 29, 2010

Na	23	19056.712	0.01	-0.0017	0.000	1.974	mg/L
Mg	24	506.730	0.00	-0.0029	0.000	0.544	mg/L
K	39	423605.436	-0.23	-0.0091	0.000	2.982	mg/L
Ca	43	150.016	-0.00	-0.0018	0.002	137.208	mg/L
Fe	54	57522.552	-0.00	0.0027	0.002	65.020	mg/L
Fe	57	9642.287	0.01	0.0026	0.001	48.732	mg/L
Sc-1	45	310411.623	310411.62				mg/L
Cl	35	25247.164	120.97				mg/L
Kr	83	30.000	-15.33				mg/L
Br	81	14943.159	6109.92				mg/L
P	31	18500.494	8006.28				mg/L
S	34	265997.697	92838.90				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	102.113				
Cr	52	106.967				
Cr	53					
Mn	55	110.168				
Co	59	110.084				
Ni	60	111.861				
Cu	65	105.651				
Zn	66	95.683				
Ge	72		100.112			
As	75	94.664				
Se	77					
Se	82	129.825				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	83.579				
Cd	114	104.774				
In	115		117.050			
Sn	118					
Sb	123	93.038				
Ba	135	87.971				
Ce	140					
Tb	159		121.818			
Ho	165					
Tl	203	105.314				
Tl	205					
Pb	206					
Pb	207					
Pb	208	93.978				
U	238	97.507				
Bi	209		104.785			
Na	23					

Sample ID: QC Std 8
Report Date/Time: Thursday, November 25, 2010 03:50:03

Approved: November 29, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Se	82	LLCCV IS OUT OF LIMITS (+/-20%)
Tb 159 Int Std for QC	Tb	159	Rerun for AFCEE QC

Sample ID: QC Std 8
Report Date/Time: Thursday, November 25, 2010 03:50:03
Page 3

Approved: November 29, 2010

Instrument Tuning Report

File Name: 06302008.tun
File Path: C:\elandata\Tuning\06302008.tun

Sample Information

Sample Date/Time: Monday, November 29, 2010 08:42:28

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	625	2060	0.727	
Li	7.016	7.029	1588	2060	0.716	
Co	58.933	58.928	14287	1972	0.687	
Ce	139.905	139.879	33998	2015	0.707	
Tl	204.975	204.976	49701	2255	0.701	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	1.216
3.000	1.986
4.000	23.452
5.000	7.130
6.000	2.024
7.000	1.404
8.000	28.630
9.000	1.640
58.000	1.239
59.000	1.220
60.000	20.126
139.000	3.089
140.000	1.102
141.000	2.467
204.000	3.426
205.000	0.288
206.000	0.760

Report Date/Time: Monday, November 29, 2010 08:43:40
Page 1

Approved: November 30, 2010

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, November 29, 2010 08:45:29
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\Elandata\DataSet\112110\Sample.661
Tuning File: C:\elandata\Tuning\06302008.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	63305.2	63305.150	364.531	0.6
	Rh	102.9	371566.8	371566.799	1732.779	0.5
	In	114.9	522233.7	522233.718	3382.815	0.6
	Pb	208.0	224301.1	224301.093	1053.960	0.5
	U	238.1	32.8	32.800	4.117	12.6
⌈>	Ba	137.9	309694.1	309694.111	2145.612	0.7
⌊	Ba++	69.0	4600.3	0.015	0.000	0.7
⌈>	Ce	139.9	394891.0	394890.984	2846.818	0.7
⌊	CeO	155.9	10845.8	0.027	0.001	1.9
	Bkgd	220.0	4.8	4.800	1.037	21.6
	Ar2	79.9	3908480.4	3908480.434	8036.239	0.2

Current Optimization File Data

Current Value	Description
1.02	Nebulizer Gas Flow
6.70	Lens Voltage
1500.00	ICP RF Power
-1806.25	Analog Stage Voltage
1000.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	7.0	4423.6
Co	59	33	7.8	114052.0
Rh	103	33	9.3	108080.6
Pb	208	33	10.3	136221.9

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, November 29, 2010 09:09:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35529.759					ug/L
|	Be	9	3.333					ug/L
|	Al	27	7819.730					ug/L
|>	Sc	45	298014.581					ug/L
⌈	Ti	49	36.670					ug/L
|	V	51	2959.794					ug/L
|	Cr	52	9561.999					ug/L
|	Cr	53	350.041					ug/L
|	Mn	55	425.013					ug/L
|	Co	59	276.673					ug/L
|	Ni	60	28.667					ug/L
|	Cu	65	183.337					ug/L
|	Zn	66	8072.680					ug/L
|>	Ge	72	417241.768					ug/L
|	As	75	-223.430					ug/L
|	Se	77	70.007					ug/L
|	Se	82	-3.386					ug/L
⌊	Rb	85	21.334					mg/L
	Y	89	258247.603					ug/L
	Rh	103	7.667					ug/L
⌈	Mo	98	21.786					ug/L
|	Ag	107	19.334					ug/L
|	Cd	114	22.953					ug/L
|>	In	115	334730.595					ug/L
|	Sn	118	1505.313					ug/L
⌊	Sb	123	31.830					ug/L
⌈	Ba	135	12.333					ug/L
|	Ce	140	10.001					ug/L
⌊>	Tb	159	448381.543					ug/L
⌈	Ho	165	23.336					ug/L
|	Tl	203	30.000					ug/L
|	Tl	205	73.341					ug/L
|	Pb	206	622.692					ug/L
|	Pb	207	537.353					ug/L
|	Pb	208	2533.820					ug/L
|	U	238	10.000					ug/L
⌊>	Bi	209	429483.608					ug/L

Sample ID: Blank
Report Date/Time: Monday, November 29, 2010 09:12:07
Page 1

Approved: November 30, 2010

Na	23	23790.666		mg/L
Mg	24	306.702		mg/L
K	39	468144.820		mg/L
Ca	43	296.701		mg/L
Fe	54	59279.521		mg/L
Fe	57	8180.830		mg/L
Sc-1	45	298014.581		mg/L
Cl	35	30600.086		mg/L
Kr	83	44.334		mg/L
Br	81	9958.958		mg/L
P	31	14875.746		mg/L
S	34	216893.269		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209					
Na	23					

Sample ID: Blank
Report Date/Time: Monday, November 29, 2010 09:12:07

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Monday, November 29, 2010 09:12:07

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, November 29, 2010 09:16:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37486.883	0.02				ug/L
|	Be	9	6.667	0.00				ug/L
|	Al	27	7152.562	-0.00				ug/L
⌊>	Sc	45	278596.267	278596.27				ug/L
⌈	Ti	49	30.003	-0.00				ug/L
|	V	51	2907.820	0.00				ug/L
|	Cr	52	9222.677	-0.00				ug/L
|	Cr	53	323.371	-0.00				ug/L
|	Mn	55	394.678	-0.00				ug/L
|	Co	59	234.338	-0.00				ug/L
|	Ni	60	24.334	-0.00				ug/L
|	Cu	65	195.004	0.00				ug/L
|	Zn	66	6291.710	-0.00				ug/L
|>	Ge	72	409598.305	409598.31				ug/L
|	As	75	-205.859	0.00				ug/L
|	Se	77	80.008	0.00				ug/L
|	Se	82	0.965	0.00				ug/L
⌊	Rb	85	14.667	-0.00				mg/L
	Y	89	251580.658	-6666.95				ug/L
	Rh	103	5.667	-2.00				ug/L
⌈	Mo	98	20.639	-0.00				ug/L
|	Ag	107	22.000	0.00				ug/L
|	Cd	114	11.885	-0.00				ug/L
|>	In	115	329466.580	329466.58				ug/L
|	Sn	118	1770.557	0.00				ug/L
⌊	Sb	123	24.662	-0.00				ug/L
⌈	Ba	135	9.667	-0.00				ug/L
|	Ce	140	23.336	0.00				ug/L
⌊>	Tb	159	445511.516	445511.52				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	25.000	-0.00				ug/L
|	Tl	205	53.339	-0.00				ug/L
|	Pb	206	658.028	0.00				ug/L
|	Pb	207	550.687	0.00				ug/L
|	Pb	208	2571.822	0.00				ug/L
|	U	238	10.667	0.00				ug/L
⌊>	Bi	209	423935.903	423935.90				ug/L

Sample ID: Standard 1
Report Date/Time: Monday, November 29, 2010 09:18:50
Page 1

Approved: November 30, 2010

⌈	Na	23	20339.364	-0.01		mg/L
|	Mg	24	250.028	-0.00		mg/L
|	K	39	473897.581	0.13		mg/L
|	Ca	43	320.037	0.00		mg/L
|	Fe	54	54886.839	-0.00		mg/L
|	Fe	57	7837.187	0.00		mg/L
⌊>	Sc-1	45	278596.267	278596.27		mg/L
	Cl	35	30720.508	120.42		mg/L
	Kr	83	42.334	-2.00		mg/L
	Br	81	10221.221	262.26		mg/L
	P	31	13236.094	-1639.65		mg/L
	S	34	222718.728	5825.46		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 1
Report Date/Time: Monday, November 29, 2010 09:18:50

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Monday, November 29, 2010 09:18:50

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, November 29, 2010 09:23:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	35212.008	0.01				ug/L
|	Be	9	174.668	0.00				ug/L
|	Al	27	9821.521	0.01				ug/L
⌊>	Sc	45	269790.987	269790.99				ug/L
⌈	Ti	49	750.103	0.00				ug/L
|	V	51	7038.585	0.01				ug/L
|	Cr	52	12840.035	0.01				ug/L
|	Cr	53	746.769	0.00				ug/L
|	Mn	55	6189.977	0.01				ug/L
|	Co	59	5049.659	0.01				ug/L
|	Ni	60	1096.071	0.00				ug/L
|	Cu	65	1222.087	0.00				ug/L
|	Zn	66	5104.021	-0.01				ug/L
|>	Ge	72	397942.719	397942.72				ug/L
|	As	75	209.647	0.00				ug/L
|	Se	77	90.009	0.00				ug/L
|	Se	82	47.952	0.00				ug/L
⌊	Rb	85	35.334	0.00				mg/L
	Y	89	247958.508	-10289.09				ug/L
	Rh	103	3.667	-4.00				ug/L
⌈	Mo	98	1708.917	0.01				ug/L
|	Ag	107	1992.219	0.01				ug/L
|	Cd	114	458.761	0.00				ug/L
|>	In	115	321717.898	321717.90				ug/L
|	Sn	118	2938.565	0.00				ug/L
⌊	Sb	123	1259.088	0.00				ug/L
⌈	Ba	135	658.028	0.00				ug/L
|	Ce	140	26.669	0.00				ug/L
⌊>	Tb	159	431587.728	431587.73				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	2814.091	0.01				ug/L
|	Tl	205	7176.634	0.02				ug/L
|	Pb	206	3009.483	0.01				ug/L
|	Pb	207	2570.356	0.01				ug/L
|	Pb	208	12134.385	0.02				ug/L
|	U	238	11552.120	0.03				ug/L
⌊>	Bi	209	407438.961	407438.96				ug/L

Sample ID: Standard 2
Report Date/Time: Monday, November 29, 2010 09:25:34
Page 1

Approved: November 30, 2010

⌈	Na	23	276926.659	0.95		mg/L
|	Mg	24	171220.540	0.63		mg/L
|	K	39	896852.179	1.75		mg/L
|	Ca	43	930.136	0.00		mg/L
|	Fe	54	81462.530	0.10		mg/L
|	Fe	57	19804.919	0.05		mg/L
⌊>	Sc-1	45	269790.987	269790.99		mg/L
	Cl	35	35720.370	5120.28		mg/L
	Kr	83	44.001	-0.33		mg/L
	Br	81	9790.792	-168.17		mg/L
	P	31	12162.059	-2713.69		mg/L
	S	34	214949.069	-1944.20		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 2
Report Date/Time: Monday, November 29, 2010 09:25:34
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Monday, November 29, 2010 09:25:34

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, November 29, 2010 09:30:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38273.603	0.03				ug/L
|	Be	9	21235.858	0.08	50.0000	2.948	5.897	ug/L
|	Al	27	338249.511	1.26	50.0000	1.971	3.942	ug/L
⌊>	Sc	45	262456.055	262456.05				ug/L
⌈	Ti	49	63426.859	0.16	100.0000	0.749	0.749	ug/L
|	V	51	527726.083	1.32	50.0000	0.563	1.126	ug/L
|	Cr	52	451036.503	1.11	50.0000	0.541	1.083	ug/L
|	Cr	53	51624.913	0.13	50.0000	1.679	3.358	ug/L
|	Mn	55	705473.511	1.77	50.0000	0.372	0.744	ug/L
|	Co	59	594147.375	1.49	50.0000	0.686	1.371	ug/L
|	Ni	60	126188.825	0.32	50.0000	0.497	0.994	ug/L
|	Cu	65	126583.080	0.32	50.0000	0.389	0.777	ug/L
|	Zn	66	73838.003	0.17	50.0000	0.658	1.316	ug/L
⌊>	Ge	72	397342.529	397342.53				ug/L
|	As	75	47526.515	0.12	50.0000	1.341	2.682	ug/L
|	Se	77	3884.477	0.01	50.0000	2.762	5.524	ug/L
|	Se	82	4791.876	0.01	50.0000	1.453	2.906	ug/L
⌊	Rb	85	1884.196	0.00				mg/L
	Y	89	240256.200	-17991.40				ug/L
	Rh	103	18.667	11.00				ug/L
⌈	Mo	98	201087.129	0.64	100.0000	2.118	2.118	ug/L
|	Ag	107	237061.769	0.75	50.0000	0.271	0.542	ug/L
|	Cd	114	53740.023	0.17	50.0000	1.681	3.363	ug/L
⌊>	In	115	315088.289	315088.29				ug/L
|	Sn	118	170133.743	0.54	50.0000	0.779	1.558	ug/L
⌊	Sb	123	167506.392	0.53	50.0000	0.220	0.441	ug/L
⌈	Ba	135	77895.671	0.18	50.0000	0.945	1.890	ug/L
|	Ce	140	46.671	0.00				ug/L
⌊>	Tb	159	429147.531	429147.53				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	344257.611	0.87	50.0000	0.208	0.415	ug/L
|	Tl	205	837609.761	2.12	50.0000	1.046	2.093	ug/L
|	Pb	206	276106.223	0.70	50.0000	0.488	0.976	ug/L
|	Pb	207	258450.108	0.65	50.0000	0.595	1.190	ug/L
|	Pb	208	1166146.167	2.94	50.0000	0.484	0.968	ug/L
|	U	238	1444904.224	3.65	50.0000	1.921	3.843	ug/L
⌊>	Bi	209	395799.638	395799.64				ug/L

Sample ID: Standard 3
Report Date/Time: Monday, November 29, 2010 09:32:18
Page 1

Approved: November 30, 2010

⌈	Na	23	29923173.884	114.13	5.0000	0.239	4.780	mg/L
|	Mg	24	19819130.378	75.63	5.0000	0.222	4.431	mg/L
|	K	39	48435216.598	183.23	5.0000	0.201	4.015	mg/L
|	Ca	43	105345.880	0.40	5.0000	0.273	5.462	mg/L
|	Fe	54	3573622.549	13.43	5.0000	0.183	3.663	mg/L
|	Fe	57	1466457.379	5.57	5.0000	0.187	3.740	mg/L
⌊>	Sc-1	45	262456.055	262456.05				mg/L
	Cl	35	27547.227	-3052.86				mg/L
	Kr	83	39.000	-5.33				mg/L
	Br	81	9230.927	-728.03				mg/L
	P	31	11668.862	-3206.88				mg/L
	S	34	208162.845	-8730.42				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 3
Report Date/Time: Monday, November 29, 2010 09:32:18

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Monday, November 29, 2010 09:32:18
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Monday, November 29, 2010 09:36:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36867.851	0.02				ug/L
|	Be	9	41629.812	0.15	97.4883	2.042	2.095	ug/L
|	Al	27	644930.511	2.36	96.6450	1.176	1.217	ug/L
⌊>	Sc	45	270031.100	270031.10				ug/L
⌈	Ti	49	127081.931	0.32	201.2661	2.258	1.122	ug/L
|	V	51	1033055.183	2.62	99.5115	0.481	0.483	ug/L
|	Cr	52	872363.693	2.19	99.2911	1.269	1.278	ug/L
|	Cr	53	101856.381	0.26	99.9467	0.916	0.916	ug/L
|	Mn	55	1368104.612	3.47	98.9355	0.660	0.667	ug/L
|	Co	59	1150597.458	2.92	98.8494	0.797	0.806	ug/L
|	Ni	60	242528.674	0.62	98.4806	0.719	0.730	ug/L
|	Cu	65	242399.567	0.62	98.3200	1.588	1.615	ug/L
|	Zn	66	137153.934	0.33	98.2644	0.117	0.119	ug/L
|>	Ge	72	393754.583	393754.58				ug/L
|	As	75	90787.824	0.23	98.0725	0.312	0.318	ug/L
|	Se	77	7156.611	0.02	96.7081	4.451	4.603	ug/L
|	Se	82	8881.714	0.02	96.7071	0.773	0.800	ug/L
⌊	Rb	85	3204.879	0.01				mg/L
	Y	89	237702.704	-20544.90				ug/L
	Rh	103	41.667	34.00				ug/L
⌈	Mo	98	405401.034	1.30	201.4865	5.249	2.605	ug/L
|	Ag	107	457859.381	1.46	98.6013	0.252	0.255	ug/L
|	Cd	114	106803.890	0.34	100.0309	1.231	1.231	ug/L
|>	In	115	312984.591	312984.59				ug/L
|	Sn	118	363734.660	1.16	103.8944	0.982	0.945	ug/L
⌊	Sb	123	319591.625	1.02	97.9728	1.284	1.310	ug/L
⌈	Ba	135	153131.580	0.36	99.4523	0.688	0.692	ug/L
|	Ce	140	293.367	0.00				ug/L
⌊>	Tb	159	426503.699	426503.70				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	663885.081	1.71	99.2808	0.421	0.424	ug/L
|	Tl	205	1625024.228	4.20	99.5881	0.561	0.564	ug/L
|	Pb	206	555516.663	1.43	101.4594	0.878	0.865	ug/L
|	Pb	207	488281.156	1.26	98.2999	0.461	0.469	ug/L
|	Pb	208	2261229.659	5.83	99.6071	0.407	0.408	ug/L
|	U	238	2937031.036	7.58	101.9028	3.755	3.685	ug/L
⌊>	Bi	209	387160.819	387160.82				ug/L

Sample ID: Standard 4
Report Date/Time: Monday, November 29, 2010 09:39:03
Page 1

Approved: November 30, 2010

Na	23	60398412.431	223.64	9.8991	0.257	2.601	mg/L	
Mg	24	39809247.151	147.45	9.8737	0.205	2.077	mg/L	
K	39	98274468.528	362.39	9.9482	0.090	0.900	mg/L	
Ca	43	210013.197	0.78	9.8345	0.088	0.898	mg/L	
Fe	54	6992365.407	25.69	9.7771	0.107	1.099	mg/L	
Fe	57	2872191.596	10.61	9.7602	0.113	1.161	mg/L	
> Sc-1	45	270031.100	270031.10				mg/L	
Cl	35	25456.364	-5143.72				mg/L	
Kr	83	40.667	-3.67				mg/L	
Br	81	9230.926	-728.03				mg/L	
P	31	11774.939	-3100.81				mg/L	
S	34	204512.367	-12380.90				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209					
Na	23					

Sample ID: Standard 4
Report Date/Time: Monday, November 29, 2010 09:39:03

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 4
Report Date/Time: Monday, November 29, 2010 09:39:03
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, November 29, 2010 09:43:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 11
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38172.821	0.03				ug/L
|	Be	9	21700.189	0.08	51.9006	0.363	0.699	ug/L
|	Al	27	334383.844	1.24	50.6811	1.517	2.992	ug/L
⌊>	Sc	45	264349.449	264349.45				ug/L
⌈	Ti	49	63675.101	0.16	100.4557	1.664	1.657	ug/L
|	V	51	522980.969	1.32	50.1324	0.224	0.447	ug/L
|	Cr	52	443884.207	1.10	49.8951	0.277	0.556	ug/L
|	Cr	53	50743.498	0.13	49.5272	1.011	2.041	ug/L
|	Mn	55	692211.989	1.75	49.9316	0.351	0.703	ug/L
|	Co	59	585017.155	1.48	50.1372	0.344	0.686	ug/L
|	Ni	60	123103.183	0.31	49.8567	0.603	1.210	ug/L
|	Cu	65	124751.291	0.32	50.4496	0.174	0.345	ug/L
|	Zn	66	73293.027	0.17	50.8371	0.190	0.374	ug/L
|>	Ge	72	394623.796	394623.80				ug/L
|	As	75	46470.234	0.12	50.1828	1.118	2.227	ug/L
|	Se	77	3591.004	0.01	47.9974	0.159	0.331	ug/L
|	Se	82	4672.178	0.01	50.7076	1.013	1.998	ug/L
⌊	Rb	85	1857.191	0.00				mg/L
	Y	89	235426.045	-22821.56				ug/L
	Rh	103	21.334	13.67				ug/L
⌈	Mo	98	205957.670	0.66	102.2677	2.159	2.111	ug/L
|	Ag	107	236405.105	0.75	50.8639	0.439	0.863	ug/L
|	Cd	114	54891.502	0.18	51.3629	0.608	1.183	ug/L
|>	In	115	313225.289	313225.29				ug/L
|	Sn	118	177931.153	0.56	50.5693	0.295	0.584	ug/L
⌊	Sb	123	166086.707	0.53	50.8880	0.579	1.137	ug/L
⌈	Ba	135	76949.066	0.18	50.1249	0.452	0.903	ug/L
|	Ce	140	56.673	0.00				ug/L
⌊>	Tb	159	425133.983	425133.98				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	337119.044	0.86	49.9735	0.820	1.641	ug/L
|	Tl	205	824789.774	2.11	50.0911	0.436	0.870	ug/L
|	Pb	206	276698.036	0.71	50.0298	0.791	1.582	ug/L
|	Pb	207	258563.652	0.66	51.5521	0.521	1.010	ug/L
|	Pb	208	1156860.430	2.96	50.4569	0.497	0.986	ug/L
|	U	238	1547362.699	3.96	53.2267	0.677	1.272	ug/L
⌊>	Bi	209	390632.210	390632.21				ug/L

Sample ID: QC Std 1
Report Date/Time: Monday, November 29, 2010 09:45:47
Page 1

Approved: November 30, 2010

Na	23	29416797.330	111.26	4.9238	0.194	3.937	mg/L
Mg	24	19702359.181	74.56	4.9912	0.131	2.632	mg/L
K	39	48209482.297	180.86	4.9607	0.127	2.555	mg/L
Ca	43	102667.949	0.39	4.9111	0.163	3.323	mg/L
Fe	54	3581569.815	13.36	5.0822	0.151	2.974	mg/L
Fe	57	1433278.873	5.40	4.9628	0.117	2.357	mg/L
> Sc-1	45	264349.449	264349.45				mg/L
Cl	35	24802.059	-5798.03				mg/L
Kr	83	35.667	-8.67				mg/L
Br	81	9326.347	-632.61				mg/L
P	31	11971.163	-2904.58				mg/L
S	34	214762.387	-2130.88				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9	103.801				
Al	27	101.362				
> Sc	45					
Ti	49	100.456				
V	51	100.265				
Cr	52	99.790				
Cr	53					
Mn	55	99.863				
Co	59	100.274				
Ni	60	99.713				
Cu	65	100.899				
Zn	66	101.674				
> Ge	72		94.579			
As	75	100.366				
Se	77					
Se	82	101.415				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.728				
Cd	114	102.726				
> In	115		93.575			
Sn	118					
Sb	123	101.776				
Ba	135	100.250				
Ce	140					
> Tb	159		94.815			
Ho	165					
Tl	203	99.947				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.914				
U	238	106.453				
> Bi	209		90.954			
Na	23	98.477				

Sample ID: QC Std 1
Report Date/Time: Monday, November 29, 2010 09:45:47

Approved: November 30, 2010

	Mg	24	99.824
	K	39	99.214
	Ca	43	98.222
	Fe	54	101.644
	Fe	57	99.255
>	Sc-1	45	
	Cl	35	
	Kr	83	
	Br	81	
	P	31	
	S	34	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Monday, November 29, 2010 09:45:47

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, November 29, 2010 09:50:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37152.317	0.03				ug/L
|	Be	9	3.333	0.00	-0.0014	0.007	522.541	ug/L
|	Al	27	5735.007	-0.00	-0.1724	0.171	99.309	ug/L
⌊>	Sc	45	256774.173	256774.17				ug/L
⌈	Ti	49	536.735	0.00	0.4897	0.179	36.474	ug/L
|	V	51	2666.701	-0.00	-0.0109	0.005	46.717	ug/L
|	Cr	52	8583.768	-0.00	-0.0575	0.010	18.082	ug/L
|	Cr	53	270.031	-0.00	-0.0579	0.063	109.751	ug/L
|	Mn	55	354.010	-0.00	-0.0171	0.001	8.586	ug/L
|	Co	59	220.005	-0.00	-0.0102	0.002	20.202	ug/L
|	Ni	60	23.000	-0.00	-0.0311	0.001	3.674	ug/L
|	Cu	65	174.003	0.00	-0.0192	0.006	33.667	ug/L
|	Zn	66	2776.080	-0.01	-1.2507	0.052	4.174	ug/L
|>	Ge	72	387240.003	387240.00				ug/L
|	As	75	-154.518	0.00	0.0067	0.007	107.791	ug/L
|	Se	77	53.339	-0.00	-0.0724	0.213	294.692	ug/L
|	Se	82	7.968	0.00	-0.0288	0.151	523.924	ug/L
⌊	Rb	85	14.333	-0.00				mg/L
	Y	89	232194.403	-26053.20				ug/L
	Rh	103	5.667	-2.00				ug/L
⌈	Mo	98	3124.751	0.01	1.5356	0.133	8.667	ug/L
|	Ag	107	52.667	0.00	-0.0062	0.002	35.910	ug/L
|	Cd	114	12.870	-0.00	-0.0059	0.008	131.737	ug/L
|>	In	115	311060.188	311060.19				ug/L
|	Sn	118	1929.520	0.00	0.1369	0.016	11.550	ug/L
⌊	Sb	123	286.252	0.00	0.1127	0.010	8.642	ug/L
⌈	Ba	135	9.667	-0.00	-0.0163	0.001	7.778	ug/L
|	Ce	140	20.002	0.00				ug/L
⌊>	Tb	159	417492.091	417492.09				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	33.667	0.00	0.0050	0.001	16.211	ug/L
|	Tl	205	96.677	0.00	-0.0120	0.003	27.770	ug/L
|	Pb	206	558.355	-0.00	-0.0215	0.006	25.811	ug/L
|	Pb	207	483.683	-0.00	0.0046	0.004	82.051	ug/L
|	Pb	208	2307.131	0.00	-0.0075	0.003	45.208	ug/L
|	U	238	21346.519	0.05	0.7553	0.091	12.100	ug/L
⌊>	Bi	209	389704.712	389704.71				ug/L

Sample ID: QC Std 2
Report Date/Time: Monday, November 29, 2010 09:52:30
Page 1

Approved: November 30, 2010

⌈	Na	23	16388.392	-0.02	-0.0026	0.000	3.905	mg/L
|	Mg	24	283.366	0.00	-0.0024	0.000	0.450	mg/L
|	K	39	466310.571	0.25	-0.0014	0.002	141.197	mg/L
|	Ca	43	190.021	-0.00	0.0057	0.000	4.726	mg/L
|	Fe	54	51643.832	0.00	0.0017	0.002	115.965	mg/L
|	Fe	57	7667.040	0.00	-0.0001	0.001	1025.989	mg/L
⌊>	Sc-1	45	256774.173	256774.17				mg/L
	Cl	35	27965.059	-2635.03				mg/L
	Kr	83	42.001	-2.33				mg/L
	Br	81	9062.105	-896.85				mg/L
	P	31	11668.818	-3206.93				mg/L
	S	34	201494.148	-15399.12				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.810			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.929			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.111			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		90.738			
⌈	Na	23					

Sample ID: QC Std 2
Report Date/Time: Monday, November 29, 2010 09:52:30

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 2	U	238	ICB IS OUT OF LIMITS (+/-1/2RL)

Sample ID: QC Std 2
Report Date/Time: Monday, November 29, 2010 09:52:30

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, November 29, 2010 09:57:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39394.177	0.03				ug/L
|	Be	9	4.667	0.00	0.0021	0.003	152.676	ug/L
|	Al	27	2950.436	-0.01	-0.6191	0.018	2.843	ug/L
⌊>	Sc	45	256859.800	256859.80				ug/L
⌈	Ti	49	393.381	0.00	0.2532	0.110	43.622	ug/L
|	V	51	6728.011	0.01	0.3837	0.018	4.734	ug/L
|	Cr	52	15336.573	0.02	0.7204	0.018	2.528	ug/L
|	Cr	53	1076.832	0.00	0.7430	0.021	2.775	ug/L
|	Mn	55	7102.259	0.02	0.4758	0.006	1.270	ug/L
|	Co	59	4758.180	0.01	0.3836	0.012	3.135	ug/L
|	Ni	60	3991.503	0.01	1.5970	0.040	2.483	ug/L
|	Cu	65	2153.920	0.01	0.7923	0.016	2.050	ug/L
|	Zn	66	11046.876	0.01	4.9243	0.157	3.188	ug/L
|>	Ge	72	389841.572	389841.57				ug/L
|	As	75	225.190	0.00	0.4215	0.053	12.460	ug/L
|	Se	77	66.674	0.00	0.1057	0.075	70.601	ug/L
|	Se	82	47.378	0.00	0.4042	0.141	34.928	ug/L
⌊	Rb	85	14.000	-0.00				mg/L
	Y	89	232819.413	-25428.19				ug/L
	Rh	103	4.000	-3.67				ug/L
⌈	Mo	98	969.290	0.00	0.4643	0.048	10.275	ug/L
|	Ag	107	1944.208	0.01	0.4091	0.006	1.433	ug/L
|	Cd	114	248.358	0.00	0.2189	0.026	11.983	ug/L
|>	In	115	307219.879	307219.88				ug/L
|	Sn	118	1452.105	0.00	0.0045	0.004	80.251	ug/L
⌊	Sb	123	1351.685	0.00	0.4466	0.021	4.631	ug/L
⌈	Ba	135	1165.746	0.00	0.7503	0.013	1.680	ug/L
|	Ce	140	20.002	0.00				ug/L
⌊>	Tb	159	417910.116	417910.12				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	573.356	0.00	0.0855	0.003	3.283	ug/L
|	Tl	205	1316.886	0.00	0.0626	0.010	16.006	ug/L
|	Pb	206	2692.389	0.01	0.3676	0.013	3.640	ug/L
|	Pb	207	2498.670	0.01	0.4094	0.004	0.872	ug/L
|	Pb	208	11178.579	0.02	0.3826	0.001	0.190	ug/L
|	U	238	17110.464	0.04	0.6106	0.007	1.075	ug/L
⌊>	Bi	209	388583.465	388583.46				ug/L

Sample ID: QC Std 3
Report Date/Time: Monday, November 29, 2010 09:59:18
Page 1

Approved: November 30, 2010

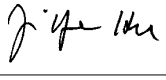
⌈	Na	23	15276.527	-0.02	-0.0028	0.000	5.491	mg/L
|	Mg	24	190.021	-0.00	-0.0025	0.000	0.493	mg/L
|	K	39	450672.625	0.19	-0.0031	0.002	62.972	mg/L
|	Ca	43	213.357	-0.00	0.0069	0.000	5.792	mg/L
|	Fe	54	48809.771	-0.01	-0.0026	0.001	19.256	mg/L
|	Fe	57	7303.398	0.00	-0.0013	0.002	130.812	mg/L
⌊>	Sc-1	45	256859.800	256859.80				mg/L
	Cl	35	23355.910	-7244.18				mg/L
	Kr	83	33.334	-11.00				mg/L
	Br	81	9002.717	-956.24				mg/L
	P	31	10689.106	-4186.64				mg/L
	S	34	192081.191	-24812.08				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	95.926				
|	Cr	52	90.047				
|	Cr	53					
|	Mn	55	95.166				
|	Co	59	95.891				
|	Ni	60	99.813				
|	Cu	65	99.041				
|	Zn	66	78.789				
|>	Ge	72		93.433			
|	As	75	105.375				
|	Se	77					
|	Se	82	101.058				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	102.264				
|	Cd	114	109.468				
|>	In	115		91.781			
|	Sn	118					
⌊	Sb	123	111.649				
⌈	Ba	135	100.042				
|	Ce	140					
⌊>	Tb	159		93.204			
⌈	Ho	165					
|	Tl	203	106.839				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	95.653				
|	U	238	152.659				
⌊>	Bi	209		90.477			
⌈	Na	23					

Sample ID: QC Std 3
Report Date/Time: Monday, November 29, 2010 09:59:18

Approved: November 30, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Zn	66	LLICV IS OUT OF LIMITS (+/-20%)
QC Std 3	U	238	LLICV IS OUT OF LIMITS (+/-20%)

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, November 29, 2010 10:03:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37152.384	0.03				ug/L
|	Be	9	6.000	0.00	0.0061	0.005	81.581	ug/L
|	Al	27	28320728.465	116.57	4769.7410	51.075	1.071	ug/L
⌊>	Sc	45	242915.459	242915.46				ug/L
⌈	Ti	49	60012.197	0.16	100.5370	0.286	0.285	ug/L
|	V	51	2298.341	-0.00	-0.0376	0.018	48.712	ug/L
|	Cr	52	8959.101	0.00	0.0306	0.002	7.777	ug/L
|	Cr	53	1386.903	0.00	1.1186	0.239	21.350	ug/L
|	Mn	55	3831.439	0.01	0.2506	0.004	1.632	ug/L
|	Co	59	2348.299	0.01	0.1844	0.002	1.200	ug/L
|	Ni	60	1482.458	0.00	0.5975	0.008	1.277	ug/L
|	Cu	65	2357.635	0.01	0.9236	0.027	2.917	ug/L
|	Zn	66	3123.519	-0.01	-0.8897	0.079	8.875	ug/L
|>	Ge	72	371569.928	371569.93				ug/L
|	As	75	-138.777	0.00	0.0182	0.109	598.961	ug/L
|	Se	77	113.345	0.00	0.8243	0.298	36.091	ug/L
|	Se	82	0.652	0.00	-0.1091	0.129	117.915	ug/L
⌊	Rb	85	1642.485	0.00				mg/L
	Y	89	209482.205	-48765.40				ug/L
	Rh	103	10.000	2.33				ug/L
⌈	Mo	98	193858.440	0.65	101.6455	1.628	1.602	ug/L
|	Ag	107	64.001	0.00	-0.0030	0.001	29.538	ug/L
|	Cd	114	79.126	0.00	0.0601	0.033	54.466	ug/L
|>	In	115	296630.084	296630.08				ug/L
|	Sn	118	1527.317	0.00	0.0424	0.014	33.600	ug/L
⌊	Sb	123	199.041	0.00	0.0888	0.003	3.082	ug/L
⌈	Ba	135	73.001	0.00	0.0272	0.002	7.625	ug/L
|	Ce	140	193.355	0.00				ug/L
⌊>	Tb	159	405819.685	405819.69				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	372.677	0.00	0.0600	0.005	8.412	ug/L
|	Tl	205	950.140	0.00	0.0447	0.003	6.192	ug/L
|	Pb	206	725.700	0.00	0.0197	0.005	25.730	ug/L
|	Pb	207	630.026	0.00	0.0442	0.007	15.689	ug/L
|	Pb	208	2941.535	0.00	0.0309	0.002	6.145	ug/L
|	U	238	2255.278	0.01	0.1033	0.006	6.047	ug/L
⌊>	Bi	209	360225.181	360225.18				ug/L

Sample ID: QC Std 4
Report Date/Time: Monday, November 29, 2010 10:06:05
Page 1

Approved: November 30, 2010

Na	23	72745624.184	299.46	13.2558	0.341	2.570	mg/L
Mg	24	19233884.261	79.19	5.3018	0.092	1.726	mg/L
K	39	46494862.181	189.86	5.2082	0.113	2.161	mg/L
Ca	43	287868.241	1.18	14.9864	0.370	2.468	mg/L
Fe	54	8382145.201	34.31	13.0535	0.092	0.705	mg/L
Fe	57	3447234.908	14.16	13.0295	0.036	0.274	mg/L
Sc-1	45	242915.459	242915.46				mg/L
Cl	35	1929716.534	1899116.45				mg/L
Kr	83	40.000	-4.33				mg/L
Br	81	8470.921	-1488.04				mg/L
P	31	1682195.383	1667319.64				mg/L
S	34	359419.821	142526.55				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		89.054			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		88.618			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		90.508			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		83.874			
Na	23					

Sample ID: QC Std 4
Report Date/Time: Monday, November 29, 2010 10:06:05

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	Cu	65	ICSA IS OUT OF LIMITS (+/-RL)
QC Std 4	Tl	203	ICSA IS OUT OF LIMITS (+/-RL)

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, November 29, 2010 10:10:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39645.178	0.04				ug/L
|	Be	9	43250.664	0.18	111.8337	0.422	0.378	ug/L
|	Al	27	38186432.920	156.14	6388.7928	203.026	3.178	ug/L
⌊>	Sc	45	244520.160	244520.16				ug/L
⌈	Ti	49	79811.958	0.22	134.9426	2.247	1.665	ug/L
|	V	51	1014192.514	2.75	104.3987	0.530	0.508	ug/L
|	Cr	52	868655.703	2.33	105.7246	0.852	0.806	ug/L
|	Cr	53	102832.974	0.28	107.8663	2.242	2.079	ug/L
|	Mn	55	1392879.845	3.78	107.6466	2.036	1.892	ug/L
|	Co	59	1154657.508	3.13	106.0075	1.873	1.767	ug/L
|	Ni	60	246530.514	0.67	106.9731	0.676	0.632	ug/L
|	Cu	65	248133.915	0.67	107.5656	0.968	0.900	ug/L
|	Zn	66	139729.974	0.36	107.2650	0.935	0.872	ug/L
|>	Ge	72	368500.400	368500.40				ug/L
|	As	75	91296.990	0.25	105.3695	0.535	0.507	ug/L
|	Se	77	6966.457	0.02	100.5929	3.081	3.062	ug/L
|	Se	82	8499.650	0.02	98.8903	0.356	0.360	ug/L
⌊	Rb	85	2161.922	0.01				mg/L
	Y	89	207174.573	-51073.03				ug/L
	Rh	103	44.334	36.67				ug/L
⌈	Mo	98	253555.476	0.88	136.1351	1.175	0.863	ug/L
|	Ag	107	376365.001	1.30	87.5754	4.674	5.337	ug/L
|	Cd	114	107154.292	0.37	108.4369	2.157	1.989	ug/L
|>	In	115	289676.046	289676.05				ug/L
|	Sn	118	1969.794	0.00	0.1905	0.006	3.004	ug/L
⌊	Sb	123	333831.993	1.15	110.5707	0.550	0.497	ug/L
⌈	Ba	135	153240.425	0.38	104.7623	0.807	0.770	ug/L
|	Ce	140	376.711	0.00				ug/L
⌊>	Tb	159	405195.958	405195.96				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	655661.126	1.86	107.5525	1.219	1.133	ug/L
|	Tl	205	1624315.567	4.60	109.1889	0.921	0.843	ug/L
|	Pb	206	551066.679	1.56	110.4065	0.908	0.823	ug/L
|	Pb	207	487457.445	1.38	107.6486	0.472	0.438	ug/L
|	Pb	208	2248320.122	6.36	108.6390	0.551	0.507	ug/L
|	U	238	3108655.080	8.81	118.3098	1.088	0.919	ug/L
⌊>	Bi	209	352989.957	352989.96				ug/L

Sample ID: QC Std 5
Report Date/Time: Monday, November 29, 2010 10:12:52
Page 1

Approved: November 30, 2010

Na	23	96077019.072	392.81	17.3887	0.274	1.578	mg/L
Mg	24	24975134.767	102.14	6.8390	0.087	1.272	mg/L
K	39	61529407.004	250.08	6.8627	0.128	1.866	mg/L
Ca	43	379894.937	1.55	19.6506	0.621	3.160	mg/L
Fe	54	11164230.594	45.46	17.2985	0.318	1.838	mg/L
Fe	57	4616729.245	18.85	17.3450	0.101	0.580	mg/L
> Sc-1	45	244520.160	244520.16				mg/L
Cl	35	2556885.644	2526285.56				mg/L
Kr	83	48.334	4.00				mg/L
Br	81	8008.540	-1950.42				mg/L
P	31	2241681.343	2226805.60				mg/L
S	34	410175.246	193281.98				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	104.399				
Cr	52	105.725				
Cr	53					
Mn	55	107.647				
Co	59	106.007				
Ni	60	106.973				
Cu	65	107.566				
Zn	66	107.265				
> Ge	72		88.318			
As	75	105.369				
Se	77					
Se	82	98.890				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	87.575				
Cd	114	108.437				
> In	115		86.540			
Sn	118					
Sb	123	110.571				
Ba	135	104.762				
Ce	140					
> Tb	159		90.369			
Ho	165					
Tl	203	107.553				
Tl	205					
Pb	206					
Pb	207					
Pb	208	108.639				
U	238	118.310				
> Bi	209		82.189			
Na	23					

Sample ID: QC Std 5
Report Date/Time: Monday, November 29, 2010 10:12:52
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Monday, November 29, 2010 10:12:52

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 29, 2010 10:17:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38474.101	0.03				ug/L
|	Be	9	21146.338	0.08	53.3198	1.017	1.907	ug/L
|	Al	27	318269.811	1.24	50.8493	1.050	2.064	ug/L
⌊>	Sc	45	250737.957	250737.96				ug/L
⌈	Ti	49	60619.229	0.16	101.1493	0.464	0.459	ug/L
|	V	51	489520.259	1.31	49.6311	0.443	0.894	ug/L
|	Cr	52	421514.861	1.11	50.1190	0.518	1.034	ug/L
|	Cr	53	49386.698	0.13	50.9837	1.630	3.197	ug/L
|	Mn	55	649548.254	1.74	49.5550	0.733	1.479	ug/L
|	Co	59	564712.583	1.51	51.1910	0.589	1.150	ug/L
|	Ni	60	119135.044	0.32	51.0387	0.285	0.558	ug/L
|	Cu	65	119011.544	0.32	50.9089	0.205	0.403	ug/L
|	Zn	66	68895.891	0.17	50.5270	0.371	0.734	ug/L
|>	Ge	72	373069.477	373069.48				ug/L
|	As	75	44124.115	0.12	50.3885	0.898	1.783	ug/L
|	Se	77	3324.220	0.01	46.9708	2.733	5.818	ug/L
|	Se	82	4338.307	0.01	49.7951	0.596	1.197	ug/L
⌊	Rb	85	1695.494	0.00				mg/L
	Y	89	217937.967	-40309.64				ug/L
	Rh	103	19.334	11.67				ug/L
⌈	Mo	98	188929.694	0.63	97.3620	1.677	1.722	ug/L
|	Ag	107	223782.188	0.74	49.9795	0.675	1.351	ug/L
|	Cd	114	52971.305	0.18	51.4525	0.904	1.758	ug/L
|>	In	115	301762.101	301762.10				ug/L
|	Sn	118	175146.681	0.58	51.6785	0.243	0.470	ug/L
⌊	Sb	123	161154.302	0.53	51.2540	0.599	1.169	ug/L
⌈	Ba	135	73477.077	0.18	48.5033	1.024	2.111	ug/L
|	Ce	140	70.007	0.00				ug/L
⌊>	Tb	159	419550.536	419550.54				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	323466.294	0.86	49.8695	0.480	0.963	ug/L
|	Tl	205	802491.519	2.14	50.6920	0.431	0.851	ug/L
|	Pb	206	262205.382	0.70	49.3057	0.150	0.304	ug/L
|	Pb	207	246887.651	0.66	51.1958	0.098	0.191	ug/L
|	Pb	208	1102327.091	2.93	50.0034	0.089	0.178	ug/L
|	U	238	1496723.735	3.99	53.5501	0.886	1.655	ug/L
⌊>	Bi	209	375559.070	375559.07				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 10:19:37
Page 1

Approved: November 30, 2010

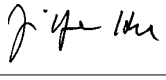
Na	23	28624870.088	114.09	5.0489	0.056	1.104	mg/L
Mg	24	18448458.950	73.58	4.9257	0.034	0.689	mg/L
K	39	45647958.315	180.48	4.9504	0.057	1.151	mg/L
Ca	43	98307.403	0.39	4.9554	0.062	1.243	mg/L
Fe	54	3326633.522	13.07	4.9726	0.143	2.867	mg/L
Fe	57	1359457.055	5.39	4.9606	0.120	2.418	mg/L
Sc-1	45	250737.957	250737.96				mg/L
Cl	35	25551.275	-5048.81				mg/L
Kr	83	41.667	-2.67				mg/L
Br	81	8720.471	-1238.49				mg/L
P	31	11050.873	-3824.87				mg/L
S	34	195355.825	-21537.44				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	99.262				
Cr	52	100.238				
Cr	53					
Mn	55	99.110				
Co	59	102.382				
Ni	60	102.077				
Cu	65	101.818				
Zn	66	101.054				
Ge	72		89.413			
As	75	100.777				
Se	77					
Se	82	99.590				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.959				
Cd	114	102.905				
In	115		90.151			
Sn	118					
Sb	123	102.508				
Ba	135	97.007				
Ce	140					
Tb	159		93.570			
Ho	165					
Tl	203	99.739				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.007				
U	238	107.100				
Bi	209		87.444			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 10:19:37

Approved: November 30, 2010



| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 10:19:37

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 29, 2010 10:24:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37754.580	0.03				ug/L
|	Be	9	5.333	0.00	0.0039	0.007	191.082	ug/L
|	Al	27	6135.218	-0.00	-0.0905	0.055	60.348	ug/L
⌊>	Sc	45	251492.007	251492.01				ug/L
⌈	Ti	49	433.386	0.00	0.3480	0.098	28.186	ug/L
|	V	51	2668.489	0.00	-0.0013	0.015	1152.178	ug/L
|	Cr	52	8481.347	-0.00	-0.0346	0.014	40.442	ug/L
|	Cr	53	390.047	0.00	0.0768	0.036	46.704	ug/L
|	Mn	55	346.676	-0.00	-0.0168	0.001	7.217	ug/L
|	Co	59	205.338	-0.00	-0.0109	0.003	24.143	ug/L
|	Ni	60	27.334	0.00	-0.0289	0.003	11.080	ug/L
|	Cu	65	137.336	-0.00	-0.0322	0.004	12.969	ug/L
|	Zn	66	1976.215	-0.01	-1.8000	0.099	5.512	ug/L
|>	Ge	72	374124.410	374124.41				ug/L
|	As	75	-153.265	0.00	0.0028	0.039	1430.278	ug/L
|	Se	77	76.675	0.00	0.2854	0.530	185.822	ug/L
|	Se	82	1.342	0.00	-0.1005	0.122	121.485	ug/L
⌊	Rb	85	15.000	-0.00				mg/L
	Y	89	224894.148	-33353.45				ug/L
	Rh	103	5.667	-2.00				ug/L
⌈	Mo	98	2634.908	0.01	1.3054	0.198	15.161	ug/L
|	Ag	107	889.716	0.00	0.1773	0.023	13.236	ug/L
|	Cd	114	5.199	-0.00	-0.0132	0.006	43.107	ug/L
|>	In	115	307837.918	307837.92				ug/L
|	Sn	118	1707.746	0.00	0.0782	0.011	14.272	ug/L
⌊	Sb	123	272.710	0.00	0.1095	0.009	7.840	ug/L
⌈	Ba	135	9.000	-0.00	-0.0167	0.001	4.330	ug/L
|	Ce	140	13.335	0.00				ug/L
⌊>	Tb	159	418278.375	418278.37				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	38.000	0.00	0.0057	0.001	9.591	ug/L
|	Tl	205	83.342	0.00	-0.0128	0.001	7.696	ug/L
|	Pb	206	545.687	-0.00	-0.0231	0.002	8.593	ug/L
|	Pb	207	471.016	-0.00	0.0027	0.003	98.313	ug/L
|	Pb	208	2182.783	-0.00	-0.0122	0.002	13.967	ug/L
|	U	238	10046.889	0.03	0.3683	0.056	15.195	ug/L
⌊>	Bi	209	386901.799	386901.80				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 10:26:21
Page 1

Approved: November 30, 2010

Na	23	16592.079	-0.01	-0.0025	0.000	3.220	mg/L
Mg	24	283.366	0.00	-0.0024	0.000	0.451	mg/L
K	39	452786.962	0.23	-0.0018	0.002	105.723	mg/L
Ca	43	223.358	-0.00	0.0077	0.003	37.980	mg/L
Fe	54	48638.034	-0.01	-0.0013	0.001	109.075	mg/L
Fe	57	7520.248	0.00	-0.0000	0.001	1881.182	mg/L
> Sc-1	45	251492.007	251492.01				mg/L
Cl	35	27862.766	-2737.32				mg/L
Kr	83	37.334	-7.00				mg/L
Br	81	8555.660	-1403.30				mg/L
P	31	11104.893	-3770.85				mg/L
S	34	195268.873	-21624.40				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		89.666			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		91.966			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		93.286			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		90.085			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 10:26:21

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 10:26:21

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011068308

Sample Date/Time: Monday, November 29, 2010 10:32:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 77
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38758.538	0.03				ug/L
|	Be	9	3.333	0.00	-0.0015	0.006	384.700	ug/L
|	Al	27	6118.545	-0.00	-0.1524	0.052	34.412	ug/L
⌊>	Sc	45	267123.006	267123.01				ug/L
⌈	Ti	49	306.702	0.00	0.1078	0.026	24.251	ug/L
|	V	51	2747.564	-0.00	-0.0084	0.008	93.570	ug/L
|	Cr	52	8741.241	-0.00	-0.0599	0.017	28.212	ug/L
|	Cr	53	323.371	-0.00	-0.0108	0.058	538.858	ug/L
|	Mn	55	356.677	-0.00	-0.0175	0.001	6.041	ug/L
|	Co	59	201.671	-0.00	-0.0121	0.002	12.717	ug/L
|	Ni	60	52.334	0.00	-0.0194	0.006	28.949	ug/L
|	Cu	65	141.669	-0.00	-0.0337	0.007	20.044	ug/L
|	Zn	66	1898.866	-0.01	-1.9407	0.041	2.124	ug/L
|>	Ge	72	395235.940	395235.94				ug/L
|	As	75	-154.722	0.00	0.0100	0.014	142.777	ug/L
|	Se	77	63.340	-0.00	0.0491	0.285	581.857	ug/L
|	Se	82	8.684	0.00	-0.0230	0.057	246.151	ug/L
⌊	Rb	85	14.333	-0.00				mg/L
	Y	89	229554.259	-28693.34				ug/L
	Rh	103	6.667	-1.00				ug/L
⌈	Mo	98	752.675	0.00	0.3453	0.026	7.534	ug/L
|	Ag	107	340.676	0.00	0.0553	0.009	15.477	ug/L
|	Cd	114	17.473	-0.00	-0.0018	0.003	147.484	ug/L
|>	In	115	314882.370	314882.37				ug/L
|	Sn	118	1360.493	-0.00	-0.0319	0.004	13.461	ug/L
⌊	Sb	123	103.496	0.00	0.0560	0.003	6.199	ug/L
⌈	Ba	135	13.667	0.00	-0.0138	0.001	10.720	ug/L
|	Ce	140	20.002	0.00				ug/L
⌊>	Tb	159	427004.191	427004.19				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	28.000	0.00	0.0041	0.000	6.512	ug/L
|	Tl	205	73.341	0.00	-0.0135	0.001	5.193	ug/L
|	Pb	206	533.686	-0.00	-0.0282	0.005	18.398	ug/L
|	Pb	207	451.015	-0.00	-0.0040	0.005	127.242	ug/L
|	Pb	208	2108.109	-0.00	-0.0183	0.002	11.247	ug/L
|	U	238	2338.298	0.01	0.0979	0.007	6.974	ug/L
⌊>	Bi	209	398785.949	398785.95				ug/L

Sample ID: L1011068308
Report Date/Time: Monday, November 29, 2010 10:34:21
Page 1

Approved: November 30, 2010

⌈	Na	23	17066.263	-0.02	-0.0026	0.000	4.120	mg/L
|	Mg	24	436.720	0.00	-0.0024	0.000	0.678	mg/L
|	K	39	457558.598	0.14	-0.0042	0.001	35.109	mg/L
|	Ca	43	186.687	-0.00	0.0052	0.002	36.176	mg/L
|	Fe	54	52617.957	-0.00	0.0001	0.003	2899.144	mg/L
|	Fe	57	7413.488	0.00	-0.0020	0.001	36.396	mg/L
⌊>	Sc-1	45	267123.006	267123.01				mg/L
	Cl	35	26100.017	-4500.07				mg/L
	Kr	83	36.334	-8.00				mg/L
	Br	81	9135.505	-823.45				mg/L
	P	31	11090.817	-3784.93				mg/L
	S	34	195621.510	-21271.76				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.726			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.070			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.232			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.852			
⌈	Na	23					

Sample ID: L1011068308
Report Date/Time: Monday, November 29, 2010 10:34:21
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: PBW A1 WG349668-03

Sample Date/Time: Monday, November 29, 2010 10:38:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 78
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37303.205	0.02				ug/L
|	Be	9	6.000	0.00	0.0042	0.004	102.673	ug/L
|	Al	27	6952.430	-0.00	-0.0577	0.114	196.899	ug/L
⌊>	Sc	45	276179.711	276179.71				ug/L
⌈	Ti	49	306.702	0.00	0.1064	0.011	10.400	ug/L
|	V	51	2842.885	0.00	-0.0000	0.006	35222.164	ug/L
|	Cr	52	8944.088	-0.00	-0.0395	0.016	39.577	ug/L
|	Cr	53	273.364	-0.00	-0.0605	0.028	46.666	ug/L
|	Mn	55	717.366	0.00	0.0084	0.003	33.021	ug/L
|	Co	59	200.337	-0.00	-0.0123	0.001	9.945	ug/L
|	Ni	60	72.334	0.00	-0.0115	0.002	16.427	ug/L
|	Cu	65	207.004	0.00	-0.0075	0.011	149.902	ug/L
|	Zn	66	2960.801	-0.01	-1.1630	0.053	4.549	ug/L
|>	Ge	72	396425.516	396425.52				ug/L
|	As	75	-150.451	0.00	0.0144	0.095	660.673	ug/L
|	Se	77	70.007	0.00	0.1411	0.555	392.979	ug/L
|	Se	82	6.664	0.00	-0.0464	0.252	543.565	ug/L
⌊	Rb	85	15.333	-0.00				mg/L
	Y	89	230325.164	-27922.44				ug/L
	Rh	103	7.000	-0.67				ug/L
⌈	Mo	98	396.313	0.00	0.1693	0.009	5.191	ug/L
|	Ag	107	186.004	0.00	0.0222	0.005	22.454	ug/L
|	Cd	114	14.652	-0.00	-0.0043	0.010	238.578	ug/L
|>	In	115	315013.918	315013.92				ug/L
|	Sn	118	1247.811	-0.00	-0.0643	0.004	6.635	ug/L
⌊	Sb	123	74.537	0.00	0.0471	0.002	4.094	ug/L
⌈	Ba	135	24.000	0.00	-0.0069	0.001	18.566	ug/L
|	Ce	140	23.336	0.00				ug/L
⌊>	Tb	159	420753.948	420753.95				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	20.334	-0.00	0.0030	0.001	35.182	ug/L
|	Tl	205	30.003	-0.00	-0.0161	0.001	3.766	ug/L
|	Pb	206	543.687	-0.00	-0.0274	0.002	5.608	ug/L
|	Pb	207	479.350	-0.00	0.0006	0.003	417.798	ug/L
|	Pb	208	2176.115	-0.00	-0.0163	0.001	3.148	ug/L
|	U	238	987.392	0.00	0.0521	0.003	5.012	ug/L
⌊>	Bi	209	402610.552	402610.55				ug/L

Approved: November 30, 2010

⌈	Na	23	38802.355	0.06	0.0008	0.000	5.070	mg/L
|	Mg	24	970.144	0.00	-0.0023	0.000	0.777	mg/L
|	K	39	463612.089	0.11	-0.0052	0.001	23.688	mg/L
|	Ca	43	246.694	-0.00	0.0077	0.003	32.840	mg/L
|	Fe	54	54026.690	-0.00	-0.0004	0.003	677.764	mg/L
|	Fe	57	7433.506	-0.00	-0.0028	0.001	38.975	mg/L
⌊>	Sc-1	45	276179.711	276179.71				mg/L
	Cl	35	29399.155	-1200.93				mg/L
	Kr	83	38.667	-5.67				mg/L
	Br	81	8709.792	-1249.17				mg/L
	P	31	11337.760	-3537.99				mg/L
	S	34	196877.269	-20016.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.011			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.110			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.838			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.743			
⌈	Na	23					

Sample ID: PBW A1 WG349668-03
Report Date/Time: Monday, November 29, 2010 10:41:09

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW A1 WG349668-03
Report Date/Time: Monday, November 29, 2010 10:41:09
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: LCSW A1 WG349668-04

Sample Date/Time: Monday, November 29, 2010 10:45:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 79
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37687.560	0.02				ug/L
|	Be	9	10479.488	0.04	24.3593	0.452	1.854	ug/L
|	Al	27	172730.235	0.61	24.9017	0.987	3.963	ug/L
⌊>	Sc	45	271948.457	271948.46				ug/L
⌈	Ti	49	313.370	0.00	0.1207	0.074	61.607	ug/L
|	V	51	260807.448	0.66	24.9653	0.266	1.064	ug/L
|	Cr	52	231887.801	0.57	25.6658	0.180	0.703	ug/L
|	Cr	53	27483.810	0.07	26.7776	0.396	1.480	ug/L
|	Mn	55	352654.159	0.90	25.5179	0.035	0.138	ug/L
|	Co	59	296156.517	0.75	25.4719	0.427	1.678	ug/L
|	Ni	60	63469.759	0.16	25.7905	0.060	0.231	ug/L
|	Cu	65	64108.149	0.16	25.9861	0.090	0.345	ug/L
|	Zn	66	37366.731	0.08	24.3900	0.094	0.386	ug/L
|>	Ge	72	393037.776	393037.78				ug/L
|	As	75	22696.687	0.06	24.6948	0.299	1.212	ug/L
|	Se	77	1857.025	0.00	24.5322	1.772	7.222	ug/L
|	Se	82	2251.977	0.01	24.4787	0.776	3.172	ug/L
⌊	Rb	85	16.667	-0.00				mg/L
	Y	89	229977.814	-28269.79				ug/L
	Rh	103	13.333	5.67				ug/L
⌈	Mo	98	245.681	0.00	0.0955	0.005	5.266	ug/L
|	Ag	107	114188.047	0.36	24.5516	0.058	0.234	ug/L
|	Cd	114	26306.041	0.08	24.5979	0.229	0.930	ug/L
|>	In	115	313315.775	313315.77				ug/L
|	Sn	118	1271.681	-0.00	-0.0555	0.006	11.600	ug/L
⌊	Sb	123	82975.808	0.26	25.4276	0.301	1.184	ug/L
⌈	Ba	135	38280.855	0.09	25.0137	0.445	1.779	ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	423660.894	423660.89				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	168521.580	0.42	24.2500	0.136	0.561	ug/L
|	Tl	205	413656.379	1.03	24.3804	0.232	0.952	ug/L
|	Pb	206	143057.432	0.35	25.0508	0.367	1.464	ug/L
|	Pb	207	125951.181	0.31	24.3302	0.199	0.818	ug/L
|	Pb	208	585791.470	1.45	24.7489	0.247	0.996	ug/L
|	U	238	786752.214	1.96	26.2833	0.039	0.149	ug/L
⌊>	Bi	209	402388.236	402388.24				ug/L

Approved: November 30, 2010

⌈	Na	23	24408.861	0.01	-0.0015	0.000	3.190	mg/L
|	Mg	24	770.107	0.00	-0.0023	0.000	1.261	mg/L
|	K	39	467797.994	0.15	-0.0041	0.000	2.173	mg/L
|	Ca	43	220.024	-0.00	0.0066	0.002	27.264	mg/L
|	Fe	54	53772.135	-0.00	0.0003	0.000	138.581	mg/L
|	Fe	57	7563.617	0.00	-0.0019	0.001	45.504	mg/L
⌊>	Sc-1	45	271948.457	271948.46				mg/L
	Cl	35	28659.011	-1941.08				mg/L
	Kr	83	35.334	-9.00				mg/L
	Br	81	9037.416	-921.54				mg/L
	P	31	12224.168	-2651.58				mg/L
	S	34	199501.798	-17391.47				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.199			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.602			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.487			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.691			
⌈	Na	23					

Sample ID: LCSW A1 WG349668-04
Report Date/Time: Monday, November 29, 2010 10:47:56

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077301 WG349668-02

Sample Date/Time: Monday, November 29, 2010 10:52:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 80
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41167.924	0.03				ug/L
|	Be	9	5.333	0.00	0.0027	0.007	250.816	ug/L
|	Al	27	243683.420	0.86	35.1258	2.619	7.457	ug/L
⌊>	Sc	45	275066.644	275066.64				ug/L
⌈	Ti	49	1040.158	0.00	1.3000	0.156	12.008	ug/L
|	V	51	17989.768	0.04	1.4931	0.024	1.607	ug/L
|	Cr	52	16078.410	0.02	0.8181	0.034	4.202	ug/L
|	Cr	53	1536.939	0.00	1.2093	0.149	12.343	ug/L
|	Mn	55	50463.525	0.13	3.6670	0.047	1.271	ug/L
|	Co	59	2789.751	0.01	0.2142	0.008	3.875	ug/L
|	Ni	60	3476.639	0.01	1.3946	0.014	0.985	ug/L
|	Cu	65	3183.539	0.01	1.2226	0.020	1.641	ug/L
|	Zn	66	3688.050	-0.01	-0.5656	0.058	10.318	ug/L
|>	Ge	72	387496.149	387496.15				ug/L
|	As	75	4405.232	0.01	5.0031	0.031	0.616	ug/L
|	Se	77	103.344	0.00	0.6217	0.459	73.760	ug/L
|	Se	82	68.352	0.00	0.6397	0.091	14.187	ug/L
⌊	Rb	85	8264.831	0.02				mg/L
	Y	89	228129.329	-30118.27				ug/L
	Rh	103	44.001	36.33				ug/L
⌈	Mo	98	24478.707	0.08	12.3040	0.255	2.076	ug/L
|	Ag	107	50.334	0.00	-0.0066	0.001	22.604	ug/L
|	Cd	114	55.377	0.00	0.0345	0.012	34.124	ug/L
|>	In	115	308848.102	308848.10				ug/L
|	Sn	118	1405.565	0.00	-0.0113	0.004	39.572	ug/L
⌊	Sb	123	1159.573	0.00	0.3846	0.016	4.189	ug/L
⌈	Ba	135	29104.584	0.07	18.8858	0.037	0.198	ug/L
|	Ce	140	1073.509	0.00				ug/L
⌊>	Tb	159	426468.146	426468.15				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	2827.095	0.01	0.4283	0.012	2.798	ug/L
|	Tl	205	6789.652	0.02	0.4036	0.017	4.291	ug/L
|	Pb	206	751.369	0.00	0.0162	0.007	45.868	ug/L
|	Pb	207	634.026	0.00	0.0371	0.001	2.435	ug/L
|	Pb	208	2954.201	0.00	0.0234	0.002	8.545	ug/L
|	U	238	10446.941	0.03	0.3864	0.046	11.781	ug/L
⌊>	Bi	209	382268.756	382268.76				ug/L

Sample ID: L1011077301 WG349668-02
Report Date/Time: Monday, November 29, 2010 10:54:44
Page 1

Approved: November 30, 2010

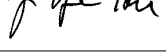
Na	23	55650656.323	202.20	8.9500	0.097	1.087	mg/L	
Mg	24	9755998.902	35.48	2.3738	0.044	1.852	mg/L	
K	39	9921277.678	34.51	0.9399	0.015	1.637	mg/L	
Ca	43	218550.701	0.79	10.0503	0.241	2.399	mg/L	
Fe	54	99604.262	0.16	0.0629	0.002	3.309	mg/L	
Fe	57	23586.925	0.06	0.0515	0.008	15.354	mg/L	
Sc-1	45	275066.644	275066.64				mg/L	
Cl	35	733115.064	702514.98				mg/L	
Kr	83	36.334	-8.00				mg/L	
Br	81	30631.511	20672.55				mg/L	
P	31	19170.379	4294.63				mg/L	
S	34	502604.976	285711.71				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		92.871			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		92.268			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		95.113			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		89.007			
Na	23					

Sample ID: L1011077301 WG349668-02
Report Date/Time: Monday, November 29, 2010 10:54:44
Page 2

Approved: November 30, 2010



| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011077301 WG349668-02
Report Date/Time: Monday, November 29, 2010 10:54:44
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077301DP WG349668-07

Sample Date/Time: Monday, November 29, 2010 10:59:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 81
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41234.867	0.03				ug/L
|	Be	9	9.333	0.00	0.0122	0.014	112.893	ug/L
|	Al	27	215536.699	0.77	31.4766	1.291	4.101	ug/L
⌊>	Sc	45	270664.966	270664.97				ug/L
⌈	Ti	49	776.775	0.00	0.8793	0.080	9.094	ug/L
|	V	51	18216.892	0.04	1.5208	0.039	2.545	ug/L
|	Cr	52	15894.781	0.02	0.8023	0.014	1.766	ug/L
|	Cr	53	1196.858	0.00	0.8733	0.042	4.814	ug/L
|	Mn	55	50177.749	0.13	3.6574	0.032	0.869	ug/L
|	Co	59	2788.417	0.01	0.2149	0.008	3.678	ug/L
|	Ni	60	3418.285	0.01	1.3749	0.036	2.642	ug/L
|	Cu	65	3128.187	0.01	1.2037	0.040	3.297	ug/L
|	Zn	66	4348.656	-0.01	-0.0583	0.029	50.527	ug/L
|>	Ge	72	386287.666	386287.67				ug/L
|	As	75	4386.214	0.01	4.9972	0.116	2.315	ug/L
|	Se	77	103.344	0.00	0.6236	0.080	12.809	ug/L
|	Se	82	57.053	0.00	0.5166	0.063	12.282	ug/L
⌊	Rb	85	8217.791	0.02				mg/L
	Y	89	225257.812	-32989.79				ug/L
	Rh	103	45.667	38.00				ug/L
⌈	Mo	98	24597.624	0.08	12.4056	0.200	1.614	ug/L
|	Ag	107	51.334	0.00	-0.0063	0.001	18.421	ug/L
|	Cd	114	62.754	0.00	0.0417	0.004	8.788	ug/L
|>	In	115	307793.428	307793.43				ug/L
|	Sn	118	1398.898	0.00	-0.0119	0.010	87.253	ug/L
⌊	Sb	123	994.596	0.00	0.3344	0.012	3.511	ug/L
⌈	Ba	135	28950.146	0.07	19.0918	0.308	1.612	ug/L
|	Ce	140	833.452	0.00				ug/L
⌊>	Tb	159	419617.267	419617.27				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	2733.734	0.01	0.4151	0.006	1.554	ug/L
|	Tl	205	6799.661	0.02	0.4053	0.023	5.788	ug/L
|	Pb	206	683.697	0.00	0.0040	0.003	74.382	ug/L
|	Pb	207	573.356	0.00	0.0250	0.007	26.584	ug/L
|	Pb	208	2739.844	0.00	0.0141	0.001	7.214	ug/L
|	U	238	6331.068	0.02	0.2422	0.006	2.639	ug/L
⌊>	Bi	209	381342.334	381342.33				ug/L

Sample ID: L1011077301DP WG349668-07
Report Date/Time: Monday, November 29, 2010 11:01:33
Page 1

Approved: November 30, 2010

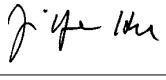
Na	23	54962796.444	203.05	8.9873	0.207	2.304	mg/L
Mg	24	9654084.755	35.67	2.3870	0.043	1.797	mg/L
K	39	9963027.517	35.25	0.9603	0.030	3.120	mg/L
Ca	43	218374.294	0.81	10.2033	0.266	2.608	mg/L
Fe	54	97067.721	0.16	0.0616	0.005	8.089	mg/L
Fe	57	23987.827	0.06	0.0540	0.002	4.192	mg/L
Sc-1	45	270664.966	270664.97				mg/L
Cl	35	258024.562	227424.48				mg/L
Kr	83	32.334	-12.00				mg/L
Br	81	27181.566	17222.61				mg/L
P	31	19150.334	4274.59				mg/L
S	34	503444.038	286550.77				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		92.581			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		91.953			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		93.585			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		88.791			
Na	23					

Sample ID: L1011077301DP WG349668-07
Report Date/Time: Monday, November 29, 2010 11:01:33

Approved: November 30, 2010



| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011077301DP WG349668-07
Report Date/Time: Monday, November 29, 2010 11:01:33
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077301S WG349668-08

Sample Date/Time: Monday, November 29, 2010 11:06:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 82
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43594.914	0.04				ug/L
|	Be	9	5115.309	0.02	11.7774	0.195	1.657	ug/L
|	Al	27	265255.656	0.94	38.4720	0.871	2.264	ug/L
⌊>	Sc	45	274380.171	274380.17				ug/L
⌈	Ti	49	576.741	0.00	0.5660	0.188	33.209	ug/L
|	V	51	144844.177	0.37	14.1628	0.104	0.735	ug/L
|	Cr	52	123105.065	0.30	13.5509	0.022	0.164	ug/L
|	Cr	53	13507.138	0.03	13.3919	0.321	2.398	ug/L
|	Mn	55	221137.323	0.58	16.4640	0.133	0.809	ug/L
|	Co	59	146942.193	0.38	13.0011	0.129	0.995	ug/L
|	Ni	60	34166.626	0.09	14.2792	0.163	1.143	ug/L
|	Cu	65	33246.511	0.09	13.8367	0.090	0.652	ug/L
|	Zn	66	20012.540	0.03	11.9548	0.129	1.082	ug/L
|>	Ge	72	381629.260	381629.26				ug/L
|	As	75	14788.158	0.04	16.6297	0.316	1.903	ug/L
|	Se	77	843.454	0.00	11.0465	2.389	21.624	ug/L
|	Se	82	1015.020	0.00	11.2982	0.245	2.171	ug/L
⌊	Rb	85	8264.830	0.02				mg/L
	Y	89	222002.770	-36244.83				ug/L
	Rh	103	51.334	43.67				ug/L
⌈	Mo	98	24547.144	0.08	12.4357	0.299	2.405	ug/L
|	Ag	107	50889.671	0.17	11.1792	0.121	1.086	ug/L
|	Cd	114	12230.935	0.04	11.6859	0.303	2.589	ug/L
|>	In	115	306408.704	306408.70				ug/L
|	Sn	118	1264.213	-0.00	-0.0495	0.005	9.104	ug/L
⌊	Sb	123	40034.214	0.13	12.5569	0.082	0.653	ug/L
⌈	Ba	135	47528.835	0.11	31.1584	0.464	1.488	ug/L
|	Ce	140	663.422	0.00				ug/L
⌊>	Tb	159	422415.869	422415.87				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	83648.288	0.22	12.5598	0.037	0.296	ug/L
|	Tl	205	206446.564	0.54	12.6877	0.085	0.667	ug/L
|	Pb	206	68476.351	0.18	12.4496	0.054	0.430	ug/L
|	Pb	207	60787.514	0.16	12.2060	0.059	0.487	ug/L
|	Pb	208	280461.950	0.72	12.3093	0.019	0.158	ug/L
|	U	238	398704.338	1.03	13.9089	0.058	0.419	ug/L
⌊>	Bi	209	385605.713	385605.71				ug/L

Sample ID: L1011077301S WG349668-08
Report Date/Time: Monday, November 29, 2010 11:08:22
Page 1

Approved: November 30, 2010

⌈	Na	23	56723057.796	206.66	9.1474	0.101	1.099	mg/L
|	Mg	24	9884021.490	36.02	2.4104	0.027	1.119	mg/L
|	K	39	10178605.775	35.52	0.9678	0.017	1.781	mg/L
|	Ca	43	219795.093	0.80	10.1279	0.131	1.298	mg/L
|	Fe	54	92338.356	0.14	0.0531	0.001	2.195	mg/L
|	Fe	57	22046.478	0.05	0.0464	0.001	2.110	mg/L
⌊>	Sc-1	45	274380.171	274380.17				mg/L
	Cl	35	254663.061	224062.98				mg/L
	Kr	83	43.667	-0.67				mg/L
	Br	81	26623.406	16664.45				mg/L
	P	31	19230.473	4354.73				mg/L
	S	34	513911.216	297017.95				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.465			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.539			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.209			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.784			
⌈	Na	23					

Sample ID: L1011077301S WG349668-08
Report Date/Time: Monday, November 29, 2010 11:08:22
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067801

Sample Date/Time: Monday, November 29, 2010 11:12:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 83
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42255.814	0.02				ug/L
|	Be	9	0.667	-0.00	-0.0081	0.002	29.696	ug/L
|	Al	27	79279.742	0.24	9.8969	0.320	3.231	ug/L
⌊>	Sc	45	295401.728	295401.73				ug/L
⌈	Ti	49	630.083	0.00	0.6865	0.179	26.064	ug/L
|	V	51	3006.858	0.00	0.0364	0.009	23.404	ug/L
|	Cr	52	11734.332	0.01	0.3751	0.020	5.317	ug/L
|	Cr	53	1000.150	0.00	0.7201	0.078	10.843	ug/L
|	Mn	55	2427635.183	6.56	186.8884	1.312	0.702	ug/L
|	Co	59	5824.754	0.02	0.5034	0.009	1.740	ug/L
|	Ni	60	8330.889	0.02	3.5612	0.141	3.966	ug/L
|	Cu	65	671.029	0.00	0.1990	0.004	2.110	ug/L
|	Zn	66	4191.587	-0.01	-0.0375	0.072	193.259	ug/L
|>	Ge	72	369974.447	369974.45				ug/L
|	As	75	2119.278	0.01	2.6082	0.028	1.073	ug/L
|	Se	77	123.347	0.00	0.9750	0.842	86.349	ug/L
|	Se	82	84.987	0.00	0.8688	0.097	11.123	ug/L
⌊	Rb	85	2199.931	0.01				mg/L
	Y	89	219899.977	-38347.63				ug/L
	Rh	103	86.335	78.67				ug/L
⌈	Mo	98	8641.980	0.03	4.3775	0.088	2.003	ug/L
|	Ag	107	83.335	0.00	0.0008	0.002	218.260	ug/L
|	Cd	114	33.848	0.00	0.0143	0.018	127.618	ug/L
|>	In	115	305289.037	305289.04				ug/L
|	Sn	118	1451.572	0.00	0.0070	0.004	61.820	ug/L
⌊	Sb	123	588.268	0.00	0.2094	0.020	9.378	ug/L
⌈	Ba	135	39657.226	0.09	25.2084	0.413	1.640	ug/L
|	Ce	140	413.383	0.00				ug/L
⌊>	Tb	159	435473.821	435473.82				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	210.004	0.00	0.0330	0.001	2.817	ug/L
|	Tl	205	523.400	0.00	0.0158	0.006	39.003	ug/L
|	Pb	206	756.036	0.00	0.0221	0.006	26.644	ug/L
|	Pb	207	635.027	0.00	0.0420	0.007	16.545	ug/L
|	Pb	208	2973.871	0.00	0.0291	0.002	8.314	ug/L
|	U	238	27477.643	0.07	1.0194	0.006	0.594	ug/L
⌊>	Bi	209	369022.001	369022.00				ug/L

Sample ID: L1011067801
Report Date/Time: Monday, November 29, 2010 11:15:07
Page 1

Approved: November 30, 2010

⌈	Na	23	86713494.731	293.47	12.9906	0.045	0.350	mg/L
|	Mg	24	50439596.454	170.81	11.4383	0.250	2.188	mg/L
|	K	39	14012536.778	45.87	1.2521	0.014	1.110	mg/L
|	Ca	43	1031408.702	3.49	44.1710	0.616	1.394	mg/L
|	Fe	54	843612.903	2.66	1.0124	0.040	3.925	mg/L
|	Fe	57	365119.839	1.21	1.1099	0.013	1.188	mg/L
⌊>	Sc-1	45	295401.728	295401.73				mg/L
	Cl	35	562972.379	532372.29				mg/L
	Kr	83	40.000	-4.33				mg/L
	Br	81	19441.549	9482.59				mg/L
	P	31	21950.112	7074.37				mg/L
	S	34	676328.245	459434.98				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.671			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.204			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.121			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		85.922			
⌈	Na	23					

Sample ID: L1011067801
Report Date/Time: Monday, November 29, 2010 11:15:07

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067802

Sample Date/Time: Monday, November 29, 2010 11:19:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 84
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43126.344	0.03				ug/L
|	Be	9	6.667	0.00	0.0050	0.005	98.019	ug/L
|	Al	27	200107.182	0.66	27.0688	1.181	4.362	ug/L
⌊>	Sc	45	290567.883	290567.88				ug/L
⌈	Ti	49	1590.286	0.00	2.4348	0.274	11.271	ug/L
|	V	51	4372.802	0.01	0.1982	0.032	16.143	ug/L
|	Cr	52	11793.069	0.01	0.4512	0.009	1.927	ug/L
|	Cr	53	2013.738	0.00	1.8824	0.071	3.774	ug/L
|	Mn	55	2270466.162	6.43	183.1013	3.286	1.794	ug/L
|	Co	59	18518.655	0.05	1.7451	0.018	1.017	ug/L
|	Ni	60	17304.490	0.05	7.7952	0.276	3.540	ug/L
|	Cu	65	1856.191	0.00	0.7493	0.025	3.359	ug/L
|	Zn	66	3679.047	-0.01	-0.3028	0.045	14.848	ug/L
|>	Ge	72	353125.402	353125.40				ug/L
|	As	75	728.159	0.00	1.0493	0.238	22.643	ug/L
|	Se	77	1220.197	0.00	17.7104	1.900	10.728	ug/L
|	Se	82	1333.866	0.00	16.0881	0.859	5.340	ug/L
⌊	Rb	85	12162.181	0.03				mg/L
	Y	89	221733.724	-36513.88				ug/L
	Rh	103	96.335	88.67				ug/L
⌈	Mo	98	7285.851	0.02	3.7943	0.053	1.403	ug/L
|	Ag	107	56.334	0.00	-0.0048	0.002	33.326	ug/L
|	Cd	114	75.784	0.00	0.0568	0.008	13.232	ug/L
|>	In	115	296643.001	296643.00				ug/L
|	Sn	118	1898.181	0.00	0.1542	0.028	17.903	ug/L
⌊	Sb	123	6454.061	0.02	2.1114	0.008	0.377	ug/L
⌈	Ba	135	60704.995	0.14	39.0016	0.932	2.389	ug/L
|	Ce	140	2027.078	0.00				ug/L
⌊>	Tb	159	431256.693	431256.69				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	940.387	0.00	0.1586	0.006	3.578	ug/L
|	Tl	205	2067.087	0.01	0.1251	0.008	6.207	ug/L
|	Pb	206	802.707	0.00	0.0426	0.012	28.951	ug/L
|	Pb	207	655.361	0.00	0.0566	0.002	3.427	ug/L
|	Pb	208	3095.219	0.00	0.0453	0.001	2.785	ug/L
|	U	238	69852.258	0.20	2.7508	0.016	0.599	ug/L
⌊>	Bi	209	343479.621	343479.62				ug/L

Sample ID: L1011067802
Report Date/Time: Monday, November 29, 2010 11:21:52
Page 1

Approved: November 30, 2010

⌈	Na	23	477426790.231	1645.02	72.8261	2.843	3.904	mg/L
|	Mg	24	98739777.767	340.39	22.7966	1.172	5.143	mg/L
|	K	39	112518142.821	386.12	10.6003	0.448	4.228	mg/L
|	Ca	43	1740737.427	5.99	75.8355	2.329	3.071	mg/L
|	Fe	54	150644.617	0.32	0.1225	0.008	6.719	mg/L
|	Fe	57	91725.880	0.29	0.2628	0.012	4.384	mg/L
⌊>	Sc-1	45	290567.883	290567.88				mg/L
	Cl	35	2071367.321	2040767.24				mg/L
	Kr	83	27.667	-16.67				mg/L
	Br	81	52508.239	42549.28				mg/L
	P	31	24605.706	9729.96				mg/L
	S	34	1538281.630	1321388.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.633			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.621			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.181			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		79.975			
⌈	Na	23					

Sample ID: L1011067802
Report Date/Time: Monday, November 29, 2010 11:21:52

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067802PS WG349751-01

Sample Date/Time: Monday, November 29, 2010 11:26:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 85
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42389.932	0.03				ug/L
|	Be	9	20195.707	0.07	45.7316	0.643	1.405	ug/L
|	Al	27	497738.863	1.76	71.8610	1.646	2.290	ug/L
⌊>	Sc	45	279193.916	279193.92				ug/L
⌈	Ti	49	1413.575	0.00	2.2203	0.233	10.515	ug/L
|	V	51	499774.886	1.46	55.6170	0.300	0.540	ug/L
|	Cr	52	427508.755	1.23	55.8816	0.343	0.613	ug/L
|	Cr	53	51366.746	0.15	58.2234	0.986	1.694	ug/L
|	Mn	55	2816690.722	8.28	235.8965	3.360	1.424	ug/L
|	Co	59	559500.243	1.64	55.6423	0.078	0.140	ug/L
|	Ni	60	126153.090	0.37	59.2927	0.494	0.832	ug/L
|	Cu	65	105504.382	0.31	49.5048	0.261	0.527	ug/L
|	Zn	66	54739.644	0.14	43.6080	0.391	0.896	ug/L
|>	Ge	72	340089.476	340089.48				ug/L
|	As	75	38671.147	0.11	48.4548	0.192	0.397	ug/L
|	Se	77	3824.447	0.01	59.5046	1.731	2.909	ug/L
|	Se	82	4664.160	0.01	58.7523	0.385	0.656	ug/L
⌊	Rb	85	11610.854	0.03				mg/L
	Y	89	217317.607	-40930.00				ug/L
	Rh	103	94.335	86.67				ug/L
⌈	Mo	98	6883.081	0.02	3.6616	0.034	0.928	ug/L
|	Ag	107	194104.354	0.67	45.0534	0.306	0.680	ug/L
|	Cd	114	46348.348	0.16	46.7866	0.574	1.227	ug/L
|>	In	115	290335.722	290335.72				ug/L
|	Sn	118	1816.565	0.00	0.1418	0.025	17.466	ug/L
⌊	Sb	123	153076.774	0.53	50.5996	0.489	0.966	ug/L
⌈	Ba	135	127349.378	0.30	84.1928	0.554	0.658	ug/L
|	Ce	140	1813.679	0.00				ug/L
⌊>	Tb	159	418991.180	418991.18				ug/L
⌈	Ho	165	36.670	0.00				ug/L
|	Tl	203	307937.157	0.90	52.3398	0.335	0.639	ug/L
|	Tl	205	762333.597	2.24	53.0875	0.317	0.596	ug/L
|	Pb	206	257251.963	0.75	53.3417	0.536	1.005	ug/L
|	Pb	207	226875.416	0.66	51.8675	0.103	0.199	ug/L
|	Pb	208	1050539.765	3.08	52.5433	0.311	0.592	ug/L
|	U	238	1623505.576	4.77	64.0372	0.234	0.366	ug/L
⌊>	Bi	209	340653.600	340653.60				ug/L

Approved: November 30, 2010

⌈	Na	23	448391996.266	1605.94	71.0960	1.137	1.599	mg/L
|	Mg	24	92940141.663	332.88	22.2936	0.104	0.466	mg/L
|	K	39	104225208.929	371.74	10.2051	0.143	1.403	mg/L
|	Ca	43	1592839.049	5.70	72.1607	0.819	1.134	mg/L
|	Fe	54	142561.614	0.31	0.1194	0.001	1.187	mg/L
|	Fe	57	88421.743	0.29	0.2638	0.010	3.772	mg/L
⌊>	Sc-1	45	279193.916	279193.92				mg/L
	Cl	35	1950843.038	1920242.95				mg/L
	Kr	83	37.334	-7.00				mg/L
	Br	81	51494.278	41535.32				mg/L
	P	31	22282.141	7406.40				mg/L
	S	34	1432669.669	1215776.40				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		81.509			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.737			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.445			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		79.317			
⌈	Na	23					

Sample ID: L1011067802PS WG349751-01
Report Date/Time: Monday, November 29, 2010 11:28:38
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067802SDL WG349751-02

Sample Date/Time: Monday, November 29, 2010 11:33:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 86
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42255.909	0.03				ug/L
|	Be	9	8.000	0.00	0.0081	0.012	143.257	ug/L
|	Al	27	85160.404	0.27	10.9696	5.476	49.920	ug/L
⌊>	Sc	45	288966.975	288966.97				ug/L
⌈	Ti	49	470.058	0.00	0.3978	0.170	42.736	ug/L
|	V	51	3109.287	0.00	0.0390	0.004	10.443	ug/L
|	Cr	52	9738.838	0.00	0.1012	0.015	14.469	ug/L
|	Cr	53	943.473	0.00	0.6365	0.124	19.462	ug/L
|	Mn	55	530238.953	1.40	39.7824	2.050	5.152	ug/L
|	Co	59	4499.057	0.01	0.3720	0.012	3.092	ug/L
|	Ni	60	4240.942	0.01	1.7478	0.068	3.896	ug/L
|	Cu	65	641.027	0.00	0.1792	0.006	3.208	ug/L
|	Zn	66	3123.186	-0.01	-0.9405	0.054	5.727	ug/L
|>	Ge	72	379363.156	379363.16				ug/L
|	As	75	139.185	0.00	0.3315	0.099	29.940	ug/L
|	Se	77	363.376	0.00	4.3275	0.251	5.805	ug/L
|	Se	82	357.075	0.00	3.9233	0.118	3.004	ug/L
⌊	Rb	85	2922.124	0.01				mg/L
	Y	89	239358.351	-18889.25				ug/L
	Rh	103	27.000	19.33				ug/L
⌈	Mo	98	1797.038	0.01	0.8024	0.039	4.852	ug/L
|	Ag	107	103.668	0.00	0.0031	0.003	109.115	ug/L
|	Cd	114	43.241	0.00	0.0195	0.004	18.176	ug/L
|>	In	115	337331.304	337331.30				ug/L
|	Sn	118	1100.594	-0.00	-0.1269	0.002	1.527	ug/L
⌊	Sb	123	1883.777	0.01	0.5602	0.035	6.224	ug/L
⌈	Ba	135	14672.582	0.03	8.6836	0.429	4.936	ug/L
|	Ce	140	530.067	0.00				ug/L
⌊>	Tb	159	467043.935	467043.94				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	315.341	0.00	0.0449	0.002	5.169	ug/L
|	Tl	205	823.450	0.00	0.0301	0.004	14.464	ug/L
|	Pb	206	632.026	0.00	-0.0132	0.004	28.426	ug/L
|	Pb	207	552.687	0.00	0.0135	0.002	16.655	ug/L
|	Pb	208	2550.821	0.00	-0.0017	0.002	124.187	ug/L
|	U	238	19128.512	0.05	0.6499	0.046	7.062	ug/L
⌊>	Bi	209	407606.439	407606.44				ug/L

Approved: November 30, 2010

⌈	Na	23	110118498.241	381.29	16.8786	1.210	7.170	mg/L
|	Mg	24	23053970.554	79.85	5.3455	0.337	6.302	mg/L
|	K	39	26268428.437	89.39	2.4477	0.135	5.507	mg/L
|	Ca	43	410983.817	1.42	18.0005	1.142	6.345	mg/L
|	Fe	54	79264.842	0.08	0.0295	0.004	13.557	mg/L
|	Fe	57	29091.923	0.07	0.0652	0.007	11.479	mg/L
⌊>	Sc-1	45	288966.975	288966.97				mg/L
	Cl	35	499448.689	468848.60				mg/L
	Kr	83	31.000	-13.33				mg/L
	Br	81	20690.725	10731.77				mg/L
	P	31	18710.844	3835.10				mg/L
	S	34	552916.770	336023.50				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.922			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.777			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.162			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.906			
⌈	Na	23					

Sample ID: L1011067802SDL WG349751-02
Report Date/Time: Monday, November 29, 2010 11:35:25
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 29, 2010 11:39:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43193.150	0.04				ug/L
|	Be	9	22914.225	0.09	53.8500	0.811	1.505	ug/L
|	Al	27	334840.208	1.22	49.8465	2.926	5.870	ug/L
⌊>	Sc	45	269020.625	269020.63				ug/L
⌈	Ti	49	63111.758	0.17	103.5051	4.288	4.143	ug/L
|	V	51	523030.037	1.37	52.1333	0.866	1.661	ug/L
|	Cr	52	447604.055	1.16	52.3583	0.474	0.904	ug/L
|	Cr	53	51879.402	0.14	52.6614	0.439	0.834	ug/L
|	Mn	55	716436.204	1.89	53.7302	0.502	0.935	ug/L
|	Co	59	587610.774	1.55	52.3602	0.116	0.222	ug/L
|	Ni	60	124462.467	0.33	52.4116	0.770	1.469	ug/L
|	Cu	65	120572.080	0.32	50.6944	0.036	0.072	ug/L
|	Zn	66	68181.665	0.16	49.0581	0.158	0.323	ug/L
| >	Ge	72	379556.918	379556.92				ug/L
|	As	75	44669.002	0.12	50.1434	0.552	1.101	ug/L
|	Se	77	3637.692	0.01	50.5924	1.700	3.361	ug/L
|	Se	82	4603.850	0.01	51.9505	0.950	1.829	ug/L
⌊	Rb	85	1864.859	0.00				mg/L
	Y	89	236609.914	-21637.69				ug/L
	Rh	103	22.334	14.67				ug/L
⌈	Mo	98	199038.900	0.60	93.4666	2.134	2.283	ug/L
|	Ag	107	241031.279	0.73	49.0513	0.254	0.519	ug/L
|	Cd	114	55517.055	0.17	49.1322	0.868	1.768	ug/L
| >	In	115	331154.163	331154.16				ug/L
|	Sn	118	186674.059	0.56	50.1763	0.324	0.645	ug/L
⌊	Sb	123	169198.697	0.51	49.0330	0.230	0.469	ug/L
⌈	Ba	135	77535.907	0.17	46.3796	0.592	1.277	ug/L
|	Ce	140	56.672	0.00				ug/L
⌊>	Tb	159	462970.242	462970.24				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	361719.807	0.86	49.7040	0.239	0.481	ug/L
|	Tl	205	892822.343	2.12	50.2666	0.301	0.600	ug/L
|	Pb	206	291248.497	0.69	48.8138	0.257	0.526	ug/L
|	Pb	207	275941.875	0.65	51.0028	0.362	0.710	ug/L
|	Pb	208	1228349.351	2.91	49.6643	0.235	0.474	ug/L
|	U	238	1696432.565	4.03	54.0960	0.623	1.152	ug/L
⌊>	Bi	209	421360.346	421360.35				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 11:42:10
Page 1

Approved: November 30, 2010

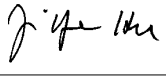
Na	23	31034917.896	115.28	5.1018	0.040	0.776	mg/L
Mg	24	19524422.120	72.58	4.8586	0.081	1.673	mg/L
K	39	49131630.930	181.06	4.9662	0.054	1.096	mg/L
Ca	43	109538.036	0.41	5.1462	0.162	3.145	mg/L
Fe	54	3631509.614	13.30	5.0610	0.088	1.737	mg/L
Fe	57	1480062.543	5.47	5.0346	0.021	0.423	mg/L
> Sc-1	45	269020.625	269020.63				mg/L
Cl	35	24376.344	-6223.74				mg/L
Kr	83	31.000	-13.33				mg/L
Br	81	9962.961	4.00				mg/L
P	31	13818.931	-1056.82				mg/L
S	34	229282.155	12388.89				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	104.267				
Cr	52	104.717				
Cr	53					
Mn	55	107.460				
Co	59	104.720				
Ni	60	104.823				
Cu	65	101.389				
Zn	66	98.116				
> Ge	72		90.968			
As	75	100.287				
Se	77					
Se	82	103.901				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.103				
Cd	114	98.264				
> In	115		98.932			
Sn	118					
Sb	123	98.066				
Ba	135	92.759				
Ce	140					
> Tb	159		103.254			
Ho	165					
Tl	203	99.408				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.329				
U	238	108.192				
> Bi	209		98.109			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 11:42:10

Approved: November 30, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 11:42:10

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 29, 2010 11:46:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43176.384	0.03				ug/L
|	Be	9	6.000	0.00	0.0040	0.004	110.036	ug/L
|	Al	27	5785.008	-0.01	-0.2503	0.040	15.866	ug/L
⌊>	Sc	45	282227.709	282227.71				ug/L
⌈	Ti	49	243.361	0.00	0.0215	0.061	283.121	ug/L
|	V	51	2515.646	-0.00	-0.0222	0.002	10.024	ug/L
|	Cr	52	8191.102	-0.00	-0.0899	0.015	16.268	ug/L
|	Cr	53	300.035	-0.00	-0.0234	0.024	102.941	ug/L
|	Mn	55	342.009	-0.00	-0.0176	0.001	5.781	ug/L
|	Co	59	195.004	-0.00	-0.0121	0.001	9.464	ug/L
|	Ni	60	27.667	0.00	-0.0291	0.003	11.015	ug/L
|	Cu	65	132.002	-0.00	-0.0357	0.002	5.045	ug/L
|	Zn	66	1201.084	-0.02	-2.4246	0.013	0.553	ug/L
|>	Ge	72	381830.259	381830.26				ug/L
|	As	75	-145.180	0.00	0.0148	0.043	287.992	ug/L
|	Se	77	66.674	0.00	0.1255	0.667	531.314	ug/L
|	Se	82	5.391	0.00	-0.0559	0.144	256.943	ug/L
⌊	Rb	85	11.000	-0.00				mg/L
	Y	89	237558.788	-20688.82				ug/L
	Rh	103	7.333	-0.33				ug/L
⌈	Mo	98	1862.830	0.01	0.8389	0.138	16.445	ug/L
|	Ag	107	57.667	0.00	-0.0060	0.001	15.821	ug/L
|	Cd	114	14.749	-0.00	-0.0052	0.001	14.740	ug/L
|>	In	115	334725.624	334725.62				ug/L
|	Sn	118	1339.423	-0.00	-0.0606	0.014	22.618	ug/L
⌊	Sb	123	232.502	0.00	0.0911	0.005	5.229	ug/L
⌈	Ba	135	13.000	0.00	-0.0149	0.001	7.173	ug/L
|	Ce	140	26.669	0.00				ug/L
⌊>	Tb	159	465863.905	465863.90				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	27.334	-0.00	0.0038	0.000	8.442	ug/L
|	Tl	205	63.340	-0.00	-0.0144	0.001	4.605	ug/L
|	Pb	206	520.685	-0.00	-0.0366	0.000	1.082	ug/L
|	Pb	207	436.681	-0.00	-0.0124	0.003	24.206	ug/L
|	Pb	208	2052.437	-0.00	-0.0264	0.001	3.203	ug/L
|	U	238	8435.050	0.02	0.2848	0.049	17.350	ug/L
⌊>	Bi	209	426834.801	426834.80				ug/L

Approved: November 30, 2010

⌈	Na	23	20148.965	-0.01	-0.0023	0.000	5.026	mg/L
|	Mg	24	710.097	0.00	-0.0023	0.000	1.253	mg/L
|	K	39	425432.991	-0.06	-0.0099	0.001	6.234	mg/L
|	Ca	43	133.348	-0.00	0.0024	0.000	14.545	mg/L
|	Fe	54	53196.581	-0.01	-0.0032	0.002	65.425	mg/L
|	Fe	57	7566.954	-0.00	-0.0029	0.001	35.413	mg/L
⌊>	Sc-1	45	282227.709	282227.71				mg/L
	Cl	35	26201.620	-4398.47				mg/L
	Kr	83	31.667	-12.67				mg/L
	Br	81	9885.552	-73.41				mg/L
	P	31	13840.927	-1034.82				mg/L
	S	34	222637.174	5743.90				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.513			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.999			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.899			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.383			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 11:48:53

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 11:48:53

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067803 WG349668-01

Sample Date/Time: Monday, November 29, 2010 11:53:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 87
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45017.964	0.04				ug/L
|	Be	9	6.000	0.00	0.0040	0.009	224.183	ug/L
|	Al	27	95739.968	0.31	12.7566	0.514	4.033	ug/L
⌊>	Sc	45	282913.268	282913.27				ug/L
⌈	Ti	49	993.482	0.00	1.4251	0.134	9.402	ug/L
|	V	51	2262.714	-0.00	-0.0232	0.030	128.914	ug/L
|	Cr	52	9029.165	0.00	0.1256	0.012	9.228	ug/L
|	Cr	53	1787.010	0.00	1.6797	0.409	24.333	ug/L
|	Mn	55	1265831.132	3.67	104.6324	1.022	0.977	ug/L
|	Co	59	7205.668	0.02	0.6783	0.008	1.242	ug/L
|	Ni	60	9237.024	0.03	4.2489	0.103	2.423	ug/L
|	Cu	65	816.375	0.00	0.2882	0.036	12.359	ug/L
|	Zn	66	4278.291	-0.01	0.2801	0.042	14.904	ug/L
|>	Ge	72	344514.273	344514.27				ug/L
|	As	75	3832.030	0.01	4.8997	0.125	2.545	ug/L
|	Se	77	120.013	0.00	1.0599	0.481	45.360	ug/L
|	Se	82	37.711	0.00	0.3528	0.146	41.355	ug/L
⌊	Rb	85	3671.044	0.01				mg/L
	Y	89	220435.307	-37812.30				ug/L
	Rh	103	77.334	69.67				ug/L
⌈	Mo	98	4807.469	0.02	2.4796	0.036	1.441	ug/L
|	Ag	107	44.667	0.00	-0.0075	0.001	14.483	ug/L
|	Cd	114	31.176	0.00	0.0125	0.013	103.780	ug/L
|>	In	115	298417.455	298417.45				ug/L
|	Sn	118	1966.060	0.00	0.1716	0.012	7.229	ug/L
⌊	Sb	123	338.170	0.00	0.1331	0.007	5.226	ug/L
⌈	Ba	135	37466.765	0.09	24.0043	0.058	0.241	ug/L
|	Ce	140	496.729	0.00				ug/L
⌊>	Tb	159	432052.670	432052.67				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	198.004	0.00	0.0332	0.003	7.770	ug/L
|	Tl	205	553.404	0.00	0.0201	0.004	19.375	ug/L
|	Pb	206	902.050	0.00	0.0619	0.006	9.745	ug/L
|	Pb	207	764.370	0.00	0.0803	0.011	13.080	ug/L
|	Pb	208	3549.283	0.00	0.0668	0.002	2.490	ug/L
|	U	238	70482.892	0.20	2.7594	0.022	0.784	ug/L
⌊>	Bi	209	345512.001	345512.00				ug/L

Sample ID: L1011067803 WG349668-01
Report Date/Time: Monday, November 29, 2010 11:55:40
Page 1

Approved: November 30, 2010

⌈	Na	23	459547509.814	1624.53	71.9190	2.594	3.607	mg/L
|	Mg	24	66433080.006	234.86	15.7280	0.454	2.887	mg/L
|	K	39	49933708.127	174.96	4.7988	0.124	2.587	mg/L
|	Ca	43	1610101.158	5.69	71.9912	1.436	1.995	mg/L
|	Fe	54	1678853.686	5.74	2.1833	0.074	3.383	mg/L
|	Fe	57	735068.940	2.57	2.3638	0.088	3.713	mg/L
⌊>	Sc-1	45	282913.268	282913.27				mg/L
	Cl	35	2161316.276	2130716.19				mg/L
	Kr	83	33.334	-11.00				mg/L
	Br	81	25876.114	15917.16				mg/L
	P	31	22580.202	7704.46				mg/L
	S	34	914964.453	698071.18				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.569			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.152			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.358			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		80.448			
⌈	Na	23					

Sample ID: L1011067803 WG349668-01
Report Date/Time: Monday, November 29, 2010 11:55:40
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067803S WG349668-05

Sample Date/Time: Monday, November 29, 2010 12:00:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 88
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45419.622	0.04				ug/L
|	Be	9	10554.901	0.04	23.9430	0.511	2.133	ug/L
|	Al	27	274490.826	0.96	39.2211	2.457	6.264	ug/L
⌊>	Sc	45	278662.831	278662.83				ug/L
⌈	Ti	49	953.475	0.00	1.3448	0.233	17.296	ug/L
|	V	51	256708.450	0.73	27.9347	0.371	1.328	ug/L
|	Cr	52	222338.594	0.62	28.0374	0.153	0.547	ug/L
|	Cr	53	27610.830	0.08	30.5959	0.360	1.177	ug/L
|	Mn	55	1592551.497	4.60	131.0353	0.650	0.496	ug/L
|	Co	59	289634.779	0.84	28.2870	0.320	1.131	ug/L
|	Ni	60	66780.241	0.19	30.8229	0.322	1.045	ug/L
|	Cu	65	54510.059	0.16	25.0864	0.216	0.861	ug/L
|	Zn	66	32371.311	0.07	23.9388	0.347	1.448	ug/L
|>	Ge	72	346118.541	346118.54				ug/L
|	As	75	23571.484	0.07	29.0903	0.174	0.598	ug/L
|	Se	77	1560.278	0.00	23.3689	1.483	6.344	ug/L
|	Se	82	1816.199	0.01	22.4078	0.504	2.249	ug/L
⌊	Rb	85	3742.071	0.01				mg/L
	Y	89	218731.316	-39516.29				ug/L
	Rh	103	85.001	77.33				ug/L
⌈	Mo	98	4540.903	0.01	2.3137	0.022	0.940	ug/L
|	Ag	107	100581.997	0.33	22.4448	0.039	0.173	ug/L
|	Cd	114	24140.539	0.08	23.4269	0.305	1.302	ug/L
|>	In	115	301867.758	301867.76				ug/L
|	Sn	118	1804.563	0.00	0.1167	0.019	16.656	ug/L
⌊	Sb	123	76671.660	0.25	24.3883	0.149	0.611	ug/L
⌈	Ba	135	73643.255	0.17	47.1134	0.181	0.385	ug/L
|	Ce	140	596.744	0.00				ug/L
⌊>	Tb	159	432872.652	432872.65				ug/L
⌈	Ho	165	36.670	0.00				ug/L
|	Tl	203	158911.677	0.46	26.8398	0.120	0.447	ug/L
|	Tl	205	391165.688	1.14	27.0611	0.085	0.314	ug/L
|	Pb	206	133953.332	0.39	27.5404	0.257	0.932	ug/L
|	Pb	207	117592.548	0.34	26.6706	0.181	0.678	ug/L
|	Pb	208	543999.831	1.58	26.9847	0.168	0.623	ug/L
|	U	238	870268.517	2.54	34.1202	0.322	0.945	ug/L
⌊>	Bi	209	342806.374	342806.37				ug/L

Sample ID: L1011067803S WG349668-05
Report Date/Time: Monday, November 29, 2010 12:02:27
Page 1

Approved: November 30, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	66117519.748	237.29	15.8909	0.458	2.885	mg/L
|	K	39	49691964.301	176.77	4.8483	0.092	1.890	mg/L
|	Ca	43	1586156.529	5.69	72.0043	1.928	2.677	mg/L
|	Fe	54	1662442.160	5.77	2.1950	0.033	1.503	mg/L
|	Fe	57	732815.391	2.60	2.3920	0.060	2.508	mg/L
⌊>	Sc-1	45	278662.831	278662.83				mg/L
	Cl	35	2178328.392	2147728.31				mg/L
	Kr	83	37.334	-7.00				mg/L
	Br	81	24753.265	14794.31				mg/L
	P	31	26306.577	11430.83				mg/L
	S	34	902923.506	686030.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.954			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.182			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.541			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		79.818			
⌈	Na	23					

Sample ID: L1011067803S WG349668-05
Report Date/Time: Monday, November 29, 2010 12:02:27

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011067803S WG349668-05
Report Date/Time: Monday, November 29, 2010 12:02:27
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067803SD WG349668-06

Sample Date/Time: Monday, November 29, 2010 12:07:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 89
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44465.418	0.04				ug/L
|	Be	9	10834.537	0.04	24.4597	0.526	2.150	ug/L
|	Al	27	271751.356	0.95	38.6545	2.844	7.357	ug/L
|>	Sc	45	279931.027	279931.03				ug/L
⌈	Ti	49	1176.855	0.00	1.7313	0.331	19.136	ug/L
|	V	51	258853.862	0.73	27.9480	0.109	0.391	ug/L
|	Cr	52	224456.301	0.62	28.0847	0.115	0.408	ug/L
|	Cr	53	27868.238	0.08	30.6418	0.713	2.327	ug/L
|	Mn	55	1631520.448	4.68	133.1915	0.681	0.511	ug/L
|	Co	59	292852.224	0.84	28.3777	0.094	0.331	ug/L
|	Ni	60	68107.163	0.20	31.1884	0.308	0.987	ug/L
|	Cu	65	55596.017	0.16	25.3868	0.218	0.857	ug/L
|	Zn	66	33021.433	0.08	24.2689	0.271	1.115	ug/L
|>	Ge	72	348856.861	348856.86				ug/L
|	As	75	23732.271	0.07	29.0602	0.302	1.038	ug/L
|	Se	77	1550.276	0.00	23.0222	1.693	7.352	ug/L
|	Se	82	1809.856	0.01	22.1514	0.176	0.793	ug/L
⌊	Rb	85	3850.780	0.01				mg/L
	Y	89	220468.987	-37778.62				ug/L
	Rh	103	82.668	75.00				ug/L
⌈	Mo	98	4483.059	0.01	2.2950	0.056	2.446	ug/L
|	Ag	107	101275.943	0.34	22.7110	0.198	0.874	ug/L
|	Cd	114	24735.854	0.08	24.1239	0.145	0.602	ug/L
|>	In	115	300397.399	300397.40				ug/L
|	Sn	118	1577.991	0.00	0.0517	0.014	27.535	ug/L
⌊	Sb	123	78201.036	0.26	24.9960	0.254	1.015	ug/L
⌈	Ba	135	74851.175	0.17	47.7387	0.390	0.816	ug/L
|	Ce	140	543.402	0.00				ug/L
|>	Tb	159	434222.779	434222.78				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	161078.970	0.47	26.9991	0.179	0.664	ug/L
|	Tl	205	399419.800	1.16	27.4227	0.117	0.427	ug/L
|	Pb	206	136300.969	0.39	27.8124	0.079	0.286	ug/L
|	Pb	207	119720.254	0.35	26.9474	0.037	0.139	ug/L
|	Pb	208	555956.478	1.60	27.3704	0.125	0.456	ug/L
|	U	238	887345.553	2.57	34.5258	0.120	0.347	ug/L
|>	Bi	209	345429.261	345429.26				ug/L

Approved: November 30, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	66656891.466	238.13	15.9473	0.205	1.288	mg/L
|	K	39	49667950.014	175.86	4.8233	0.041	0.844	mg/L
|	Ca	43	1580231.657	5.64	71.4044	1.020	1.428	mg/L
|	Fe	54	1691931.882	5.85	2.2251	0.048	2.141	mg/L
|	Fe	57	743938.226	2.63	2.4182	0.063	2.623	mg/L
⌊>	Sc-1	45	279931.027	279931.03				mg/L
	Cl	35	2194912.898	2164312.81				mg/L
	Kr	83	38.334	-6.00				mg/L
	Br	81	26214.991	16256.03				mg/L
	P	31	20425.026	5549.28				mg/L
	S	34	907765.388	690872.12				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		83.610			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.743			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.842			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		80.429			
⌈	Na	23					

Sample ID: L1011067803SD WG349668-06
Report Date/Time: Monday, November 29, 2010 12:09:14
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011067803SD WG349668-06
Report Date/Time: Monday, November 29, 2010 12:09:14
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067804

Sample Date/Time: Monday, November 29, 2010 12:13:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 90
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43310.424	0.04				ug/L
|	Be	9	9.333	0.00	0.0117	0.013	110.767	ug/L
|	Al	27	949244.231	3.38	138.3298	5.120	3.701	ug/L
⌊>	Sc	45	278662.985	278662.99				ug/L
⌈	Ti	49	2270.486	0.01	3.7323	0.295	7.893	ug/L
|	V	51	7589.212	0.01	0.5637	0.017	3.043	ug/L
|	Cr	52	10899.048	0.01	0.3692	0.024	6.523	ug/L
|	Cr	53	2253.813	0.01	2.2037	0.102	4.637	ug/L
|	Mn	55	4121089.624	11.94	340.2184	2.355	0.692	ug/L
|	Co	59	22148.397	0.06	2.1427	0.029	1.356	ug/L
|	Ni	60	14005.955	0.04	6.4509	0.224	3.467	ug/L
|	Cu	65	2308.290	0.01	0.9785	0.028	2.825	ug/L
|	Zn	66	6240.342	-0.00	1.9335	0.019	0.978	ug/L
|>	Ge	72	345032.983	345032.98				ug/L
|	As	75	3798.561	0.01	4.8501	0.054	1.119	ug/L
|	Se	77	140.015	0.00	1.3595	0.805	59.188	ug/L
|	Se	82	51.412	0.00	0.5228	0.108	20.752	ug/L
⌊	Rb	85	6713.320	0.02				mg/L
	Y	89	216939.637	-41307.97				ug/L
	Rh	103	66.668	59.00				ug/L
⌈	Mo	98	2514.424	0.01	1.3174	0.053	4.059	ug/L
|	Ag	107	66.334	0.00	-0.0022	0.003	148.221	ug/L
|	Cd	114	116.856	0.00	0.0997	0.011	10.899	ug/L
|>	In	115	290994.435	290994.44				ug/L
|	Sn	118	1395.697	0.00	0.0107	0.004	38.378	ug/L
⌊	Sb	123	516.513	0.00	0.1947	0.001	0.339	ug/L
⌈	Ba	135	41173.354	0.10	27.1961	0.073	0.269	ug/L
|	Ce	140	8324.295	0.02				ug/L
⌊>	Tb	159	419125.700	419125.70				ug/L
⌈	Ho	165	153.350	0.00				ug/L
|	Tl	203	365.344	0.00	0.0626	0.005	8.639	ug/L
|	Tl	205	923.469	0.00	0.0469	0.007	15.023	ug/L
|	Pb	206	2911.786	0.01	0.4862	0.005	1.054	ug/L
|	Pb	207	2431.653	0.01	0.4684	0.012	2.611	ug/L
|	Pb	208	11410.007	0.03	0.4671	0.004	0.905	ug/L
|	U	238	196617.629	0.58	7.8239	0.062	0.793	ug/L
⌊>	Bi	209	338394.534	338394.53				ug/L

Sample ID: L1011067804
Report Date/Time: Monday, November 29, 2010 12:16:02
Page 1

Approved: November 30, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	83106338.738	298.26	19.9747	0.372	1.865	mg/L
|	K	39	68738496.061	245.15	6.7272	0.236	3.503	mg/L
|	Ca	43	2229878.606	8.00	101.2337	3.230	3.190	mg/L
|	Fe	54	2181489.315	7.63	2.9043	0.095	3.270	mg/L
|	Fe	57	929631.513	3.31	3.0422	0.067	2.199	mg/L
⌊>	Sc-1	45	278662.985	278662.99				mg/L
	Cl	35	2076746.474	2046146.39				mg/L
	Kr	83	29.334	-15.00				mg/L
	Br	81	25243.171	15284.21				mg/L
	P	31	20847.050	5971.30				mg/L
	S	34	1752576.370	1535683.10				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.694			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.934			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.475			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		78.791			
⌈	Na	23					

Sample ID: L1011067804
Report Date/Time: Monday, November 29, 2010 12:16:02
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067806

Sample Date/Time: Monday, November 29, 2010 12:20:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 91
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	52453.963	0.07				ug/L
|	Be	9	5.333	0.00	0.0025	0.003	101.952	ug/L
|	Al	27	80894.308	0.26	10.6615	1.065	9.986	ug/L
⌊>	Sc	45	281678.847	281678.85				ug/L
⌈	Ti	49	1453.586	0.00	2.2007	0.371	16.852	ug/L
|	V	51	2885.113	0.00	0.0384	0.022	56.522	ug/L
|	Cr	52	10520.637	0.01	0.2902	0.007	2.293	ug/L
|	Cr	53	2303.829	0.01	2.2058	0.096	4.358	ug/L
|	Mn	55	244496.001	0.69	19.7141	0.385	1.952	ug/L
|	Co	59	2840.766	0.01	0.2433	0.011	4.600	ug/L
|	Ni	60	9708.143	0.03	4.3641	0.113	2.581	ug/L
|	Cu	65	1578.807	0.00	0.6251	0.017	2.791	ug/L
|	Zn	66	3315.583	-0.01	-0.5988	0.042	6.953	ug/L
|>	Ge	72	352525.683	352525.68				ug/L
|	As	75	522.672	0.00	0.8058	0.073	9.035	ug/L
|	Se	77	1893.702	0.01	28.0007	0.493	1.762	ug/L
|	Se	82	2241.342	0.01	27.1734	0.061	0.224	ug/L
⌊	Rb	85	9198.988	0.03				mg/L
	Y	89	225523.756	-32723.85				ug/L
	Rh	103	85.668	78.00				ug/L
⌈	Mo	98	7213.724	0.02	3.6654	0.134	3.660	ug/L
|	Ag	107	41.334	0.00	-0.0084	0.001	12.058	ug/L
|	Cd	114	52.011	0.00	0.0322	0.015	45.088	ug/L
|>	In	115	303852.802	303852.80				ug/L
|	Sn	118	1569.457	0.00	0.0435	0.030	69.024	ug/L
⌊	Sb	123	228.082	0.00	0.0964	0.002	1.959	ug/L
⌈	Ba	135	46716.002	0.11	29.2151	0.174	0.595	ug/L
|	Ce	140	503.396	0.00				ug/L
⌊>	Tb	159	442711.882	442711.88				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	853.045	0.00	0.1443	0.002	1.303	ug/L
|	Tl	205	2077.091	0.01	0.1260	0.007	5.793	ug/L
|	Pb	206	567.355	0.00	-0.0057	0.003	54.783	ug/L
|	Pb	207	473.016	0.00	0.0155	0.004	27.909	ug/L
|	Pb	208	2211.118	0.00	0.0017	0.002	89.696	ug/L
|	U	238	38858.088	0.11	1.5433	0.033	2.151	ug/L
⌊>	Bi	209	342491.454	342491.45				ug/L

Sample ID: L1011067806
Report Date/Time: Monday, November 29, 2010 12:22:50
Page 1

Approved: November 30, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	65832542.422	233.73	15.6521	0.292	1.866	mg/L
|	K	39	115491111.593	408.46	11.2139	0.280	2.500	mg/L
|	Ca	43	1405772.400	4.99	63.1293	1.644	2.603	mg/L
|	Fe	54	108984.900	0.19	0.0723	0.005	7.554	mg/L
|	Fe	57	70019.064	0.22	0.2011	0.018	9.133	mg/L
⌊>	Sc-1	45	281678.847	281678.85				mg/L
	Cl	35	1776172.376	1745572.29				mg/L
	Kr	83	31.334	-13.00				mg/L
	Br	81	39627.030	29668.07				mg/L
	P	31	22517.393	7641.65				mg/L
	S	34	1837028.042	1620134.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.490			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.775			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.736			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		79.745			
⌈	Na	23					

Sample ID: L1011067806
Report Date/Time: Monday, November 29, 2010 12:22:50

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067807

Sample Date/Time: Monday, November 29, 2010 12:27:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 92
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	55604.247	0.09				ug/L
|	Be	9	5.333	0.00	0.0033	0.007	220.850	ug/L
|	Al	27	54687.488	0.18	7.3551	1.807	24.571	ug/L
⌊>	Sc	45	264588.229	264588.23				ug/L
⌈	Ti	49	1486.926	0.00	2.4255	0.229	9.453	ug/L
|	V	51	3934.540	0.00	0.1786	0.009	4.807	ug/L
|	Cr	52	12908.122	0.02	0.7017	0.016	2.270	ug/L
|	Cr	53	1823.683	0.00	1.8041	0.201	11.120	ug/L
|	Mn	55	233290.238	0.70	19.9997	0.212	1.062	ug/L
|	Co	59	3226.219	0.01	0.2998	0.007	2.481	ug/L
|	Ni	60	8055.658	0.02	3.8451	0.041	1.055	ug/L
|	Cu	65	2614.034	0.01	1.1693	0.015	1.307	ug/L
|	Zn	66	3350.261	-0.01	-0.3949	0.047	11.946	ug/L
|>	Ge	72	331603.427	331603.43				ug/L
|	As	75	5159.903	0.02	6.7825	0.125	1.847	ug/L
|	Se	77	6486.086	0.02	104.1045	3.586	3.445	ug/L
|	Se	82	8101.464	0.02	104.7459	1.391	1.328	ug/L
⌊	Rb	85	5364.159	0.02				mg/L
	Y	89	206307.157	-51940.45				ug/L
	Rh	103	110.335	102.67				ug/L
⌈	Mo	98	57971.945	0.21	31.8920	0.463	1.452	ug/L
|	Ag	107	33.000	0.00	-0.0097	0.001	9.272	ug/L
|	Cd	114	60.616	0.00	0.0448	0.012	26.034	ug/L
|>	In	115	282551.743	282551.74				ug/L
|	Sn	118	1437.437	0.00	0.0369	0.020	53.570	ug/L
⌊	Sb	123	55055.356	0.19	18.7151	0.117	0.626	ug/L
⌈	Ba	135	48012.129	0.12	32.5862	0.356	1.091	ug/L
|	Ce	140	346.707	0.00				ug/L
⌊>	Tb	159	407970.097	407970.10				ug/L
⌈	Ho	165	60.006	0.00				ug/L
|	Tl	203	701.032	0.00	0.1235	0.003	2.099	ug/L
|	Tl	205	1636.965	0.00	0.1003	0.009	9.438	ug/L
|	Pb	206	567.355	0.00	-0.0008	0.007	834.178	ug/L
|	Pb	207	473.016	0.00	0.0199	0.004	21.916	ug/L
|	Pb	208	2211.451	0.00	0.0063	0.003	52.242	ug/L
|	U	238	82841.567	0.25	3.4025	0.009	0.272	ug/L
⌊>	Bi	209	328899.413	328899.41				ug/L

Sample ID: L1011067807
Report Date/Time: Monday, November 29, 2010 12:29:38
Page 1

Approved: November 30, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	64698193.654	244.55	16.3770	0.260	1.585	mg/L
|	K	39	151818324.518	572.30	15.7154	0.318	2.022	mg/L
|	Ca	43	1101044.941	4.16	52.6381	0.902	1.713	mg/L
|	Fe	54	95883.090	0.16	0.0630	0.005	7.970	mg/L
|	Fe	57	53796.360	0.18	0.1596	0.004	2.647	mg/L
⌊>	Sc-1	45	264588.229	264588.23				mg/L
	Cl	35	861753.813	831153.73				mg/L
	Kr	83	29.334	-15.00				mg/L
	Br	81	57881.857	47922.90				mg/L
	P	31	19171.702	4295.96				mg/L
	S	34	1939643.262	1722749.99				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		79.475			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		84.412			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.987			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		76.580			
⌈	Na	23					

Sample ID: L1011067807
Report Date/Time: Monday, November 29, 2010 12:29:38
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Se 82 Upper, S, EEE	Se	82	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067808

Sample Date/Time: Monday, November 29, 2010 12:34:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 93
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	84909.058	0.20				ug/L
|	Be	9	6.667	0.00	0.0065	0.015	224.714	ug/L
|	Al	27	635352.722	2.36	96.5252	1.387	1.436	ug/L
⌊>	Sc	45	266299.622	266299.62				ug/L
⌈	Ti	49	2804.008	0.01	5.0564	0.390	7.709	ug/L
|	V	51	7386.151	0.02	0.5988	0.019	3.174	ug/L
|	Cr	52	14382.481	0.02	0.9595	0.021	2.204	ug/L
|	Cr	53	2890.707	0.01	3.1497	0.183	5.816	ug/L
|	Mn	55	172172.063	0.53	15.1724	0.230	1.515	ug/L
|	Co	59	5124.698	0.02	0.5086	0.004	0.739	ug/L
|	Ni	60	9909.340	0.03	4.8770	0.072	1.471	ug/L
|	Cu	65	5396.177	0.02	2.5852	0.038	1.474	ug/L
|	Zn	66	4738.503	-0.00	0.9460	0.019	2.016	ug/L
|>	Ge	72	322334.973	322334.97				ug/L
|	As	75	2762.203	0.01	3.8168	0.514	13.470	ug/L
|	Se	77	7513.575	0.02	124.2297	4.442	3.575	ug/L
|	Se	82	9147.306	0.03	121.6968	0.728	0.598	ug/L
⌊	Rb	85	3515.653	0.01				mg/L
	Y	89	200950.030	-57297.57				ug/L
	Rh	103	126.002	118.34				ug/L
⌈	Mo	98	39085.076	0.15	23.1735	0.271	1.169	ug/L
|	Ag	107	39.334	0.00	-0.0075	0.002	21.530	ug/L
|	Cd	114	64.985	0.00	0.0548	0.013	24.481	ug/L
|>	In	115	262062.345	262062.34				ug/L
|	Sn	118	2260.390	0.00	0.3540	0.046	13.124	ug/L
⌊	Sb	123	11478.904	0.04	4.2261	0.045	1.065	ug/L
⌈	Ba	135	33660.904	0.09	24.3134	0.144	0.594	ug/L
|	Ce	140	4037.888	0.01				ug/L
⌊>	Tb	159	383214.275	383214.27				ug/L
⌈	Ho	165	73.341	0.00				ug/L
|	Tl	203	815.708	0.00	0.1603	0.006	3.442	ug/L
|	Tl	205	2007.069	0.01	0.1438	0.012	8.638	ug/L
|	Pb	206	1097.071	0.00	0.1406	0.001	0.707	ug/L
|	Pb	207	867.713	0.00	0.1374	0.004	3.027	ug/L
|	Pb	208	4129.374	0.01	0.1307	0.004	3.185	ug/L
|	U	238	133639.735	0.45	6.1099	0.027	0.447	ug/L
⌊>	Bi	209	294744.177	294744.18				ug/L

Sample ID: L1011067808
Report Date/Time: Monday, November 29, 2010 12:36:27
Page 1

Approved: November 30, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	76934146.911	288.89	19.3469	0.454	2.344	mg/L
|	K	39	190217169.963	712.72	19.5733	0.385	1.968	mg/L
|	Ca	43	1228616.412	4.61	58.3528	0.985	1.688	mg/L
|	Fe	54	214562.464	0.61	0.2316	0.006	2.626	mg/L
|	Fe	57	111223.683	0.39	0.3567	0.013	3.707	mg/L
⌊>	Sc-1	45	266299.622	266299.62				mg/L
	Cl	35	2175500.328	2144900.24				mg/L
	Kr	83	38.667	-5.67				mg/L
	Br	81	72511.400	62552.44				mg/L
	P	31	20816.980	5941.23				mg/L
	S	34	2390325.203	2173431.93				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		77.254			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		78.291			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		85.466			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		68.628			
⌈	Na	23					

Sample ID: L1011067808
Report Date/Time: Monday, November 29, 2010 12:36:27
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Se 82 Upper, S, EEE	Se	82	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067809

Sample Date/Time: Monday, November 29, 2010 12:41:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 94
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42590.545	0.03				ug/L
|	Be	9	4.667	0.00	0.0011	0.003	257.472	ug/L
|	Al	27	498825.059	1.75	71.5207	2.839	3.970	ug/L
⌊>	Sc	45	281234.069	281234.07				ug/L
⌈	Ti	49	1790.349	0.00	2.7890	0.980	35.125	ug/L
|	V	51	5383.929	0.01	0.3064	0.021	6.779	ug/L
|	Cr	52	10332.105	0.01	0.2619	0.004	1.506	ug/L
|	Cr	53	2120.437	0.01	1.9971	0.106	5.326	ug/L
|	Mn	55	4618856.754	13.06	372.0891	6.087	1.636	ug/L
|	Co	59	13129.078	0.04	1.2270	0.012	0.963	ug/L
|	Ni	60	10720.851	0.03	4.8092	0.080	1.671	ug/L
|	Cu	65	1504.128	0.00	0.5891	0.018	3.012	ug/L
|	Zn	66	4579.094	-0.01	0.4353	0.077	17.695	ug/L
|>	Ge	72	353614.800	353614.80				ug/L
|	As	75	278.385	0.00	0.5102	0.061	12.035	ug/L
|	Se	77	410.050	0.00	5.4117	0.942	17.408	ug/L
|	Se	82	289.063	0.00	3.3912	0.307	9.038	ug/L
⌊	Rb	85	6408.451	0.02				mg/L
	Y	89	222483.194	-35764.41				ug/L
	Rh	103	59.001	51.33				ug/L
⌈	Mo	98	8213.688	0.03	4.0925	0.050	1.224	ug/L
|	Ag	107	30.334	0.00	-0.0110	0.001	7.219	ug/L
|	Cd	114	47.023	0.00	0.0263	0.009	34.167	ug/L
|>	In	115	310214.091	310214.09				ug/L
|	Sn	118	1336.223	-0.00	-0.0331	0.005	16.084	ug/L
⌊	Sb	123	514.764	0.00	0.1836	0.001	0.773	ug/L
⌈	Ba	135	49846.757	0.11	31.1763	0.046	0.147	ug/L
|	Ce	140	2837.354	0.01				ug/L
⌊>	Tb	159	442672.847	442672.85				ug/L
⌈	Ho	165	50.005	0.00				ug/L
|	Tl	203	819.375	0.00	0.1342	0.001	0.965	ug/L
|	Tl	205	2013.739	0.01	0.1172	0.015	12.607	ug/L
|	Pb	206	5660.992	0.01	1.0102	0.022	2.180	ug/L
|	Pb	207	4841.220	0.01	0.9756	0.013	1.379	ug/L
|	Pb	208	22653.379	0.06	0.9850	0.011	1.102	ug/L
|	U	238	46329.217	0.13	1.7786	0.025	1.380	ug/L
⌊>	Bi	209	353697.570	353697.57				ug/L

Sample ID: L1011067809
Report Date/Time: Monday, November 29, 2010 12:43:16
Page 1

Approved: November 30, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	43615432.111	155.13	10.3881	0.250	2.411	mg/L
|	K	39	71495336.247	252.72	6.9352	0.156	2.252	mg/L
|	Ca	43	879054.590	3.13	39.5396	0.879	2.224	mg/L
|	Fe	54	198406.048	0.51	0.1936	0.007	3.404	mg/L
|	Fe	57	86074.116	0.28	0.2542	0.008	3.243	mg/L
⌊>	Sc-1	45	281234.069	281234.07				mg/L
	Cl	35	1383555.641	1352955.56				mg/L
	Kr	83	32.000	-12.33				mg/L
	Br	81	32401.745	22442.79				mg/L
	P	31	23613.914	8738.17				mg/L
	S	34	1173906.629	957013.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.751			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.676			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.727			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		82.354			
⌈	Na	23					

Sample ID: L1011067809
Report Date/Time: Monday, November 29, 2010 12:43:16
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067810

Sample Date/Time: Monday, November 29, 2010 12:47:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 95
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45134.990	0.04				ug/L
|	Be	9	5.333	0.00	0.0025	0.010	415.475	ug/L
|	Al	27	160341.256	0.54	21.9304	4.299	19.601	ug/L
⌊>	Sc	45	286587.144	286587.14				ug/L
⌈	Ti	49	783.442	0.00	0.9784	0.025	2.576	ug/L
|	V	51	3958.977	0.00	0.1442	0.015	10.388	ug/L
|	Cr	52	10368.476	0.01	0.2389	0.026	11.011	ug/L
|	Cr	53	896.797	0.00	0.6345	0.034	5.380	ug/L
|	Mn	55	1779681.556	4.93	140.3310	1.488	1.060	ug/L
|	Co	59	7688.032	0.02	0.6908	0.005	0.660	ug/L
|	Ni	60	7547.927	0.02	3.3015	0.117	3.558	ug/L
|	Cu	65	1379.109	0.00	0.5194	0.017	3.269	ug/L
|	Zn	66	3050.496	-0.01	-0.8785	0.009	0.970	ug/L
|>	Ge	72	361187.907	361187.91				ug/L
|	As	75	1180.185	0.00	1.5618	0.332	21.267	ug/L
|	Se	77	3040.768	0.01	44.3244	2.821	6.364	ug/L
|	Se	82	3830.101	0.01	45.3935	0.999	2.201	ug/L
⌊	Rb	85	6984.509	0.02				mg/L
	Y	89	223188.782	-35058.82				ug/L
	Rh	103	39.667	32.00				ug/L
⌈	Mo	98	13398.970	0.04	6.3838	0.037	0.577	ug/L
|	Ag	107	25.000	0.00	-0.0124	0.001	11.083	ug/L
|	Cd	114	63.495	0.00	0.0392	0.008	19.214	ug/L
|>	In	115	325161.076	325161.08				ug/L
|	Sn	118	1199.672	-0.00	-0.0886	0.003	3.568	ug/L
⌊	Sb	123	589.520	0.00	0.1984	0.012	6.026	ug/L
⌈	Ba	135	37713.358	0.08	22.5636	0.384	1.702	ug/L
|	Ce	140	1030.157	0.00				ug/L
⌊>	Tb	159	462719.597	462719.60				ug/L
⌈	Ho	165	46.671	0.00				ug/L
|	Tl	203	1137.409	0.00	0.1808	0.007	3.844	ug/L
|	Tl	205	2747.319	0.01	0.1611	0.000	0.171	ug/L
|	Pb	206	604.358	0.00	-0.0055	0.005	88.869	ug/L
|	Pb	207	511.685	0.00	0.0174	0.006	31.935	ug/L
|	Pb	208	2422.474	0.00	0.0050	0.003	51.224	ug/L
|	U	238	36237.239	0.10	1.3552	0.003	0.238	ug/L
⌊>	Bi	209	364316.623	364316.62				ug/L

Sample ID: L1011067810
Report Date/Time: Monday, November 29, 2010 12:50:02
Page 1

Approved: November 30, 2010

⌈	Na	23	425286503.700	1484.59	65.7237	1.737	2.643	mg/L
|	Mg	24	36035035.257	125.83	8.4257	0.218	2.591	mg/L
|	K	39	67875582.670	235.41	6.4595	0.126	1.958	mg/L
|	Ca	43	665110.731	2.32	29.3731	0.764	2.600	mg/L
|	Fe	54	121810.655	0.23	0.0870	0.007	8.050	mg/L
|	Fe	57	46016.929	0.13	0.1203	0.004	3.264	mg/L
⌊>	Sc-1	45	286587.144	286587.14				mg/L
	Cl	35	315250.136	284650.05				mg/L
	Kr	83	40.667	-3.67				mg/L
	Br	81	31956.338	21997.38				mg/L
	P	31	24855.970	9980.22				mg/L
	S	34	1009409.854	792516.58				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.566			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.141			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.198			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		84.827			
⌈	Na	23					

Sample ID: L1011067810
Report Date/Time: Monday, November 29, 2010 12:50:02

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067811

Sample Date/Time: Monday, November 29, 2010 12:54:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 96
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	65581.348	0.12				ug/L
|	Be	9	7.333	0.00	0.0071	0.009	125.553	ug/L
|	Al	27	419040.099	1.48	60.6730	2.488	4.100	ug/L
⌊>	Sc	45	277722.748	277722.75				ug/L
⌈	Ti	49	2233.808	0.01	3.6951	0.341	9.230	ug/L
|	V	51	5382.195	0.01	0.3246	0.010	2.935	ug/L
|	Cr	52	13322.335	0.02	0.6997	0.010	1.378	ug/L
|	Cr	53	2113.769	0.01	2.0645	0.172	8.348	ug/L
|	Mn	55	1692479.197	4.94	140.6861	0.875	0.622	ug/L
|	Co	59	8147.733	0.02	0.7753	0.008	0.993	ug/L
|	Ni	60	11492.717	0.03	5.3249	0.089	1.674	ug/L
|	Cu	65	2748.405	0.01	1.1914	0.023	1.914	ug/L
|	Zn	66	4312.973	-0.01	0.3301	0.091	27.641	ug/L
|>	Ge	72	342620.580	342620.58				ug/L
|	As	75	8352.827	0.02	10.5188	1.694	16.104	ug/L
|	Se	77	26835.310	0.08	419.3550	9.315	2.221	ug/L
|	Se	82	33518.196	0.10	419.8015	3.171	0.755	ug/L
⌊	Rb	85	7703.043	0.02				mg/L
	Y	89	212355.408	-45892.20				ug/L
	Rh	103	87.668	80.00				ug/L
⌈	Mo	98	79290.988	0.27	41.4397	0.317	0.766	ug/L
|	Ag	107	28.334	0.00	-0.0112	0.002	16.823	ug/L
|	Cd	114	118.793	0.00	0.0991	0.033	33.513	ug/L
|>	In	115	297468.243	297468.24				ug/L
|	Sn	118	1319.687	-0.00	-0.0216	0.005	25.430	ug/L
⌊	Sb	123	263662.151	0.89	85.0450	0.310	0.364	ug/L
⌈	Ba	135	73025.070	0.17	46.7256	0.261	0.559	ug/L
|	Ce	140	3711.061	0.01				ug/L
⌊>	Tb	159	432800.800	432800.80				ug/L
⌈	Ho	165	103.344	0.00				ug/L
|	Tl	203	915.384	0.00	0.1604	0.002	1.375	ug/L
|	Tl	205	2297.163	0.01	0.1470	0.019	12.940	ug/L
|	Pb	206	1312.099	0.00	0.1581	0.010	6.055	ug/L
|	Pb	207	1056.733	0.00	0.1572	0.008	4.895	ug/L
|	Pb	208	5005.873	0.01	0.1500	0.004	2.448	ug/L
|	U	238	93170.292	0.28	3.8057	0.012	0.309	ug/L
⌊>	Bi	209	330526.583	330526.58				ug/L

Sample ID: L1011067811
Report Date/Time: Monday, November 29, 2010 12:56:47
Page 1

Approved: November 30, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	63006401.435	227.03	15.2035	0.543	3.574	mg/L
|	K	39	108674255.896	389.95	10.7053	0.286	2.673	mg/L
|	Ca	43	1057411.163	3.81	48.1700	0.715	1.484	mg/L
|	Fe	54	233718.823	0.64	0.2455	0.011	4.340	mg/L
|	Fe	57	111590.300	0.37	0.3425	0.015	4.242	mg/L
⌊>	Sc-1	45	277722.748	277722.75				mg/L
	Cl	35	1153881.401	1123281.32				mg/L
	Kr	83	42.001	-2.33				mg/L
	Br	81	32643.196	22684.24				mg/L
	P	31	24788.897	9913.15				mg/L
	S	34	1873694.246	1656800.98				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.116			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.868			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.525			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		76.959			
⌈	Na	23					

Sample ID: L1011067811
Report Date/Time: Monday, November 29, 2010 12:56:47
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Se 82 Upper, S, EEE	Se	82	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 29, 2010 13:01:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42757.992	0.04				ug/L
|	Be	9	23633.899	0.09	53.9823	1.701	3.152	ug/L
|	Al	27	342845.560	1.21	49.5772	0.287	0.579	ug/L
⌊>	Sc	45	276881.585	276881.59				ug/L
⌈	Ti	49	64027.390	0.16	102.3339	0.694	0.678	ug/L
|	V	51	527539.505	1.35	51.2398	0.209	0.408	ug/L
|	Cr	52	453948.768	1.14	51.7352	0.370	0.716	ug/L
|	Cr	53	53853.327	0.14	53.2739	0.312	0.586	ug/L
|	Mn	55	723398.635	1.86	52.8670	0.412	0.780	ug/L
|	Co	59	602725.677	1.55	52.3360	0.489	0.935	ug/L
|	Ni	60	126888.575	0.33	52.0708	0.063	0.122	ug/L
|	Cu	65	122545.250	0.31	50.2084	0.359	0.714	ug/L
|	Zn	66	70098.537	0.16	49.1582	0.383	0.779	ug/L
|>	Ge	72	389488.464	389488.46				ug/L
|	As	75	44987.191	0.12	49.2159	0.220	0.446	ug/L
|	Se	77	3684.381	0.01	49.9240	1.099	2.202	ug/L
|	Se	82	4590.177	0.01	50.4710	0.579	1.147	ug/L
⌊	Rb	85	1841.188	0.00				mg/L
	Y	89	240276.115	-17971.49				ug/L
	Rh	103	21.000	13.33				ug/L
⌈	Mo	98	199771.890	0.58	90.9341	2.125	2.337	ug/L
|	Ag	107	242108.022	0.71	47.7528	0.577	1.209	ug/L
|	Cd	114	57618.568	0.17	49.4244	0.591	1.195	ug/L
|>	In	115	341670.752	341670.75				ug/L
|	Sn	118	188760.788	0.55	49.1687	0.345	0.701	ug/L
⌊	Sb	123	172912.242	0.51	48.5687	0.472	0.971	ug/L
⌈	Ba	135	79217.326	0.16	45.3853	0.335	0.738	ug/L
|	Ce	140	43.338	0.00				ug/L
⌊>	Tb	159	483370.194	483370.19				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	359038.045	0.85	49.2330	0.274	0.557	ug/L
|	Tl	205	890235.026	2.11	50.0145	0.292	0.584	ug/L
|	Pb	206	291635.384	0.69	48.7764	0.499	1.022	ug/L
|	Pb	207	273233.882	0.65	50.3917	0.301	0.597	ug/L
|	Pb	208	1221102.988	2.89	49.2655	0.149	0.303	ug/L
|	U	238	1685832.082	3.99	53.6455	0.601	1.120	ug/L
⌊>	Bi	209	422253.216	422253.22				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 13:03:33
Page 1

Approved: November 30, 2010

Na	23	31727854.232	114.54	5.0689	0.109	2.148	mg/L	
Mg	24	20426618.628	73.79	4.9396	0.082	1.660	mg/L	
K	39	50026563.372	179.11	4.9128	0.009	0.179	mg/L	
Ca	43	106457.640	0.38	4.8601	0.051	1.047	mg/L	
Fe	54	3733011.224	13.28	5.0550	0.021	0.423	mg/L	
Fe	57	1490050.304	5.35	4.9239	0.062	1.266	mg/L	
Sc-1	45	276881.585	276881.59				mg/L	
Cl	35	25688.957	-4911.13				mg/L	
Kr	83	31.000	-13.33				mg/L	
Br	81	10172.507	213.55				mg/L	
P	31	11776.267	-3099.48				mg/L	
S	34	224800.060	7906.79				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	102.480				
Cr	52	103.470				
Cr	53					
Mn	55	105.734				
Co	59	104.672				
Ni	60	104.142				
Cu	65	100.417				
Zn	66	98.316				
Ge	72		93.348			
As	75	98.432				
Se	77					
Se	82	100.942				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	95.506				
Cd	114	98.849				
In	115		102.073			
Sn	118					
Sb	123	97.137				
Ba	135	90.771				
Ce	140					
Tb	159		107.803			
Ho	165					
Tl	203	98.466				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.531				
U	238	107.291				
Bi	209		98.316			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 13:03:33

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 13:03:33

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 29, 2010 13:08:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42188.850	0.04				ug/L
|	Be	9	5.333	0.00	0.0029	0.007	237.096	ug/L
|	Al	27	6001.801	-0.00	-0.1785	0.044	24.512	ug/L
⌊>	Sc	45	269930.338	269930.34				ug/L
⌈	Ti	49	310.036	0.00	0.1230	0.059	48.296	ug/L
|	V	51	2578.971	-0.00	-0.0193	0.013	65.835	ug/L
|	Cr	52	8235.807	-0.00	-0.0977	0.022	22.065	ug/L
|	Cr	53	400.048	0.00	0.0732	0.032	44.156	ug/L
|	Mn	55	307.674	-0.00	-0.0205	0.001	3.742	ug/L
|	Co	59	170.670	-0.00	-0.0145	0.001	9.130	ug/L
|	Ni	60	29.334	0.00	-0.0285	0.002	6.226	ug/L
|	Cu	65	134.002	-0.00	-0.0356	0.004	10.024	ug/L
|	Zn	66	977.391	-0.02	-2.6055	0.033	1.282	ug/L
|>	Ge	72	387061.747	387061.75				ug/L
|	As	75	-126.342	0.00	0.0380	0.087	227.675	ug/L
|	Se	77	70.007	0.00	0.1645	0.773	469.989	ug/L
|	Se	82	13.754	0.00	0.0361	0.163	450.208	ug/L
⌊	Rb	85	15.333	-0.00				mg/L
	Y	89	237693.025	-20554.58				ug/L
	Rh	103	5.000	-2.67				ug/L
⌈	Mo	98	1684.946	0.00	0.7467	0.120	16.102	ug/L
|	Ag	107	39.334	0.00	-0.0098	0.002	16.189	ug/L
|	Cd	114	24.430	0.00	0.0031	0.006	202.059	ug/L
|>	In	115	340096.297	340096.30				ug/L
|	Sn	118	1389.830	-0.00	-0.0526	0.017	32.776	ug/L
⌊	Sb	123	235.045	0.00	0.0909	0.006	6.699	ug/L
⌈	Ba	135	13.667	0.00	-0.0147	0.003	18.185	ug/L
|	Ce	140	20.002	0.00				ug/L
⌊>	Tb	159	473373.240	473373.24				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	26.334	-0.00	0.0036	0.001	23.426	ug/L
|	Tl	205	76.675	0.00	-0.0136	0.002	14.393	ug/L
|	Pb	206	450.681	-0.00	-0.0488	0.007	14.204	ug/L
|	Pb	207	388.011	-0.00	-0.0219	0.001	4.237	ug/L
|	Pb	208	1852.421	-0.00	-0.0350	0.003	8.535	ug/L
|	U	238	7126.338	0.02	0.2420	0.045	18.733	ug/L
⌊>	Bi	209	430253.851	430253.85				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 13:10:16
Page 1

Approved: November 30, 2010

⌈	Na	23	51943.079	0.11	0.0031	0.000	10.772	mg/L
|	Mg	24	486.727	0.00	-0.0024	0.000	0.765	mg/L
|	K	39	439628.918	0.06	-0.0066	0.001	19.881	mg/L
|	Ca	43	206.689	-0.00	0.0061	0.001	12.901	mg/L
|	Fe	54	52136.232	-0.01	-0.0014	0.001	66.321	mg/L
|	Fe	57	8140.794	0.00	0.0002	0.001	259.601	mg/L
⌊>	Sc-1	45	269930.338	269930.34				mg/L
	Cl	35	26785.160	-3814.93				mg/L
	Kr	83	28.334	-16.00				mg/L
	Br	81	9954.953	-4.00				mg/L
	P	31	12322.946	-2552.80				mg/L
	S	34	226366.861	9473.59				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.767			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.603			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.574			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.179			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 13:10:16

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 13:10:16

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077401

Sample Date/Time: Monday, November 29, 2010 13:14:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 97
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	49103.857	0.04				ug/L
|	Be	9	3.333	-0.00	-0.0025	0.002	99.382	ug/L
|	Al	27	53880.627	0.15	6.1985	1.116	18.009	ug/L
⌊>	Sc	45	302251.202	302251.20				ug/L
⌈	Ti	49	713.430	0.00	0.8414	0.051	6.115	ug/L
|	V	51	3218.534	0.00	0.0619	0.010	16.543	ug/L
|	Cr	52	10720.851	0.01	0.2659	0.009	3.409	ug/L
|	Cr	53	823.450	0.00	0.5451	0.110	20.224	ug/L
|	Mn	55	19133.813	0.05	1.4469	0.007	0.495	ug/L
|	Co	59	1055.066	0.00	0.0682	0.003	3.726	ug/L
|	Ni	60	4328.314	0.01	1.8518	0.046	2.475	ug/L
|	Cu	65	1419.448	0.00	0.5294	0.032	5.983	ug/L
|	Zn	66	2957.467	-0.01	-0.9840	0.039	3.972	ug/L
|>	Ge	72	365816.623	365816.62				ug/L
|	As	75	1393.242	0.00	1.7936	0.123	6.850	ug/L
|	Se	77	4848.337	0.01	70.2741	8.363	11.901	ug/L
|	Se	82	5967.228	0.02	69.9045	1.075	1.538	ug/L
⌊	Rb	85	2033.227	0.01				mg/L
	Y	89	232048.013	-26199.59				ug/L
	Rh	103	62.001	54.33				ug/L
⌈	Mo	98	16522.851	0.05	7.7022	0.065	0.844	ug/L
|	Ag	107	31.667	0.00	-0.0112	0.001	6.608	ug/L
|	Cd	114	45.332	0.00	0.0218	0.013	61.883	ug/L
|>	In	115	332596.945	332596.95				ug/L
|	Sn	118	1611.063	0.00	0.0151	0.018	118.690	ug/L
⌊	Sb	123	18473.774	0.06	5.3524	0.052	0.963	ug/L
⌈	Ba	135	33987.669	0.07	19.9075	0.257	1.289	ug/L
|	Ce	140	266.697	0.00				ug/L
⌊>	Tb	159	472513.057	472513.06				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	289.674	0.00	0.0448	0.002	5.087	ug/L
|	Tl	205	810.114	0.00	0.0334	0.005	15.013	ug/L
|	Pb	206	513.352	-0.00	-0.0260	0.001	4.494	ug/L
|	Pb	207	435.347	-0.00	-0.0017	0.007	395.611	ug/L
|	Pb	208	2030.101	-0.00	-0.0161	0.002	10.573	ug/L
|	U	238	21985.363	0.06	0.8067	0.011	1.314	ug/L
⌊>	Bi	209	375018.945	375018.95				ug/L

Sample ID: L1011077401
Report Date/Time: Monday, November 29, 2010 13:17:02
Page 1

Approved: November 30, 2010

⌈	Na	23	274043629.917	906.81	40.1442	0.706	1.760	mg/L
|	Mg	24	33994319.581	112.51	7.5334	0.193	2.557	mg/L
|	K	39	60123770.719	197.38	5.4146	0.096	1.782	mg/L
|	Ca	43	628557.758	2.08	26.3052	0.330	1.253	mg/L
|	Fe	54	105157.792	0.15	0.0575	0.003	5.891	mg/L
|	Fe	57	36272.663	0.09	0.0829	0.005	5.656	mg/L
⌊>	Sc-1	45	302251.202	302251.20				mg/L
	Cl	35	230288.804	199688.72				mg/L
	Kr	83	34.334	-10.00				mg/L
	Br	81	23501.590	13542.63				mg/L
	P	31	26032.623	11156.88				mg/L
	S	34	884542.887	667649.62				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.675			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.363			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.382			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		87.319			
⌈	Na	23					

Sample ID: L1011077401
Report Date/Time: Monday, November 29, 2010 13:17:02
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077402

Sample Date/Time: Monday, November 29, 2010 13:21:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 98
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	46625.210	0.04				ug/L
|	Be	9	6.667	0.00	0.0052	0.005	96.196	ug/L
|	Al	27	260038.463	0.88	35.8545	0.336	0.936	ug/L
⌊>	Sc	45	287988.492	287988.49				ug/L
⌈	Ti	49	1120.175	0.00	1.5999	0.172	10.781	ug/L
|	V	51	3247.022	0.00	0.0760	0.029	37.886	ug/L
|	Cr	52	10100.199	0.01	0.2300	0.001	0.381	ug/L
|	Cr	53	1943.717	0.00	1.7994	0.018	0.995	ug/L
|	Mn	55	3521784.156	9.94	283.2111	1.853	0.654	ug/L
|	Co	59	4538.409	0.01	0.4041	0.008	1.868	ug/L
|	Ni	60	9827.259	0.03	4.3970	0.034	0.783	ug/L
|	Cu	65	939.387	0.00	0.3331	0.010	3.082	ug/L
|	Zn	66	4368.331	-0.01	0.2551	0.019	7.301	ug/L
|>	Ge	72	354217.498	354217.50				ug/L
|	As	75	1326.922	0.00	1.7672	0.090	5.095	ug/L
|	Se	77	113.345	0.00	0.9055	0.182	20.131	ug/L
|	Se	82	50.404	0.00	0.4934	0.056	11.268	ug/L
⌊	Rb	85	2937.127	0.01				mg/L
	Y	89	225261.571	-32986.03				ug/L
	Rh	103	63.668	56.00				ug/L
⌈	Mo	98	2399.910	0.01	1.1502	0.059	5.152	ug/L
|	Ag	107	27.334	0.00	-0.0118	0.000	4.222	ug/L
|	Cd	114	46.155	0.00	0.0246	0.004	14.657	ug/L
|>	In	115	317435.877	317435.88				ug/L
|	Sn	118	1450.505	0.00	-0.0096	0.010	109.033	ug/L
⌊	Sb	123	226.499	0.00	0.0929	0.006	6.583	ug/L
⌈	Ba	135	34477.344	0.08	20.8871	0.304	1.454	ug/L
|	Ce	140	1947.053	0.00				ug/L
⌊>	Tb	159	456901.844	456901.84				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	141.669	0.00	0.0230	0.000	1.540	ug/L
|	Tl	205	320.037	0.00	0.0034	0.002	63.745	ug/L
|	Pb	206	1039.398	0.00	0.0828	0.007	8.886	ug/L
|	Pb	207	876.047	0.00	0.0988	0.003	2.556	ug/L
|	Pb	208	4136.714	0.01	0.0889	0.002	2.101	ug/L
|	U	238	157832.079	0.44	5.9468	0.018	0.308	ug/L
⌊>	Bi	209	357670.805	357670.81				ug/L

Approved: November 30, 2010

⌈	Na	23	320062978.810	1111.47	49.2049	0.874	1.776	mg/L
|	Mg	24	69480252.187	241.29	16.1590	0.311	1.922	mg/L
|	K	39	37643195.870	129.15	3.5401	0.070	1.968	mg/L
|	Ca	43	1520415.393	5.28	66.7758	1.789	2.680	mg/L
|	Fe	54	515358.630	1.59	0.6061	0.020	3.258	mg/L
|	Fe	57	254626.549	0.86	0.7860	0.001	0.163	mg/L
⌊>	Sc-1	45	287988.492	287988.49				mg/L
	Cl	35	1478064.366	1447464.28				mg/L
	Kr	83	30.334	-14.00				mg/L
	Br	81	29774.943	19815.98				mg/L
	P	31	24104.492	9228.75				mg/L
	S	34	991576.738	774683.47				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.895			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.833			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.900			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		83.279			
⌈	Na	23					

Sample ID: L1011077402
Report Date/Time: Monday, November 29, 2010 13:23:49
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077403

Sample Date/Time: Monday, November 29, 2010 13:28:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 99
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	47261.469	0.05				ug/L
|	Be	9	6.667	0.00	0.0053	0.003	53.685	ug/L
|	Al	27	348606.551	1.19	48.7645	1.572	3.223	ug/L
⌊>	Sc	45	286222.884	286222.88				ug/L
⌈	Ti	49	1053.494	0.00	1.5234	0.024	1.574	ug/L
|	V	51	3387.569	0.00	0.0993	0.028	28.076	ug/L
|	Cr	52	11650.232	0.01	0.4621	0.008	1.683	ug/L
|	Cr	53	3020.760	0.01	3.0534	0.224	7.331	ug/L
|	Mn	55	2810116.214	8.11	231.1038	4.014	1.737	ug/L
|	Co	59	6171.966	0.02	0.5736	0.015	2.679	ug/L
|	Ni	60	9472.583	0.03	4.3344	0.166	3.830	ug/L
|	Cu	65	1312.099	0.00	0.5147	0.025	4.776	ug/L
|	Zn	66	3605.019	-0.01	-0.3059	0.041	13.451	ug/L
|>	Ge	72	346348.866	346348.87				ug/L
|	As	75	175.329	0.00	0.3911	0.076	19.473	ug/L
|	Se	77	436.720	0.00	5.9530	0.748	12.557	ug/L
|	Se	82	324.401	0.00	3.9033	0.134	3.423	ug/L
⌊	Rb	85	5975.179	0.02				mg/L
	Y	89	221894.012	-36353.59				ug/L
	Rh	103	75.334	67.67				ug/L
⌈	Mo	98	2947.213	0.01	1.4433	0.035	2.453	ug/L
|	Ag	107	34.000	0.00	-0.0102	0.001	11.783	ug/L
|	Cd	114	71.842	0.00	0.0494	0.004	7.914	ug/L
|>	In	115	311976.955	311976.96				ug/L
|	Sn	118	1356.625	-0.00	-0.0295	0.018	60.255	ug/L
⌊	Sb	123	236.376	0.00	0.0972	0.003	2.977	ug/L
⌈	Ba	135	43780.076	0.10	26.8512	0.101	0.376	ug/L
|	Ce	140	2954.068	0.01				ug/L
⌊>	Tb	159	451377.696	451377.70				ug/L
⌈	Ho	165	46.671	0.00				ug/L
|	Tl	203	1509.462	0.00	0.2498	0.004	1.605	ug/L
|	Tl	205	3641.030	0.01	0.2290	0.019	8.487	ug/L
|	Pb	206	966.056	0.00	0.0725	0.002	3.181	ug/L
|	Pb	207	829.709	0.00	0.0927	0.002	1.644	ug/L
|	Pb	208	3905.676	0.01	0.0820	0.003	3.936	ug/L
|	U	238	23329.414	0.07	0.9147	0.003	0.286	ug/L
⌊>	Bi	209	349944.541	349944.54				ug/L

Approved: November 30, 2010

⌈	Na	23	447073386.644	1562.49	69.1724	1.877	2.714	mg/L
|	Mg	24	58619140.758	204.84	13.7177	0.221	1.613	mg/L
|	K	39	126853071.406	441.75	12.1286	0.244	2.009	mg/L
|	Ca	43	1272371.627	4.45	56.2422	1.352	2.404	mg/L
|	Fe	54	171488.586	0.40	0.1532	0.007	4.577	mg/L
|	Fe	57	95261.472	0.31	0.2789	0.017	6.092	mg/L
⌊>	Sc-1	45	286222.884	286222.88				mg/L
	Cl	35	2340835.166	2310235.08				mg/L
	Kr	83	31.667	-12.67				mg/L
	Br	81	27795.242	17836.28				mg/L
	P	31	24860.198	9984.45				mg/L
	S	34	848430.338	631537.07				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		83.009			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.202			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.668			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		81.480			
⌈	Na	23					

Sample ID: L1011077403
Report Date/Time: Monday, November 29, 2010 13:30:36

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077404

Sample Date/Time: Monday, November 29, 2010 13:35:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 100
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44046.829	0.04				ug/L
|	Be	9	6.000	0.00	0.0043	0.005	106.338	ug/L
|	Al	27	328421.143	1.17	47.7218	3.774	7.909	ug/L
⌊>	Sc	45	275459.650	275459.65				ug/L
⌈	Ti	49	1183.522	0.00	1.8392	0.123	6.667	ug/L
|	V	51	3556.733	0.00	0.1327	0.040	30.361	ug/L
|	Cr	52	11929.565	0.01	0.5580	0.020	3.655	ug/L
|	Cr	53	4408.079	0.01	4.7939	0.119	2.492	ug/L
|	Mn	55	132674.666	0.40	11.2850	0.068	0.606	ug/L
|	Co	59	3268.900	0.01	0.3021	0.003	0.842	ug/L
|	Ni	60	9313.765	0.03	4.4245	0.146	3.292	ug/L
|	Cu	65	1519.131	0.00	0.6369	0.012	1.957	ug/L
|	Zn	66	3955.489	-0.01	0.1159	0.062	53.427	ug/L
|>	Ge	72	333656.275	333656.28				ug/L
|	As	75	76.509	0.00	0.2737	0.175	63.973	ug/L
|	Se	77	380.045	0.00	5.2981	0.896	16.905	ug/L
|	Se	82	206.356	0.00	2.5375	0.163	6.421	ug/L
⌊	Rb	85	6874.431	0.02				mg/L
	Y	89	214650.548	-43597.06				ug/L
	Rh	103	99.001	91.33				ug/L
⌈	Mo	98	3896.323	0.01	2.0276	0.023	1.133	ug/L
|	Ag	107	36.000	0.00	-0.0094	0.001	9.968	ug/L
|	Cd	114	66.906	0.00	0.0485	0.015	30.376	ug/L
|>	In	115	295087.855	295087.85				ug/L
|	Sn	118	1522.116	0.00	0.0432	0.016	36.229	ug/L
⌊	Sb	123	190.125	0.00	0.0863	0.003	3.005	ug/L
⌈	Ba	135	93492.958	0.22	60.6474	1.002	1.652	ug/L
|	Ce	140	7350.102	0.02				ug/L
⌊>	Tb	159	427006.511	427006.51				ug/L
⌈	Ho	165	66.674	0.00				ug/L
|	Tl	203	820.042	0.00	0.1427	0.003	2.246	ug/L
|	Tl	205	2117.102	0.01	0.1331	0.001	1.001	ug/L
|	Pb	206	1762.506	0.00	0.2520	0.005	2.001	ug/L
|	Pb	207	1449.120	0.00	0.2475	0.012	4.886	ug/L
|	Pb	208	6963.701	0.02	0.2487	0.006	2.606	ug/L
|	U	238	28408.579	0.09	1.1659	0.013	1.116	ug/L
⌊>	Bi	209	332790.607	332790.61				ug/L

Approved: November 30, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	74942085.900	272.13	18.2243	0.427	2.344	mg/L
|	K	39	118726636.573	429.53	11.7929	0.237	2.006	mg/L
|	Ca	43	1566184.988	5.69	71.9270	1.571	2.185	mg/L
|	Fe	54	243388.487	0.68	0.2613	0.004	1.645	mg/L
|	Fe	57	142086.889	0.49	0.4471	0.012	2.583	mg/L
⌊>	Sc-1	45	275459.650	275459.65				mg/L
	Cl	35	4149702.759	4119102.67				mg/L
	Kr	83	36.334	-8.00				mg/L
	Br	81	26662.170	16703.21				mg/L
	P	31	23364.664	8488.92				mg/L
	S	34	680805.106	463911.84				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		79.967			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.157			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.233			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		77.486			
⌈	Na	23					

Sample ID: L1011077404
Report Date/Time: Monday, November 29, 2010 13:37:23
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077405

Sample Date/Time: Monday, November 29, 2010 13:41:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 101
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44917.529	0.04				ug/L
|	Be	9	7.333	0.00	0.0072	0.011	160.735	ug/L
|	Al	27	994461.111	3.53	144.4239	8.035	5.564	ug/L
⌊>	Sc	45	279742.463	279742.46				ug/L
⌈	Ti	49	1740.326	0.01	2.8770	0.135	4.701	ug/L
|	V	51	8416.770	0.02	0.6853	0.042	6.159	ug/L
|	Cr	52	11077.913	0.01	0.4404	0.034	7.681	ug/L
|	Cr	53	4548.158	0.01	4.9512	0.344	6.948	ug/L
|	Mn	55	367934.089	1.10	31.3306	0.301	0.962	ug/L
|	Co	59	4497.390	0.01	0.4261	0.004	0.922	ug/L
|	Ni	60	10703.504	0.03	5.0836	0.163	3.204	ug/L
|	Cu	65	1759.172	0.00	0.7509	0.033	4.364	ug/L
|	Zn	66	5352.486	-0.00	1.3314	0.061	4.544	ug/L
|>	Ge	72	334087.176	334087.18				ug/L
|	As	75	342.048	0.00	0.6117	0.197	32.123	ug/L
|	Se	77	413.383	0.00	5.8307	1.064	18.240	ug/L
|	Se	82	283.396	0.00	3.5258	0.413	11.717	ug/L
⌊	Rb	85	8849.670	0.03				mg/L
	Y	89	217072.694	-41174.91				ug/L
	Rh	103	103.002	95.33				ug/L
⌈	Mo	98	3937.673	0.01	2.0142	0.049	2.426	ug/L
|	Ag	107	47.667	0.00	-0.0069	0.001	10.366	ug/L
|	Cd	114	65.291	0.00	0.0456	0.017	36.189	ug/L
|>	In	115	300169.517	300169.52				ug/L
|	Sn	118	1567.056	0.00	0.0488	0.017	34.157	ug/L
⌊	Sb	123	344.422	0.00	0.1345	0.004	3.303	ug/L
⌈	Ba	135	78139.216	0.18	50.1898	0.381	0.759	ug/L
|	Ce	140	10232.924	0.02				ug/L
⌊>	Tb	159	431172.745	431172.75				ug/L
⌈	Ho	165	106.678	0.00				ug/L
|	Tl	203	1626.815	0.00	0.2805	0.005	1.831	ug/L
|	Tl	205	3831.118	0.01	0.2529	0.012	4.698	ug/L
|	Pb	206	2224.936	0.01	0.3461	0.006	1.772	ug/L
|	Pb	207	1902.867	0.00	0.3498	0.006	1.676	ug/L
|	Pb	208	8818.617	0.02	0.3398	0.002	0.444	ug/L
|	U	238	27564.548	0.08	1.1218	0.008	0.670	ug/L
⌊>	Bi	209	335807.878	335807.88				ug/L

Sample ID: L1011077405
Report Date/Time: Monday, November 29, 2010 13:44:11
Page 1

Approved: November 30, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	74227557.387	265.37	17.7713	0.214	1.207	mg/L
|	K	39	106532181.465	379.30	10.4127	0.200	1.918	mg/L
|	Ca	43	1589421.083	5.68	71.8734	1.482	2.063	mg/L
|	Fe	54	380840.678	1.16	0.4432	0.014	3.212	mg/L
|	Fe	57	197796.700	0.68	0.6231	0.013	2.062	mg/L
⌊>	Sc-1	45	279742.463	279742.46				mg/L
	Cl	35	4164601.116	4134001.03				mg/L
	Kr	83	32.000	-12.33				mg/L
	Br	81	27992.466	18033.51				mg/L
	P	31	23479.614	8603.87				mg/L
	S	34	584315.100	367421.83				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		80.070			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.675			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.162			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		78.189			
⌈	Na	23					

Sample ID: L1011077405
Report Date/Time: Monday, November 29, 2010 13:44:11

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011077405
Report Date/Time: Monday, November 29, 2010 13:44:11
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: PBW 83 WG349188-02

Sample Date/Time: Monday, November 29, 2010 13:48:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	46156.361	0.05				ug/L
|	Be	9	3.333	0.00	-0.0017	0.005	302.550	ug/L
|	Al	27	6201.938	-0.00	-0.1558	0.108	69.473	ug/L
⌊>	Sc	45	271999.893	271999.89				ug/L
⌈	Ti	49	83.342	0.00	-0.2386	0.019	7.823	ug/L
|	V	51	2449.786	-0.00	-0.0247	0.008	33.236	ug/L
|	Cr	52	8285.849	-0.00	-0.0626	0.024	38.513	ug/L
|	Cr	53	483.394	0.00	0.1710	0.116	67.847	ug/L
|	Mn	55	377.344	-0.00	-0.0145	0.002	13.278	ug/L
|	Co	59	192.670	-0.00	-0.0121	0.001	6.993	ug/L
|	Ni	60	40.000	0.00	-0.0236	0.003	11.119	ug/L
|	Cu	65	124.335	-0.00	-0.0381	0.005	14.097	ug/L
|	Zn	66	999.060	-0.02	-2.5664	0.014	0.551	ug/L
|>	Ge	72	375673.183	375673.18				ug/L
|	As	75	-166.180	0.00	-0.0115	0.055	474.827	ug/L
|	Se	77	33.337	-0.00	-0.3352	0.085	25.263	ug/L
|	Se	82	6.751	0.00	-0.0398	0.180	453.705	ug/L
⌊	Rb	85	14.333	-0.00				mg/L
	Y	89	232965.952	-25281.65				ug/L
	Rh	103	4.333	-3.33				ug/L
⌈	Mo	98	71.047	0.00	0.0057	0.007	125.105	ug/L
|	Ag	107	15.667	-0.00	-0.0145	0.000	1.890	ug/L
|	Cd	114	16.451	-0.00	-0.0041	0.002	47.599	ug/L
|>	In	115	344436.569	344436.57				ug/L
|	Sn	118	889.373	-0.00	-0.1880	0.006	3.170	ug/L
⌊	Sb	123	25.536	-0.00	0.0316	0.002	6.729	ug/L
⌈	Ba	135	11.667	-0.00	-0.0158	0.002	12.156	ug/L
|	Ce	140	23.336	0.00				ug/L
⌊>	Tb	159	471632.582	471632.58				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	17.334	-0.00	0.0024	0.000	16.274	ug/L
|	Tl	205	40.004	-0.00	-0.0156	0.000	0.107	ug/L
|	Pb	206	476.683	-0.00	-0.0430	0.000	0.854	ug/L
|	Pb	207	396.012	-0.00	-0.0190	0.006	32.963	ug/L
|	Pb	208	1864.754	-0.00	-0.0331	0.002	5.413	ug/L
|	U	238	93.335	0.00	0.0221	0.000	0.881	ug/L
⌊>	Bi	209	421892.239	421892.24				ug/L

Sample ID: PBW 83 WG349188-02
Report Date/Time: Monday, November 29, 2010 13:50:54
Page 1

Approved: November 30, 2010

⌈	Na	23	53944.035	0.12	0.0033	0.000	14.899	mg/L
|	Mg	24	1807.019	0.01	-0.0021	0.000	6.409	mg/L
|	K	39	406108.746	-0.08	-0.0103	0.000	2.428	mg/L
|	Ca	43	153.350	-0.00	0.0035	0.003	87.768	mg/L
|	Fe	54	52158.239	-0.01	-0.0019	0.001	54.825	mg/L
|	Fe	57	7620.333	0.00	-0.0018	0.001	58.175	mg/L
⌊>	Sc-1	45	271999.893	271999.89				mg/L
	Cl	35	28953.196	-1646.89				mg/L
	Kr	83	28.667	-15.67				mg/L
	Br	81	10009.676	50.72				mg/L
	P	31	14370.340	-505.41				mg/L
	S	34	229608.218	12714.95				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.037			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.900			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.186			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.232			
⌈	Na	23					

Sample ID: PBW 83 WG349188-02
Report Date/Time: Monday, November 29, 2010 13:50:54
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 83 WG349188-02
Report Date/Time: Monday, November 29, 2010 13:50:54
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: LCSW 83 WG349188-03

Sample Date/Time: Monday, November 29, 2010 13:55:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44984.301	0.04				ug/L
|	Be	9	4.000	0.00	-0.0005	0.005	902.584	ug/L
|	Al	27	7119.204	-0.00	-0.0584	0.036	61.880	ug/L
⌊>	Sc	45	282536.987	282536.99				ug/L
⌈	Ti	49	50.005	0.00	-0.2962	0.055	18.624	ug/L
|	V	51	2493.108	-0.00	-0.0260	0.009	36.465	ug/L
|	Cr	52	8237.809	-0.00	-0.0905	0.013	13.936	ug/L
|	Cr	53	413.383	0.00	0.0896	0.069	77.493	ug/L
|	Mn	55	726.034	0.00	0.0107	0.001	11.890	ug/L
|	Co	59	187.004	-0.00	-0.0129	0.002	13.536	ug/L
|	Ni	60	62.001	0.00	-0.0148	0.003	20.339	ug/L
|	Cu	65	181.670	0.00	-0.0154	0.005	33.014	ug/L
|	Zn	66	2000.887	-0.01	-1.8226	0.037	2.048	ug/L
|>	Ge	72	384175.896	384175.90				ug/L
|	As	75	-195.502	0.00	-0.0398	0.028	71.215	ug/L
|	Se	77	46.671	-0.00	-0.1601	0.287	179.407	ug/L
|	Se	82	3.394	0.00	-0.0786	0.097	123.207	ug/L
⌊	Rb	85	16.667	-0.00				mg/L
	Y	89	243967.682	-14279.92				ug/L
	Rh	103	4.333	-3.33				ug/L
⌈	Mo	98	63.676	0.00	0.0018	0.001	43.927	ug/L
|	Ag	107	24.000	0.00	-0.0130	0.002	13.457	ug/L
|	Cd	114	14.200	-0.00	-0.0062	0.001	11.479	ug/L
|>	In	115	350842.593	350842.59				ug/L
|	Sn	118	929.243	-0.00	-0.1820	0.006	3.443	ug/L
⌊	Sb	123	30.038	-0.00	0.0327	0.002	6.619	ug/L
⌈	Ba	135	19.000	0.00	-0.0116	0.002	18.265	ug/L
|	Ce	140	16.668	0.00				ug/L
⌊>	Tb	159	476385.726	476385.73				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	13.333	-0.00	0.0018	0.000	15.222	ug/L
|	Tl	205	40.004	-0.00	-0.0157	0.001	3.409	ug/L
|	Pb	206	455.348	-0.00	-0.0485	0.004	7.776	ug/L
|	Pb	207	402.012	-0.00	-0.0199	0.002	10.827	ug/L
|	Pb	208	1903.426	-0.00	-0.0335	0.001	3.744	ug/L
|	U	238	69.668	0.00	0.0213	0.000	1.421	ug/L
⌊>	Bi	209	433350.690	433350.69				ug/L

Sample ID: LCSW 83 WG349188-03
Report Date/Time: Monday, November 29, 2010 13:57:38
Page 1

Approved: November 30, 2010

⌈	Na	23	66198.405	0.15	0.0049	0.000	7.631	mg/L
|	Mg	24	1593.620	0.00	-0.0021	0.000	1.213	mg/L
|	K	39	420306.248	-0.08	-0.0104	0.001	10.409	mg/L
|	Ca	43	223.358	-0.00	0.0064	0.003	43.014	mg/L
|	Fe	54	54482.327	-0.01	-0.0015	0.004	277.020	mg/L
|	Fe	57	8310.952	0.00	-0.0005	0.001	280.786	mg/L
⌊>	Sc-1	45	282536.987	282536.99				mg/L
	Cl	35	28466.464	-2133.62				mg/L
	Kr	83	31.334	-13.00				mg/L
	Br	81	10018.358	59.40				mg/L
	P	31	15210.259	334.51				mg/L
	S	34	241363.534	24470.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.075			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.813			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.246			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.900			
⌈	Na	23					

Sample ID: LCSW 83 WG349188-03
Report Date/Time: Monday, November 29, 2010 13:57:38
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: LCSW 83 WG349188-03

Sample Date/Time: Monday, November 29, 2010 14:03:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42825.023	0.03				ug/L
|	Be	9	11194.930	0.04	25.4278	0.939	3.694	ug/L
|	Al	27	169271.236	0.58	23.8077	1.349	5.667	ug/L
⌊>	Sc	45	278476.336	278476.34				ug/L
⌈	Ti	49	83.342	0.00	-0.2397	0.065	27.294	ug/L
|	V	51	260405.372	0.68	25.9868	0.712	2.738	ug/L
|	Cr	52	229645.962	0.59	26.5201	0.581	2.192	ug/L
|	Cr	53	26815.260	0.07	27.2297	0.526	1.931	ug/L
|	Mn	55	362413.837	0.96	27.3265	0.466	1.704	ug/L
|	Co	59	293484.461	0.78	26.2995	0.297	1.130	ug/L
|	Ni	60	62471.494	0.17	26.4523	0.458	1.733	ug/L
|	Cu	65	60564.138	0.16	25.5765	0.216	0.845	ug/L
|	Zn	66	34548.257	0.07	23.3753	0.361	1.545	ug/L
|>	Ge	72	377238.591	377238.59				ug/L
|	As	75	21429.120	0.06	24.2933	0.176	0.726	ug/L
|	Se	77	1800.342	0.00	24.7957	1.575	6.350	ug/L
|	Se	82	2206.633	0.01	24.9942	0.651	2.604	ug/L
⌊	Rb	85	15.667	-0.00				mg/L
	Y	89	234702.229	-23545.37				ug/L
	Rh	103	11.000	3.33				ug/L
⌈	Mo	98	61.046	0.00	0.0014	0.002	112.844	ug/L
|	Ag	107	120980.957	0.35	23.9006	0.409	1.711	ug/L
|	Cd	114	28398.531	0.08	24.3976	0.319	1.306	ug/L
|>	In	115	341048.233	341048.23				ug/L
|	Sn	118	971.381	-0.00	-0.1642	0.006	3.403	ug/L
⌊	Sb	123	84467.391	0.25	23.7874	0.594	2.498	ug/L
⌈	Ba	135	38285.878	0.08	22.6837	0.326	1.438	ug/L
|	Ce	140	23.336	0.00				ug/L
⌊>	Tb	159	467163.258	467163.26				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	179434.685	0.42	24.4886	0.077	0.315	ug/L
|	Tl	205	443455.978	1.05	24.7873	0.516	2.082	ug/L
|	Pb	206	151050.503	0.35	25.0840	0.245	0.975	ug/L
|	Pb	207	132247.372	0.31	24.2282	0.122	0.505	ug/L
|	Pb	208	613309.283	1.44	24.5736	0.189	0.770	ug/L
|	U	238	830076.884	1.96	26.3018	0.550	2.092	ug/L
⌊>	Bi	209	424242.421	424242.42				ug/L

Sample ID: LCSW 83 WG349188-03
Report Date/Time: Monday, November 29, 2010 14:05:36
Page 1

Approved: November 30, 2010

⌈	Na	23	43371.517	0.08	0.0015	0.000	15.825	mg/L
|	Mg	24	1180.188	0.00	-0.0022	0.000	1.713	mg/L
|	K	39	431600.588	-0.02	-0.0087	0.001	14.779	mg/L
|	Ca	43	183.353	-0.00	0.0047	0.000	1.767	mg/L
|	Fe	54	54372.045	-0.00	-0.0006	0.001	142.883	mg/L
|	Fe	57	7843.862	0.00	-0.0016	0.001	88.774	mg/L
⌊>	Sc-1	45	278476.336	278476.34				mg/L
	Cl	35	26491.712	-4108.37				mg/L
	Kr	83	35.334	-9.00				mg/L
	Br	81	9473.152	-485.81				mg/L
	P	31	14606.742	-269.00				mg/L
	S	34	232962.371	16069.10				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.412			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.887			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.189			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.780			
⌈	Na	23					

Sample ID: LCSW 83 WG349188-03
Report Date/Time: Monday, November 29, 2010 14:05:36

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 29, 2010 14:10:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41770.540	0.03				ug/L
|	Be	9	23255.683	0.09	54.2105	1.815	3.349	ug/L
|	Al	27	340484.821	1.23	50.2912	2.276	4.526	ug/L
⌊>	Sc	45	271315.842	271315.84				ug/L
⌈	Ti	49	65137.954	0.17	106.5928	1.174	1.101	ug/L
|	V	51	531825.410	1.39	52.8851	0.305	0.577	ug/L
|	Cr	52	455955.800	1.18	53.2213	0.109	0.205	ug/L
|	Cr	53	53752.791	0.14	54.4422	1.040	1.910	ug/L
|	Mn	55	733065.598	1.93	54.8418	0.346	0.630	ug/L
|	Co	59	598261.625	1.57	53.1764	0.172	0.323	ug/L
|	Ni	60	125737.163	0.33	52.8185	0.131	0.248	ug/L
|	Cu	65	120613.555	0.32	50.5888	0.468	0.925	ug/L
|	Zn	66	68726.042	0.16	49.3472	0.329	0.668	ug/L
|>	Ge	72	380498.513	380498.51				ug/L
|	As	75	44438.025	0.12	49.7649	0.541	1.088	ug/L
|	Se	77	3717.730	0.01	51.6018	2.673	5.179	ug/L
|	Se	82	4610.126	0.01	51.8894	0.189	0.363	ug/L
⌊	Rb	85	1857.858	0.00				mg/L
	Y	89	235747.247	-22500.36				ug/L
	Rh	103	18.000	10.33				ug/L
⌈	Mo	98	198260.544	0.59	92.4666	2.106	2.277	ug/L
|	Ag	107	237767.194	0.71	48.0519	0.302	0.628	ug/L
|	Cd	114	56927.354	0.17	50.0370	0.636	1.271	ug/L
|>	In	115	333458.561	333458.56				ug/L
|	Sn	118	186418.690	0.55	49.7604	0.703	1.413	ug/L
⌊	Sb	123	169116.190	0.51	48.6734	0.704	1.447	ug/L
⌈	Ba	135	77631.303	0.17	46.6240	0.539	1.157	ug/L
|	Ce	140	56.673	0.00				ug/L
⌊>	Tb	159	461116.947	461116.95				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	356783.294	0.85	49.4587	0.344	0.696	ug/L
|	Tl	205	887638.254	2.12	50.4145	0.232	0.461	ug/L
|	Pb	206	291429.611	0.70	49.2745	0.114	0.231	ug/L
|	Pb	207	273428.388	0.65	50.9788	0.715	1.403	ug/L
|	Pb	208	1222837.757	2.92	49.8757	0.325	0.652	ug/L
|	U	238	1699866.524	4.07	54.6865	0.878	1.605	ug/L
⌊>	Bi	209	417673.751	417673.75				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 14:12:22
Page 1

Approved: November 30, 2010

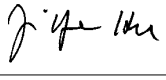
Na	23	31528603.308	116.17	5.1410	0.141	2.740	mg/L
Mg	24	20233390.100	74.59	4.9938	0.102	2.052	mg/L
K	39	49840852.883	182.13	4.9958	0.019	0.382	mg/L
Ca	43	107091.443	0.39	4.9891	0.134	2.681	mg/L
Fe	54	3720315.786	13.51	5.1427	0.033	0.634	mg/L
Fe	57	1494783.286	5.48	5.0437	0.134	2.664	mg/L
Sc-1	45	271315.842	271315.84				mg/L
Cl	35	23873.129	-6726.96				mg/L
Kr	83	38.334	-6.00				mg/L
Br	81	9032.745	-926.21				mg/L
P	31	14176.746	-699.00				mg/L
S	34	222864.171	5970.90				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	105.770				
Cr	52	106.443				
Cr	53					
Mn	55	109.684				
Co	59	106.353				
Ni	60	105.637				
Cu	65	101.178				
Zn	66	98.694				
Ge	72		91.194			
As	75	99.530				
Se	77					
Se	82	103.779				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	96.104				
Cd	114	100.074				
In	115		99.620			
Sn	118					
Sb	123	97.347				
Ba	135	93.248				
Ce	140					
Tb	159		102.840			
Ho	165					
Tl	203	98.917				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.751				
U	238	109.373				
Bi	209		97.250			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 14:12:22

Approved: November 30, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 14:12:22

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 29, 2010 14:16:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44499.060	0.04				ug/L
|	Be	9	2.667	-0.00	-0.0034	0.005	152.440	ug/L
|	Al	27	6568.823	-0.00	-0.1294	0.009	7.187	ug/L
⌊>	Sc	45	280068.156	280068.16				ug/L
⌈	Ti	49	226.692	0.00	-0.0036	0.047	1291.576	ug/L
|	V	51	2550.436	-0.00	-0.0170	0.013	75.167	ug/L
|	Cr	52	8119.376	-0.00	-0.0915	0.015	16.904	ug/L
|	Cr	53	450.055	0.00	0.1320	0.031	23.747	ug/L
|	Mn	55	315.008	-0.00	-0.0195	0.001	3.203	ug/L
|	Co	59	186.670	-0.00	-0.0128	0.001	9.061	ug/L
|	Ni	60	31.000	0.00	-0.0276	0.003	9.618	ug/L
|	Cu	65	120.002	-0.00	-0.0403	0.001	3.255	ug/L
|	Zn	66	775.371	-0.02	-2.7457	0.021	0.777	ug/L
|>	Ge	72	379174.102	379174.10				ug/L
|	As	75	-144.431	0.00	0.0145	0.010	72.016	ug/L
|	Se	77	86.676	0.00	0.4176	0.510	122.058	ug/L
|	Se	82	7.707	0.00	-0.0306	0.060	194.924	ug/L
⌊	Rb	85	9.000	-0.00				mg/L
	Y	89	239893.938	-18353.66				ug/L
	Rh	103	3.667	-4.00				ug/L
⌈	Mo	98	1407.905	0.00	0.6183	0.115	18.599	ug/L
|	Ag	107	34.000	0.00	-0.0108	0.000	2.463	ug/L
|	Cd	114	20.798	-0.00	-0.0001	0.002	1360.219	ug/L
|>	In	115	340019.116	340019.12				ug/L
|	Sn	118	1394.364	-0.00	-0.0516	0.012	22.530	ug/L
⌊	Sb	123	247.169	0.00	0.0943	0.007	6.936	ug/L
⌈	Ba	135	9.333	-0.00	-0.0172	0.001	8.374	ug/L
|	Ce	140	26.669	0.00				ug/L
⌊>	Tb	159	469971.809	469971.81				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	20.667	-0.00	0.0028	0.001	19.983	ug/L
|	Tl	205	63.340	-0.00	-0.0144	0.001	4.393	ug/L
|	Pb	206	426.013	-0.00	-0.0527	0.006	10.684	ug/L
|	Pb	207	394.345	-0.00	-0.0206	0.002	11.273	ug/L
|	Pb	208	1753.411	-0.00	-0.0388	0.001	2.684	ug/L
|	U	238	7071.952	0.02	0.2408	0.040	16.438	ug/L
⌊>	Bi	209	429066.205	429066.21				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 14:19:05
Page 1

Approved: November 30, 2010

⌈	Na	23	29987.953	0.03	-0.0007	0.000	28.639	mg/L
|	Mg	24	356.709	0.00	-0.0024	0.000	0.292	mg/L
|	K	39	439132.422	-0.00	-0.0082	0.001	9.929	mg/L
|	Ca	43	106.678	-0.00	0.0012	0.002	150.925	mg/L
|	Fe	54	53205.215	-0.01	-0.0026	0.000	10.137	mg/L
|	Fe	57	8080.752	0.00	-0.0010	0.002	195.830	mg/L
⌊>	Sc-1	45	280068.156	280068.16				mg/L
	Cl	35	25545.922	-5054.16				mg/L
	Kr	83	33.667	-10.67				mg/L
	Br	81	9650.655	-308.30				mg/L
	P	31	13543.902	-1331.84				mg/L
	S	34	237572.756	20679.49				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.876			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.580			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.815			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.903			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 14:19:05
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 14:19:05

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011060812

Sample Date/Time: Monday, November 29, 2010 14:25:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45922.341	0.04				ug/L
|	Be	9	3.333	0.00	-0.0023	0.002	101.331	ug/L
|	Al	27	65983.644	0.20	8.0604	0.263	3.265	ug/L
⌊>	Sc	45	295230.049	295230.05				ug/L
⌈	Ti	49	266.697	0.00	0.0728	0.101	138.265	ug/L
|	V	51	6833.566	0.01	0.4285	0.014	3.361	ug/L
|	Cr	52	32504.401	0.06	2.9118	0.020	0.697	ug/L
|	Cr	53	3120.799	0.01	2.9372	0.061	2.069	ug/L
|	Mn	55	13819.014	0.04	1.0192	0.010	0.952	ug/L
|	Co	59	2810.090	0.01	0.2272	0.002	0.917	ug/L
|	Ni	60	12003.654	0.03	5.1414	0.123	2.383	ug/L
|	Cu	65	1003.729	0.00	0.3427	0.097	28.329	ug/L
|	Zn	66	15309.865	0.02	8.7108	0.263	3.014	ug/L
|>	Ge	72	370581.763	370581.76				ug/L
|	As	75	313.597	0.00	0.5355	0.035	6.591	ug/L
|	Se	77	66.674	0.00	0.1544	0.586	379.712	ug/L
|	Se	82	31.444	0.00	0.2469	0.058	23.422	ug/L
⌊	Rb	85	6055.894	0.02				mg/L
	Y	89	238218.590	-20029.01				ug/L
	Rh	103	11.000	3.33				ug/L
⌈	Mo	98	1536.554	0.00	0.6761	0.032	4.700	ug/L
|	Ag	107	39.667	0.00	-0.0097	0.003	27.279	ug/L
|	Cd	114	29.418	0.00	0.0072	0.010	137.920	ug/L
|>	In	115	340377.550	340377.55				ug/L
|	Sn	118	1494.112	-0.00	-0.0257	0.014	54.999	ug/L
⌊	Sb	123	488.765	0.00	0.1622	0.003	1.688	ug/L
⌈	Ba	135	3631.362	0.01	2.1172	0.024	1.151	ug/L
|	Ce	140	260.029	0.00				ug/L
⌊>	Tb	159	470196.853	470196.85				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	56.001	0.00	0.0082	0.001	9.733	ug/L
|	Tl	205	150.016	0.00	-0.0089	0.002	23.434	ug/L
|	Pb	206	555.688	-0.00	-0.0242	0.007	29.417	ug/L
|	Pb	207	443.348	-0.00	-0.0054	0.011	211.543	ug/L
|	Pb	208	2131.444	-0.00	-0.0172	0.007	42.050	ug/L
|	U	238	5630.975	0.01	0.2090	0.007	3.379	ug/L
⌊>	Bi	209	398616.275	398616.28				ug/L

Sample ID: L1011060812
Report Date/Time: Monday, November 29, 2010 14:28:05
Page 1

Approved: November 30, 2010

Na	23	54517337.370	184.67	8.1736	0.218	2.662	mg/L	
Mg	24	18397024.018	62.35	4.1737	0.143	3.416	mg/L	
K	39	7079862.174	22.42	0.6079	0.022	3.558	mg/L	
Ca	43	209921.583	0.71	8.9962	0.351	3.906	mg/L	
Fe	54	103582.812	0.15	0.0586	0.002	4.220	mg/L	
Fe	57	19531.007	0.04	0.0333	0.001	3.086	mg/L	
Sc-1	45	295230.049	295230.05				mg/L	
Cl	35	161546.431	130946.35				mg/L	
Kr	83	25.667	-18.67				mg/L	
Br	81	12935.695	2976.74				mg/L	
P	31	64947.655	50071.91				mg/L	
S	34	265864.515	48971.25				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		88.817			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		101.687			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		104.865			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		92.813			
Na	23					

Sample ID: L1011060812
Report Date/Time: Monday, November 29, 2010 14:28:05
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011060812
Report Date/Time: Monday, November 29, 2010 14:28:05
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011060814

Sample Date/Time: Monday, November 29, 2010 14:32:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 22
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44515.646	0.04				ug/L
|	Be	9	2.667	-0.00	-0.0035	0.007	197.531	ug/L
|	Al	27	10271.955	0.01	0.3928	0.041	10.347	ug/L
⌊>	Sc	45	283414.036	283414.04				ug/L
⌈	Ti	49	106.678	0.00	-0.1995	0.055	27.767	ug/L
|	V	51	2779.015	0.00	0.0101	0.009	90.080	ug/L
|	Cr	52	10473.588	0.01	0.2082	0.014	6.772	ug/L
|	Cr	53	510.064	0.00	0.2011	0.016	8.114	ug/L
|	Mn	55	1174.081	0.00	0.0464	0.002	3.555	ug/L
|	Co	59	187.337	-0.00	-0.0124	0.000	2.919	ug/L
|	Ni	60	147.003	0.00	0.0225	0.011	49.961	ug/L
|	Cu	65	464.349	0.00	0.1078	0.005	5.086	ug/L
|	Zn	66	2548.684	-0.01	-1.3516	0.062	4.572	ug/L
|>	Ge	72	373642.695	373642.70				ug/L
|	As	75	-202.965	-0.00	-0.0545	0.003	5.094	ug/L
|	Se	77	60.006	-0.00	0.0465	0.232	499.522	ug/L
|	Se	82	2.038	0.00	-0.0931	0.066	71.367	ug/L
⌊	Rb	85	28.000	0.00				mg/L
	Y	89	235020.751	-23226.85				ug/L
	Rh	103	4.333	-3.33				ug/L
⌈	Mo	98	388.797	0.00	0.1511	0.007	4.594	ug/L
|	Ag	107	29.667	0.00	-0.0117	0.001	11.080	ug/L
|	Cd	114	28.487	0.00	0.0064	0.012	185.721	ug/L
|>	In	115	340602.163	340602.16				ug/L
|	Sn	118	1297.418	-0.00	-0.0779	0.008	10.911	ug/L
⌊	Sb	123	78.915	0.00	0.0467	0.003	5.811	ug/L
⌈	Ba	135	50.667	0.00	0.0071	0.002	26.053	ug/L
|	Ce	140	86.676	0.00				ug/L
⌊>	Tb	159	471429.033	471429.03				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	12.333	-0.00	0.0018	0.000	24.260	ug/L
|	Tl	205	10.001	-0.00	-0.0173	0.001	3.293	ug/L
|	Pb	206	462.349	-0.00	-0.0433	0.003	5.943	ug/L
|	Pb	207	392.345	-0.00	-0.0178	0.002	11.708	ug/L
|	Pb	208	1874.423	-0.00	-0.0307	0.001	2.262	ug/L
|	U	238	532.686	0.00	0.0366	0.002	5.506	ug/L
⌊>	Bi	209	411089.199	411089.20				ug/L

Sample ID: L1011060814
Report Date/Time: Monday, November 29, 2010 14:34:52
Page 1

Approved: November 30, 2010

⌈	Na	23	85811.878	0.22	0.0080	0.000	5.234	mg/L
|	Mg	24	13493.823	0.05	0.0007	0.000	23.450	mg/L
|	K	39	439432.353	-0.02	-0.0087	0.002	18.036	mg/L
|	Ca	43	406.716	0.00	0.0145	0.004	26.471	mg/L
|	Fe	54	98870.306	0.15	0.0580	0.006	9.686	mg/L
|	Fe	57	9392.018	0.01	0.0030	0.001	18.399	mg/L
⌊>	Sc-1	45	283414.036	283414.04				mg/L
	Cl	35	31575.775	975.69				mg/L
	Kr	83	34.000	-10.33				mg/L
	Br	81	10355.361	396.40				mg/L
	P	31	25544.132	10668.39				mg/L
	S	34	229056.214	12162.94				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.551			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.754			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.140			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.717			
⌈	Na	23					

Sample ID: L1011060814
Report Date/Time: Monday, November 29, 2010 14:34:52
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011060814
Report Date/Time: Monday, November 29, 2010 14:34:52
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011060802 WG349188-01

Sample Date/Time: Monday, November 29, 2010 14:39:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	47294.988	0.05				ug/L
|	Be	9	4.000	0.00	-0.0006	0.008	1315.252	ug/L
|	Al	27	46123.422	0.13	5.5068	0.576	10.461	ug/L
⌊>	Sc	45	285999.265	285999.26				ug/L
⌈	Ti	49	203.356	0.00	-0.0244	0.027	111.876	ug/L
|	V	51	11802.459	0.03	0.9732	0.013	1.332	ug/L
|	Cr	52	15828.343	0.02	0.9285	0.033	3.546	ug/L
|	Cr	53	926.802	0.00	0.6694	0.043	6.498	ug/L
|	Mn	55	899449.768	2.50	71.0797	0.936	1.317	ug/L
|	Co	59	2983.475	0.01	0.2508	0.009	3.613	ug/L
|	Ni	60	9626.066	0.03	4.2327	0.172	4.069	ug/L
|	Cu	65	716.366	0.00	0.2269	0.006	2.710	ug/L
|	Zn	66	2461.661	-0.01	-1.3493	0.062	4.620	ug/L
|>	Ge	72	360287.770	360287.77				ug/L
|	As	75	663.119	0.00	0.9576	0.029	3.066	ug/L
|	Se	77	90.009	0.00	0.5294	0.397	74.983	ug/L
|	Se	82	10.061	0.00	0.0026	0.018	706.963	ug/L
⌊	Rb	85	9014.485	0.02				mg/L
	Y	89	227576.605	-30671.00				ug/L
	Rh	103	10.333	2.67				ug/L
⌈	Mo	98	1734.323	0.01	0.7852	0.029	3.668	ug/L
|	Ag	107	28.000	0.00	-0.0119	0.001	7.985	ug/L
|	Cd	114	136.829	0.00	0.1026	0.018	17.112	ug/L
|>	In	115	332481.153	332481.15				ug/L
|	Sn	118	1182.870	-0.00	-0.1004	0.004	3.626	ug/L
⌊	Sb	123	3417.448	0.01	1.0104	0.008	0.762	ug/L
⌈	Ba	135	4680.475	0.01	2.7619	0.054	1.947	ug/L
|	Ce	140	130.014	0.00				ug/L
⌊>	Tb	159	465760.121	465760.12				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	61.334	0.00	0.0092	0.001	15.085	ug/L
|	Tl	205	103.344	0.00	-0.0116	0.003	26.579	ug/L
|	Pb	206	497.684	-0.00	-0.0322	0.008	23.705	ug/L
|	Pb	207	446.348	-0.00	-0.0026	0.007	260.371	ug/L
|	Pb	208	2026.101	-0.00	-0.0195	0.005	28.169	ug/L
|	U	238	1115.407	0.00	0.0577	0.001	1.565	ug/L
⌊>	Bi	209	388371.510	388371.51				ug/L

Approved: November 30, 2010

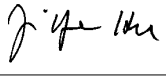
⌈	Na	23	42285615.007	147.78	6.5407	0.135	2.063	mg/L
|	Mg	24	18745947.475	65.55	4.3879	0.037	0.835	mg/L
|	K	39	8347516.366	27.62	0.7506	0.019	2.468	mg/L
|	Ca	43	268117.109	0.94	11.8542	0.092	0.780	mg/L
|	Fe	54	96376.188	0.14	0.0533	0.003	5.041	mg/L
|	Fe	57	20392.832	0.04	0.0381	0.002	5.825	mg/L
⌊>	Sc-1	45	285999.265	285999.26				mg/L
	Cl	35	77390.372	46790.29				mg/L
	Kr	83	31.334	-13.00				mg/L
	Br	81	10533.546	574.59				mg/L
	P	31	172731.973	157856.23				mg/L
	S	34	260745.144	43851.87				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.350			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.328			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.876			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		90.428			
⌈	Na	23					

Sample ID: L1011060802 WG349188-01
Report Date/Time: Monday, November 29, 2010 14:41:35
Page 2

Approved: November 30, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011060802 WG349188-01
Report Date/Time: Monday, November 29, 2010 14:41:35
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011060804S WG349188-04

Sample Date/Time: Monday, November 29, 2010 14:46:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	46223.259	0.05				ug/L
|	Be	9	10818.516	0.04	24.5867	0.751	3.055	ug/L
|	Al	27	260184.651	0.91	37.1535	1.994	5.366	ug/L
⌊>	Sc	45	278270.721	278270.72				ug/L
⌈	Ti	49	233.359	0.00	0.0293	0.040	136.436	ug/L
|	V	51	261714.795	0.72	27.4705	0.124	0.451	ug/L
|	Cr	52	232094.933	0.62	28.2430	0.312	1.103	ug/L
|	Cr	53	26758.443	0.07	28.5855	0.830	2.903	ug/L
|	Mn	55	1052001.069	2.93	83.4883	0.836	1.001	ug/L
|	Co	59	288504.193	0.80	27.1822	0.253	0.932	ug/L
|	Ni	60	67025.886	0.19	29.8427	0.373	1.251	ug/L
|	Cu	65	57695.535	0.16	25.6179	0.072	0.279	ug/L
|	Zn	66	31295.540	0.07	22.1023	0.132	0.597	ug/L
|>	Ge	72	358783.776	358783.78				ug/L
|	As	75	20666.325	0.06	24.6330	0.430	1.746	ug/L
|	Se	77	1426.911	0.00	20.5241	1.325	6.457	ug/L
|	Se	82	1908.576	0.01	22.7175	0.517	2.276	ug/L
⌊	Rb	85	9403.514	0.03				mg/L
	Y	89	225544.844	-32702.76				ug/L
	Rh	103	18.000	10.33				ug/L
⌈	Mo	98	1707.058	0.01	0.7744	0.020	2.601	ug/L
|	Ag	107	111553.537	0.34	22.6619	0.089	0.391	ug/L
|	Cd	114	26537.234	0.08	23.4443	0.658	2.807	ug/L
|>	In	115	331591.077	331591.08				ug/L
|	Sn	118	1118.063	-0.00	-0.1171	0.006	4.997	ug/L
⌊	Sb	123	82447.181	0.25	23.8747	0.138	0.579	ug/L
⌈	Ba	135	42785.428	0.09	25.5128	0.236	0.927	ug/L
|	Ce	140	366.710	0.00				ug/L
⌊>	Tb	159	464256.581	464256.58				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	170723.014	0.44	25.4986	0.091	0.355	ug/L
|	Tl	205	424390.118	1.09	25.9622	0.294	1.131	ug/L
|	Pb	206	143937.951	0.37	26.1635	0.090	0.344	ug/L
|	Pb	207	126988.489	0.33	25.4651	0.244	0.958	ug/L
|	Pb	208	585977.379	1.51	25.6986	0.190	0.738	ug/L
|	U	238	827013.565	2.13	28.6754	0.199	0.695	ug/L
⌊>	Bi	209	387665.303	387665.30				ug/L

Sample ID: L1011060804S WG349188-04
Report Date/Time: Monday, November 29, 2010 14:48:19
Page 1

Approved: November 30, 2010

⌈	Na	23	42486135.045	152.66	6.7567	0.167	2.479	mg/L
|	Mg	24	18736216.542	67.34	4.5082	0.062	1.370	mg/L
|	K	39	8311670.039	28.31	0.7696	0.019	2.454	mg/L
|	Ca	43	265203.761	0.95	12.0570	0.325	2.699	mg/L
|	Fe	54	101773.418	0.17	0.0643	0.002	3.669	mg/L
|	Fe	57	21799.251	0.05	0.0446	0.002	4.703	mg/L
⌊>	Sc-1	45	278270.721	278270.72				mg/L
	Cl	35	68211.199	37611.11				mg/L
	Kr	83	34.334	-10.00				mg/L
	Br	81	10410.084	451.13				mg/L
	P	31	170372.365	155496.62				mg/L
	S	34	248068.959	31175.69				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.989			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.062			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.541			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		90.263			
⌈	Na	23					

Sample ID: L1011060804S WG349188-04
Report Date/Time: Monday, November 29, 2010 14:48:19
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011060804S WG349188-04
Report Date/Time: Monday, November 29, 2010 14:48:19
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011060806SD WG349188-05

Sample Date/Time: Monday, November 29, 2010 14:52:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45469.956	0.05				ug/L
|	Be	9	10695.051	0.04	24.4549	0.980	4.007	ug/L
|	Al	27	189699.917	0.66	26.9883	1.130	4.186	ug/L
⌊>	Sc	45	276609.041	276609.04				ug/L
⌈	Ti	49	230.026	0.00	0.0240	0.093	390.097	ug/L
|	V	51	262568.015	0.73	27.5809	0.343	1.244	ug/L
|	Cr	52	231975.094	0.62	28.2489	0.334	1.183	ug/L
|	Cr	53	26434.211	0.07	28.2547	0.556	1.967	ug/L
|	Mn	55	1196078.125	3.34	95.0007	0.862	0.908	ug/L
|	Co	59	286929.814	0.80	27.0532	0.261	0.966	ug/L
|	Ni	60	66867.176	0.19	29.7929	0.293	0.982	ug/L
|	Cu	65	57263.737	0.16	25.4442	0.158	0.620	ug/L
|	Zn	66	30817.055	0.07	21.7319	0.134	0.615	ug/L
|>	Ge	72	358512.293	358512.29				ug/L
|	As	75	20520.318	0.06	24.4778	0.040	0.163	ug/L
|	Se	77	1546.941	0.00	22.3339	1.367	6.122	ug/L
|	Se	82	1920.564	0.01	22.8776	0.167	0.729	ug/L
⌊	Rb	85	9146.940	0.03				mg/L
	Y	89	224975.408	-33272.20				ug/L
	Rh	103	18.000	10.33				ug/L
⌈	Mo	98	1615.932	0.00	0.7457	0.026	3.519	ug/L
|	Ag	107	111512.457	0.34	23.0718	0.326	1.413	ug/L
|	Cd	114	26376.524	0.08	23.7338	0.391	1.647	ug/L
|>	In	115	325595.768	325595.77				ug/L
|	Sn	118	1146.066	-0.00	-0.1038	0.004	3.789	ug/L
⌊	Sb	123	82822.074	0.25	24.4249	0.318	1.303	ug/L
⌈	Ba	135	42403.474	0.09	25.6867	0.266	1.034	ug/L
|	Ce	140	180.020	0.00				ug/L
⌊>	Tb	159	456984.846	456984.85				ug/L
⌈	Ho	165	46.671	0.00				ug/L
|	Tl	203	171324.598	0.45	25.7856	0.458	1.776	ug/L
|	Tl	205	419909.846	1.09	25.8854	0.446	1.722	ug/L
|	Pb	206	143585.678	0.37	26.3020	0.544	2.070	ug/L
|	Pb	207	126031.548	0.33	25.4668	0.435	1.710	ug/L
|	Pb	208	583548.210	1.51	25.7903	0.584	2.263	ug/L
|	U	238	827016.021	2.15	28.8981	0.686	2.375	ug/L
⌊>	Bi	209	384735.588	384735.59				ug/L

Sample ID: L1011060806SD WG349188-05
Report Date/Time: Monday, November 29, 2010 14:55:04
Page 1

Approved: November 30, 2010

⌈	Na	23	42557205.439	153.86	6.8099	0.239	3.508	mg/L
|	Mg	24	19032314.933	68.85	4.6088	0.172	3.733	mg/L
|	K	39	8888813.412	30.58	0.8320	0.028	3.362	mg/L
|	Ca	43	268582.213	0.97	12.2850	0.345	2.812	mg/L
|	Fe	54	94867.551	0.14	0.0557	0.006	9.913	mg/L
|	Fe	57	19868.381	0.04	0.0386	0.004	9.349	mg/L
⌊>	Sc-1	45	276609.041	276609.04				mg/L
	Cl	35	65340.107	34740.02				mg/L
	Kr	83	36.000	-8.33				mg/L
	Br	81	10858.561	899.60				mg/L
	P	31	174837.159	159961.41				mg/L
	S	34	254174.808	37281.54				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.924			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.271			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.919			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.581			
⌈	Na	23					

Sample ID: L1011060806SD WG349188-05
Report Date/Time: Monday, November 29, 2010 14:55:04
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011060806SD WG349188-05
Report Date/Time: Monday, November 29, 2010 14:55:04
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011060808

Sample Date/Time: Monday, November 29, 2010 14:59:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 17
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	47680.154	0.05				ug/L
|	Be	9	6.667	0.00	0.0053	0.014	263.786	ug/L
|	Al	27	69071.308	0.22	8.8894	0.291	3.277	ug/L
⌊>	Sc	45	283188.098	283188.10				ug/L
⌈	Ti	49	310.037	0.00	0.1628	0.334	205.135	ug/L
|	V	51	11195.066	0.02	0.9135	0.011	1.193	ug/L
|	Cr	52	14197.881	0.02	0.7302	0.001	0.150	ug/L
|	Cr	53	860.123	0.00	0.6009	0.109	18.109	ug/L
|	Mn	55	860681.733	2.40	68.2675	0.603	0.884	ug/L
|	Co	59	3338.257	0.01	0.2853	0.004	1.301	ug/L
|	Ni	60	10307.748	0.03	4.5528	0.095	2.079	ug/L
|	Cu	65	799.040	0.00	0.2650	0.016	5.912	ug/L
|	Zn	66	2779.747	-0.01	-1.0831	0.015	1.383	ug/L
|>	Ge	72	358933.340	358933.34				ug/L
|	As	75	655.060	0.00	0.9509	0.076	8.011	ug/L
|	Se	77	40.004	-0.00	-0.2140	0.147	68.780	ug/L
|	Se	82	2.412	0.00	-0.0886	0.057	64.019	ug/L
⌊	Rb	85	9157.616	0.03				mg/L
	Y	89	226386.586	-31861.02				ug/L
	Rh	103	8.333	0.67				ug/L
⌈	Mo	98	1698.020	0.01	0.7679	0.016	2.069	ug/L
|	Ag	107	52.334	0.00	-0.0070	0.001	14.266	ug/L
|	Cd	114	132.645	0.00	0.0989	0.015	15.560	ug/L
|>	In	115	332561.060	332561.06				ug/L
|	Sn	118	1026.453	-0.00	-0.1427	0.008	5.824	ug/L
⌊	Sb	123	3556.498	0.01	1.0503	0.006	0.531	ug/L
⌈	Ba	135	5657.657	0.01	3.4079	0.035	1.013	ug/L
|	Ce	140	190.021	0.00				ug/L
⌊>	Tb	159	456940.998	456941.00				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	68.001	0.00	0.0102	0.002	21.953	ug/L
|	Tl	205	200.022	0.00	-0.0056	0.002	31.208	ug/L
|	Pb	206	529.686	-0.00	-0.0258	0.006	22.177	ug/L
|	Pb	207	460.349	-0.00	0.0008	0.003	324.514	ug/L
|	Pb	208	2090.106	-0.00	-0.0161	0.001	5.005	ug/L
|	U	238	1936.876	0.00	0.0866	0.009	10.696	ug/L
⌊>	Bi	209	386127.413	386127.41				ug/L

Sample ID: L1011060808
Report Date/Time: Monday, November 29, 2010 15:01:49
Page 1

Approved: November 30, 2010

⌈	Na	23	42238657.782	149.13	6.6002	0.196	2.969	mg/L
|	Mg	24	18569400.546	65.59	4.3908	0.110	2.501	mg/L
|	K	39	8267969.039	27.64	0.7511	0.030	4.042	mg/L
|	Ca	43	263188.155	0.93	11.7549	0.294	2.498	mg/L
|	Fe	54	97381.546	0.15	0.0560	0.005	9.116	mg/L
|	Fe	57	20142.287	0.04	0.0379	0.002	4.049	mg/L
⌊>	Sc-1	45	283188.098	283188.10				mg/L
	Cl	35	75311.194	44711.11				mg/L
	Kr	83	29.334	-15.00				mg/L
	Br	81	10620.973	662.02				mg/L
	P	31	173710.450	158834.70				mg/L
	S	34	247809.331	30916.06				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.025			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.352			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.909			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.905			
⌈	Na	23					

Sample ID: L1011060808
Report Date/Time: Monday, November 29, 2010 15:01:49
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011060808
Report Date/Time: Monday, November 29, 2010 15:01:49
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011060810

Sample Date/Time: Monday, November 29, 2010 15:06:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	46139.710	0.04				ug/L
|	Be	9	6.000	0.00	0.0033	0.013	380.561	ug/L
|	Al	27	40248.032	0.11	4.4753	0.520	11.621	ug/L
⌊>	Sc	45	295828.839	295828.84				ug/L
⌈	Ti	49	120.013	0.00	-0.1737	0.028	15.840	ug/L
|	V	51	2748.755	0.00	0.0110	0.010	94.676	ug/L
|	Cr	52	12014.668	0.01	0.4157	0.009	2.188	ug/L
|	Cr	53	733.434	0.00	0.4434	0.091	20.447	ug/L
|	Mn	55	12284.998	0.03	0.9069	0.006	0.712	ug/L
|	Co	59	2389.643	0.01	0.1901	0.001	0.301	ug/L
|	Ni	60	1642.485	0.00	0.6726	0.027	3.970	ug/L
|	Cu	65	785.039	0.00	0.2496	0.016	6.407	ug/L
|	Zn	66	2506.006	-0.01	-1.3580	0.034	2.468	ug/L
|>	Ge	72	368378.020	368378.02				ug/L
|	As	75	-162.249	0.00	-0.0108	0.014	125.616	ug/L
|	Se	77	113.345	0.00	0.8394	0.095	11.327	ug/L
|	Se	82	8.800	0.00	-0.0152	0.072	473.148	ug/L
⌊	Rb	85	167.336	0.00				mg/L
	Y	89	234985.632	-23261.97				ug/L
	Rh	103	7.000	-0.67				ug/L
⌈	Mo	98	128.860	0.00	0.0318	0.003	10.177	ug/L
|	Ag	107	48.001	0.00	-0.0082	0.003	35.063	ug/L
|	Cd	114	32.012	0.00	0.0091	0.004	43.747	ug/L
|>	In	115	344445.034	344445.03				ug/L
|	Sn	118	1205.139	-0.00	-0.1057	0.006	5.481	ug/L
⌊	Sb	123	124.874	0.00	0.0592	0.002	4.137	ug/L
⌈	Ba	135	638.027	0.00	0.3474	0.012	3.483	ug/L
|	Ce	140	206.689	0.00				ug/L
⌊>	Tb	159	477651.629	477651.63				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	17.000	-0.00	0.0025	0.001	51.485	ug/L
|	Tl	205	53.339	-0.00	-0.0148	0.002	15.667	ug/L
|	Pb	206	508.685	-0.00	-0.0338	0.002	4.913	ug/L
|	Pb	207	438.014	-0.00	-0.0076	0.002	27.513	ug/L
|	Pb	208	2064.106	-0.00	-0.0213	0.001	4.290	ug/L
|	U	238	359.343	0.00	0.0311	0.001	3.698	ug/L
⌊>	Bi	209	403753.572	403753.57				ug/L

Sample ID: L1011060810
Report Date/Time: Monday, November 29, 2010 15:08:34
Page 1

Approved: November 30, 2010

⌈	Na	23	1119709.552	3.70	0.1621	0.003	1.611	mg/L
|	Mg	24	619349.209	2.09	0.1377	0.003	1.939	mg/L
|	K	39	1380426.455	3.10	0.0769	0.002	3.061	mg/L
|	Ca	43	9358.652	0.03	0.3965	0.014	3.631	mg/L
|	Fe	54	114811.828	0.19	0.0728	0.003	3.718	mg/L
|	Fe	57	10239.615	0.01	0.0043	0.002	51.852	mg/L
⌊>	Sc-1	45	295828.839	295828.84				mg/L
	Cl	35	81802.556	51202.47				mg/L
	Kr	83	23.000	-21.33				mg/L
	Br	81	10701.056	742.10				mg/L
	P	31	32052.586	17176.84				mg/L
	S	34	233228.418	16335.15				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.289			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.902			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.528			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.009			
⌈	Na	23					

Sample ID: L1011060810
Report Date/Time: Monday, November 29, 2010 15:08:34
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011060810
Report Date/Time: Monday, November 29, 2010 15:08:34
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011060808PS WG349857-01

Sample Date/Time: Monday, November 29, 2010 15:14:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 19
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	46775.980	0.04				ug/L
|	Be	9	20325.305	0.07	45.0451	1.445	3.208	ug/L
|	Al	27	382963.943	1.32	53.8519	2.278	4.230	ug/L
⌊>	Sc	45	285365.474	285365.47				ug/L
⌈	Ti	49	310.036	0.00	0.1659	0.154	92.702	ug/L
|	V	51	498755.968	1.39	52.9275	0.550	1.040	ug/L
|	Cr	52	432312.305	1.19	53.8607	0.675	1.253	ug/L
|	Cr	53	50676.547	0.14	54.7654	1.004	1.833	ug/L
|	Mn	55	1615048.812	4.53	129.0104	0.750	0.581	ug/L
|	Co	59	554703.120	1.56	52.6170	0.544	1.035	ug/L
|	Ni	60	124755.429	0.35	55.9280	0.308	0.551	ug/L
|	Cu	65	108845.773	0.30	48.7122	0.594	1.220	ug/L
|	Zn	66	53884.017	0.13	40.7417	0.237	0.581	ug/L
|>	Ge	72	356535.639	356535.64				ug/L
|	As	75	37391.519	0.11	44.7006	0.379	0.847	ug/L
|	Se	77	2733.981	0.01	40.3140	1.363	3.382	ug/L
|	Se	82	3494.398	0.01	41.9506	0.941	2.243	ug/L
⌊	Rb	85	9640.408	0.03				mg/L
	Y	89	225459.026	-32788.58				ug/L
	Rh	103	23.000	15.33				ug/L
⌈	Mo	98	1870.979	0.01	0.8460	0.034	3.976	ug/L
|	Ag	107	208122.762	0.62	42.0335	0.812	1.931	ug/L
|	Cd	114	49974.118	0.15	43.8989	0.442	1.008	ug/L
|>	In	115	333627.821	333627.82				ug/L
|	Sn	118	1260.346	-0.00	-0.0806	0.015	18.056	ug/L
⌊	Sb	123	156130.403	0.47	44.9110	0.668	1.488	ug/L
⌈	Ba	135	77772.496	0.17	46.3875	0.730	1.573	ug/L
|	Ce	140	206.690	0.00				ug/L
⌊>	Tb	159	464253.413	464253.41				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	328727.805	0.86	49.5384	0.837	1.691	ug/L
|	Tl	205	810437.658	2.11	50.0445	0.715	1.429	ug/L
|	Pb	206	275982.688	0.72	50.7313	0.603	1.188	ug/L
|	Pb	207	241532.878	0.63	48.9568	0.414	0.846	ug/L
|	Pb	208	1122601.773	2.92	49.7781	0.587	1.180	ug/L
|	U	238	1599191.273	4.16	55.9308	0.533	0.952	ug/L
⌊>	Bi	209	384183.874	384183.87				ug/L

Sample ID: L1011060808PS WG349857-01
Report Date/Time: Monday, November 29, 2010 15:16:35
Page 1

Approved: November 30, 2010

⌈	Na	23	45742682.004	160.23	7.0918	0.093	1.316	mg/L
|	Mg	24	19916439.709	69.80	4.6730	0.065	1.386	mg/L
|	K	39	8743827.152	29.08	0.7906	0.018	2.237	mg/L
|	Ca	43	280980.755	0.98	12.4544	0.296	2.375	mg/L
|	Fe	54	116574.281	0.21	0.0806	0.005	5.735	mg/L
|	Fe	57	21829.329	0.05	0.0429	0.003	6.013	mg/L
⌊>	Sc-1	45	285365.474	285365.47				mg/L
	Cl	35	78721.312	48121.23				mg/L
	Kr	83	29.667	-14.67				mg/L
	Br	81	10978.028	1019.07				mg/L
	P	31	186579.942	171704.20				mg/L
	S	34	254190.552	37297.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.451			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.671			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.540			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.453			
⌈	Na	23					

Sample ID: L1011060808PS WG349857-01
Report Date/Time: Monday, November 29, 2010 15:16:35
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011060808PS WG349857-01
Report Date/Time: Monday, November 29, 2010 15:16:35
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011060808SDL WG349857-02

Sample Date/Time: Monday, November 29, 2010 15:21:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 20
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43243.414	0.04				ug/L
|	Be	9	6.000	0.00	0.0042	0.004	102.556	ug/L
|	Al	27	27087.049	0.07	2.9172	0.596	20.440	ug/L
⌊>	Sc	45	277207.409	277207.41				ug/L
⌈	Ti	49	93.343	0.00	-0.2185	0.025	11.530	ug/L
|	V	51	4253.034	0.00	0.1673	0.002	1.472	ug/L
|	Cr	52	9249.703	0.00	0.0782	0.014	17.970	ug/L
|	Cr	53	353.375	0.00	0.0446	0.058	129.671	ug/L
|	Mn	55	176856.747	0.48	13.6639	0.069	0.509	ug/L
|	Co	59	874.047	0.00	0.0510	0.002	4.103	ug/L
|	Ni	60	2409.648	0.01	1.0079	0.009	0.919	ug/L
|	Cu	65	413.013	0.00	0.0886	0.008	9.413	ug/L
|	Zn	66	6101.589	-0.00	1.5002	0.028	1.899	ug/L
|>	Ge	72	367570.382	367570.38				ug/L
|	As	75	32.320	0.00	0.2136	0.012	5.705	ug/L
|	Se	77	73.341	0.00	0.2611	0.742	284.050	ug/L
|	Se	82	11.044	0.00	0.0119	0.054	455.316	ug/L
⌊	Rb	85	1790.845	0.00				mg/L
	Y	89	228013.416	-30234.19				ug/L
	Rh	103	5.333	-2.33				ug/L
⌈	Mo	98	420.502	0.00	0.1702	0.008	4.760	ug/L
|	Ag	107	292.674	0.00	0.0417	0.006	14.885	ug/L
|	Cd	114	44.550	0.00	0.0211	0.019	90.775	ug/L
|>	In	115	332668.441	332668.44				ug/L
|	Sn	118	1048.988	-0.00	-0.1367	0.001	0.418	ug/L
⌊	Sb	123	896.669	0.00	0.2830	0.007	2.396	ug/L
⌈	Ba	135	1251.424	0.00	0.7310	0.019	2.533	ug/L
|	Ce	140	83.342	0.00				ug/L
⌊>	Tb	159	460091.875	460091.87				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	28.000	-0.00	0.0040	0.001	28.662	ug/L
|	Tl	205	83.342	0.00	-0.0131	0.001	9.181	ug/L
|	Pb	206	704.699	0.00	-0.0013	0.006	450.904	ug/L
|	Pb	207	568.689	0.00	0.0159	0.004	26.991	ug/L
|	Pb	208	2710.171	0.00	0.0043	0.003	64.203	ug/L
|	U	238	1385.445	0.00	0.0645	0.007	10.400	ug/L
⌊>	Bi	209	410018.272	410018.27				ug/L

Sample ID: L1011060808SDL WG349857-02
Report Date/Time: Monday, November 29, 2010 15:24:06
Page 1

Approved: November 30, 2010

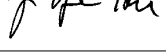
Na	23	8400445.156	30.23	1.3364	0.017	1.239	mg/L	
Mg	24	3711482.129	13.39	0.8943	0.013	1.462	mg/L	
K	39	2051270.406	5.83	0.1520	0.004	2.880	mg/L	
Ca	43	53008.768	0.19	2.4163	0.087	3.615	mg/L	
Fe	54	59375.529	0.02	0.0066	0.003	44.136	mg/L	
Fe	57	10136.151	0.01	0.0061	0.001	23.630	mg/L	
> Sc-1	45	277207.409	277207.41				mg/L	
Cl	35	31638.640	1038.55				mg/L	
Kr	83	33.334	-11.00				mg/L	
Br	81	9176.877	-782.08				mg/L	
P	31	48550.337	33674.59				mg/L	
S	34	214559.623	-2333.65				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		88.095			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		99.384			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		102.612			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		95.468			
Na	23					

Sample ID: L1011060808SDL WG349857-02
Report Date/Time: Monday, November 29, 2010 15:24:06
Page 2

Approved: November 30, 2010



Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 29, 2010 15:28:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42439.875	0.04				ug/L
|	Be	9	21963.431	0.08	53.4587	1.513	2.829	ug/L
|	Al	27	327202.618	1.23	50.4370	0.647	1.283	ug/L
|>	Sc	45	259798.601	259798.60				ug/L
⌈	Ti	49	60270.493	0.16	101.5415	1.996	1.965	ug/L
|	V	51	503863.164	1.36	51.5913	0.349	0.677	ug/L
|	Cr	52	432575.432	1.15	51.9730	0.193	0.371	ug/L
|	Cr	53	51055.092	0.14	53.2436	0.571	1.072	ug/L
|	Mn	55	686300.627	1.86	52.8701	0.645	1.220	ug/L
|	Co	59	562367.261	1.52	51.4758	0.247	0.480	ug/L
|	Ni	60	118528.891	0.32	51.2731	0.215	0.419	ug/L
|	Cu	65	115159.111	0.31	49.7384	0.169	0.339	ug/L
|	Zn	66	65351.167	0.16	48.2540	0.374	0.775	ug/L
|>	Ge	72	369479.578	369479.58				ug/L
|	As	75	43004.528	0.12	49.5933	0.455	0.918	ug/L
|	Se	77	3497.629	0.01	49.9661	2.979	5.962	ug/L
|	Se	82	4472.412	0.01	51.8459	1.927	3.717	ug/L
⌊	Rb	85	1763.173	0.00				mg/L
	Y	89	225401.204	-32846.40				ug/L
	Rh	103	22.334	14.67				ug/L
⌈	Mo	98	188731.224	0.58	90.2434	1.481	1.641	ug/L
|	Ag	107	230494.102	0.71	47.7607	0.480	1.005	ug/L
|	Cd	114	53879.756	0.17	48.5541	0.403	0.829	ug/L
|>	In	115	325234.781	325234.78				ug/L
|	Sn	118	177096.108	0.54	48.4554	0.436	0.901	ug/L
⌊	Sb	123	162291.993	0.50	47.8896	0.243	0.507	ug/L
⌈	Ba	135	73334.670	0.16	45.2189	0.324	0.718	ug/L
|	Ce	140	66.674	0.00				ug/L
|>	Tb	159	449106.248	449106.25				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	340529.814	0.85	49.0129	0.279	0.569	ug/L
|	Tl	205	837495.919	2.08	49.3876	1.017	2.059	ug/L
|	Pb	206	277678.014	0.69	48.7473	0.260	0.533	ug/L
|	Pb	207	258365.835	0.64	50.0173	0.426	0.852	ug/L
|	Pb	208	1155928.648	2.87	48.9522	0.323	0.661	ug/L
|	U	238	1608277.564	4.00	53.7219	0.873	1.625	ug/L
|>	Bi	209	402262.375	402262.38				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 15:30:51
Page 1

Approved: November 30, 2010

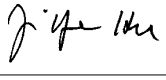
Na	23	29514519.121	113.55	5.0253	0.134	2.668	mg/L
Mg	24	18996171.468	73.12	4.8953	0.061	1.247	mg/L
K	39	46895100.303	178.99	4.9094	0.154	3.142	mg/L
Ca	43	101684.740	0.39	4.9482	0.171	3.446	mg/L
Fe	54	3521126.770	13.36	5.0837	0.188	3.690	mg/L
Fe	57	1407113.470	5.39	4.9569	0.114	2.292	mg/L
> Sc-1	45	259798.601	259798.60				mg/L
Cl	35	21284.629	-9315.46				mg/L
Kr	83	36.334	-8.00				mg/L
Br	81	8941.996	-1016.96				mg/L
P	31	14511.189	-364.56				mg/L
S	34	224879.260	7985.99				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	103.183				
Cr	52	103.946				
Cr	53					
Mn	55	105.740				
Co	59	102.952				
Ni	60	102.546				
Cu	65	99.477				
Zn	66	96.508				
> Ge	72		88.553			
As	75	99.187				
Se	77					
Se	82	103.692				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	95.521				
Cd	114	97.108				
> In	115		97.163			
Sn	118					
Sb	123	95.779				
Ba	135	90.438				
Ce	140					
> Tb	159		100.162			
Ho	165					
Tl	203	98.026				
Tl	205					
Pb	206					
Pb	207					
Pb	208	97.904				
U	238	107.444				
> Bi	209		93.662			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 15:30:51

Approved: November 30, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 15:30:51

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 29, 2010 15:35:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41854.275	0.04				ug/L
|	Be	9	4.000	0.00	0.0000	0.005	17149.975	ug/L
|	Al	27	5801.704	-0.00	-0.2031	0.137	67.570	ug/L
⌊>	Sc	45	268388.202	268388.20				ug/L
⌈	Ti	49	186.687	0.00	-0.0614	0.144	234.147	ug/L
|	V	51	2537.399	-0.00	-0.0122	0.007	55.145	ug/L
|	Cr	52	8118.709	-0.00	-0.0688	0.007	9.934	ug/L
|	Cr	53	286.700	-0.00	-0.0281	0.064	229.571	ug/L
|	Mn	55	307.674	-0.00	-0.0195	0.001	4.349	ug/L
|	Co	59	187.670	-0.00	-0.0123	0.001	5.137	ug/L
|	Ni	60	31.334	0.00	-0.0271	0.003	9.250	ug/L
|	Cu	65	97.335	-0.00	-0.0489	0.009	17.918	ug/L
|	Zn	66	599.357	-0.02	-2.8699	0.030	1.048	ug/L
|>	Ge	72	370407.145	370407.15				ug/L
|	As	75	-154.713	0.00	-0.0013	0.023	1858.039	ug/L
|	Se	77	116.679	0.00	0.8733	0.916	104.905	ug/L
|	Se	82	7.391	0.00	-0.0313	0.036	116.321	ug/L
⌊	Rb	85	11.333	-0.00				mg/L
	Y	89	235207.234	-23040.37				ug/L
	Rh	103	2.000	-5.67				ug/L
⌈	Mo	98	1255.842	0.00	0.5772	0.099	17.226	ug/L
|	Ag	107	122.669	0.00	0.0080	0.001	12.180	ug/L
|	Cd	114	14.378	-0.00	-0.0051	0.002	47.833	ug/L
|>	In	115	323742.995	323742.99				ug/L
|	Sn	118	1148.066	-0.00	-0.1014	0.022	21.965	ug/L
⌊	Sb	123	234.667	0.00	0.0940	0.009	9.737	ug/L
⌈	Ba	135	12.000	-0.00	-0.0154	0.001	6.704	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	454121.226	454121.23				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	20.334	-0.00	0.0029	0.001	31.295	ug/L
|	Tl	205	66.674	-0.00	-0.0140	0.000	2.432	ug/L
|	Pb	206	403.679	-0.00	-0.0538	0.002	4.220	ug/L
|	Pb	207	383.011	-0.00	-0.0199	0.002	8.028	ug/L
|	Pb	208	1698.074	-0.00	-0.0384	0.000	0.785	ug/L
|	U	238	5680.040	0.01	0.2038	0.034	16.847	ug/L
⌊>	Bi	209	413075.341	413075.34				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 15:37:35
Page 1

Approved: November 30, 2010

⌈	Na	23	19143.560	-0.01	-0.0023	0.000	1.979	mg/L
|	Mg	24	650.087	0.00	-0.0023	0.000	1.288	mg/L
|	K	39	428534.892	0.03	-0.0074	0.001	13.843	mg/L
|	Ca	43	136.681	-0.00	0.0028	0.001	52.227	mg/L
|	Fe	54	52612.057	-0.00	-0.0003	0.003	1116.855	mg/L
|	Fe	57	7620.333	0.00	-0.0014	0.001	35.312	mg/L
⌊>	Sc-1	45	268388.202	268388.20				mg/L
	Cl	35	22717.776	-7882.31				mg/L
	Kr	83	31.667	-12.67				mg/L
	Br	81	9191.557	-767.40				mg/L
	P	31	14111.369	-764.38				mg/L
	S	34	224300.574	7407.30				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.775			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.717			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.280			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.180			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 15:37:35

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 15:37:35

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: PBW 47 WG349827-02

Sample Date/Time: Monday, November 29, 2010 15:42:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 23
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44800.206	0.05				ug/L
|	Be	9	2.000	-0.00	-0.0048	0.000	2.035	ug/L
|	Al	27	7903.140	0.00	0.1004	0.091	90.844	ug/L
⌊>	Sc	45	271606.783	271606.78				ug/L
⌈	Ti	49	180.020	0.00	-0.0804	0.047	58.639	ug/L
|	V	51	2522.382	-0.00	-0.0200	0.002	11.647	ug/L
|	Cr	52	8211.119	-0.00	-0.0817	0.002	2.071	ug/L
|	Cr	53	250.028	-0.00	-0.0727	0.063	86.050	ug/L
|	Mn	55	786.705	0.00	0.0159	0.001	5.745	ug/L
|	Co	59	183.670	-0.00	-0.0130	0.001	4.013	ug/L
|	Ni	60	63.001	0.00	-0.0141	0.002	13.344	ug/L
|	Cu	65	156.336	-0.00	-0.0251	0.004	17.206	ug/L
|	Zn	66	2029.226	-0.01	-1.7822	0.047	2.646	ug/L
|>	Ge	72	379543.348	379543.35				ug/L
|	As	75	-162.346	0.00	-0.0051	0.042	837.313	ug/L
|	Se	77	73.341	0.00	0.2272	0.303	133.342	ug/L
|	Se	82	14.794	0.00	0.0504	0.073	144.621	ug/L
⌊	Rb	85	22.000	0.00				mg/L
	Y	89	237859.573	-20388.03				ug/L
	Rh	103	7.000	-0.67				ug/L
⌈	Mo	98	530.841	0.00	0.2224	0.017	7.654	ug/L
|	Ag	107	117.002	0.00	0.0062	0.001	20.668	ug/L
|	Cd	114	14.541	-0.00	-0.0052	0.003	49.184	ug/L
|>	In	115	331873.845	331873.85				ug/L
|	Sn	118	963.113	-0.00	-0.1592	0.008	4.751	ug/L
⌊	Sb	123	95.120	0.00	0.0520	0.005	8.665	ug/L
⌈	Ba	135	26.000	0.00	-0.0070	0.003	42.320	ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	459677.308	459677.31				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	17.334	-0.00	0.0024	0.000	3.400	ug/L
|	Tl	205	53.339	-0.00	-0.0148	0.002	11.250	ug/L
|	Pb	206	441.681	-0.00	-0.0482	0.005	10.635	ug/L
|	Pb	207	395.678	-0.00	-0.0184	0.007	38.469	ug/L
|	Pb	208	1806.749	-0.00	-0.0348	0.003	8.845	ug/L
|	U	238	1424.449	0.00	0.0649	0.004	6.151	ug/L
⌊>	Bi	209	418523.126	418523.13				ug/L

Sample ID: PBW 47 WG349827-02
Report Date/Time: Monday, November 29, 2010 15:44:25
Page 1

Approved: November 30, 2010

⌈	Na	23	40020.602	0.07	0.0011	0.000	14.979	mg/L
|	Mg	24	2147.112	0.01	-0.0020	0.000	1.277	mg/L
|	K	39	443627.127	0.06	-0.0064	0.001	18.092	mg/L
|	Ca	43	313.370	0.00	0.0109	0.004	33.555	mg/L
|	Fe	54	53832.763	-0.00	0.0005	0.002	295.854	mg/L
|	Fe	57	7476.876	0.00	-0.0022	0.001	44.224	mg/L
⌊>	Sc-1	45	271606.783	271606.78				mg/L
	Cl	35	21219.825	-9380.26				mg/L
	Kr	83	23.667	-20.67				mg/L
	Br	81	9154.856	-804.10				mg/L
	P	31	15264.397	388.65				mg/L
	S	34	224667.773	7774.50				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.965			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.147			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.519			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.448			
⌈	Na	23					

Sample ID: PBW 47 WG349827-02
Report Date/Time: Monday, November 29, 2010 15:44:25
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: LCSW 47 WG349827-03

Sample Date/Time: Monday, November 29, 2010 15:48:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 24
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41753.883	0.03				ug/L
|	Be	9	11504.616	0.04	25.7848	0.462	1.790	ug/L
|	Al	27	174868.942	0.59	24.2724	1.173	4.833	ug/L
⌊>	Sc	45	282039.510	282039.51				ug/L
⌈	Ti	49	126.680	0.00	-0.1666	0.095	56.949	ug/L
|	V	51	262728.942	0.69	26.2916	0.272	1.035	ug/L
|	Cr	52	233563.992	0.60	27.0660	0.382	1.410	ug/L
|	Cr	53	26912.196	0.07	27.4089	0.698	2.547	ug/L
|	Mn	55	364857.413	0.97	27.5890	0.351	1.273	ug/L
|	Co	59	295784.316	0.79	26.5784	0.314	1.181	ug/L
|	Ni	60	63328.885	0.17	26.8883	0.295	1.098	ug/L
|	Cu	65	61527.653	0.16	26.0587	0.185	0.711	ug/L
|	Zn	66	35889.985	0.08	24.4888	0.170	0.694	ug/L
|>	Ge	72	376168.026	376168.03				ug/L
|	As	75	21871.731	0.06	24.8631	0.261	1.049	ug/L
|	Se	77	1823.682	0.00	25.1969	1.583	6.281	ug/L
|	Se	82	2304.037	0.01	26.1741	0.098	0.376	ug/L
⌊	Rb	85	22.667	0.00				mg/L
	Y	89	229755.621	-28491.98				ug/L
	Rh	103	10.000	2.33				ug/L
⌈	Mo	98	196.643	0.00	0.0663	0.008	12.205	ug/L
|	Ag	107	120239.759	0.36	24.5400	0.211	0.860	ug/L
|	Cd	114	28159.452	0.09	24.9934	0.119	0.478	ug/L
|>	In	115	330096.152	330096.15				ug/L
|	Sn	118	949.645	-0.00	-0.1615	0.012	7.485	ug/L
⌊	Sb	123	83753.817	0.25	24.3666	0.599	2.456	ug/L
⌈	Ba	135	38215.269	0.08	23.1074	0.236	1.021	ug/L
|	Ce	140	36.670	0.00				ug/L
⌊>	Tb	159	457778.796	457778.80				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	176959.318	0.42	24.5378	0.319	1.301	ug/L
|	Tl	205	436046.279	1.04	24.7635	0.471	1.901	ug/L
|	Pb	206	149543.415	0.36	25.2322	0.159	0.630	ug/L
|	Pb	207	132357.504	0.32	24.6382	0.073	0.295	ug/L
|	Pb	208	612006.471	1.46	24.9154	0.183	0.736	ug/L
|	U	238	832772.258	1.99	26.8094	0.451	1.681	ug/L
⌊>	Bi	209	417547.857	417547.86				ug/L

Sample ID: LCSW 47 WG349827-03
Report Date/Time: Monday, November 29, 2010 15:51:09
Page 1

Approved: November 30, 2010

⌈	Na	23	32613.037	0.04	-0.0003	0.000	26.948	mg/L
|	Mg	24	1787.005	0.01	-0.0021	0.000	1.465	mg/L
|	K	39	440440.278	-0.01	-0.0084	0.001	11.517	mg/L
|	Ca	43	206.690	-0.00	0.0057	0.002	39.566	mg/L
|	Fe	54	54073.652	-0.01	-0.0019	0.003	157.880	mg/L
|	Fe	57	7693.733	-0.00	-0.0024	0.001	59.481	mg/L
⌊>	Sc-1	45	282039.510	282039.51				mg/L
	Cl	35	22861.441	-7738.64				mg/L
	Kr	83	29.667	-14.67				mg/L
	Br	81	9463.148	-495.81				mg/L
	P	31	13931.043	-944.70				mg/L
	S	34	226629.562	9736.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.156			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.615			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.096			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.221			
⌈	Na	23					

Sample ID: LCSW 47 WG349827-03
Report Date/Time: Monday, November 29, 2010 15:51:09
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077907 WG349827-01

Sample Date/Time: Monday, November 29, 2010 15:55:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 25
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45989.063	0.04				ug/L
|	Be	9	5.333	0.00	0.0026	0.007	264.026	ug/L
|	Al	27	130361.208	0.44	17.9224	0.287	1.603	ug/L
⌊>	Sc	45	280583.456	280583.46				ug/L
⌈	Ti	49	523.400	0.00	0.5364	0.119	22.251	ug/L
|	V	51	23916.593	0.06	2.2711	0.030	1.301	ug/L
|	Cr	52	37801.357	0.08	3.7272	0.053	1.428	ug/L
|	Cr	53	3591.004	0.01	3.5651	0.067	1.875	ug/L
|	Mn	55	64031.331	0.18	5.0580	0.041	0.815	ug/L
|	Co	59	11139.646	0.03	1.0248	0.013	1.234	ug/L
|	Ni	60	5837.096	0.02	2.5699	0.055	2.139	ug/L
|	Cu	65	13362.389	0.04	5.8828	0.027	0.454	ug/L
|	Zn	66	15323.552	0.02	9.1582	0.179	1.955	ug/L
|>	Ge	72	357612.526	357612.53				ug/L
|	As	75	848.660	0.00	1.1838	0.055	4.612	ug/L
|	Se	77	90.009	0.00	0.5413	0.317	58.524	ug/L
|	Se	82	97.718	0.00	1.0551	0.063	5.933	ug/L
⌊	Rb	85	175007.194	0.49				mg/L
	Y	89	225871.765	-32375.84				ug/L
	Rh	103	93.668	86.00				ug/L
⌈	Mo	98	2559.951	0.01	1.2265	0.013	1.082	ug/L
|	Ag	107	105.335	0.00	0.0048	0.002	50.029	ug/L
|	Cd	114	16.197	-0.00	-0.0032	0.003	83.804	ug/L
|>	In	115	317873.212	317873.21				ug/L
|	Sn	118	3008.186	0.00	0.4297	0.004	1.003	ug/L
⌊	Sb	123	796.203	0.00	0.2647	0.014	5.303	ug/L
⌈	Ba	135	29023.013	0.06	17.7888	0.111	0.624	ug/L
|	Ce	140	226.692	0.00				ug/L
⌊>	Tb	159	451472.640	451472.64				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	33.000	0.00	0.0052	0.000	1.169	ug/L
|	Tl	205	83.342	0.00	-0.0126	0.001	8.003	ug/L
|	Pb	206	5075.672	0.01	0.8412	0.026	3.127	ug/L
|	Pb	207	4206.593	0.01	0.7882	0.018	2.258	ug/L
|	Pb	208	19736.833	0.05	0.7956	0.020	2.547	ug/L
|	U	238	14901.268	0.04	0.5563	0.036	6.395	ug/L
⌊>	Bi	209	372767.599	372767.60				ug/L

Sample ID: L1011077907 WG349827-01
Report Date/Time: Monday, November 29, 2010 15:57:53
Page 1

Approved: November 30, 2010

⌈	Na	23	136621409.438	487.00	21.5583	0.419	1.943	mg/L
|	Mg	24	22351953.240	79.70	5.3359	0.166	3.108	mg/L
|	K	39	175208240.380	623.19	17.1134	0.533	3.116	mg/L
|	Ca	43	427415.677	1.52	19.2720	0.513	2.662	mg/L
|	Fe	54	140525.893	0.30	0.1157	0.006	4.759	mg/L
|	Fe	57	46830.748	0.14	0.1261	0.003	2.332	mg/L
⌊>	Sc-1	45	280583.456	280583.46				mg/L
	Cl	35	293612.943	263012.86				mg/L
	Kr	83	32.667	-11.67				mg/L
	Br	81	36475.797	26516.84				mg/L
	P	31	92345.091	77469.34				mg/L
	S	34	695227.434	478334.16				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.709			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.964			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.689			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		86.794			
⌈	Na	23					

Sample ID: L1011077907 WG349827-01
Report Date/Time: Monday, November 29, 2010 15:57:53
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011077907 WG349827-01
Report Date/Time: Monday, November 29, 2010 15:57:53
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077907S WG349827-04

Sample Date/Time: Monday, November 29, 2010 16:02:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	49773.715	0.05				ug/L
|	Be	9	10796.492	0.04	23.2450	0.586	2.523	ug/L
|	Al	27	280976.080	0.93	38.0673	0.518	1.361	ug/L
|>	Sc	45	293649.984	293649.98				ug/L
⌈	Ti	49	516.732	0.00	0.5051	0.047	9.387	ug/L
|	V	51	278405.889	0.75	28.6621	0.321	1.121	ug/L
|	Cr	52	254563.502	0.67	30.4497	0.395	1.297	ug/L
|	Cr	53	29442.889	0.08	30.8614	0.205	0.665	ug/L
|	Mn	55	415913.460	1.14	32.3314	0.264	0.817	ug/L
|	Co	59	297025.304	0.81	27.4351	0.085	0.310	ug/L
|	Ni	60	64829.464	0.18	28.2949	0.154	0.545	ug/L
|	Cu	65	68845.229	0.19	29.9823	0.133	0.442	ug/L
|	Zn	66	41910.402	0.10	30.0625	0.057	0.189	ug/L
|>	Ge	72	365981.186	365981.19				ug/L
|	As	75	20912.459	0.06	24.4382	0.143	0.586	ug/L
|	Se	77	1573.615	0.00	22.2399	1.422	6.393	ug/L
|	Se	82	1997.306	0.01	23.3102	0.451	1.934	ug/L
⌊	Rb	85	185447.254	0.51				mg/L
	Y	89	235040.502	-23207.10				ug/L
	Rh	103	104.668	97.00				ug/L
⌈	Mo	98	2827.885	0.01	1.2841	0.033	2.600	ug/L
|	Ag	107	106505.566	0.32	21.3706	0.151	0.705	ug/L
|	Cd	114	26252.347	0.08	22.9096	0.174	0.760	ug/L
|>	In	115	335702.797	335702.80				ug/L
|	Sn	118	2504.314	0.00	0.2498	0.003	1.085	ug/L
⌊	Sb	123	78497.272	0.23	22.4538	0.218	0.971	ug/L
⌈	Ba	135	66699.731	0.14	38.6636	0.345	0.893	ug/L
|	Ce	140	170.018	0.00				ug/L
|>	Tb	159	477682.861	477682.86				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	165709.404	0.43	25.0083	0.174	0.695	ug/L
|	Tl	205	406206.008	1.06	25.1087	0.224	0.891	ug/L
|	Pb	206	144203.069	0.37	26.4876	0.201	0.758	ug/L
|	Pb	207	126458.906	0.33	25.6232	0.201	0.785	ug/L
|	Pb	208	586047.669	1.52	25.9709	0.051	0.198	ug/L
|	U	238	835387.493	2.18	29.2679	0.087	0.298	ug/L
|>	Bi	209	383658.943	383658.94				ug/L

Approved: November 30, 2010

Na	23	141119150.054	480.56	21.2735	0.322	1.513	mg/L
Mg	24	23058140.954	78.55	5.2584	0.135	2.559	mg/L
K	39	186040284.919	632.20	17.3611	0.550	3.166	mg/L
Ca	43	463797.943	1.58	19.9807	0.581	2.907	mg/L
Fe	54	143774.131	0.29	0.1114	0.005	4.889	mg/L
Fe	57	48740.144	0.14	0.1253	0.009	6.930	mg/L
> Sc-1	45	293649.984	293649.98				mg/L
Cl	35	313576.371	282976.29				mg/L
Kr	83	29.000	-15.33				mg/L
Br	81	34647.276	24688.32				mg/L
P	31	94688.404	79812.66				mg/L
S	34	738390.940	521497.67				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		87.714			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		100.290			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		106.535			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		89.330			
Na	23					

Sample ID: L1011077907S WG349827-04
Report Date/Time: Monday, November 29, 2010 16:04:37
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011077907S WG349827-04
Report Date/Time: Monday, November 29, 2010 16:04:37
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077907SD WG349827-05

Sample Date/Time: Monday, November 29, 2010 16:09:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 27
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45972.203	0.04				ug/L
|	Be	9	10497.507	0.04	23.5280	0.785	3.338	ug/L
|	Al	27	316824.946	1.10	44.8828	1.850	4.122	ug/L
⌊>	Sc	45	282213.001	282213.00				ug/L
⌈	Ti	49	633.417	0.00	0.7291	0.229	31.448	ug/L
|	V	51	268001.695	0.74	28.2303	0.186	0.660	ug/L
|	Cr	52	245955.515	0.66	30.0943	0.233	0.773	ug/L
|	Cr	53	28389.804	0.08	30.4429	1.286	4.223	ug/L
|	Mn	55	403968.990	1.13	32.1380	0.207	0.644	ug/L
|	Co	59	287910.328	0.80	27.2152	0.194	0.714	ug/L
|	Ni	60	63310.091	0.18	28.2776	0.303	1.072	ug/L
|	Cu	65	66846.351	0.19	29.7928	0.166	0.558	ug/L
|	Zn	66	41300.858	0.10	30.3471	0.145	0.478	ug/L
|>	Ge	72	357614.384	357614.38				ug/L
|	As	75	20488.208	0.06	24.5002	0.239	0.974	ug/L
|	Se	77	1600.289	0.00	23.1973	1.912	8.242	ug/L
|	Se	82	1973.638	0.01	23.5699	0.771	3.271	ug/L
⌊	Rb	85	178944.384	0.50				mg/L
	Y	89	228896.024	-29351.58				ug/L
	Rh	103	116.669	109.00				ug/L
⌈	Mo	98	2624.604	0.01	1.2342	0.015	1.208	ug/L
|	Ag	107	103459.859	0.32	21.5147	0.206	0.956	ug/L
|	Cd	114	25025.746	0.08	22.6364	0.474	2.095	ug/L
|>	In	115	323928.683	323928.68				ug/L
|	Sn	118	2278.526	0.00	0.2117	0.016	7.619	ug/L
⌊	Sb	123	76809.105	0.24	22.7704	0.267	1.171	ug/L
⌈	Ba	135	71103.964	0.15	42.6266	0.092	0.216	ug/L
|	Ce	140	230.026	0.00				ug/L
⌊>	Tb	159	461926.921	461926.92				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	161675.152	0.43	24.8228	0.176	0.711	ug/L
|	Tl	205	398861.757	1.06	25.0838	0.372	1.481	ug/L
|	Pb	206	141076.625	0.37	26.3631	0.347	1.317	ug/L
|	Pb	207	124385.811	0.33	25.6408	0.270	1.052	ug/L
|	Pb	208	575655.158	1.52	25.9540	0.272	1.047	ug/L
|	U	238	817636.757	2.17	29.1438	0.206	0.707	ug/L
⌊>	Bi	209	377113.171	377113.17				ug/L

Sample ID: L1011077907SD WG349827-05
Report Date/Time: Monday, November 29, 2010 16:11:22
Page 1

Approved: November 30, 2010

⌈	Na	23	137120171.307	486.19	21.5225	0.827	3.842	mg/L
|	Mg	24	22621639.100	80.21	5.3697	0.170	3.165	mg/L
|	K	39	179373918.756	634.75	17.4312	0.972	5.575	mg/L
|	Ca	43	448846.067	1.59	20.1276	0.636	3.160	mg/L
|	Fe	54	142169.432	0.31	0.1170	0.009	7.774	mg/L
|	Fe	57	47852.437	0.14	0.1285	0.004	2.895	mg/L
⌊>	Sc-1	45	282213.001	282213.00				mg/L
	Cl	35	301730.105	271130.02				mg/L
	Kr	83	28.667	-15.67				mg/L
	Br	81	34713.515	24754.56				mg/L
	P	31	90357.131	75481.38				mg/L
	S	34	708093.522	491200.25				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.709			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.773			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.021			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		87.806			
⌈	Na	23					

Sample ID: L1011077907SD WG349827-05
Report Date/Time: Monday, November 29, 2010 16:11:22
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011077907SD WG349827-05
Report Date/Time: Monday, November 29, 2010 16:11:22
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011081801

Sample Date/Time: Monday, November 29, 2010 16:15:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 28
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43461.021	0.05				ug/L
|	Be	9	6.667	0.00	0.0068	0.007	104.653	ug/L
|	Al	27	66034.069	0.23	9.3853	0.223	2.378	ug/L
⌊>	Sc	45	258039.472	258039.47				ug/L
⌈	Ti	49	713.430	0.00	0.8439	0.162	19.144	ug/L
|	V	51	5663.750	0.01	0.3172	0.009	2.787	ug/L
|	Cr	52	9707.809	0.00	0.1431	0.017	11.924	ug/L
|	Cr	53	303.368	-0.00	-0.0059	0.028	468.488	ug/L
|	Mn	55	702520.766	1.92	54.7889	0.290	0.529	ug/L
|	Co	59	1686.159	0.00	0.1270	0.004	3.459	ug/L
|	Ni	60	39467.827	0.11	17.2546	0.138	0.802	ug/L
|	Cu	65	961.056	0.00	0.3300	0.005	1.583	ug/L
|	Zn	66	14178.520	0.02	7.9914	0.189	2.362	ug/L
|>	Ge	72	365028.795	365028.80				ug/L
|	As	75	149.537	0.00	0.3520	0.117	33.105	ug/L
|	Se	77	756.771	0.00	10.3171	1.278	12.384	ug/L
|	Se	82	1005.452	0.00	11.7116	0.375	3.199	ug/L
⌊	Rb	85	986.059	0.00				mg/L
	Y	89	224329.632	-33917.97				ug/L
	Rh	103	18.334	10.67				ug/L
⌈	Mo	98	316.273	0.00	0.1254	0.009	7.459	ug/L
|	Ag	107	72.668	0.00	-0.0025	0.000	12.303	ug/L
|	Cd	114	31.099	0.00	0.0100	0.004	44.316	ug/L
|>	In	115	323860.784	323860.78				ug/L
|	Sn	118	577.217	-0.00	-0.2597	0.005	1.876	ug/L
⌊	Sb	123	124.622	0.00	0.0614	0.004	6.558	ug/L
⌈	Ba	135	5487.560	0.01	3.3243	0.056	1.692	ug/L
|	Ce	140	276.698	0.00				ug/L
⌊>	Tb	159	454429.284	454429.28				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	164.003	0.00	0.0235	0.005	19.243	ug/L
|	Tl	205	480.060	0.00	0.0103	0.007	69.944	ug/L
|	Pb	206	646.694	0.00	-0.0103	0.008	80.082	ug/L
|	Pb	207	557.355	0.00	0.0149	0.014	96.978	ug/L
|	Pb	208	2555.154	0.00	-0.0011	0.011	962.397	ug/L
|	U	238	7045.885	0.02	0.2519	0.003	1.148	ug/L
⌊>	Bi	209	406678.720	406678.72				ug/L

Sample ID: L1011081801
Report Date/Time: Monday, November 29, 2010 16:18:07
Page 1

Approved: November 30, 2010

Na	23	7448649.189	28.82	1.2739	0.074	5.795	mg/L
Mg	24	25632667.815	99.41	6.6556	0.245	3.688	mg/L
K	39	3124008.633	10.54	0.2815	0.015	5.409	mg/L
Ca	43	391216.690	1.52	19.1743	0.739	3.856	mg/L
Fe	54	41657.967	-0.04	-0.0135	0.001	8.929	mg/L
Fe	57	27767.964	0.08	0.0715	0.004	6.252	mg/L
Sc-1	45	258039.472	258039.47				mg/L
Cl	35	40533.318	9933.23				mg/L
Kr	83	32.000	-12.33				mg/L
Br	81	14023.159	4064.20				mg/L
P	31	10719.099	-4156.65				mg/L
S	34	1057238.306	840345.04				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		87.486			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		96.753			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		101.349			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		94.690			
Na	23					

Sample ID: L1011081801
Report Date/Time: Monday, November 29, 2010 16:18:07

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011081802

Sample Date/Time: Monday, November 29, 2010 16:23:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43176.482	0.04				ug/L
|	Be	9	2.667	-0.00	-0.0034	0.005	152.218	ug/L
|	Al	27	33890.782	0.10	3.9914	0.112	2.809	ug/L
⌊>	Sc	45	272895.188	272895.19				ug/L
⌈	Ti	49	706.762	0.00	0.8502	0.051	5.949	ug/L
|	V	51	5184.388	0.01	0.2753	0.017	6.002	ug/L
|	Cr	52	9682.784	0.00	0.1574	0.024	15.527	ug/L
|	Cr	53	353.375	0.00	0.0529	0.071	135.190	ug/L
|	Mn	55	644534.800	1.79	50.9900	0.682	1.338	ug/L
|	Co	59	3302.245	0.01	0.2812	0.007	2.326	ug/L
|	Ni	60	40041.434	0.11	17.7604	0.340	1.913	ug/L
|	Cu	65	793.373	0.00	0.2616	0.010	3.991	ug/L
|	Zn	66	9669.102	0.01	4.4974	0.070	1.549	ug/L
|>	Ge	72	359788.275	359788.28				ug/L
|	As	75	265.716	0.00	0.4896	0.172	35.056	ug/L
|	Se	77	740.102	0.00	10.2179	1.716	16.791	ug/L
|	Se	82	905.142	0.00	10.6813	0.383	3.581	ug/L
⌊	Rb	85	849.378	0.00				mg/L
	Y	89	224647.626	-33599.98				ug/L
	Rh	103	28.667	21.00				ug/L
⌈	Mo	98	443.836	0.00	0.1877	0.017	9.163	ug/L
|	Ag	107	71.668	0.00	-0.0026	0.002	84.174	ug/L
|	Cd	114	16.615	-0.00	-0.0030	0.006	208.564	ug/L
|>	In	115	322702.134	322702.13				ug/L
|	Sn	118	833.768	-0.00	-0.1878	0.006	3.127	ug/L
⌊	Sb	123	134.958	0.00	0.0646	0.003	3.946	ug/L
⌈	Ba	135	5520.245	0.01	3.3893	0.069	2.029	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	448338.261	448338.26				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	134.336	0.00	0.0197	0.001	3.551	ug/L
|	Tl	205	293.367	0.00	-0.0003	0.002	754.249	ug/L
|	Pb	206	520.685	-0.00	-0.0297	0.001	4.740	ug/L
|	Pb	207	420.680	-0.00	-0.0093	0.002	18.502	ug/L
|	Pb	208	2038.103	-0.00	-0.0205	0.001	3.826	ug/L
|	U	238	7381.797	0.02	0.2699	0.001	0.357	ug/L
⌊>	Bi	209	395409.163	395409.16				ug/L

Sample ID: L1011081802
Report Date/Time: Monday, November 29, 2010 16:25:27
Page 1

Approved: November 30, 2010

⌈	Na	23	7598206.361	27.80	1.2289	0.055	4.451	mg/L
|	Mg	24	26156748.067	95.97	6.4254	0.282	4.384	mg/L
|	K	39	3167309.395	10.05	0.2679	0.011	4.193	mg/L
|	Ca	43	418143.549	1.53	19.3936	0.577	2.974	mg/L
|	Fe	54	62351.763	0.03	0.0121	0.003	27.935	mg/L
|	Fe	57	27136.179	0.07	0.0640	0.001	2.310	mg/L
⌊>	Sc-1	45	272895.188	272895.19				mg/L
	Cl	35	42581.814	11981.73				mg/L
	Kr	83	28.000	-16.33				mg/L
	Br	81	15711.667	5752.71				mg/L
	P	31	16220.498	1344.75				mg/L
	S	34	1074664.534	857771.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.230			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.407			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.990			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.066			
⌈	Na	23					

Sample ID: L1011081802
Report Date/Time: Monday, November 29, 2010 16:25:27
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011081802
Report Date/Time: Monday, November 29, 2010 16:25:27
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011081802PS WG349884-01

Sample Date/Time: Monday, November 29, 2010 16:30:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 30
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41937.922	0.04				ug/L
|	Be	9	22455.185	0.08	52.2228	1.390	2.661	ug/L
|	Al	27	349612.381	1.26	51.5302	2.276	4.417	ug/L
⌊>	Sc	45	271932.204	271932.20				ug/L
⌈	Ti	49	800.112	0.00	0.9946	0.056	5.589	ug/L
|	V	51	531294.036	1.45	55.1772	0.162	0.293	ug/L
|	Cr	52	460001.401	1.24	56.1226	0.419	0.747	ug/L
|	Cr	53	54154.980	0.15	57.2871	0.855	1.492	ug/L
|	Mn	55	1391060.217	3.82	108.7049	1.009	0.928	ug/L
|	Co	59	598432.376	1.64	55.5423	0.188	0.339	ug/L
|	Ni	60	166330.887	0.46	72.9730	0.708	0.970	ug/L
|	Cu	65	120475.924	0.33	52.7650	0.545	1.033	ug/L
|	Zn	66	72491.869	0.18	54.6874	0.530	0.970	ug/L
|>	Ge	72	364416.760	364416.76				ug/L
|	As	75	44203.678	0.12	51.6782	0.526	1.018	ug/L
|	Se	77	4144.608	0.01	60.1884	2.918	4.848	ug/L
|	Se	82	5176.756	0.01	60.8584	0.719	1.182	ug/L
⌊	Rb	85	873.714	0.00				mg/L
	Y	89	229258.302	-28989.30				ug/L
	Rh	103	38.667	31.00				ug/L
⌈	Mo	98	409.095	0.00	0.1687	0.008	4.580	ug/L
|	Ag	107	235249.160	0.72	48.6234	0.905	1.861	ug/L
|	Cd	114	55438.209	0.17	49.8338	0.498	0.999	ug/L
|>	In	115	326061.144	326061.14				ug/L
|	Sn	118	761.362	-0.00	-0.2101	0.008	3.947	ug/L
⌊	Sb	123	170141.621	0.52	50.0801	0.430	0.858	ug/L
⌈	Ba	135	83044.241	0.18	50.0341	0.443	0.886	ug/L
|	Ce	140	33.337	0.00				ug/L
⌊>	Tb	159	459682.567	459682.57				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	358303.247	0.89	51.3319	0.387	0.754	ug/L
|	Tl	205	884816.071	2.19	51.9335	0.495	0.954	ug/L
|	Pb	206	301009.855	0.74	52.6072	0.296	0.563	ug/L
|	Pb	207	265382.661	0.66	51.1397	0.555	1.084	ug/L
|	Pb	208	1228504.056	3.03	51.7897	0.259	0.499	ug/L
|	U	238	1740787.959	4.31	57.8759	0.239	0.413	ug/L
⌊>	Bi	209	404155.775	404155.77				ug/L

Sample ID: L1011081802PS WG349884-01
Report Date/Time: Monday, November 29, 2010 16:32:13
Page 1

Approved: November 30, 2010

⌈	Na	23	7578217.813	27.79	1.2285	0.014	1.173	mg/L
|	Mg	24	26170649.400	96.28	6.4464	0.204	3.165	mg/L
|	K	39	3150599.453	10.02	0.2671	0.010	3.827	mg/L
|	Ca	43	414974.265	1.53	19.3006	0.541	2.805	mg/L
|	Fe	54	64150.302	0.04	0.0150	0.006	40.759	mg/L
|	Fe	57	26056.579	0.07	0.0606	0.004	5.961	mg/L
⌊>	Sc-1	45	271932.204	271932.20				mg/L
	Cl	35	42247.068	11646.98				mg/L
	Kr	83	37.000	-7.33				mg/L
	Br	81	15504.014	5545.06				mg/L
	P	31	16390.789	1515.04				mg/L
	S	34	1082604.719	865711.45				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		87.339			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
\>	In	115		97.410			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.520			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.103			
⌈	Na	23					

Sample ID: L1011081802PS WG349884-01
Report Date/Time: Monday, November 29, 2010 16:32:13
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011081802SDL WG349884-02

Sample Date/Time: Monday, November 29, 2010 16:36:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 31
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43210.083	0.04				ug/L
|	Be	9	6.667	0.00	0.0065	0.012	184.470	ug/L
|	Al	27	20136.933	0.05	2.0306	0.073	3.606	ug/L
⌊>	Sc	45	264074.800	264074.80				ug/L
⌈	Ti	49	163.351	0.00	-0.1084	0.035	31.932	ug/L
|	V	51	3282.885	0.00	0.0559	0.004	7.262	ug/L
|	Cr	52	8716.217	0.00	-0.0224	0.002	10.906	ug/L
|	Cr	53	170.018	-0.00	-0.1544	0.037	23.736	ug/L
|	Mn	55	132051.498	0.35	9.8585	0.071	0.722	ug/L
|	Co	59	784.705	0.00	0.0405	0.002	4.077	ug/L
|	Ni	60	8358.243	0.02	3.4784	0.070	2.000	ug/L
|	Cu	65	243.672	0.00	0.0116	0.004	38.722	ug/L
|	Zn	66	3973.162	-0.01	-0.2917	0.071	24.327	ug/L
|>	Ge	72	379932.980	379932.98				ug/L
|	As	75	37.381	0.00	0.2180	0.054	24.891	ug/L
|	Se	77	246.695	0.00	2.6709	0.917	34.338	ug/L
|	Se	82	240.774	0.00	2.6031	0.242	9.307	ug/L
⌊	Rb	85	193.004	0.00				mg/L
	Y	89	230673.254	-27574.35				ug/L
	Rh	103	7.333	-0.33				ug/L
⌈	Mo	98	99.453	0.00	0.0206	0.003	14.842	ug/L
|	Ag	107	91.668	0.00	0.0012	0.002	163.979	ug/L
|	Cd	114	18.292	-0.00	-0.0018	0.004	223.729	ug/L
|>	In	115	329210.679	329210.68				ug/L
|	Sn	118	464.277	-0.00	-0.2932	0.009	2.940	ug/L
⌊	Sb	123	268.503	0.00	0.1027	0.008	7.426	ug/L
⌈	Ba	135	1145.744	0.00	0.6752	0.006	0.922	ug/L
|	Ce	140	40.004	0.00				ug/L
⌊>	Tb	159	454873.789	454873.79				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	103.002	0.00	0.0141	0.004	29.729	ug/L
|	Tl	205	220.025	0.00	-0.0056	0.006	107.853	ug/L
|	Pb	206	666.362	0.00	-0.0120	0.015	122.449	ug/L
|	Pb	207	596.691	0.00	0.0172	0.013	74.193	ug/L
|	Pb	208	2611.158	0.00	-0.0037	0.013	359.336	ug/L
|	U	238	3350.928	0.01	0.1250	0.002	1.950	ug/L
⌊>	Bi	209	425371.428	425371.43				ug/L

Approved: November 30, 2010

Na	23	1599005.724	5.98	0.2626	0.006	2.427	mg/L
Mg	24	5364220.291	20.31	1.3582	0.036	2.655	mg/L
K	39	1008573.911	2.25	0.0536	0.002	3.071	mg/L
Ca	43	84887.246	0.32	4.0626	0.066	1.628	mg/L
Fe	54	31631.245	-0.08	-0.0293	0.001	3.546	mg/L
Fe	57	11304.184	0.02	0.0118	0.001	5.311	mg/L
> Sc-1	45	264074.800	264074.80				mg/L
Cl	35	24053.568	-6546.52				mg/L
Kr	83	26.667	-17.67				mg/L
Br	81	10919.961	961.00				mg/L
P	31	8052.578	-6823.17				mg/L
S	34	396868.726	179975.46				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		91.058			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		98.351			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		101.448			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		99.043			
Na	23					

Sample ID: L1011081802SDL WG349884-02
Report Date/Time: Monday, November 29, 2010 16:38:59
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011081802SDL WG349884-02
Report Date/Time: Monday, November 29, 2010 16:38:59
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 29, 2010 16:43:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40314.545	0.04				ug/L
|	Be	9	21837.822	0.08	52.8013	0.769	1.457	ug/L
|	Al	27	320109.990	1.20	49.0033	0.435	0.888	ug/L
⌊>	Sc	45	261474.609	261474.61				ug/L
⌈	Ti	49	58486.430	0.16	100.8310	2.534	2.513	ug/L
|	V	51	493263.276	1.36	51.6870	1.195	2.311	ug/L
|	Cr	52	424979.724	1.15	52.2565	0.910	1.742	ug/L
|	Cr	53	48857.271	0.13	52.1298	0.800	1.534	ug/L
|	Mn	55	674832.946	1.87	53.2025	0.746	1.402	ug/L
|	Co	59	553622.583	1.53	51.8569	0.558	1.076	ug/L
|	Ni	60	116053.714	0.32	51.3744	0.830	1.615	ug/L
|	Cu	65	111529.614	0.31	49.2922	0.683	1.386	ug/L
|	Zn	66	63616.682	0.16	48.0517	0.339	0.705	ug/L
|>	Ge	72	361091.288	361091.29				ug/L
|	As	75	41090.090	0.11	48.4915	0.233	0.481	ug/L
|	Se	77	3247.519	0.01	47.4223	1.520	3.205	ug/L
|	Se	82	4201.676	0.01	49.8296	0.055	0.110	ug/L
⌊	Rb	85	1708.163	0.00				mg/L
	Y	89	225346.400	-32901.20				ug/L
	Rh	103	19.000	11.33				ug/L
⌈	Mo	98	184510.852	0.59	91.1472	2.453	2.691	ug/L
|	Ag	107	222160.672	0.71	47.5437	0.326	0.686	ug/L
|	Cd	114	51624.763	0.16	48.0472	0.740	1.541	ug/L
|>	In	115	314913.091	314913.09				ug/L
|	Sn	118	173256.824	0.55	48.9690	0.616	1.257	ug/L
⌊	Sb	123	157204.263	0.50	47.9142	0.586	1.224	ug/L
⌈	Ba	135	71641.092	0.16	44.9015	0.365	0.812	ug/L
|	Ce	140	46.671	0.00				ug/L
⌊>	Tb	159	441871.139	441871.14				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	335717.782	0.83	48.1286	0.553	1.150	ug/L
|	Tl	205	832821.209	2.06	48.9174	0.304	0.621	ug/L
|	Pb	206	274212.483	0.68	47.9452	0.163	0.340	ug/L
|	Pb	207	255877.516	0.63	49.3373	0.319	0.646	ug/L
|	Pb	208	1145177.750	2.83	48.3025	0.259	0.536	ug/L
|	U	238	1612998.173	3.99	53.6659	0.691	1.288	ug/L
⌊>	Bi	209	403873.646	403873.65				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 16:45:44
Page 1

Approved: November 30, 2010

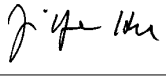
Na	23	28944686.859	110.62	4.8955	0.039	0.799	mg/L
Mg	24	18715364.542	71.58	4.7920	0.064	1.331	mg/L
K	39	46189080.256	175.07	4.8018	0.029	0.610	mg/L
Ca	43	102640.991	0.39	4.9618	0.061	1.232	mg/L
Fe	54	3442446.313	12.97	4.9352	0.110	2.223	mg/L
Fe	57	1392910.830	5.30	4.8745	0.064	1.320	mg/L
> Sc-1	45	261474.609	261474.61				mg/L
Cl	35	20450.223	-10149.86				mg/L
Kr	83	30.000	-14.33				mg/L
Br	81	9395.081	-563.88				mg/L
P	31	13272.817	-1602.93				mg/L
S	34	223154.253	6260.98				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	103.374				
Cr	52	104.513				
Cr	53					
Mn	55	106.405				
Co	59	103.714				
Ni	60	102.749				
Cu	65	98.584				
Zn	66	96.103				
> Ge	72		86.542			
As	75	96.983				
Se	77					
Se	82	99.659				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	95.087				
Cd	114	96.094				
> In	115		94.080			
Sn	118					
Sb	123	95.828				
Ba	135	89.803				
Ce	140					
> Tb	159		98.548			
Ho	165					
Tl	203	96.257				
Tl	205					
Pb	206					
Pb	207					
Pb	208	96.605				
U	238	107.332				
> Bi	209		94.037			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 16:45:44

Approved: November 30, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Ba	135	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 29, 2010 16:50:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39461.208	0.03				ug/L
|	Be	9	2.667	-0.00	-0.0031	0.011	355.868	ug/L
|	Al	27	6035.168	-0.00	-0.1305	0.095	72.525	ug/L
⌊>	Sc	45	257474.252	257474.25				ug/L
⌈	Ti	49	180.020	0.00	-0.0669	0.078	117.011	ug/L
|	V	51	2405.238	-0.00	-0.0210	0.005	22.981	ug/L
|	Cr	52	7850.159	-0.00	-0.0830	0.009	10.990	ug/L
|	Cr	53	246.695	-0.00	-0.0650	0.096	148.467	ug/L
|	Mn	55	338.676	-0.00	-0.0166	0.001	8.778	ug/L
|	Co	59	171.670	-0.00	-0.0134	0.001	7.304	ug/L
|	Ni	60	104.669	0.00	0.0057	0.051	894.689	ug/L
|	Cu	65	115.668	-0.00	-0.0401	0.005	12.999	ug/L
|	Zn	66	630.026	-0.02	-2.8362	0.036	1.271	ug/L
|>	Ge	72	363391.841	363391.84				ug/L
|	As	75	-224.804	-0.00	-0.0870	0.062	71.449	ug/L
|	Se	77	70.007	0.00	0.2233	0.160	71.861	ug/L
|	Se	82	-0.991	0.00	-0.1289	0.042	32.888	ug/L
⌊	Rb	85	12.000	-0.00				mg/L
	Y	89	229598.615	-28648.99				ug/L
	Rh	103	4.667	-3.00				ug/L
⌈	Mo	98	1152.605	0.00	0.5354	0.121	22.579	ug/L
|	Ag	107	90.335	0.00	0.0015	0.000	21.572	ug/L
|	Cd	114	13.107	-0.00	-0.0060	0.006	105.481	ug/L
|>	In	115	319395.436	319395.44				ug/L
|	Sn	118	1121.796	-0.00	-0.1045	0.018	16.766	ug/L
⌊	Sb	123	237.210	0.00	0.0957	0.008	8.852	ug/L
⌈	Ba	135	12.333	-0.00	-0.0151	0.002	16.254	ug/L
|	Ce	140	20.002	0.00				ug/L
⌊>	Tb	159	450799.152	450799.15				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	22.334	-0.00	0.0032	0.001	27.190	ug/L
|	Tl	205	33.337	-0.00	-0.0160	0.001	5.402	ug/L
|	Pb	206	407.679	-0.00	-0.0531	0.004	6.719	ug/L
|	Pb	207	350.010	-0.00	-0.0262	0.002	7.706	ug/L
|	Pb	208	1694.075	-0.00	-0.0386	0.004	10.422	ug/L
|	U	238	4918.975	0.01	0.1791	0.041	22.657	ug/L
⌊>	Bi	209	413421.754	413421.75				ug/L

Approved: November 30, 2010

⌈	Na	23	16311.593	-0.02	-0.0026	0.000	5.234	mg/L
|	Mg	24	393.380	0.00	-0.0024	0.000	0.392	mg/L
|	K	39	433433.760	0.11	-0.0051	0.001	16.427	mg/L
|	Ca	43	123.346	-0.00	0.0025	0.002	79.670	mg/L
|	Fe	54	52083.515	0.00	0.0021	0.003	128.809	mg/L
|	Fe	57	7757.122	0.00	0.0002	0.002	1019.049	mg/L
⌊>	Sc-1	45	257474.252	257474.25				mg/L
	Cl	35	20823.660	-9776.43				mg/L
	Kr	83	37.334	-7.00				mg/L
	Br	81	9586.595	-372.36				mg/L
	P	31	13365.609	-1510.14				mg/L
	S	34	226655.336	9762.07				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.094			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.419			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.539			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.260			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 16:52:28

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 16:52:28

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011081803

Sample Date/Time: Monday, November 29, 2010 16:57:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 32
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40180.565	0.04				ug/L
|	Be	9	3.333	0.00	-0.0010	0.006	623.435	ug/L
|	Al	27	62948.320	0.23	9.1998	1.171	12.733	ug/L
⌊>	Sc	45	251048.612	251048.61				ug/L
⌈	Ti	49	796.778	0.00	1.0130	0.096	9.502	ug/L
|	V	51	5762.441	0.01	0.3396	0.031	9.064	ug/L
|	Cr	52	9658.759	0.00	0.1607	0.011	7.136	ug/L
|	Cr	53	323.371	0.00	0.0222	0.036	160.508	ug/L
|	Mn	55	739336.264	2.07	58.8183	5.116	8.697	ug/L
|	Co	59	1808.515	0.00	0.1416	0.008	5.749	ug/L
|	Ni	60	38200.492	0.11	17.0357	1.430	8.391	ug/L
|	Cu	65	752.369	0.00	0.2453	0.028	11.587	ug/L
|	Zn	66	12511.292	0.02	6.8560	0.564	8.232	ug/L
| >	Ge	72	357972.303	357972.30				ug/L
|	As	75	193.343	0.00	0.4042	0.208	51.473	ug/L
|	Se	77	733.434	0.00	10.1853	1.127	11.068	ug/L
|	Se	82	946.799	0.00	11.2379	1.059	9.426	ug/L
⌊	Rb	85	924.386	0.00				mg/L
	Y	89	213690.223	-44557.38				ug/L
	Rh	103	23.334	15.67				ug/L
⌈	Mo	98	565.812	0.00	0.2635	0.023	8.635	ug/L
|	Ag	107	47.001	0.00	-0.0071	0.001	11.533	ug/L
|	Cd	114	45.515	0.00	0.0259	0.004	17.129	ug/L
| >	In	115	303576.400	303576.40				ug/L
|	Sn	118	594.684	-0.00	-0.2439	0.007	2.713	ug/L
⌊	Sb	123	130.583	0.00	0.0657	0.005	7.935	ug/L
⌈	Ba	135	5227.421	0.01	3.4293	0.194	5.669	ug/L
|	Ce	140	286.700	0.00				ug/L
⌊>	Tb	159	419526.885	419526.88				ug/L
⌈	Ho	165	36.670	0.00				ug/L
|	Tl	203	135.002	0.00	0.0199	0.004	17.808	ug/L
|	Tl	205	353.375	0.00	0.0034	0.003	89.414	ug/L
|	Pb	206	455.682	-0.00	-0.0411	0.002	5.446	ug/L
|	Pb	207	392.678	-0.00	-0.0145	0.007	48.911	ug/L
|	Pb	208	1848.420	-0.00	-0.0285	0.003	9.396	ug/L
|	U	238	6691.981	0.02	0.2473	0.019	7.649	ug/L
⌊>	Bi	209	394202.788	394202.79				ug/L

Sample ID: L1011081803
Report Date/Time: Monday, November 29, 2010 16:59:14
Page 1

Approved: November 30, 2010

⌈	Na	23	6803641.742	27.10	1.1978	0.146	12.209	mg/L
|	Mg	24	24093790.258	96.24	6.4434	0.740	11.483	mg/L
|	K	39	2947053.353	10.20	0.2720	0.036	13.088	mg/L
|	Ca	43	375165.511	1.50	18.9526	2.214	11.683	mg/L
|	Fe	54	42449.399	-0.03	-0.0105	0.004	37.231	mg/L
|	Fe	57	25718.936	0.08	0.0668	0.005	6.997	mg/L
⌊>	Sc-1	45	251048.612	251048.61				mg/L
	Cl	35	36703.287	6103.20				mg/L
	Kr	83	29.667	-14.67				mg/L
	Br	81	11218.956	1260.00				mg/L
	P	31	9278.313	-5597.43				mg/L
	S	34	1014682.954	797789.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.795			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.693			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.565			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		91.785			
⌈	Na	23					

Sample ID: L1011081803
Report Date/Time: Monday, November 29, 2010 16:59:14
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011081803
Report Date/Time: Monday, November 29, 2010 16:59:14
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011081804

Sample Date/Time: Monday, November 29, 2010 17:03:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 33
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36801.009	0.03				ug/L
|	Be	9	4.000	0.00	0.0011	0.009	812.585	ug/L
|	Al	27	22107.750	0.07	2.6968	0.065	2.413	ug/L
⌊>	Sc	45	238920.473	238920.47				ug/L
⌈	Ti	49	683.425	0.00	0.8578	0.171	19.956	ug/L
|	V	51	4834.712	0.01	0.2592	0.007	2.586	ug/L
|	Cr	52	9530.302	0.00	0.1872	0.013	7.135	ug/L
|	Cr	53	206.690	-0.00	-0.0962	0.052	54.181	ug/L
|	Mn	55	495355.757	1.43	40.7847	1.291	3.166	ug/L
|	Co	59	1608.812	0.00	0.1281	0.007	5.538	ug/L
|	Ni	60	36295.473	0.10	16.7563	0.526	3.137	ug/L
|	Cu	65	638.693	0.00	0.2044	0.008	4.002	ug/L
|	Zn	66	9684.119	0.01	4.8303	0.227	4.708	ug/L
|>	Ge	72	345683.560	345683.56				ug/L
|	As	75	133.816	0.00	0.3409	0.124	36.286	ug/L
|	Se	77	863.458	0.00	12.5922	2.114	16.789	ug/L
|	Se	82	909.741	0.00	11.1804	0.372	3.329	ug/L
⌊	Rb	85	786.039	0.00				mg/L
	Y	89	208519.739	-49727.86				ug/L
	Rh	103	24.000	16.33				ug/L
⌈	Mo	98	399.615	0.00	0.1875	0.008	4.131	ug/L
|	Ag	107	47.667	0.00	-0.0065	0.001	18.338	ug/L
|	Cd	114	8.402	-0.00	-0.0096	0.006	63.339	ug/L
|>	In	115	290587.420	290587.42				ug/L
|	Sn	118	549.882	-0.00	-0.2499	0.007	2.988	ug/L
⌊	Sb	123	98.204	0.00	0.0569	0.004	6.375	ug/L
⌈	Ba	135	5096.349	0.01	3.5058	0.012	0.356	ug/L
|	Ce	140	23.336	0.00				ug/L
⌊>	Tb	159	400173.504	400173.50				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	106.002	0.00	0.0162	0.003	20.571	ug/L
|	Tl	205	326.705	0.00	0.0026	0.002	78.980	ug/L
|	Pb	206	387.678	-0.00	-0.0506	0.001	2.760	ug/L
|	Pb	207	322.008	-0.00	-0.0260	0.001	4.099	ug/L
|	Pb	208	1579.400	-0.00	-0.0375	0.000	0.639	ug/L
|	U	238	6472.826	0.02	0.2484	0.005	2.095	ug/L
⌊>	Bi	209	379360.987	379360.99				ug/L

Sample ID: L1011081804
Report Date/Time: Monday, November 29, 2010 17:06:01
Page 1

Approved: November 30, 2010

⌈	Na	23	6916751.542	28.87	1.2762	0.021	1.670	mg/L
|	Mg	24	23997871.061	100.44	6.7251	0.051	0.757	mg/L
|	K	39	2931844.305	10.70	0.2858	0.008	2.929	mg/L
|	Ca	43	374614.767	1.57	19.8279	0.508	2.563	mg/L
|	Fe	54	40421.011	-0.03	-0.0105	0.001	6.725	mg/L
|	Fe	57	24736.483	0.08	0.0677	0.007	10.523	mg/L
⌊>	Sc-1	45	238920.473	238920.47				mg/L
	Cl	35	37981.338	7381.25				mg/L
	Kr	83	36.000	-8.33				mg/L
	Br	81	14798.276	4839.32				mg/L
	P	31	8202.032	-6673.71				mg/L
	S	34	1010991.832	794098.56				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.850			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.812			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		89.248			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		88.330			
⌈	Na	23					

Sample ID: L1011081804
Report Date/Time: Monday, November 29, 2010 17:06:01

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011081804
Report Date/Time: Monday, November 29, 2010 17:06:01
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011081805

Sample Date/Time: Monday, November 29, 2010 17:10:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 34
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40381.381	0.03				ug/L
|	Be	9	9.333	0.00	0.0132	0.008	60.170	ug/L
|	Al	27	58031.994	0.19	7.9037	2.957	37.408	ug/L
⌊>	Sc	45	262639.246	262639.25				ug/L
⌈	Ti	49	880.127	0.00	1.0852	0.094	8.619	ug/L
|	V	51	4531.585	0.00	0.1855	0.011	6.075	ug/L
|	Cr	52	9971.404	0.00	0.1392	0.023	16.877	ug/L
|	Cr	53	253.362	-0.00	-0.0672	0.087	130.164	ug/L
|	Mn	55	224713.649	0.60	16.9781	0.223	1.311	ug/L
|	Co	59	773.038	0.00	0.0401	0.003	8.519	ug/L
|	Ni	60	30626.468	0.08	12.9850	0.199	1.532	ug/L
|	Cu	65	698.031	0.00	0.2057	0.009	4.256	ug/L
|	Zn	66	12925.477	0.02	6.6827	0.136	2.036	ug/L
|>	Ge	72	376142.588	376142.59				ug/L
|	As	75	201.449	0.00	0.4037	0.097	23.936	ug/L
|	Se	77	530.067	0.00	6.7561	1.460	21.617	ug/L
|	Se	82	617.792	0.00	6.9347	0.271	3.901	ug/L
⌊	Rb	85	911.051	0.00				mg/L
	Y	89	228360.803	-29886.80				ug/L
	Rh	103	28.334	20.67				ug/L
⌈	Mo	98	320.497	0.00	0.1298	0.011	8.428	ug/L
|	Ag	107	42.001	0.00	-0.0087	0.001	11.297	ug/L
|	Cd	114	41.773	0.00	0.0203	0.010	46.877	ug/L
|>	In	115	319022.855	319022.85				ug/L
|	Sn	118	555.215	-0.00	-0.2636	0.003	1.243	ug/L
⌊	Sb	123	90.041	0.00	0.0515	0.003	5.451	ug/L
⌈	Ba	135	5384.837	0.01	3.3549	0.016	0.486	ug/L
|	Ce	140	286.699	0.00				ug/L
⌊>	Tb	159	441729.644	441729.64				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	142.669	0.00	0.0201	0.001	7.081	ug/L
|	Tl	205	363.376	0.00	0.0031	0.005	154.656	ug/L
|	Pb	206	552.021	-0.00	-0.0281	0.005	16.504	ug/L
|	Pb	207	448.015	-0.00	-0.0074	0.004	60.539	ug/L
|	Pb	208	2133.778	-0.00	-0.0201	0.001	4.718	ug/L
|	U	238	6620.257	0.02	0.2350	0.002	0.781	ug/L
⌊>	Bi	209	411901.163	411901.16				ug/L

Sample ID: L1011081805
Report Date/Time: Monday, November 29, 2010 17:12:48
Page 1

Approved: November 30, 2010

⌈	Na	23	7531736.507	28.61	1.2649	0.044	3.514	mg/L
|	Mg	24	26577958.455	101.24	6.7786	0.178	2.629	mg/L
|	K	39	3243854.936	10.79	0.2881	0.008	2.794	mg/L
|	Ca	43	423776.603	1.61	20.4130	0.557	2.727	mg/L
|	Fe	54	44787.714	-0.03	-0.0100	0.001	13.222	mg/L
|	Fe	57	28363.067	0.08	0.0720	0.008	10.696	mg/L
⌊>	Sc-1	45	262639.246	262639.25				mg/L
	Cl	35	37531.634	6931.55				mg/L
	Kr	83	27.000	-17.33				mg/L
	Br	81	12101.320	2142.36				mg/L
	P	31	10442.791	-4432.96				mg/L
	S	34	1096786.063	879892.79				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.150			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.307			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.516			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.906			
⌈	Na	23					

Sample ID: L1011081805
Report Date/Time: Monday, November 29, 2010 17:12:48
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011081805
Report Date/Time: Monday, November 29, 2010 17:12:48
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011081806

Sample Date/Time: Monday, November 29, 2010 17:17:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 35
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	36734.281	0.03				ug/L
|	Be	9	5.333	0.00	0.0043	0.011	256.777	ug/L
|	Al	27	38758.332	0.13	5.3039	0.131	2.479	ug/L
⌊>	Sc	45	248090.978	248090.98				ug/L
⌈	Ti	49	656.754	0.00	0.7666	0.046	5.982	ug/L
|	V	51	3664.226	0.00	0.1157	0.007	6.478	ug/L
|	Cr	52	9216.337	0.00	0.1019	0.012	12.163	ug/L
|	Cr	53	223.358	-0.00	-0.0865	0.028	32.388	ug/L
|	Mn	55	173652.456	0.48	13.7463	0.339	2.465	ug/L
|	Co	59	661.695	0.00	0.0330	0.002	4.948	ug/L
|	Ni	60	27681.881	0.08	12.3021	0.346	2.814	ug/L
|	Cu	65	532.686	0.00	0.1464	0.009	6.214	ug/L
|	Zn	66	3343.926	-0.01	-0.6241	0.087	14.006	ug/L
|>	Ge	72	358803.000	358803.00				ug/L
|	As	75	45.553	0.00	0.2304	0.075	32.458	ug/L
|	Se	77	420.051	0.00	5.4705	0.716	13.090	ug/L
|	Se	82	454.402	0.00	5.3211	0.510	9.576	ug/L
⌊	Rb	85	816.708	0.00				mg/L
	Y	89	217171.197	-41076.41				ug/L
	Rh	103	20.667	13.00				ug/L
⌈	Mo	98	274.235	0.00	0.1162	0.011	9.832	ug/L
|	Ag	107	35.000	0.00	-0.0097	0.001	13.359	ug/L
|	Cd	114	8.895	-0.00	-0.0094	0.009	95.749	ug/L
|>	In	115	299100.402	299100.40				ug/L
|	Sn	118	525.214	-0.00	-0.2622	0.002	0.685	ug/L
⌊	Sb	123	76.829	0.00	0.0491	0.002	3.130	ug/L
⌈	Ba	135	5019.977	0.01	3.3328	0.062	1.860	ug/L
|	Ce	140	300.035	0.00				ug/L
⌊>	Tb	159	414563.795	414563.79				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	28.000	0.00	0.0041	0.001	23.894	ug/L
|	Tl	205	43.338	-0.00	-0.0153	0.001	8.205	ug/L
|	Pb	206	444.681	-0.00	-0.0432	0.004	8.854	ug/L
|	Pb	207	369.011	-0.00	-0.0193	0.006	32.598	ug/L
|	Pb	208	1733.743	-0.00	-0.0335	0.004	10.688	ug/L
|	U	238	5830.758	0.01	0.2175	0.003	1.279	ug/L
⌊>	Bi	209	394765.538	394765.54				ug/L

Sample ID: L1011081806
Report Date/Time: Monday, November 29, 2010 17:19:31
Page 1

Approved: November 30, 2010

⌈	Na	23	6781908.162	27.27	1.2056	0.048	3.994	mg/L
|	Mg	24	24205000.922	97.62	6.5359	0.229	3.511	mg/L
|	K	39	2912883.024	10.18	0.2714	0.011	4.025	mg/L
|	Ca	43	375182.421	1.51	19.1299	0.329	1.720	mg/L
|	Fe	54	39917.813	-0.04	-0.0136	0.003	24.028	mg/L
|	Fe	57	25735.659	0.08	0.0680	0.005	7.283	mg/L
⌊>	Sc-1	45	248090.978	248090.98				mg/L
	Cl	35	39386.757	8786.67				mg/L
	Kr	83	32.334	-12.00				mg/L
	Br	81	10259.267	300.31				mg/L
	P	31	7081.846	-7793.90				mg/L
	S	34	1008383.722	791490.45				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.994			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.356			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.458			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		91.916			
⌈	Na	23					

Sample ID: L1011081806
Report Date/Time: Monday, November 29, 2010 17:19:31
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011081807

Sample Date/Time: Monday, November 29, 2010 17:24:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 36
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37989.083	0.03				ug/L
|	Be	9	6.667	0.00	0.0075	0.006	75.723	ug/L
|	Al	27	262965.763	1.04	42.3977	6.304	14.869	ug/L
⌊>	Sc	45	247799.951	247799.95				ug/L
⌈	Ti	49	1380.234	0.00	2.0601	0.283	13.747	ug/L
|	V	51	7367.018	0.01	0.5197	0.004	0.785	ug/L
|	Cr	52	12130.809	0.01	0.4925	0.025	5.108	ug/L
|	Cr	53	636.752	0.00	0.3691	0.186	50.343	ug/L
|	Mn	55	232740.717	0.66	18.7049	0.597	3.194	ug/L
|	Co	59	978.724	0.00	0.0642	0.005	8.242	ug/L
|	Ni	60	31665.097	0.09	14.2810	0.479	3.357	ug/L
|	Cu	65	911.384	0.00	0.3210	0.015	4.555	ug/L
|	Zn	66	27549.506	0.06	19.3871	0.358	1.848	ug/L
|>	Ge	72	353599.174	353599.17				ug/L
|	As	75	25.005	0.00	0.2084	0.349	167.473	ug/L
|	Se	77	1253.538	0.00	18.1957	1.678	9.223	ug/L
|	Se	82	1436.813	0.00	17.3234	0.387	2.236	ug/L
⌊	Rb	85	1441.452	0.00				mg/L
	Y	89	216145.875	-42101.73				ug/L
	Rh	103	20.667	13.00				ug/L
⌈	Mo	98	272.089	0.00	0.1181	0.008	7.126	ug/L
|	Ag	107	32.000	0.00	-0.0102	0.001	12.182	ug/L
|	Cd	114	118.837	0.00	0.1009	0.013	13.180	ug/L
|>	In	115	292892.386	292892.39				ug/L
|	Sn	118	507.480	-0.00	-0.2642	0.009	3.302	ug/L
⌊	Sb	123	65.831	0.00	0.0460	0.004	8.565	ug/L
⌈	Ba	135	4885.242	0.01	3.2881	0.084	2.566	ug/L
|	Ce	140	1493.595	0.00				ug/L
⌊>	Tb	159	408826.738	408826.74				ug/L
⌈	Ho	165	53.339	0.00				ug/L
|	Tl	203	291.007	0.00	0.0430	0.002	5.363	ug/L
|	Tl	205	733.434	0.00	0.0265	0.007	25.813	ug/L
|	Pb	206	598.024	0.00	-0.0150	0.003	22.310	ug/L
|	Pb	207	505.685	0.00	0.0083	0.005	64.643	ug/L
|	Pb	208	2339.130	0.00	-0.0067	0.002	35.366	ug/L
|	U	238	5709.353	0.01	0.2146	0.003	1.542	ug/L
⌊>	Bi	209	392308.691	392308.69				ug/L

Sample ID: L1011081807
Report Date/Time: Monday, November 29, 2010 17:26:15
Page 1

Approved: November 30, 2010

⌈	Na	23	6915482.428	27.83	1.2301	0.052	4.202	mg/L
|	Mg	24	25043251.298	101.07	6.7670	0.145	2.137	mg/L
|	K	39	3109950.269	10.98	0.2935	0.007	2.515	mg/L
|	Ca	43	395100.320	1.59	20.1656	0.573	2.843	mg/L
|	Fe	54	57372.972	0.03	0.0132	0.003	24.076	mg/L
|	Fe	57	33546.496	0.11	0.0971	0.013	12.962	mg/L
⌊>	Sc-1	45	247799.951	247799.95				mg/L
	Cl	35	51254.420	20654.33				mg/L
	Kr	83	35.667	-8.67				mg/L
	Br	81	11305.723	1346.76				mg/L
	P	31	12790.204	-2085.54				mg/L
	S	34	1010309.341	793416.07				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.747			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		87.501			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.178			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		91.344			
⌈	Na	23					

Sample ID: L1011081807
Report Date/Time: Monday, November 29, 2010 17:26:15
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011081808

Sample Date/Time: Monday, November 29, 2010 17:30:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 37
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34074.740	0.02				ug/L
|	Be	9	4.667	0.00	0.0031	0.013	417.300	ug/L
|	Al	27	22942.986	0.07	2.8019	0.253	9.042	ug/L
⌊>	Sc	45	241586.078	241586.08				ug/L
⌈	Ti	49	660.088	0.00	0.7991	0.154	19.265	ug/L
|	V	51	3616.801	0.00	0.1195	0.001	0.536	ug/L
|	Cr	52	9276.728	0.00	0.1365	0.010	7.584	ug/L
|	Cr	53	290.033	-0.00	-0.0075	0.046	620.136	ug/L
|	Mn	55	198163.722	0.56	16.0555	0.727	4.528	ug/L
|	Co	59	2543.683	0.01	0.2160	0.011	5.096	ug/L
|	Ni	60	24149.411	0.07	10.9751	0.566	5.156	ug/L
|	Cu	65	499.684	0.00	0.1367	0.023	17.055	ug/L
|	Zn	66	3376.604	-0.01	-0.5335	0.051	9.626	ug/L
|>	Ge	72	350710.548	350710.55				ug/L
|	As	75	18.776	0.00	0.1987	0.068	34.209	ug/L
|	Se	77	413.383	0.00	5.5132	0.748	13.570	ug/L
|	Se	82	419.716	0.00	5.0199	0.387	7.707	ug/L
⌊	Rb	85	752.036	0.00				mg/L
	Y	89	207988.688	-50258.92				ug/L
	Rh	103	21.000	13.33				ug/L
⌈	Mo	98	228.831	0.00	0.0974	0.010	10.080	ug/L
|	Ag	107	33.000	0.00	-0.0099	0.002	18.997	ug/L
|	Cd	114	6.399	-0.00	-0.0115	0.004	31.520	ug/L
|>	In	115	287316.351	287316.35				ug/L
|	Sn	118	459.611	-0.00	-0.2762	0.004	1.453	ug/L
⌊	Sb	123	75.162	0.00	0.0496	0.001	1.603	ug/L
⌈	Ba	135	4335.984	0.01	3.0042	0.112	3.724	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	396837.921	396837.92				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	23.334	-0.00	0.0035	0.000	2.420	ug/L
|	Tl	205	43.338	-0.00	-0.0152	0.001	4.435	ug/L
|	Pb	206	423.680	-0.00	-0.0454	0.005	11.224	ug/L
|	Pb	207	350.676	-0.00	-0.0215	0.003	14.423	ug/L
|	Pb	208	1674.072	-0.00	-0.0346	0.002	5.040	ug/L
|	U	238	4983.293	0.01	0.1923	0.008	3.998	ug/L
⌊>	Bi	209	386548.914	386548.91				ug/L

Sample ID: L1011081808
Report Date/Time: Monday, November 29, 2010 17:32:59
Page 1

Approved: November 30, 2010

⌈	Na	23	6441567.435	26.63	1.1770	0.103	8.786	mg/L
|	Mg	24	23162400.951	96.01	6.4279	0.445	6.919	mg/L
|	K	39	2821478.643	10.12	0.2699	0.020	7.556	mg/L
|	Ca	43	369354.211	1.53	19.3624	1.524	7.869	mg/L
|	Fe	54	37245.445	-0.04	-0.0162	0.002	11.489	mg/L
|	Fe	57	22694.674	0.07	0.0590	0.005	8.836	mg/L
⌊>	Sc-1	45	241586.078	241586.08				mg/L
	Cl	35	37359.005	6758.92				mg/L
	Kr	83	34.334	-10.00				mg/L
	Br	81	11512.624	1553.67				mg/L
	P	31	5969.784	-8905.96				mg/L
	S	34	955916.091	739022.82				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.055			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		85.835			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		88.505			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		90.003			
⌈	Na	23					

Sample ID: L1011081808
Report Date/Time: Monday, November 29, 2010 17:32:59
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011081808
Report Date/Time: Monday, November 29, 2010 17:32:59
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011081809

Sample Date/Time: Monday, November 29, 2010 17:37:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28674.520	0.01				ug/L
|	Be	9	5.333	0.00	0.0061	0.012	198.054	ug/L
|	Al	27	37771.433	0.15	6.0628	0.458	7.559	ug/L
⌊>	Sc	45	216042.273	216042.27				ug/L
⌈	Ti	49	556.738	0.00	0.7250	0.102	14.000	ug/L
|	V	51	3442.841	0.00	0.1429	0.012	8.048	ug/L
|	Cr	52	8566.421	0.00	0.1701	0.021	12.071	ug/L
|	Cr	53	266.697	0.00	0.0007	0.066	8849.499	ug/L
|	Mn	55	528362.288	1.67	47.7009	1.378	2.890	ug/L
|	Co	59	1356.439	0.00	0.1162	0.006	5.044	ug/L
|	Ni	60	13411.133	0.04	6.7655	0.140	2.077	ug/L
|	Cu	65	532.353	0.00	0.1791	0.004	2.358	ug/L
|	Zn	66	8840.331	0.01	4.8399	0.098	2.023	ug/L
|>	Ge	72	315105.645	315105.65				ug/L
|	As	75	60.340	0.00	0.2588	0.077	29.595	ug/L
|	Se	77	203.356	0.00	2.6485	0.316	11.930	ug/L
|	Se	82	192.735	0.00	2.5098	0.096	3.823	ug/L
⌊	Rb	85	734.701	0.00				mg/L
	Y	89	184767.542	-73480.06				ug/L
	Rh	103	15.667	8.00				ug/L
⌈	Mo	98	270.760	0.00	0.1410	0.009	6.416	ug/L
|	Ag	107	26.000	0.00	-0.0106	0.001	9.665	ug/L
|	Cd	114	20.440	0.00	0.0061	0.013	209.253	ug/L
|>	In	115	251071.078	251071.08				ug/L
|	Sn	118	423.476	-0.00	-0.2682	0.009	3.339	ug/L
⌊	Sb	123	66.621	0.00	0.0498	0.002	4.844	ug/L
⌈	Ba	135	4317.310	0.01	3.4541	0.067	1.954	ug/L
|	Ce	140	350.041	0.00				ug/L
⌊>	Tb	159	343877.099	343877.10				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	56.334	0.00	0.0094	0.001	11.292	ug/L
|	Tl	205	126.680	0.00	-0.0092	0.002	23.160	ug/L
|	Pb	206	540.687	0.00	-0.0132	0.005	35.377	ug/L
|	Pb	207	440.681	0.00	0.0064	0.006	92.842	ug/L
|	Pb	208	2085.106	0.00	-0.0064	0.002	28.138	ug/L
|	U	238	5599.957	0.02	0.2349	0.003	1.364	ug/L
⌊>	Bi	209	348734.596	348734.60				ug/L

Sample ID: L1011081809
Report Date/Time: Monday, November 29, 2010 17:39:44
Page 1

Approved: November 30, 2010

⌈	Na	23	5596218.419	25.82	1.1410	0.062	5.440	mg/L
|	Mg	24	20212538.100	93.54	6.2626	0.323	5.150	mg/L
|	K	39	2655229.733	10.72	0.2863	0.011	3.833	mg/L
|	Ca	43	308958.351	1.43	18.0813	0.771	4.265	mg/L
|	Fe	54	81338.641	0.18	0.0683	0.008	12.388	mg/L
|	Fe	57	38923.059	0.15	0.1382	0.010	7.066	mg/L
⌊>	Sc-1	45	216042.273	216042.27				mg/L
	Cl	35	39016.651	8416.57				mg/L
	Kr	83	31.000	-13.33				mg/L
	Br	81	10009.011	50.05				mg/L
	P	31	5999.811	-8875.94				mg/L
	S	34	819617.494	602724.22				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		75.521			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		75.007			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		76.693			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		81.199			
⌈	Na	23					

Sample ID: L1011081809
Report Date/Time: Monday, November 29, 2010 17:39:44
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011081810

Sample Date/Time: Monday, November 29, 2010 17:44:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 39
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	28156.329	0.02				ug/L
|	Be	9	5.333	0.00	0.0072	0.013	182.010	ug/L
|	Al	27	80040.318	0.37	15.0002	2.649	17.656	ug/L
⌊>	Sc	45	203925.813	203925.81				ug/L
⌈	Ti	49	486.727	0.00	0.6522	0.049	7.480	ug/L
|	V	51	3301.683	0.00	0.1524	0.007	4.781	ug/L
|	Cr	52	8538.062	0.01	0.2476	0.011	4.535	ug/L
|	Cr	53	230.026	-0.00	-0.0259	0.027	104.895	ug/L
|	Mn	55	522562.801	1.77	50.3542	1.128	2.241	ug/L
|	Co	59	1223.420	0.00	0.1107	0.002	1.384	ug/L
|	Ni	60	11297.162	0.04	6.0773	0.229	3.763	ug/L
|	Cu	65	445.014	0.00	0.1499	0.004	2.724	ug/L
|	Zn	66	2767.744	-0.01	-0.6090	0.077	12.706	ug/L
|>	Ge	72	295403.280	295403.28				ug/L
|	As	75	-27.986	0.00	0.1361	0.040	29.423	ug/L
|	Se	77	100.011	0.00	1.0049	0.187	18.651	ug/L
|	Se	82	69.329	0.00	0.8902	0.075	8.448	ug/L
⌊	Rb	85	754.369	0.00				mg/L
	Y	89	173275.547	-84972.06				ug/L
	Rh	103	21.667	14.00				ug/L
⌈	Mo	98	267.093	0.00	0.1534	0.012	7.846	ug/L
|	Ag	107	20.667	0.00	-0.0115	0.001	8.807	ug/L
|	Cd	114	7.226	-0.00	-0.0090	0.007	77.169	ug/L
|>	In	115	231014.106	231014.11				ug/L
|	Sn	118	401.208	-0.00	-0.2639	0.002	0.824	ug/L
⌊	Sb	123	51.621	0.00	0.0459	0.001	2.372	ug/L
⌈	Ba	135	4268.620	0.01	3.7156	0.060	1.624	ug/L
|	Ce	140	1273.542	0.00				ug/L
⌊>	Tb	159	316371.079	316371.08				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	21.667	-0.00	0.0039	0.000	4.507	ug/L
|	Tl	205	43.338	-0.00	-0.0147	0.001	7.620	ug/L
|	Pb	206	382.344	-0.00	-0.0396	0.006	14.989	ug/L
|	Pb	207	338.342	-0.00	-0.0110	0.006	58.886	ug/L
|	Pb	208	1582.399	-0.00	-0.0254	0.004	17.391	ug/L
|	U	238	5664.661	0.02	0.2533	0.003	1.049	ug/L
⌊>	Bi	209	325000.202	325000.20				ug/L

Sample ID: L1011081810
Report Date/Time: Monday, November 29, 2010 17:46:29
Page 1

Approved: November 30, 2010

Na	23	5503632.575	26.92	1.1897	0.020	1.687	mg/L
Mg	24	19860834.377	97.44	6.5237	0.202	3.096	mg/L
K	39	2603248.806	11.20	0.2996	0.014	4.820	mg/L
Ca	43	301468.324	1.48	18.7044	0.734	3.925	mg/L
Fe	54	88580.610	0.24	0.0905	0.006	6.832	mg/L
Fe	57	42594.790	0.18	0.1647	0.002	1.029	mg/L
> Sc-1	45	203925.813	203925.81				mg/L
Cl	35	42384.981	11784.90				mg/L
Kr	83	39.000	-5.33				mg/L
Br	81	8891.953	-1067.00				mg/L
P	31	5336.763	-9538.98				mg/L
S	34	809408.111	592514.84				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		70.799			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		69.015			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		70.558			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		75.672			
Na	23					

Sample ID: L1011081810
Report Date/Time: Monday, November 29, 2010 17:46:29
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011081810
Report Date/Time: Monday, November 29, 2010 17:46:29
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 29, 2010 17:51:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	37905.274	0.02				ug/L
|	Be	9	21359.455	0.08	49.3895	1.051	2.128	ug/L
|	Al	27	321658.186	1.15	47.0637	1.743	3.703	ug/L
⌊>	Sc	45	273508.542	273508.54				ug/L
⌈	Ti	49	61900.509	0.16	102.5041	1.554	1.516	ug/L
|	V	51	500911.133	1.33	50.4011	1.239	2.458	ug/L
|	Cr	52	429503.709	1.12	50.6920	0.846	1.668	ug/L
|	Cr	53	49560.823	0.13	50.7747	0.887	1.747	ug/L
|	Mn	55	688047.224	1.83	52.0963	0.757	1.453	ug/L
|	Co	59	559120.485	1.49	50.2975	0.427	0.849	ug/L
|	Ni	60	116561.951	0.31	49.5534	0.580	1.171	ug/L
|	Cu	65	113117.313	0.30	48.0114	0.281	0.586	ug/L
|	Zn	66	65800.437	0.16	47.7139	0.566	1.187	ug/L
|>	Ge	72	375966.288	375966.29				ug/L
|	As	75	42503.711	0.11	48.1768	0.371	0.770	ug/L
|	Se	77	3194.163	0.01	44.7522	1.174	2.622	ug/L
|	Se	82	4366.091	0.01	49.7326	0.494	0.994	ug/L
⌊	Rb	85	1708.496	0.00				mg/L
	Y	89	230103.444	-28144.16				ug/L
	Rh	103	21.667	14.00				ug/L
⌈	Mo	98	189866.311	0.60	92.8888	1.670	1.798	ug/L
|	Ag	107	224603.280	0.71	47.6206	0.735	1.543	ug/L
|	Cd	114	53689.910	0.17	49.5044	0.346	0.698	ug/L
|>	In	115	317870.758	317870.76				ug/L
|	Sn	118	176024.517	0.55	49.2848	0.343	0.696	ug/L
⌊	Sb	123	161440.744	0.51	48.7410	0.369	0.758	ug/L
⌈	Ba	135	72566.403	0.16	45.3881	0.316	0.695	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	442759.679	442759.68				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	342478.558	0.82	47.4297	0.652	1.374	ug/L
|	Tl	205	839944.294	2.01	47.6584	0.306	0.641	ug/L
|	Pb	206	280069.938	0.67	47.3028	0.670	1.416	ug/L
|	Pb	207	261582.093	0.62	48.7209	0.454	0.931	ug/L
|	Pb	208	1173115.627	2.80	47.7972	0.539	1.127	ug/L
|	U	238	1673404.904	4.00	53.7840	0.959	1.783	ug/L
⌊>	Bi	209	418093.329	418093.33				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 17:53:14
Page 1

Approved: November 30, 2010

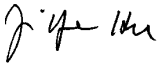
Na	23	29080482.075	106.29	4.7036	0.116	2.470	mg/L	
Mg	24	18812673.873	68.81	4.6067	0.116	2.529	mg/L	
K	39	46280334.548	167.69	4.5991	0.119	2.580	mg/L	
Ca	43	101442.097	0.37	4.6891	0.086	1.824	mg/L	
Fe	54	3494614.979	12.59	4.7902	0.192	4.013	mg/L	
Fe	57	1411594.390	5.14	4.7226	0.089	1.885	mg/L	
Sc-1	45	273508.542	273508.54				mg/L	
Cl	35	19985.954	-10614.13				mg/L	
Kr	83	29.000	-15.33				mg/L	
Br	81	8506.951	-1452.01				mg/L	
P	31	9341.033	-5534.71				mg/L	
S	34	202415.020	-14478.25				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	100.802				
Cr	52	101.384				
Cr	53					
Mn	55	104.193				
Co	59	100.595				
Ni	60	99.107				
Cu	65	96.023				
Zn	66	95.428				
Ge	72		90.108			
As	75	96.354				
Se	77					
Se	82	99.465				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	95.241				
Cd	114	99.009				
In	115		94.963			
Sn	118					
Sb	123	97.482				
Ba	135	90.776				
Ce	140					
Tb	159		98.746			
Ho	165					
Tl	203	94.859				
Tl	205					
Pb	206					
Pb	207					
Pb	208	95.594				
U	238	107.568				
Bi	209		97.348			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 17:53:14

Approved: November 30, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 17:53:14

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 29, 2010 17:57:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	34927.648	0.02				ug/L
|	Be	9	5.333	0.00	0.0037	0.008	200.486	ug/L
|	Al	27	5234.710	-0.01	-0.2512	0.067	26.529	ug/L
⌊>	Sc	45	255540.949	255540.95				ug/L
⌈	Ti	49	156.684	0.00	-0.1064	0.010	9.515	ug/L
|	V	51	2407.991	-0.00	-0.0195	0.008	38.524	ug/L
|	Cr	52	7613.974	-0.00	-0.1080	0.018	16.664	ug/L
|	Cr	53	136.681	-0.00	-0.1812	0.056	30.661	ug/L
|	Mn	55	276.340	-0.00	-0.0214	0.001	5.103	ug/L
|	Co	59	151.669	-0.00	-0.0152	0.001	5.877	ug/L
|	Ni	60	23.667	-0.00	-0.0301	0.004	13.421	ug/L
|	Cu	65	108.002	-0.00	-0.0432	0.002	4.797	ug/L
|	Zn	66	575.689	-0.02	-2.8779	0.012	0.427	ug/L
|>	Ge	72	361686.797	361686.80				ug/L
|	As	75	-138.721	0.00	0.0134	0.042	315.159	ug/L
|	Se	77	60.006	-0.00	0.0793	0.299	377.207	ug/L
|	Se	82	10.415	0.00	0.0060	0.139	2300.932	ug/L
⌊	Rb	85	8.333	-0.00				mg/L
	Y	89	224371.427	-33876.18				ug/L
	Rh	103	5.000	-2.67				ug/L
⌈	Mo	98	1080.705	0.00	0.5225	0.081	15.457	ug/L
|	Ag	107	34.334	0.00	-0.0100	0.001	11.733	ug/L
|	Cd	114	10.990	-0.00	-0.0075	0.006	74.099	ug/L
|>	In	115	306090.927	306090.93				ug/L
|	Sn	118	1063.657	-0.00	-0.1079	0.015	13.731	ug/L
⌊	Sb	123	212.042	0.00	0.0909	0.009	9.387	ug/L
⌈	Ba	135	9.333	-0.00	-0.0166	0.001	5.623	ug/L
|	Ce	140	13.335	0.00				ug/L
⌊>	Tb	159	425811.184	425811.18				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	17.000	-0.00	0.0025	0.000	10.205	ug/L
|	Tl	205	36.670	-0.00	-0.0157	0.001	5.734	ug/L
|	Pb	206	406.679	-0.00	-0.0525	0.001	2.224	ug/L
|	Pb	207	307.008	-0.00	-0.0337	0.002	5.556	ug/L
|	Pb	208	1565.398	-0.00	-0.0432	0.001	2.011	ug/L
|	U	238	4050.215	0.01	0.1522	0.026	17.285	ug/L
⌊>	Bi	209	408856.814	408856.81				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 17:59:57
Page 1

Approved: November 30, 2010

⌈	Na	23	14071.303	-0.02	-0.0030	0.000	0.838	mg/L
|	Mg	24	393.380	0.00	-0.0024	0.000	0.051	mg/L
|	K	39	434905.491	0.13	-0.0046	0.001	19.555	mg/L
|	Ca	43	143.349	-0.00	0.0035	0.002	45.221	mg/L
|	Fe	54	48267.243	-0.01	-0.0030	0.001	47.809	mg/L
|	Fe	57	7436.842	0.00	-0.0008	0.001	114.140	mg/L
⌊>	Sc-1	45	255540.949	255540.95				mg/L
	Cl	35	20191.699	-10408.39				mg/L
	Kr	83	29.000	-15.33				mg/L
	Br	81	8330.803	-1628.16				mg/L
	P	31	9770.784	-5104.96				mg/L
	S	34	191990.825	-24902.44				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.685			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.444			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.966			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.197			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 17:59:57

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 17:59:57

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077902

Sample Date/Time: Monday, November 29, 2010 18:04:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 40
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41134.560	0.03				ug/L
|	Be	9	5.333	0.00	0.0027	0.009	345.476	ug/L
|	Al	27	289909.793	1.02	41.7721	1.439	3.445	ug/L
⌊>	Sc	45	276864.615	276864.61				ug/L
⌈	Ti	49	876.793	0.00	1.1634	0.108	9.249	ug/L
|	V	51	17167.567	0.04	1.5643	0.030	1.943	ug/L
|	Cr	52	14767.043	0.02	0.8204	0.028	3.440	ug/L
|	Cr	53	920.135	0.00	0.6750	0.090	13.276	ug/L
|	Mn	55	103426.447	0.29	8.2455	0.204	2.472	ug/L
|	Co	59	4638.789	0.01	0.4122	0.008	1.868	ug/L
|	Ni	60	5084.343	0.01	2.2474	0.037	1.652	ug/L
|	Cu	65	17233.346	0.05	7.6597	0.091	1.194	ug/L
|	Zn	66	24970.392	0.05	17.1500	0.292	1.701	ug/L
|>	Ge	72	355455.698	355455.70				ug/L
|	As	75	463.949	0.00	0.7302	0.033	4.572	ug/L
|	Se	77	80.008	0.00	0.3960	0.262	66.154	ug/L
|	Se	82	54.699	0.00	0.5430	0.048	8.816	ug/L
⌊	Rb	85	57667.381	0.16				mg/L
	Y	89	224467.233	-33780.37				ug/L
	Rh	103	91.001	83.33				ug/L
⌈	Mo	98	3671.574	0.01	1.8396	0.027	1.451	ug/L
|	Ag	107	59.001	0.00	-0.0046	0.001	14.659	ug/L
|	Cd	114	39.703	0.00	0.0199	0.016	79.359	ug/L
|>	In	115	306068.941	306068.94				ug/L
|	Sn	118	2862.943	0.00	0.4198	0.014	3.365	ug/L
⌊	Sb	123	510.596	0.00	0.1845	0.007	4.003	ug/L
⌈	Ba	135	42259.194	0.10	27.0169	0.208	0.769	ug/L
|	Ce	140	1350.227	0.00				ug/L
⌊>	Tb	159	433046.660	433046.66				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	32.334	0.00	0.0049	0.000	5.747	ug/L
|	Tl	205	86.676	0.00	-0.0125	0.002	19.856	ug/L
|	Pb	206	20410.682	0.05	3.6579	0.023	0.621	ug/L
|	Pb	207	16212.964	0.04	3.2173	0.044	1.354	ug/L
|	Pb	208	78591.957	0.20	3.4023	0.019	0.566	ug/L
|	U	238	9099.229	0.02	0.3390	0.003	0.967	ug/L
⌊>	Bi	209	382188.726	382188.73				ug/L

Sample ID: L1011077902
Report Date/Time: Monday, November 29, 2010 18:06:43
Page 1

Approved: November 30, 2010

Na	23	70577977.183	254.97	11.2861	0.470	4.168	mg/L
Mg	24	19710699.981	71.21	4.7670	0.091	1.898	mg/L
K	39	58823797.298	210.98	5.7885	0.225	3.880	mg/L
Ca	43	470804.347	1.70	21.5137	0.796	3.699	mg/L
Fe	54	197288.666	0.51	0.1963	0.009	4.781	mg/L
Fe	57	71220.048	0.23	0.2092	0.010	4.800	mg/L
> Sc-1	45	276864.615	276864.61				mg/L
Cl	35	244746.715	214146.63				mg/L
Kr	83	34.667	-9.67				mg/L
Br	81	25363.485	15404.53				mg/L
P	31	24408.431	9532.69				mg/L
S	34	494464.071	277570.80				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		85.192			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		91.437			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		96.580			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		88.988			
Na	23					

Sample ID: L1011077902
Report Date/Time: Monday, November 29, 2010 18:06:43
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077903

Sample Date/Time: Monday, November 29, 2010 18:11:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 41
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41017.462	0.03				ug/L
|	Be	9	4.000	0.00	-0.0002	0.009	4591.031	ug/L
|	Al	27	93452.184	0.32	12.9521	0.703	5.424	ug/L
⌊>	Sc	45	272273.661	272273.66				ug/L
⌈	Ti	49	433.386	0.00	0.3904	0.094	24.011	ug/L
|	V	51	24503.892	0.06	2.3673	0.055	2.334	ug/L
|	Cr	52	21160.580	0.04	1.6540	0.016	0.963	ug/L
|	Cr	53	1483.592	0.00	1.3009	0.136	10.466	ug/L
|	Mn	55	78525.620	0.22	6.2946	0.069	1.103	ug/L
|	Co	59	6819.061	0.02	0.6243	0.017	2.694	ug/L
|	Ni	60	4778.857	0.01	2.1249	0.048	2.255	ug/L
|	Cu	65	11665.585	0.03	5.1927	0.048	0.919	ug/L
|	Zn	66	7363.118	0.00	2.7433	0.164	5.978	ug/L
|>	Ge	72	352961.546	352961.55				ug/L
|	As	75	583.917	0.00	0.8784	0.044	5.002	ug/L
|	Se	77	90.009	0.00	0.5567	0.265	47.636	ug/L
|	Se	82	74.474	0.00	0.7887	0.085	10.716	ug/L
⌊	Rb	85	143229.305	0.41				mg/L
	Y	89	221065.746	-37181.86				ug/L
	Rh	103	72.334	64.67				ug/L
⌈	Mo	98	6206.405	0.02	3.1295	0.063	2.012	ug/L
|	Ag	107	34.667	0.00	-0.0099	0.001	10.998	ug/L
|	Cd	114	36.428	0.00	0.0167	0.008	46.057	ug/L
|>	In	115	305867.458	305867.46				ug/L
|	Sn	118	1301.151	-0.00	-0.0378	0.012	31.747	ug/L
⌊	Sb	123	565.516	0.00	0.2018	0.003	1.369	ug/L
⌈	Ba	135	24846.420	0.06	15.8281	0.058	0.364	ug/L
|	Ce	140	180.020	0.00				ug/L
⌊>	Tb	159	434291.284	434291.28				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	24.334	-0.00	0.0038	0.001	18.665	ug/L
|	Tl	205	40.004	-0.00	-0.0153	0.003	16.747	ug/L
|	Pb	206	3840.109	0.01	0.5974	0.015	2.540	ug/L
|	Pb	207	3182.205	0.01	0.5656	0.002	0.361	ug/L
|	Pb	208	15045.279	0.03	0.5721	0.007	1.178	ug/L
|	U	238	10437.549	0.03	0.3907	0.003	0.833	ug/L
⌊>	Bi	209	377409.449	377409.45				ug/L

Sample ID: L1011077903
Report Date/Time: Monday, November 29, 2010 18:13:28
Page 1

Approved: November 30, 2010

Na	23	97979421.212	359.83	15.9286	0.540	3.389	mg/L	
Mg	24	18734826.408	68.81	4.6066	0.107	2.325	mg/L	
K	39	137153599.720	502.21	13.7896	0.269	1.948	mg/L	
Ca	43	359531.516	1.32	16.7001	0.307	1.839	mg/L	
Fe	54	143985.169	0.33	0.1263	0.006	4.394	mg/L	
Fe	57	43190.719	0.13	0.1184	0.002	1.690	mg/L	
Sc-1	45	272273.661	272273.66				mg/L	
Cl	35	231954.784	201354.70				mg/L	
Kr	83	22.334	-22.00				mg/L	
Br	81	25520.556	15561.60				mg/L	
P	31	54476.657	39600.91				mg/L	
S	34	517996.408	301103.14				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		84.594			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		91.377			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		96.858			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		87.875			
Na	23					

Sample ID: L1011077903
Report Date/Time: Monday, November 29, 2010 18:13:28
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011077903
Report Date/Time: Monday, November 29, 2010 18:13:28
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077904

Sample Date/Time: Monday, November 29, 2010 18:18:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 42
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39829.165	0.03				ug/L
|	Be	9	15.333	0.00	0.0259	0.011	41.280	ug/L
|	Al	27	2049841.300	7.44	304.4063	8.424	2.767	ug/L
⌊>	Sc	45	274483.114	274483.11				ug/L
⌈	Ti	49	16331.636	0.05	28.4533	1.306	4.591	ug/L
|	V	51	35542.656	0.09	3.5449	0.092	2.598	ug/L
|	Cr	52	156508.857	0.42	18.9639	0.055	0.289	ug/L
|	Cr	53	17480.355	0.05	18.8162	0.736	3.912	ug/L
|	Mn	55	96195.496	0.27	7.6971	0.048	0.624	ug/L
|	Co	59	19392.649	0.05	1.8243	0.032	1.774	ug/L
|	Ni	60	4911.922	0.01	2.1784	0.021	0.966	ug/L
|	Cu	65	14456.587	0.04	6.4373	0.044	0.683	ug/L
|	Zn	66	70270.403	0.18	54.5575	0.389	0.713	ug/L
|>	Ge	72	354046.094	354046.09				ug/L
|	As	75	30811.151	0.09	37.1276	0.299	0.805	ug/L
|	Se	77	63.340	0.00	0.1531	0.768	501.416	ug/L
|	Se	82	67.720	0.00	0.7036	0.037	5.198	ug/L
⌊	Rb	85	87549.453	0.25				mg/L
	Y	89	225056.910	-33190.69				ug/L
	Rh	103	83.001	75.33				ug/L
⌈	Mo	98	2213.422	0.01	1.0852	0.009	0.816	ug/L
|	Ag	107	288.007	0.00	0.0451	0.005	11.005	ug/L
|	Cd	114	341.680	0.00	0.3053	0.042	13.805	ug/L
|>	In	115	309770.659	309770.66				ug/L
|	Sn	118	4688.299	0.01	0.9387	0.015	1.605	ug/L
⌊	Sb	123	2362.214	0.01	0.7559	0.009	1.256	ug/L
⌈	Ba	135	55788.412	0.13	35.0312	0.300	0.857	ug/L
|	Ce	140	23920.973	0.05				ug/L
⌊>	Tb	159	440981.062	440981.06				ug/L
⌈	Ho	165	120.013	0.00				ug/L
|	Tl	203	50.334	0.00	0.0077	0.001	7.491	ug/L
|	Tl	205	113.345	0.00	-0.0109	0.002	20.963	ug/L
|	Pb	206	255549.284	0.67	47.0814	0.395	0.839	ug/L
|	Pb	207	211793.082	0.55	43.0204	0.411	0.955	ug/L
|	Pb	208	1001393.493	2.61	44.4996	0.421	0.946	ug/L
|	U	238	10498.280	0.03	0.3871	0.002	0.453	ug/L
⌊>	Bi	209	383293.236	383293.24				ug/L

Sample ID: L1011077904
Report Date/Time: Monday, November 29, 2010 18:20:14
Page 1

Approved: November 30, 2010

⌈	Na	23	101999974.900	371.63	16.4506	0.507	3.083	mg/L
|	Mg	24	17519849.909	63.83	4.2726	0.020	0.460	mg/L
|	K	39	94589075.899	343.04	9.4166	0.077	0.816	mg/L
|	Ca	43	476655.208	1.74	21.9602	0.226	1.031	mg/L
|	Fe	54	273872.932	0.80	0.3048	0.006	1.836	mg/L
|	Fe	57	107259.584	0.36	0.3320	0.007	2.201	mg/L
⌊>	Sc-1	45	274483.114	274483.11				mg/L
	Cl	35	216949.471	186349.39				mg/L
	Kr	83	32.334	-12.00				mg/L
	Br	81	32570.992	22612.03				mg/L
	P	31	33333.469	18457.72				mg/L
	S	34	534249.755	317356.49				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.854			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.543			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.350			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.245			
⌈	Na	23					

Sample ID: L1011077904
Report Date/Time: Monday, November 29, 2010 18:20:14
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077905

Sample Date/Time: Monday, November 29, 2010 18:24:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 43
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40381.391	0.03				ug/L
|	Be	9	4.000	0.00	-0.0001	0.009	9769.391	ug/L
|	Al	27	207735.568	0.75	30.4888	1.022	3.351	ug/L
⌊>	Sc	45	269330.636	269330.64				ug/L
⌈	Ti	49	353.375	0.00	0.2503	0.160	63.790	ug/L
|	V	51	29974.358	0.08	2.9662	0.020	0.682	ug/L
|	Cr	52	145196.972	0.39	17.6255	0.014	0.078	ug/L
|	Cr	53	16421.801	0.05	17.7591	0.857	4.825	ug/L
|	Mn	55	19359.918	0.05	1.5238	0.021	1.366	ug/L
|	Co	59	3445.295	0.01	0.3018	0.013	4.285	ug/L
|	Ni	60	3721.397	0.01	1.6507	0.057	3.482	ug/L
|	Cu	65	8016.626	0.02	3.5502	0.041	1.148	ug/L
|	Zn	66	6522.525	-0.00	2.0634	0.060	2.919	ug/L
|>	Ge	72	351972.310	351972.31				ug/L
|	As	75	980.463	0.00	1.3590	0.060	4.387	ug/L
|	Se	77	100.011	0.00	0.7121	0.259	36.331	ug/L
|	Se	82	61.424	0.00	0.6318	0.019	3.051	ug/L
⌊	Rb	85	82826.758	0.24				mg/L
	Y	89	221890.462	-36357.14				ug/L
	Rh	103	82.668	75.00				ug/L
⌈	Mo	98	2321.009	0.01	1.1530	0.003	0.294	ug/L
|	Ag	107	35.334	0.00	-0.0098	0.002	18.382	ug/L
|	Cd	114	24.526	0.00	0.0054	0.005	101.795	ug/L
|>	In	115	306137.953	306137.95				ug/L
|	Sn	118	1746.953	0.00	0.0924	0.005	5.271	ug/L
⌊	Sb	123	443.010	0.00	0.1633	0.004	2.250	ug/L
⌈	Ba	135	49040.789	0.11	31.4198	0.261	0.831	ug/L
|	Ce	140	206.690	0.00				ug/L
⌊>	Tb	159	432134.189	432134.19				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	30.667	0.00	0.0047	0.000	8.688	ug/L
|	Tl	205	60.006	-0.00	-0.0141	0.002	15.848	ug/L
|	Pb	206	6014.536	0.01	0.9943	0.024	2.427	ug/L
|	Pb	207	5009.304	0.01	0.9333	0.004	0.393	ug/L
|	Pb	208	23690.317	0.06	0.9528	0.006	0.598	ug/L
|	U	238	10817.623	0.03	0.4005	0.001	0.324	ug/L
⌊>	Bi	209	381078.515	381078.52				ug/L

Sample ID: L1011077905
Report Date/Time: Monday, November 29, 2010 18:27:01
Page 1

Approved: November 30, 2010

Na	23	115035046.533	427.21	18.9117	0.437	2.311	mg/L	
Mg	24	18654198.677	69.30	4.6389	0.130	2.812	mg/L	
K	39	95825011.220	354.40	9.7288	0.278	2.856	mg/L	
Ca	43	460810.291	1.71	21.6465	0.480	2.218	mg/L	
Fe	54	90059.033	0.14	0.0524	0.004	7.764	mg/L	
Fe	57	26039.918	0.07	0.0615	0.008	13.043	mg/L	
> Sc-1	45	269330.636	269330.64				mg/L	
Cl	35	235265.376	204665.29				mg/L	
Kr	83	28.000	-16.33				mg/L	
Br	81	25056.025	15097.07				mg/L	
P	31	35088.871	20213.12				mg/L	
S	34	520812.801	303919.53				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		84.357			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		91.458			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		96.376			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		88.729			
Na	23					

Sample ID: L1011077905
Report Date/Time: Monday, November 29, 2010 18:27:01

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011077905
Report Date/Time: Monday, November 29, 2010 18:27:01

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011077906

Sample Date/Time: Monday, November 29, 2010 18:31:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 44
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45285.734	0.03				ug/L
|	Be	9	4.667	0.00	0.0004	0.003	597.998	ug/L
|	Al	27	415985.895	1.36	55.7707	1.183	2.122	ug/L
⌊>	Sc	45	299263.627	299263.63				ug/L
⌈	Ti	49	1376.899	0.00	1.9029	0.047	2.476	ug/L
|	V	51	28231.050	0.07	2.5726	0.013	0.498	ug/L
|	Cr	52	25941.198	0.05	2.0524	0.015	0.741	ug/L
|	Cr	53	2120.437	0.00	1.8502	0.098	5.277	ug/L
|	Mn	55	56952.622	0.15	4.2565	0.023	0.534	ug/L
|	Co	59	13928.500	0.04	1.2196	0.012	0.952	ug/L
|	Ni	60	4888.577	0.01	2.0316	0.023	1.124	ug/L
|	Cu	65	10938.088	0.03	4.5431	0.018	0.397	ug/L
|	Zn	66	22762.772	0.04	14.2541	0.089	0.626	ug/L
|>	Ge	72	377357.210	377357.21				ug/L
|	As	75	1151.752	0.00	1.4722	0.034	2.305	ug/L
|	Se	77	90.009	0.00	0.4695	0.499	106.356	ug/L
|	Se	82	81.419	0.00	0.8092	0.167	20.698	ug/L
⌊	Rb	85	97608.026	0.26				mg/L
	Y	89	242936.221	-15311.38				ug/L
	Rh	103	115.669	108.00				ug/L
⌈	Mo	98	2309.633	0.01	1.0234	0.044	4.318	ug/L
|	Ag	107	234.338	0.00	0.0286	0.003	8.879	ug/L
|	Cd	114	111.180	0.00	0.0772	0.009	11.455	ug/L
|>	In	115	342251.918	342251.92				ug/L
|	Sn	118	3054.466	0.00	0.3813	0.013	3.341	ug/L
⌊	Sb	123	512.431	0.00	0.1681	0.008	4.909	ug/L
⌈	Ba	135	46063.323	0.10	26.5312	0.411	1.548	ug/L
|	Ce	140	2243.812	0.00				ug/L
⌊>	Tb	159	480645.781	480645.78				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	23.667	-0.00	0.0034	0.000	13.589	ug/L
|	Tl	205	56.672	-0.00	-0.0146	0.000	2.079	ug/L
|	Pb	206	48601.974	0.12	8.3009	0.096	1.156	ug/L
|	Pb	207	39245.592	0.09	7.4033	0.061	0.818	ug/L
|	Pb	208	188442.354	0.46	7.7678	0.076	0.980	ug/L
|	U	238	10157.925	0.02	0.3532	0.005	1.333	ug/L
⌊>	Bi	209	408493.957	408493.96				ug/L

Sample ID: L1011077906
Report Date/Time: Monday, November 29, 2010 18:33:47
Page 1

Approved: November 30, 2010

⌈	Na	23	108355698.660	362.14	16.0305	0.403	2.511	mg/L
|	Mg	24	21237066.338	70.99	4.7526	0.128	2.685	mg/L
|	K	39	104985661.361	349.36	9.5903	0.241	2.516	mg/L
|	Ca	43	519400.307	1.74	21.9559	0.532	2.422	mg/L
|	Fe	54	202070.739	0.48	0.1822	0.009	5.101	mg/L
|	Fe	57	72875.173	0.22	0.1966	0.005	2.366	mg/L
⌊>	Sc-1	45	299263.627	299263.63				mg/L
	Cl	35	260813.515	230213.43				mg/L
	Kr	83	28.667	-15.67				mg/L
	Br	81	26508.424	16549.47				mg/L
	P	31	49162.563	34286.82				mg/L
	S	34	583740.179	366846.91				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.441			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.247			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		107.196			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.113			
⌈	Na	23					

Sample ID: L1011077906
Report Date/Time: Monday, November 29, 2010 18:33:47
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067807

Sample Date/Time: Monday, November 29, 2010 18:38:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 50

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42490.365	0.04				ug/L
|	Be	9	8.667	0.00	0.0106	0.006	58.286	ug/L
|	Al	27	7602.934	0.00	0.0366	0.161	440.740	ug/L
⌊>	Sc	45	276426.971	276426.97				ug/L
⌈	Ti	49	103.344	0.00	-0.2117	0.026	12.457	ug/L
|	V	51	2568.817	-0.00	-0.0228	0.004	16.020	ug/L
|	Cr	52	8163.080	-0.00	-0.1158	0.018	15.675	ug/L
|	Cr	53	260.030	-0.00	-0.0698	0.079	113.363	ug/L
|	Mn	55	5430.863	0.01	0.3526	0.011	3.146	ug/L
|	Co	59	200.671	-0.00	-0.0121	0.002	12.598	ug/L
|	Ni	60	257.006	0.00	0.0646	0.012	19.231	ug/L
|	Cu	65	157.336	-0.00	-0.0265	0.013	49.792	ug/L
|	Zn	66	4056.197	-0.01	-0.3161	0.063	19.858	ug/L
|>	Ge	72	390944.494	390944.49				ug/L
|	As	75	-41.263	0.00	0.1318	0.064	48.829	ug/L
|	Se	77	230.026	0.00	2.3449	0.036	1.547	ug/L
|	Se	82	211.002	0.00	2.2007	0.215	9.787	ug/L
⌊	Rb	85	150.336	0.00				mg/L
	Y	89	243804.195	-14443.41				ug/L
	Rh	103	5.667	-2.00				ug/L
⌈	Mo	98	1226.279	0.00	0.5179	0.002	0.385	ug/L
|	Ag	107	23.000	0.00	-0.0132	0.001	9.252	ug/L
|	Cd	114	20.255	-0.00	-0.0012	0.003	219.598	ug/L
|>	In	115	350488.842	350488.84				ug/L
|	Sn	118	644.021	-0.00	-0.2548	0.011	4.286	ug/L
⌊	Sb	123	1262.214	0.00	0.3699	0.010	2.718	ug/L
⌈	Ba	135	1094.738	0.00	0.6111	0.022	3.662	ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	478644.333	478644.33				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	30.667	-0.00	0.0041	0.000	6.985	ug/L
|	Tl	205	66.674	-0.00	-0.0143	0.002	13.044	ug/L
|	Pb	206	427.013	-0.00	-0.0545	0.005	8.532	ug/L
|	Pb	207	379.344	-0.00	-0.0252	0.002	9.372	ug/L
|	Pb	208	1728.409	-0.00	-0.0417	0.000	1.080	ug/L
|	U	238	1920.537	0.00	0.0776	0.000	0.365	ug/L
⌊>	Bi	209	441582.744	441582.74				ug/L

Approved: November 30, 2010

⌈	Na	23	13934873.579	50.50	2.2338	0.192	8.592	mg/L
|	Mg	24	1462273.727	5.30	0.3527	0.023	6.623	mg/L
|	K	39	3613224.693	11.52	0.3085	0.017	5.598	mg/L
|	Ca	43	23600.195	0.08	1.0773	0.026	2.454	mg/L
|	Fe	54	50637.088	-0.02	-0.0051	0.003	68.484	mg/L
|	Fe	57	8257.576	0.00	-0.0001	0.001	1307.457	mg/L
⌊>	Sc-1	45	276426.971	276426.97				mg/L
	Cl	35	35941.812	5341.73				mg/L
	Kr	83	38.667	-5.67				mg/L
	Br	81	11606.066	1647.11				mg/L
	P	31	10031.042	-4844.70				mg/L
	S	34	248235.434	31342.16				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.697			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.708			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.749			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.817			
⌈	Na	23					

Sample ID: L1011067807
Report Date/Time: Monday, November 29, 2010 18:40:31
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067808

Sample Date/Time: Monday, November 29, 2010 18:45:04
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 50

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45804.815	0.04				ug/L
|	Be	9	3.333	0.00	-0.0022	0.002	112.780	ug/L
|	Al	27	20070.163	0.04	1.7426	0.188	10.771	ug/L
⌊>	Sc	45	290132.291	290132.29				ug/L
⌈	Ti	49	103.344	0.00	-0.2151	0.071	33.046	ug/L
|	V	51	2652.496	-0.00	-0.0186	0.007	36.481	ug/L
|	Cr	52	8312.870	-0.00	-0.1129	0.011	9.854	ug/L
|	Cr	53	236.693	-0.00	-0.0966	0.049	50.651	ug/L
|	Mn	55	4339.318	0.01	0.2683	0.009	3.320	ug/L
|	Co	59	216.338	-0.00	-0.0110	0.001	8.882	ug/L
|	Ni	60	296.007	0.00	0.0787	0.005	6.052	ug/L
|	Cu	65	225.671	0.00	-0.0001	0.002	2823.398	ug/L
|	Zn	66	2715.062	-0.01	-1.3469	0.022	1.652	ug/L
|>	Ge	72	396948.229	396948.23				ug/L
|	As	75	-134.859	0.00	0.0319	0.083	258.691	ug/L
|	Se	77	256.696	0.00	2.6611	0.691	25.948	ug/L
|	Se	82	249.763	0.00	2.5835	0.066	2.564	ug/L
⌊	Rb	85	96.335	0.00				mg/L
	Y	89	248921.695	-9325.91				ug/L
	Rh	103	7.000	-0.67				ug/L
⌈	Mo	98	901.392	0.00	0.3676	0.018	4.813	ug/L
|	Ag	107	15.000	-0.00	-0.0147	0.001	4.543	ug/L
|	Cd	114	5.488	-0.00	-0.0136	0.007	51.704	ug/L
|>	In	115	355918.893	355918.89				ug/L
|	Sn	118	586.417	-0.00	-0.2719	0.005	1.762	ug/L
⌊	Sb	123	299.753	0.00	0.1052	0.006	5.406	ug/L
⌈	Ba	135	800.040	0.00	0.4318	0.008	1.924	ug/L
|	Ce	140	86.676	0.00				ug/L
⌊>	Tb	159	487727.869	487727.87				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	35.667	0.00	0.0047	0.000	2.068	ug/L
|	Tl	205	90.009	0.00	-0.0131	0.001	3.917	ug/L
|	Pb	206	453.348	-0.00	-0.0507	0.002	4.523	ug/L
|	Pb	207	372.011	-0.00	-0.0270	0.005	17.451	ug/L
|	Pb	208	1722.408	-0.00	-0.0424	0.001	3.182	ug/L
|	U	238	3351.929	0.01	0.1204	0.001	0.807	ug/L
⌊>	Bi	209	444442.579	444442.58				ug/L

Approved: November 30, 2010

⌈	Na	23	37772645.021	130.13	5.7591	0.105	1.832	mg/L
|	Mg	24	1798723.771	6.20	0.4127	0.003	0.804	mg/L
|	K	39	4621949.835	14.36	0.3863	0.006	1.471	mg/L
|	Ca	43	29265.760	0.10	1.2719	0.053	4.172	mg/L
|	Fe	54	55807.579	-0.01	-0.0017	0.001	47.398	mg/L
|	Fe	57	10413.129	0.01	0.0055	0.001	10.838	mg/L
⌊>	Sc-1	45	290132.291	290132.29				mg/L
	Cl	35	61954.678	31354.59				mg/L
	Kr	83	28.000	-16.33				mg/L
	Br	81	12119.341	2160.38				mg/L
	P	31	12105.327	-2770.42				mg/L
	S	34	284883.122	67989.85				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.136			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.330			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.775			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.483			
⌈	Na	23					

Sample ID: L1011067808
Report Date/Time: Monday, November 29, 2010 18:47:14
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011067808
Report Date/Time: Monday, November 29, 2010 18:47:14
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011067811

Sample Date/Time: Monday, November 29, 2010 18:51:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 50

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	46909.884	0.04				ug/L
|	Be	9	6.000	0.00	0.0035	0.004	115.513	ug/L
|	Al	27	15094.737	0.03	1.0372	0.187	18.077	ug/L
⌊>	Sc	45	291184.453	291184.45				ug/L
⌈	Ti	49	123.346	0.00	-0.1832	0.021	11.426	ug/L
|	V	51	2614.276	-0.00	-0.0229	0.006	28.004	ug/L
|	Cr	52	8182.763	-0.00	-0.1301	0.010	7.737	ug/L
|	Cr	53	240.027	-0.00	-0.0938	0.020	21.657	ug/L
|	Mn	55	36730.716	0.09	2.5870	0.038	1.488	ug/L
|	Co	59	291.340	0.00	-0.0046	0.001	20.604	ug/L
|	Ni	60	284.007	0.00	0.0737	0.010	13.958	ug/L
|	Cu	65	154.669	-0.00	-0.0288	0.002	5.646	ug/L
|	Zn	66	2526.345	-0.01	-1.4899	0.051	3.447	ug/L
|>	Ge	72	397858.838	397858.84				ug/L
|	As	75	66.808	0.00	0.2501	0.292	116.609	ug/L
|	Se	77	723.432	0.00	8.9414	0.210	2.348	ug/L
|	Se	82	849.123	0.00	9.0496	0.725	8.010	ug/L
⌊	Rb	85	179.670	0.00				mg/L
	Y	89	248217.476	-10030.13				ug/L
	Rh	103	5.333	-2.33				ug/L
⌈	Mo	98	1722.358	0.00	0.7182	0.034	4.710	ug/L
|	Ag	107	13.000	-0.00	-0.0151	0.000	1.997	ug/L
|	Cd	114	17.583	-0.00	-0.0038	0.006	162.133	ug/L
|>	In	115	359760.943	359760.94				ug/L
|	Sn	118	568.950	-0.00	-0.2778	0.005	1.862	ug/L
⌊	Sb	123	5974.383	0.02	1.6176	0.050	3.062	ug/L
⌈	Ba	135	1590.143	0.00	0.8803	0.035	4.010	ug/L
|	Ce	140	76.675	0.00				ug/L
⌊>	Tb	159	487795.991	487795.99				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	36.667	0.00	0.0048	0.001	11.744	ug/L
|	Tl	205	53.339	-0.00	-0.0150	0.001	5.323	ug/L
|	Pb	206	448.348	-0.00	-0.0519	0.001	2.442	ug/L
|	Pb	207	370.677	-0.00	-0.0275	0.003	10.146	ug/L
|	Pb	208	1737.076	-0.00	-0.0422	0.002	4.415	ug/L
|	U	238	2133.249	0.00	0.0833	0.001	1.605	ug/L
⌊>	Bi	209	446938.981	446938.98				ug/L

Approved: November 30, 2010

Na	23	16296695.048	55.99	2.4767	0.143	5.757	mg/L
Mg	24	1398945.746	4.81	0.3198	0.017	5.201	mg/L
K	39	2664110.016	7.59	0.2003	0.011	5.307	mg/L
Ca	43	22677.997	0.08	0.9818	0.039	3.948	mg/L
Fe	54	54503.905	-0.01	-0.0036	0.002	61.478	mg/L
Fe	57	10072.750	0.01	0.0044	0.003	65.639	mg/L
Sc-1	45	291184.453	291184.45				mg/L
Cl	35	40866.685	10266.60				mg/L
Kr	83	29.667	-14.67				mg/L
Br	81	10805.171	846.21				mg/L
P	31	11857.718	-3018.03				mg/L
S	34	260745.621	43852.35				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		95.355			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		107.478			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		108.790			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		104.064			
Na	23					

Sample ID: L1011067811
Report Date/Time: Monday, November 29, 2010 18:53:58

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 29, 2010 18:58:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41820.608	0.03				ug/L
|	Be	9	23617.189	0.08	52.2357	1.554	2.976	ug/L
|	Al	27	344914.177	1.18	48.2837	1.412	2.925	ug/L
⌊>	Sc	45	286018.887	286018.89				ug/L
⌈	Ti	49	63802.591	0.16	102.4034	0.480	0.469	ug/L
|	V	51	526589.987	1.35	51.3611	0.441	0.858	ug/L
|	Cr	52	452651.220	1.14	51.8020	0.617	1.192	ug/L
|	Cr	53	52857.951	0.14	52.5041	0.795	1.514	ug/L
|	Mn	55	720982.884	1.86	52.9116	0.192	0.363	ug/L
|	Co	59	586986.377	1.51	51.1813	0.337	0.659	ug/L
|	Ni	60	123412.110	0.32	50.8558	0.448	0.880	ug/L
|	Cu	65	118623.767	0.31	48.7999	0.508	1.042	ug/L
|	Zn	66	66983.308	0.15	47.0302	0.514	1.092	ug/L
|>	Ge	72	387874.383	387874.38				ug/L
|	As	75	43971.224	0.11	48.3104	0.438	0.907	ug/L
|	Se	77	3724.399	0.01	50.6890	0.819	1.615	ug/L
|	Se	82	4552.159	0.01	50.2596	0.554	1.102	ug/L
⌊	Rb	85	1826.185	0.00				mg/L
	Y	89	243660.440	-14587.16				ug/L
	Rh	103	19.000	11.33				ug/L
⌈	Mo	98	203806.727	0.59	91.1578	2.104	2.308	ug/L
|	Ag	107	248144.614	0.71	48.0935	0.417	0.868	ug/L
|	Cd	114	56891.941	0.16	47.9520	0.380	0.793	ug/L
|>	In	115	347708.877	347708.88				ug/L
|	Sn	118	192696.212	0.55	49.3230	0.453	0.918	ug/L
⌊	Sb	123	169446.163	0.49	46.7697	0.439	0.938	ug/L
⌈	Ba	135	76957.812	0.16	44.5828	0.753	1.689	ug/L
|	Ce	140	60.006	0.00				ug/L
⌊>	Tb	159	478025.435	478025.43				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	362652.351	0.84	48.4863	0.294	0.607	ug/L
|	Tl	205	881012.622	2.03	48.2582	0.610	1.263	ug/L
|	Pb	206	294401.279	0.68	48.0049	0.408	0.850	ug/L
|	Pb	207	275719.785	0.64	49.5779	0.295	0.595	ug/L
|	Pb	208	1236415.248	2.85	48.6346	0.333	0.684	ug/L
|	U	238	1743216.832	4.03	54.0876	0.683	1.263	ug/L
⌊>	Bi	209	433066.372	433066.37				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 19:00:44
Page 1

Approved: November 30, 2010

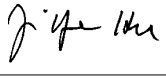
Na	23	30763327.464	107.51	4.7578	0.072	1.508	mg/L
Mg	24	19459085.855	68.08	4.5574	0.141	3.092	mg/L
K	39	49842453.835	172.76	4.7384	0.126	2.650	mg/L
Ca	43	109224.371	0.38	4.8275	0.039	0.813	mg/L
Fe	54	3675377.752	12.66	4.8169	0.120	2.497	mg/L
Fe	57	1475850.662	5.13	4.7220	0.085	1.791	mg/L
Sc-1	45	286018.887	286018.89				mg/L
Cl	35	19291.925	-11308.16				mg/L
Kr	83	31.000	-13.33				mg/L
Br	81	9694.698	-264.26				mg/L
P	31	12992.451	-1883.29				mg/L
S	34	224558.698	7665.43				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	102.722				
Cr	52	103.604				
Cr	53					
Mn	55	105.823				
Co	59	102.363				
Ni	60	101.712				
Cu	65	97.600				
Zn	66	94.060				
Ge	72		92.962			
As	75	96.621				
Se	77					
Se	82	100.519				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	96.187				
Cd	114	95.904				
In	115		103.877			
Sn	118					
Sb	123	93.539				
Ba	135	89.166				
Ce	140					
Tb	159		106.611			
Ho	165					
Tl	203	96.973				
Tl	205					
Pb	206					
Pb	207					
Pb	208	97.269				
U	238	108.175				
Bi	209		100.834			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 19:00:44

Approved: November 30, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Ba	135	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 19:00:44
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 29, 2010 19:05:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45001.059	0.04				ug/L
|	Be	9	2.667	-0.00	-0.0036	0.002	67.717	ug/L
|	Al	27	6685.576	-0.00	-0.1318	0.072	54.912	ug/L
⌊>	Sc	45	285742.627	285742.63				ug/L
⌈	Ti	49	173.352	0.00	-0.0968	0.096	99.316	ug/L
|	V	51	2437.619	-0.00	-0.0338	0.002	6.391	ug/L
|	Cr	52	7743.075	-0.00	-0.1576	0.006	3.500	ug/L
|	Cr	53	190.021	-0.00	-0.1376	0.030	21.854	ug/L
|	Mn	55	311.675	-0.00	-0.0203	0.001	7.393	ug/L
|	Co	59	175.003	-0.00	-0.0141	0.002	16.925	ug/L
|	Ni	60	21.000	-0.00	-0.0320	0.002	5.586	ug/L
|	Cu	65	85.668	-0.00	-0.0557	0.003	5.581	ug/L
|	Zn	66	533.020	-0.02	-2.9415	0.010	0.354	ug/L
|>	Ge	72	387940.253	387940.25				ug/L
|	As	75	-144.582	0.00	0.0185	0.044	238.082	ug/L
|	Se	77	50.005	-0.00	-0.1189	0.278	233.448	ug/L
|	Se	82	5.133	0.00	-0.0590	0.121	204.696	ug/L
⌊	Rb	85	12.000	-0.00				mg/L
	Y	89	248409.509	-9838.09				ug/L
	Rh	103	8.000	0.33				ug/L
⌈	Mo	98	1094.301	0.00	0.4510	0.093	20.518	ug/L
|	Ag	107	30.667	0.00	-0.0118	0.002	13.034	ug/L
|	Cd	114	17.019	-0.00	-0.0041	0.007	180.814	ug/L
|>	In	115	356166.303	356166.30				ug/L
|	Sn	118	1229.676	-0.00	-0.1099	0.020	18.370	ug/L
⌊	Sb	123	205.918	0.00	0.0799	0.007	8.563	ug/L
⌈	Ba	135	11.000	-0.00	-0.0164	0.002	9.311	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	488881.018	488881.02				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	10.667	-0.00	0.0014	0.000	5.033	ug/L
|	Tl	205	33.337	-0.00	-0.0161	0.002	10.107	ug/L
|	Pb	206	419.346	-0.00	-0.0566	0.003	5.940	ug/L
|	Pb	207	356.343	-0.00	-0.0301	0.006	19.691	ug/L
|	Pb	208	1707.742	-0.00	-0.0434	0.001	3.032	ug/L
|	U	238	3759.769	0.01	0.1322	0.027	20.211	ug/L
⌊>	Bi	209	447343.382	447343.38				ug/L

Approved: November 30, 2010

Na	23	14501.957	-0.03	-0.0032	0.000	1.856	mg/L
Mg	24	340.040	0.00	-0.0024	0.000	0.424	mg/L
K	39	418451.099	-0.11	-0.0111	0.001	11.431	mg/L
Ca	43	116.679	-0.00	0.0015	0.001	87.175	mg/L
Fe	54	52562.312	-0.01	-0.0049	0.002	44.928	mg/L
Fe	57	7920.594	0.00	-0.0020	0.001	29.341	mg/L
> Sc-1	45	285742.627	285742.63				mg/L
Cl	35	19768.854	-10831.23				mg/L
Kr	83	23.000	-21.33				mg/L
Br	81	9839.507	-119.45				mg/L
P	31	12987.109	-1888.64				mg/L
S	34	236924.791	20031.52				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		92.977			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		106.404			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		109.032			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		104.158			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 19:07:27

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 19:07:27

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066801 WG349517-02

Sample Date/Time: Monday, November 29, 2010 19:12:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 45
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43109.497	0.04				ug/L
|	Be	9	6.667	0.00	0.0067	0.020	301.100	ug/L
|	Al	27	71605.712	0.24	9.9360	0.387	3.892	ug/L
⌊>	Sc	45	265805.351	265805.35				ug/L
⌈	Ti	49	316.704	0.00	0.1439	0.128	88.974	ug/L
|	V	51	2099.972	-0.00	-0.0628	0.029	45.753	ug/L
|	Cr	52	8710.213	-0.00	-0.0242	0.015	61.861	ug/L
|	Cr	53	1923.711	0.00	1.6333	0.096	5.865	ug/L
|	Mn	55	290945.145	0.76	21.7522	0.089	0.410	ug/L
|	Co	59	468.349	0.00	0.0123	0.001	11.386	ug/L
|	Ni	60	1718.498	0.00	0.6821	0.026	3.787	ug/L
|	Cu	65	371.011	0.00	0.0650	0.011	16.486	ug/L
|	Zn	66	3253.895	-0.01	-0.8460	0.066	7.789	ug/L
|>	Ge	72	380296.882	380296.88				ug/L
|	As	75	1890.343	0.01	2.2871	0.070	3.082	ug/L
|	Se	77	146.682	0.00	1.2595	0.316	25.078	ug/L
|	Se	82	623.416	0.00	6.9222	0.465	6.723	ug/L
⌊	Rb	85	27315.531	0.07				mg/L
	Y	89	235228.125	-23019.48				ug/L
	Rh	103	178.003	170.34				ug/L
⌈	Mo	98	506.913	0.00	0.2163	0.010	4.707	ug/L
|	Ag	107	31.000	0.00	-0.0111	0.002	16.496	ug/L
|	Cd	114	14.255	-0.00	-0.0052	0.007	127.464	ug/L
|>	In	115	324875.079	324875.08				ug/L
|	Sn	118	810.033	-0.00	-0.1960	0.003	1.639	ug/L
⌊	Sb	123	85.372	0.00	0.0497	0.003	7.042	ug/L
⌈	Ba	135	453485.633	1.00	276.5736	3.141	1.136	ug/L
|	Ce	140	543.402	0.00				ug/L
⌊>	Tb	159	454292.740	454292.74				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	137.336	0.00	0.0200	0.002	8.053	ug/L
|	Tl	205	403.382	0.00	0.0061	0.005	83.092	ug/L
|	Pb	206	566.355	-0.00	-0.0225	0.005	21.037	ug/L
|	Pb	207	465.015	-0.00	-0.0013	0.003	260.956	ug/L
|	Pb	208	2142.777	-0.00	-0.0168	0.001	4.657	ug/L
|	U	238	1131.742	0.00	0.0572	0.000	0.644	ug/L
⌊>	Bi	209	398959.416	398959.42				ug/L

Sample ID: L1011066801 WG349517-02
Report Date/Time: Monday, November 29, 2010 19:14:14
Page 1

Approved: November 30, 2010

⌈	Na	23	428471980.265	1612.70	71.3951	1.748	2.448	mg/L
|	Mg	24	13244038.825	49.85	3.3362	0.066	1.971	mg/L
|	K	39	13910375.997	50.78	1.3870	0.026	1.849	mg/L
|	Ca	43	263663.572	0.99	12.5501	0.332	2.645	mg/L
|	Fe	54	99657.562	0.18	0.0679	0.006	8.855	mg/L
|	Fe	57	43991.019	0.14	0.1249	0.008	6.332	mg/L
⌊>	Sc-1	45	265805.351	265805.35				mg/L
	Cl	35	2240312.556	2209712.47				mg/L
	Kr	83	32.000	-12.33				mg/L
	Br	81	320358.797	310399.84				mg/L
	P	31	8751.828	-6123.92				mg/L
	S	34	257073.888	40180.62				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.145			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.056			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.318			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.893			
⌈	Na	23					

Sample ID: L1011066801 WG349517-02
Report Date/Time: Monday, November 29, 2010 19:14:14
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ba 135 Upper, S, EEE	Ba	135	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066802S WG349517-07

Sample Date/Time: Monday, November 29, 2010 19:18:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 46
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40314.582	0.03				ug/L
|	Be	9	2301.598	0.01	5.3184	0.106	1.995	ug/L
|	Al	27	88591.129	0.30	12.1875	0.779	6.392	ug/L
⌊>	Sc	45	273216.195	273216.20				ug/L
⌈	Ti	49	176.686	0.00	-0.0832	0.050	60.313	ug/L
|	V	51	52264.561	0.13	5.0203	0.052	1.029	ug/L
|	Cr	52	51674.027	0.11	5.1717	0.103	1.991	ug/L
|	Cr	53	7480.216	0.02	7.3929	0.354	4.791	ug/L
|	Mn	55	451478.593	1.20	34.2054	0.364	1.063	ug/L
|	Co	59	55905.396	0.15	5.0082	0.057	1.143	ug/L
|	Ni	60	13417.464	0.04	5.6746	0.103	1.816	ug/L
|	Cu	65	11422.301	0.03	4.7715	0.035	0.743	ug/L
|	Zn	66	9735.501	0.01	4.2199	0.062	1.468	ug/L
|>	Ge	72	375562.502	375562.50				ug/L
|	As	75	6173.752	0.02	7.1574	0.312	4.364	ug/L
|	Se	77	520.066	0.00	6.6149	0.729	11.017	ug/L
|	Se	82	1043.736	0.00	11.8166	0.815	6.894	ug/L
⌊	Rb	85	15496.487	0.04				mg/L
	Y	89	235934.115	-22313.49				ug/L
	Rh	103	218.005	210.34				ug/L
⌈	Mo	98	330.611	0.00	0.1358	0.006	4.499	ug/L
|	Ag	107	21383.721	0.07	4.5280	0.064	1.415	ug/L
|	Cd	114	5386.510	0.02	4.9618	0.158	3.179	ug/L
|>	In	115	317146.500	317146.50				ug/L
|	Sn	118	758.295	-0.00	-0.2052	0.010	4.649	ug/L
⌊	Sb	123	16397.052	0.05	4.9840	0.075	1.496	ug/L
⌈	Ba	135	630375.943	1.41	390.5658	5.458	1.397	ug/L
|	Ce	140	500.063	0.00				ug/L
⌊>	Tb	159	447194.610	447194.61				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	31929.901	0.08	4.7288	0.115	2.428	ug/L
|	Tl	205	80998.222	0.21	4.8988	0.112	2.293	ug/L
|	Pb	206	27895.801	0.07	4.9286	0.036	0.727	ug/L
|	Pb	207	24696.039	0.06	4.8360	0.048	0.993	ug/L
|	Pb	208	113794.858	0.29	4.8609	0.037	0.758	ug/L
|	U	238	152482.402	0.39	5.2583	0.064	1.221	ug/L
⌊>	Bi	209	390953.603	390953.60				ug/L

Sample ID: L1011066802S WG349517-07
Report Date/Time: Monday, November 29, 2010 19:21:01
Page 1

Approved: November 30, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	15940658.487	58.37	3.9070	0.149	3.813	mg/L
|	K	39	8623980.849	30.00	0.8161	0.022	2.671	mg/L
|	Ca	43	341952.339	1.25	15.8317	0.399	2.518	mg/L
|	Fe	54	115064.684	0.22	0.0854	0.003	3.898	mg/L
|	Fe	57	54131.529	0.17	0.1548	0.004	2.720	mg/L
⌊>	Sc-1	45	273216.195	273216.20				mg/L
	Cl	35	2786303.827	2755703.74				mg/L
	Kr	83	38.334	-6.00				mg/L
	Br	81	312872.450	302913.49				mg/L
	P	31	9537.219	-5338.53				mg/L
	S	34	247052.103	30158.83				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		90.011			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.747			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.735			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		91.029			
⌈	Na	23					

Sample ID: L1011066802S WG349517-07
Report Date/Time: Monday, November 29, 2010 19:21:01
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ba 135 Upper, S, EEE	Ba	135	

Sample ID: L1011066802S WG349517-07
Report Date/Time: Monday, November 29, 2010 19:21:01
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066803SD WG349517-08

Sample Date/Time: Monday, November 29, 2010 19:25:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 47
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38423.692	0.03				ug/L
|	Be	9	1857.506	0.01	4.5672	0.329	7.198	ug/L
|	Al	27	72193.020	0.25	10.4088	0.265	2.547	ug/L
⌊>	Sc	45	257047.875	257047.87				ug/L
⌈	Ti	49	146.682	0.00	-0.1179	0.061	51.964	ug/L
|	V	51	46442.161	0.12	4.7251	0.098	2.068	ug/L
|	Cr	52	46233.791	0.11	4.8645	0.145	2.976	ug/L
|	Cr	53	6516.109	0.02	6.8203	0.308	4.510	ug/L
|	Mn	55	418893.230	1.18	33.7228	0.340	1.008	ug/L
|	Co	59	49051.169	0.14	4.6672	0.062	1.323	ug/L
|	Ni	60	11784.725	0.03	5.2931	0.087	1.649	ug/L
|	Cu	65	10048.815	0.03	4.4546	0.114	2.550	ug/L
|	Zn	66	9095.560	0.01	4.1652	0.195	4.685	ug/L
|>	Ge	72	353430.404	353430.40				ug/L
|	As	75	5685.510	0.02	7.0070	0.316	4.513	ug/L
|	Se	77	410.049	0.00	5.4119	0.697	12.881	ug/L
|	Se	82	997.095	0.00	11.9943	0.873	7.274	ug/L
⌊	Rb	85	9493.933	0.03				mg/L
	Y	89	217604.333	-40643.27				ug/L
	Rh	103	188.670	181.00				ug/L
⌈	Mo	98	216.607	0.00	0.0904	0.005	5.862	ug/L
|	Ag	107	18350.007	0.06	4.2721	0.074	1.723	ug/L
|	Cd	114	4569.499	0.02	4.6291	0.204	4.414	ug/L
|>	In	115	288404.955	288404.95				ug/L
|	Sn	118	623.619	-0.00	-0.2257	0.003	1.341	ug/L
⌊	Sb	123	14151.019	0.05	4.7323	0.142	3.007	ug/L
⌈	Ba	135	595026.118	1.47	406.6020	12.026	2.958	ug/L
|	Ce	140	290.033	0.00				ug/L
⌊>	Tb	159	405535.927	405535.93				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	28432.031	0.08	4.5301	0.242	5.336	ug/L
|	Tl	205	70444.363	0.19	4.5815	0.140	3.045	ug/L
|	Pb	206	24458.794	0.07	4.6413	0.137	2.956	ug/L
|	Pb	207	21529.372	0.06	4.5288	0.118	2.607	ug/L
|	Pb	208	99608.439	0.27	4.5703	0.119	2.594	ug/L
|	U	238	135059.953	0.37	5.0102	0.040	0.801	ug/L
⌊>	Bi	209	363519.680	363519.68				ug/L

Approved: November 30, 2010

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	14870255.850	57.95	3.8792	0.292	7.535	mg/L
|	K	39	5737638.616	20.77	0.5626	0.026	4.602	mg/L
|	Ca	43	308889.118	1.20	15.2150	0.787	5.174	mg/L
|	Fe	54	107407.146	0.22	0.0843	0.010	11.439	mg/L
|	Fe	57	49590.956	0.17	0.1501	0.006	4.267	mg/L
⌊>	Sc-1	45	257047.875	257047.87				mg/L
	Cl	35	2662573.601	2631973.51				mg/L
	Kr	83	34.667	-9.67				mg/L
	Br	81	344194.716	334235.76				mg/L
	P	31	7660.272	-7215.47				mg/L
	S	34	208320.876	-8572.39				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.706			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.160			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.444			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		84.641			
⌈	Na	23					

Sample ID: L1011066803SD WG349517-08
Report Date/Time: Monday, November 29, 2010 19:27:45
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ba 135 Upper, S, EEE	Ba	135	

Sample ID: L1011066803SD WG349517-08
Report Date/Time: Monday, November 29, 2010 19:27:45
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066806

Sample Date/Time: Monday, November 29, 2010 19:32:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 48
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39260.777	0.02				ug/L
|	Be	9	6.000	0.00	0.0044	0.013	287.925	ug/L
|	Al	27	96614.774	0.32	13.0192	0.191	1.468	ug/L
⌊>	Sc	45	280277.605	280277.61				ug/L
⌈	Ti	49	386.713	0.00	0.2896	0.105	36.128	ug/L
|	V	51	3528.964	0.00	0.0973	0.007	7.066	ug/L
|	Cr	52	11741.675	0.01	0.4048	0.026	6.442	ug/L
|	Cr	53	863.457	0.00	0.5950	0.109	18.254	ug/L
|	Mn	55	466104.734	1.28	36.5678	0.392	1.071	ug/L
|	Co	59	7588.287	0.02	0.6785	0.004	0.524	ug/L
|	Ni	60	37174.017	0.10	16.3525	0.114	0.695	ug/L
|	Cu	65	733.701	0.00	0.2324	0.017	7.289	ug/L
|	Zn	66	3800.427	-0.01	-0.2855	0.048	16.769	ug/L
|>	Ge	72	362714.861	362714.86				ug/L
|	As	75	185.406	0.00	0.3934	0.081	20.549	ug/L
|	Se	77	86.676	0.00	0.4658	0.731	157.000	ug/L
|	Se	82	123.069	0.00	1.3395	0.170	12.707	ug/L
⌊	Rb	85	941.720	0.00				mg/L
	Y	89	229186.023	-29061.58				ug/L
	Rh	103	31.334	23.67				ug/L
⌈	Mo	98	1527.803	0.00	0.7394	0.020	2.762	ug/L
|	Ag	107	35.667	0.00	-0.0098	0.002	18.902	ug/L
|	Cd	114	24.997	0.00	0.0055	0.006	113.721	ug/L
|>	In	115	310402.987	310402.99				ug/L
|	Sn	118	973.647	-0.00	-0.1382	0.006	4.437	ug/L
⌊	Sb	123	137.121	0.00	0.0668	0.001	1.600	ug/L
⌈	Ba	135	39192.715	0.09	25.3532	0.181	0.713	ug/L
|	Ce	140	926.823	0.00				ug/L
⌊>	Tb	159	427922.632	427922.63				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	135.002	0.00	0.0210	0.002	7.581	ug/L
|	Tl	205	286.700	0.00	0.0004	0.005	1535.665	ug/L
|	Pb	206	543.687	0.00	-0.0200	0.002	7.999	ug/L
|	Pb	207	501.684	0.00	0.0125	0.004	29.434	ug/L
|	Pb	208	2254.790	0.00	-0.0056	0.003	52.655	ug/L
|	U	238	41672.076	0.11	1.5165	0.031	2.014	ug/L
⌊>	Bi	209	373885.047	373885.05				ug/L

Sample ID: L1011066806
Report Date/Time: Monday, November 29, 2010 19:34:29
Page 1

Approved: November 30, 2010

⌈	Na	23	178936214.071	639.08	28.2913	1.303	4.606	mg/L
|	Mg	24	77501321.295	276.77	18.5353	0.637	3.437	mg/L
|	K	39	5366817.996	17.60	0.4754	0.024	5.043	mg/L
|	Ca	43	314675.698	1.12	14.2090	0.433	3.049	mg/L
|	Fe	54	93862.872	0.14	0.0527	0.006	10.874	mg/L
|	Fe	57	25665.514	0.06	0.0568	0.006	9.700	mg/L
⌊>	Sc-1	45	280277.605	280277.61				mg/L
	Cl	35	348277.348	317677.26				mg/L
	Kr	83	30.667	-13.67				mg/L
	Br	81	71177.766	61218.81				mg/L
	P	31	17308.333	2432.59				mg/L
	S	34	403743.315	186850.05				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.932			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.732			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.437			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		87.055			
⌈	Na	23					

Sample ID: L1011066806
Report Date/Time: Monday, November 29, 2010 19:34:29
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066807

Sample Date/Time: Monday, November 29, 2010 19:39:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 49
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42808.112	0.02				ug/L
|	Be	9	6.000	0.00	0.0030	0.000	8.536	ug/L
|	Al	27	37202.543	0.10	3.9191	0.197	5.017	ug/L
⌊>	Sc	45	303831.171	303831.17				ug/L
⌈	Ti	49	120.013	0.00	-0.1841	0.103	56.048	ug/L
|	V	51	2833.389	0.00	0.0022	0.013	585.009	ug/L
|	Cr	52	11935.241	0.01	0.3179	0.006	1.817	ug/L
|	Cr	53	653.420	0.00	0.3171	0.083	26.090	ug/L
|	Mn	55	14380.484	0.04	1.0021	0.019	1.888	ug/L
|	Co	59	4679.142	0.01	0.3746	0.008	2.154	ug/L
|	Ni	60	1141.410	0.00	0.4253	0.003	0.602	ug/L
|	Cu	65	670.363	0.00	0.1826	0.004	2.455	ug/L
|	Zn	66	4284.294	-0.01	-0.1536	0.032	20.894	ug/L
|>	Ge	72	391898.470	391898.47				ug/L
|	As	75	-90.373	0.00	0.0782	0.043	54.828	ug/L
|	Se	77	83.342	0.00	0.3260	0.421	129.043	ug/L
|	Se	82	34.096	0.00	0.2552	0.212	83.156	ug/L
⌊	Rb	85	127.002	0.00				mg/L
	Y	89	249887.045	-8360.56				ug/L
	Rh	103	6.000	-1.67				ug/L
⌈	Mo	98	147.459	0.00	0.0397	0.003	7.218	ug/L
|	Ag	107	41.000	0.00	-0.0096	0.002	21.666	ug/L
|	Cd	114	39.308	0.00	0.0152	0.006	38.366	ug/L
|>	In	115	347053.969	347053.97				ug/L
|	Sn	118	1015.118	-0.00	-0.1571	0.006	3.880	ug/L
⌊	Sb	123	91.624	0.00	0.0497	0.004	8.569	ug/L
⌈	Ba	135	395.012	0.00	0.2109	0.023	10.848	ug/L
|	Ce	140	163.351	0.00				ug/L
⌊>	Tb	159	468519.366	468519.37				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	47.667	0.00	0.0066	0.001	19.141	ug/L
|	Tl	205	160.017	0.00	-0.0089	0.001	10.659	ug/L
|	Pb	206	550.687	-0.00	-0.0310	0.006	17.988	ug/L
|	Pb	207	476.349	-0.00	-0.0045	0.003	73.202	ug/L
|	Pb	208	2201.451	-0.00	-0.0198	0.002	7.721	ug/L
|	U	238	658.695	0.00	0.0400	0.001	3.245	ug/L
⌊>	Bi	209	423627.070	423627.07				ug/L

Approved: November 30, 2010

Na	23	645244.945	2.04	0.0886	0.001	0.741	mg/L
Mg	24	183470.568	0.60	0.0379	0.001	1.986	mg/L
K	39	679846.666	0.67	0.0101	0.001	7.415	mg/L
Ca	43	2647.283	0.01	0.1066	0.006	6.071	mg/L
Fe	54	108183.339	0.16	0.0606	0.003	4.291	mg/L
Fe	57	10760.196	0.01	0.0051	0.001	23.734	mg/L
> Sc-1	45	303831.171	303831.17				mg/L
Cl	35	80370.398	49770.31				mg/L
Kr	83	27.334	-17.00				mg/L
Br	81	20035.385	10076.43				mg/L
P	31	23026.492	8150.75				mg/L
S	34	221277.265	4384.00				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		93.926			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		103.682			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		104.491			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		98.636			
Na	23					

Sample ID: L1011066807
Report Date/Time: Monday, November 29, 2010 19:41:14
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066809

Sample Date/Time: Monday, November 29, 2010 19:45:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 50
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44950.833	0.03				ug/L
|	Be	9	1.333	-0.00	-0.0066	0.005	73.564	ug/L
|	Al	27	41604.237	0.11	4.6496	0.806	17.336	ug/L
⌊>	Sc	45	296532.787	296532.79				ug/L
⌈	Ti	49	766.773	0.00	0.9107	0.126	13.787	ug/L
|	V	51	3312.369	0.00	0.0658	0.019	29.173	ug/L
|	Cr	52	10783.586	0.01	0.2506	0.011	4.205	ug/L
|	Cr	53	1200.192	0.00	0.9218	0.045	4.894	ug/L
|	Mn	55	372248.486	1.00	28.4443	0.131	0.459	ug/L
|	Co	59	3202.878	0.01	0.2617	0.005	1.995	ug/L
|	Ni	60	7588.955	0.02	3.2202	0.013	0.417	ug/L
|	Cu	65	650.694	0.00	0.1884	0.017	8.886	ug/L
|	Zn	66	3493.979	-0.01	-0.6046	0.025	4.074	ug/L
|>	Ge	72	372271.934	372271.93				ug/L
|	As	75	385.656	0.00	0.6157	0.067	10.857	ug/L
|	Se	77	103.344	0.00	0.6773	0.072	10.629	ug/L
|	Se	82	197.068	0.00	2.1541	0.178	8.265	ug/L
⌊	Rb	85	1326.435	0.00				mg/L
	Y	89	239265.729	-18981.87				ug/L
	Rh	103	62.667	55.00				ug/L
⌈	Mo	98	294.386	0.00	0.1137	0.005	4.637	ug/L
|	Ag	107	25.334	0.00	-0.0123	0.001	9.059	ug/L
|	Cd	114	22.225	-0.00	0.0019	0.009	475.872	ug/L
|>	In	115	326584.053	326584.05				ug/L
|	Sn	118	890.973	-0.00	-0.1749	0.009	5.250	ug/L
⌊	Sb	123	72.996	0.00	0.0459	0.002	5.377	ug/L
⌈	Ba	135	12457.881	0.03	7.5635	0.099	1.313	ug/L
|	Ce	140	263.363	0.00				ug/L
⌊>	Tb	159	454993.872	454993.87				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	75.001	0.00	0.0114	0.002	13.529	ug/L
|	Tl	205	213.357	0.00	-0.0047	0.000	8.915	ug/L
|	Pb	206	450.348	-0.00	-0.0397	0.008	19.133	ug/L
|	Pb	207	374.344	-0.00	-0.0160	0.004	25.459	ug/L
|	Pb	208	1806.083	-0.00	-0.0280	0.002	7.010	ug/L
|	U	238	70327.156	0.18	2.4863	0.029	1.148	ug/L
⌊>	Bi	209	382910.501	382910.50				ug/L

Sample ID: L1011066809
Report Date/Time: Monday, November 29, 2010 19:47:59
Page 1

Approved: November 30, 2010

⌈	Na	23	266348990.709	898.42	39.7726	1.555	3.909	mg/L
|	Mg	24	74497243.246	251.28	16.8278	0.436	2.592	mg/L
|	K	39	4299958.266	12.93	0.3471	0.009	2.457	mg/L
|	Ca	43	673474.378	2.27	28.7261	0.522	1.816	mg/L
|	Fe	54	87188.767	0.10	0.0370	0.001	2.470	mg/L
|	Fe	57	40151.178	0.11	0.0971	0.005	5.029	mg/L
⌊>	Sc-1	45	296532.787	296532.79				mg/L
	Cl	35	916226.960	885626.87				mg/L
	Kr	83	31.000	-13.33				mg/L
	Br	81	107459.981	97501.02				mg/L
	P	31	22742.565	7866.82				mg/L
	S	34	875905.148	659011.88				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.222			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.566			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.475			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.156			
⌈	Na	23					

Sample ID: L1011066809
Report Date/Time: Monday, November 29, 2010 19:47:59
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066811

Sample Date/Time: Monday, November 29, 2010 19:52:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 51
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41770.606	0.03				ug/L
|	Be	9	3.333	0.00	-0.0017	0.003	155.901	ug/L
|	Al	27	28925.121	0.08	3.2372	0.155	4.801	ug/L
⌊>	Sc	45	273644.024	273644.02				ug/L
⌈	Ti	49	213.357	0.00	-0.0368	0.025	68.534	ug/L
|	V	51	2757.230	-0.00	-0.0051	0.007	130.676	ug/L
|	Cr	52	9479.253	0.00	0.0342	0.017	50.385	ug/L
|	Cr	53	883.461	0.00	0.5463	0.065	11.910	ug/L
|	Mn	55	371958.367	0.95	27.0008	0.379	1.403	ug/L
|	Co	59	5863.444	0.01	0.4770	0.008	1.739	ug/L
|	Ni	60	33449.855	0.09	13.6148	0.143	1.052	ug/L
|	Cu	65	324.675	0.00	0.0415	0.003	6.719	ug/L
|	Zn	66	3135.523	-0.01	-1.0078	0.069	6.852	ug/L
|>	Ge	72	391830.252	391830.25				ug/L
|	As	75	1435.677	0.00	1.7319	0.193	11.171	ug/L
|	Se	77	53.339	-0.00	-0.0809	0.286	353.910	ug/L
|	Se	82	583.410	0.00	6.2741	0.681	10.860	ug/L
⌊	Rb	85	4871.903	0.01				mg/L
	Y	89	238712.525	-19535.08				ug/L
	Rh	103	73.001	65.33				ug/L
⌈	Mo	98	1982.449	0.01	0.9119	0.022	2.457	ug/L
|	Ag	107	22.334	0.00	-0.0130	0.000	1.595	ug/L
|	Cd	114	11.160	-0.00	-0.0081	0.005	57.054	ug/L
|>	In	115	328650.654	328650.65				ug/L
|	Sn	118	492.412	-0.00	-0.2853	0.002	0.767	ug/L
⌊	Sb	123	71.623	0.00	0.0454	0.002	5.019	ug/L
⌈	Ba	135	9000.472	0.02	5.5164	0.077	1.390	ug/L
|	Ce	140	100.011	0.00				ug/L
⌊>	Tb	159	450218.860	450218.86				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	122.335	0.00	0.0170	0.001	7.040	ug/L
|	Tl	205	226.692	0.00	-0.0050	0.004	78.234	ug/L
|	Pb	206	466.682	-0.00	-0.0438	0.002	4.385	ug/L
|	Pb	207	426.347	-0.00	-0.0126	0.004	31.549	ug/L
|	Pb	208	1854.418	-0.00	-0.0327	0.001	2.622	ug/L
|	U	238	2729.400	0.01	0.1069	0.001	0.942	ug/L
⌊>	Bi	209	417584.014	417584.01				ug/L

Sample ID: L1011066811
Report Date/Time: Monday, November 29, 2010 19:54:45
Page 1

Approved: November 30, 2010

⌈	Na	23	194857251.325	712.01	31.5202	0.745	2.364	mg/L
|	Mg	24	6973603.671	25.48	1.7041	0.035	2.070	mg/L
|	K	39	3126685.226	9.86	0.2627	0.008	2.946	mg/L
|	Ca	43	128732.767	0.47	5.9475	0.076	1.275	mg/L
|	Fe	54	49098.921	-0.02	-0.0066	0.002	23.232	mg/L
|	Fe	57	18559.137	0.04	0.0348	0.005	13.585	mg/L
⌊>	Sc-1	45	273644.024	273644.02				mg/L
	Cl	35	630987.424	600387.34				mg/L
	Kr	83	32.334	-12.00				mg/L
	Br	81	307912.678	297953.72				mg/L
	P	31	7964.510	-6911.24				mg/L
	S	34	362449.976	145556.71				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.910			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.184			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.410			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.229			
⌈	Na	23					

Sample ID: L1011066811
Report Date/Time: Monday, November 29, 2010 19:54:45

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011068308

Sample Date/Time: Monday, November 29, 2010 19:59:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 52
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39979.820	0.02				ug/L
|	Be	9	3.333	0.00	-0.0021	0.005	264.209	ug/L
|	Al	27	7135.883	-0.00	-0.0818	0.093	113.471	ug/L
⌊>	Sc	45	290565.887	290565.89				ug/L
⌈	Ti	49	66.674	0.00	-0.2726	0.032	11.840	ug/L
|	V	51	2704.804	-0.00	-0.0146	0.001	7.566	ug/L
|	Cr	52	8874.692	-0.00	-0.0529	0.007	13.378	ug/L
|	Cr	53	276.698	-0.00	-0.0587	0.025	42.987	ug/L
|	Mn	55	748.369	0.00	0.0103	0.002	18.182	ug/L
|	Co	59	184.337	-0.00	-0.0138	0.001	10.730	ug/L
|	Ni	60	77.001	0.00	-0.0097	0.003	35.245	ug/L
|	Cu	65	161.336	-0.00	-0.0262	0.005	18.688	ug/L
|	Zn	66	1796.179	-0.01	-2.0274	0.022	1.077	ug/L
|>	Ge	72	398511.391	398511.39				ug/L
|	As	75	-111.537	0.00	0.0573	0.006	10.464	ug/L
|	Se	77	43.338	-0.00	-0.2285	0.204	89.131	ug/L
|	Se	82	20.687	0.00	0.1056	0.039	37.124	ug/L
⌊	Rb	85	17.334	-0.00				mg/L
	Y	89	249920.563	-8327.04				ug/L
	Rh	103	5.000	-2.67				ug/L
⌈	Mo	98	64.526	0.00	0.0026	0.002	64.280	ug/L
|	Ag	107	15.000	-0.00	-0.0147	0.001	4.595	ug/L
|	Cd	114	9.201	-0.00	-0.0103	0.003	32.427	ug/L
|>	In	115	345755.302	345755.30				ug/L
|	Sn	118	637.887	-0.00	-0.2542	0.009	3.468	ug/L
⌊	Sb	123	25.331	-0.00	0.0315	0.002	4.923	ug/L
⌈	Ba	135	19.000	0.00	-0.0113	0.003	28.877	ug/L
|	Ce	140	20.002	0.00				ug/L
⌊>	Tb	159	462706.476	462706.48				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	34.000	0.00	0.0045	0.001	29.303	ug/L
|	Tl	205	70.007	-0.00	-0.0141	0.002	13.706	ug/L
|	Pb	206	454.348	-0.00	-0.0502	0.003	6.352	ug/L
|	Pb	207	369.344	-0.00	-0.0271	0.001	3.041	ug/L
|	Pb	208	1756.745	-0.00	-0.0407	0.001	1.598	ug/L
|	U	238	171.337	0.00	0.0243	0.001	3.634	ug/L
⌊>	Bi	209	442112.187	442112.19				ug/L

Approved: November 30, 2010

⌈	Na	23	58459.809	0.12	0.0035	0.001	23.548	mg/L
|	Mg	24	2807.347	0.01	-0.0019	0.000	6.574	mg/L
|	K	39	436499.253	-0.07	-0.0100	0.002	18.260	mg/L
|	Ca	43	190.021	-0.00	0.0046	0.002	48.476	mg/L
|	Fe	54	54122.391	-0.01	-0.0040	0.002	37.900	mg/L
|	Fe	57	8094.085	0.00	-0.0019	0.001	55.081	mg/L
⌊>	Sc-1	45	290565.887	290565.89				mg/L
	Cl	35	24208.607	-6391.48				mg/L
	Kr	83	36.000	-8.33				mg/L
	Br	81	20954.003	10995.05				mg/L
	P	31	11993.191	-2882.56				mg/L
	S	34	224774.003	7880.73				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.511			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.294			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.195			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.940			
⌈	Na	23					

Sample ID: L1011068308
Report Date/Time: Monday, November 29, 2010 20:01:30

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 29, 2010 20:06:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40096.897	0.02				ug/L
|	Be	9	22566.771	0.08	50.6150	1.418	2.801	ug/L
|	Al	27	336985.759	1.17	47.8204	1.151	2.407	ug/L
|>	Sc	45	281936.404	281936.40				ug/L
⌈	Ti	49	64520.726	0.17	103.5199	4.249	4.104	ug/L
|	V	51	527038.891	1.35	51.3782	0.751	1.462	ug/L
|	Cr	52	452422.983	1.14	51.7471	0.775	1.499	ug/L
|	Cr	53	52888.128	0.14	52.4973	0.479	0.912	ug/L
|	Mn	55	711568.816	1.83	52.1922	0.764	1.464	ug/L
|	Co	59	584755.212	1.51	50.9548	0.687	1.349	ug/L
|	Ni	60	122170.766	0.31	50.3106	0.483	0.961	ug/L
|	Cu	65	118502.347	0.30	48.7231	0.793	1.627	ug/L
|	Zn	66	67465.153	0.15	47.3682	0.513	1.083	ug/L
|>	Ge	72	388107.272	388107.27				ug/L
|	As	75	44623.536	0.12	48.9915	0.282	0.575	ug/L
|	Se	77	3647.698	0.01	49.6045	2.403	4.845	ug/L
|	Se	82	4563.173	0.01	50.3532	0.426	0.846	ug/L
⌊	Rb	85	1788.511	0.00				mg/L
	Y	89	243561.774	-14685.83				ug/L
	Rh	103	21.000	13.33				ug/L
⌈	Mo	98	201744.293	0.61	94.6695	1.860	1.965	ug/L
|	Ag	107	240417.636	0.73	48.8881	0.902	1.846	ug/L
|	Cd	114	54555.611	0.16	48.2440	0.820	1.700	ug/L
|>	In	115	331435.086	331435.09				ug/L
|	Sn	118	184872.745	0.55	49.6491	0.495	0.996	ug/L
⌊	Sb	123	166684.549	0.50	48.2662	0.277	0.574	ug/L
⌈	Ba	135	75406.688	0.17	46.4528	0.487	1.049	ug/L
|	Ce	140	46.671	0.00				ug/L
|>	Tb	159	449538.648	449538.65				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	351902.536	0.83	48.0583	0.205	0.427	ug/L
|	Tl	205	864123.115	2.04	48.3528	0.161	0.332	ug/L
|	Pb	206	287449.738	0.68	47.8804	0.341	0.713	ug/L
|	Pb	207	267816.248	0.63	49.1914	0.195	0.396	ug/L
|	Pb	208	1202795.789	2.83	48.3302	0.131	0.271	ug/L
|	U	238	1708715.267	4.03	54.1573	0.520	0.960	ug/L
|>	Bi	209	423952.913	423952.91				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 20:08:16
Page 1

Approved: November 30, 2010

Na	23	30529810.456	108.21	4.7887	0.082	1.713	mg/L
Mg	24	19471597.054	69.07	4.6238	0.076	1.641	mg/L
K	39	49030770.923	172.36	4.7273	0.065	1.379	mg/L
Ca	43	106265.729	0.38	4.7643	0.115	2.404	mg/L
Fe	54	3653829.208	12.76	4.8559	0.080	1.645	mg/L
Fe	57	1448812.733	5.11	4.7005	0.058	1.229	mg/L
Sc-1	45	281936.404	281936.40				mg/L
Cl	35	21575.920	-9024.17				mg/L
Kr	83	30.000	-14.33				mg/L
Br	81	14344.283	4385.32				mg/L
P	31	11805.647	-3070.10				mg/L
S	34	212739.094	-4154.18				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	102.756				
Cr	52	103.494				
Cr	53					
Mn	55	104.384				
Co	59	101.910				
Ni	60	100.621				
Cu	65	97.446				
Zn	66	94.736				
Ge	72		93.017			
As	75	97.983				
Se	77					
Se	82	100.706				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	97.776				
Cd	114	96.488				
In	115		99.015			
Sn	118					
Sb	123	96.532				
Ba	135	92.906				
Ce	140					
Tb	159		100.258			
Ho	165					
Tl	203	96.117				
Tl	205					
Pb	206					
Pb	207					
Pb	208	96.660				
U	238	108.315				
Bi	209		98.712			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 20:08:16
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 20:08:16

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 29, 2010 20:12:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40147.263	0.03				ug/L
|	Be	9	3.333	0.00	-0.0019	0.003	137.556	ug/L
|	Al	27	5117.981	-0.01	-0.3332	0.056	16.740	ug/L
⌊>	Sc	45	276950.010	276950.01				ug/L
⌈	Ti	49	186.687	0.00	-0.0766	0.026	34.273	ug/L
|	V	51	2525.800	-0.00	-0.0253	0.008	30.684	ug/L
|	Cr	52	8135.389	-0.00	-0.1125	0.019	16.820	ug/L
|	Cr	53	246.694	-0.00	-0.0819	0.044	53.265	ug/L
|	Mn	55	322.008	-0.00	-0.0195	0.001	5.647	ug/L
|	Co	59	176.670	-0.00	-0.0140	0.000	2.919	ug/L
|	Ni	60	23.000	-0.00	-0.0312	0.002	6.938	ug/L
|	Cu	65	97.001	-0.00	-0.0510	0.005	10.082	ug/L
|	Zn	66	541.687	-0.02	-2.9353	0.002	0.074	ug/L
|>	Ge	72	388332.440	388332.44				ug/L
|	As	75	-152.700	0.00	0.0093	0.038	409.442	ug/L
|	Se	77	73.341	0.00	0.2060	0.502	243.596	ug/L
|	Se	82	12.362	0.00	0.0190	0.043	225.671	ug/L
⌊	Rb	85	15.333	-0.00				mg/L
	Y	89	247103.522	-11144.08				ug/L
	Rh	103	8.333	0.67				ug/L
⌈	Mo	98	1104.196	0.00	0.4854	0.078	16.050	ug/L
|	Ag	107	33.000	0.00	-0.0110	0.001	10.983	ug/L
|	Cd	114	15.841	-0.00	-0.0043	0.004	104.344	ug/L
|>	In	115	336025.469	336025.47				ug/L
|	Sn	118	1129.931	-0.00	-0.1178	0.019	15.732	ug/L
⌊	Sb	123	234.168	0.00	0.0914	0.011	12.037	ug/L
⌈	Ba	135	12.667	-0.00	-0.0151	0.001	6.184	ug/L
|	Ce	140	3.334	-0.00				ug/L
⌊>	Tb	159	460811.107	460811.11				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	25.000	-0.00	0.0034	0.001	15.506	ug/L
|	Tl	205	43.338	-0.00	-0.0155	0.000	1.959	ug/L
|	Pb	206	401.345	-0.00	-0.0575	0.003	5.613	ug/L
|	Pb	207	343.676	-0.00	-0.0305	0.002	5.995	ug/L
|	Pb	208	1640.070	-0.00	-0.0441	0.001	3.100	ug/L
|	U	238	3564.019	0.01	0.1294	0.021	16.405	ug/L
⌊>	Bi	209	434338.425	434338.42				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 20:14:59
Page 1

Approved: November 30, 2010

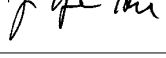
⌈	Na	23	20750.248	-0.00	-0.0021	0.000	0.902	mg/L
|	Mg	24	476.726	0.00	-0.0024	0.000	0.150	mg/L
|	K	39	435093.201	0.00	-0.0082	0.001	6.766	mg/L
|	Ca	43	113.345	-0.00	0.0016	0.001	47.826	mg/L
|	Fe	54	54039.354	-0.00	-0.0006	0.003	457.018	mg/L
|	Fe	57	8040.704	0.00	-0.0008	0.000	59.258	mg/L
⌊>	Sc-1	45	276950.010	276950.01				mg/L
	Cl	35	21171.722	-9428.36				mg/L
	Kr	83	35.000	-9.33				mg/L
	Br	81	13322.202	3363.24				mg/L
	P	31	10513.529	-4362.22				mg/L
	S	34	211834.022	-5059.25				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.071			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.387			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.772			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.130			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 20:14:59
Page 2

Approved: November 30, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 20:14:59

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, November 29, 2010 20:19:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40783.213	0.02				ug/L
|	Be	9	3.333	0.00	-0.0021	0.009	427.686	ug/L
|	Al	27	2683.694	-0.02	-0.7058	0.015	2.119	ug/L
⌊>	Sc	45	286410.628	286410.63				ug/L
⌈	Ti	49	93.343	0.00	-0.2307	0.055	23.897	ug/L
|	V	51	6698.975	0.01	0.3670	0.014	3.738	ug/L
|	Cr	52	15559.922	0.02	0.7083	0.018	2.492	ug/L
|	Cr	53	1146.848	0.00	0.7880	0.167	21.129	ug/L
|	Mn	55	7879.849	0.02	0.5207	0.011	2.049	ug/L
|	Co	59	5157.715	0.01	0.4089	0.003	0.664	ug/L
|	Ni	60	4184.251	0.01	1.6399	0.029	1.797	ug/L
|	Cu	65	2128.581	0.00	0.7635	0.019	2.545	ug/L
|	Zn	66	9089.555	0.00	3.3156	0.088	2.649	ug/L
|>	Ge	72	398215.184	398215.18				ug/L
|	As	75	227.678	0.00	0.4193	0.049	11.797	ug/L
|	Se	77	103.344	0.00	0.5779	0.398	68.848	ug/L
|	Se	82	46.717	0.00	0.3876	0.181	46.800	ug/L
⌊	Rb	85	13.667	-0.00				mg/L
	Y	89	250073.198	-8174.41				ug/L
	Rh	103	5.000	-2.67				ug/L
⌈	Mo	98	312.127	0.00	0.1153	0.011	9.232	ug/L
|	Ag	107	2091.573	0.01	0.3942	0.012	3.161	ug/L
|	Cd	114	249.386	0.00	0.1955	0.010	5.183	ug/L
|>	In	115	342413.396	342413.40				ug/L
|	Sn	118	814.033	-0.00	-0.2064	0.004	1.836	ug/L
⌊	Sb	123	1425.904	0.00	0.4239	0.008	1.817	ug/L
⌈	Ba	135	1205.752	0.00	0.6942	0.028	4.068	ug/L
|	Ce	140	13.335	0.00				ug/L
⌊>	Tb	159	465916.163	465916.16				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	608.025	0.00	0.0799	0.003	3.357	ug/L
|	Tl	205	1663.639	0.00	0.0716	0.007	9.810	ug/L
|	Pb	206	2830.429	0.00	0.3314	0.005	1.578	ug/L
|	Pb	207	2623.037	0.00	0.3718	0.005	1.263	ug/L
|	Pb	208	11742.173	0.02	0.3461	0.010	2.895	ug/L
|	U	238	15042.457	0.03	0.4773	0.004	0.789	ug/L
⌊>	Bi	209	441015.609	441015.61				ug/L

Sample ID: QC Std 8
Report Date/Time: Monday, November 29, 2010 20:21:48
Page 1

Approved: November 30, 2010

⌈	Na	23	19751.461	-0.01	-0.0024	0.000	0.645	mg/L
|	Mg	24	270.031	-0.00	-0.0024	0.000	0.344	mg/L
|	K	39	429700.800	-0.07	-0.0101	0.001	8.499	mg/L
|	Ca	43	80.008	-0.00	-0.0001	0.002	2633.338	mg/L
|	Fe	54	52546.209	-0.02	-0.0051	0.002	39.944	mg/L
|	Fe	57	7853.874	-0.00	-0.0023	0.001	62.181	mg/L
⌊>	Sc-1	45	286410.628	286410.63				mg/L
	Cl	35	20329.313	-10270.77				mg/L
	Kr	83	32.667	-11.67				mg/L
	Br	81	12260.845	2301.89				mg/L
	P	31	11265.695	-3610.05				mg/L
	S	34	212204.437	-4688.83				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	91.760				
|	Cr	52	88.533				
|	Cr	53					
|	Mn	55	104.130				
|	Co	59	102.219				
|	Ni	60	102.494				
|	Cu	65	95.437				
|	Zn	66	53.049				
|>	Ge	72		95.440			
|	As	75	104.817				
|	Se	77					
|	Se	82	96.899				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	98.561				
|	Cd	114	97.736				
|>	In	115		102.295			
|	Sn	118					
⌊	Sb	123	105.982				
⌈	Ba	135	92.565				
|	Ce	140					
⌊>	Tb	159		103.911			
⌈	Ho	165					
|	Tl	203	99.821				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	86.516				
|	U	238	119.326				
⌊>	Bi	209		102.685			
⌈	Na	23					

Sample ID: QC Std 8
Report Date/Time: Monday, November 29, 2010 20:21:48
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Zn	66	LLCCV IS OUT OF LIMITS (+/-20%)

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: PBS 08 WG349608-02

Sample Date/Time: Monday, November 29, 2010 20:26:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 53
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39661.956	0.02				ug/L
|	Be	9	2.000	-0.00	-0.0051	0.004	86.165	ug/L
|	Al	27	8019.896	0.00	0.0421	0.101	240.399	ug/L
⌊>	Sc	45	290200.743	290200.74				ug/L
⌈	Ti	49	73.341	0.00	-0.2641	0.030	11.420	ug/L
|	V	51	2605.630	-0.00	-0.0273	0.011	40.435	ug/L
|	Cr	52	8360.911	-0.00	-0.1241	0.018	14.564	ug/L
|	Cr	53	203.356	-0.00	-0.1326	0.010	7.241	ug/L
|	Mn	55	1738.502	0.00	0.0794	0.005	6.292	ug/L
|	Co	59	178.337	-0.00	-0.0145	0.000	2.539	ug/L
|	Ni	60	85.335	0.00	-0.0069	0.003	46.264	ug/L
|	Cu	65	198.004	0.00	-0.0125	0.010	81.458	ug/L
|	Zn	66	2377.973	-0.01	-1.6252	0.042	2.587	ug/L
|>	Ge	72	404065.217	404065.22				ug/L
|	As	75	-194.259	0.00	-0.0274	0.045	164.841	ug/L
|	Se	77	73.341	0.00	0.1655	0.292	176.678	ug/L
|	Se	82	0.664	0.00	-0.1110	0.135	121.273	ug/L
⌊	Rb	85	25.667	0.00				mg/L
	Y	89	253627.972	-4619.63				ug/L
	Rh	103	6.667	-1.00				ug/L
⌈	Mo	98	242.868	0.00	0.0817	0.004	4.955	ug/L
|	Ag	107	23.667	0.00	-0.0130	0.001	6.420	ug/L
|	Cd	114	11.694	-0.00	-0.0082	0.011	136.266	ug/L
|>	In	115	349292.743	349292.74				ug/L
|	Sn	118	734.694	-0.00	-0.2310	0.001	0.406	ug/L
⌊	Sb	123	59.329	0.00	0.0408	0.002	4.233	ug/L
⌈	Ba	135	26.000	0.00	-0.0074	0.002	29.291	ug/L
|	Ce	140	23.336	0.00				ug/L
⌊>	Tb	159	470164.879	470164.88				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	17.334	-0.00	0.0023	0.000	8.237	ug/L
|	Tl	205	66.674	-0.00	-0.0143	0.001	5.557	ug/L
|	Pb	206	451.015	-0.00	-0.0514	0.002	4.356	ug/L
|	Pb	207	400.679	-0.00	-0.0222	0.003	12.334	ug/L
|	Pb	208	1825.751	-0.00	-0.0387	0.001	3.471	ug/L
|	U	238	412.679	0.00	0.0316	0.000	1.232	ug/L
⌊>	Bi	209	446464.598	446464.60				ug/L

Approved: November 30, 2010

⌈	Na	23	61363.925	0.13	0.0039	0.000	7.101	mg/L
|	Mg	24	2200.463	0.01	-0.0020	0.000	1.283	mg/L
|	K	39	450766.696	-0.02	-0.0087	0.000	0.849	mg/L
|	Ca	43	220.025	-0.00	0.0060	0.004	62.739	mg/L
|	Fe	54	55266.517	-0.01	-0.0024	0.001	53.950	mg/L
|	Fe	57	7840.527	-0.00	-0.0027	0.001	35.802	mg/L
⌊>	Sc-1	45	290200.743	290200.74				mg/L
	Cl	35	20546.423	-10053.66				mg/L
	Kr	83	38.667	-5.67				mg/L
	Br	81	11953.140	1994.18				mg/L
	P	31	12616.118	-2259.63				mg/L
	S	34	212243.773	-4649.50				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72		96.842			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
\>	In	115		104.350			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.858			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.954			
⌈	Na	23					

Sample ID: PBS 08 WG349608-02
Report Date/Time: Monday, November 29, 2010 20:28:34
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 08 WG349608-02
Report Date/Time: Monday, November 29, 2010 20:28:34
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: LCSS 08 WG349608-03

Sample Date/Time: Monday, November 29, 2010 20:33:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 54
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40281.223	0.02				ug/L
|	Be	9	11349.774	0.04	25.1963	0.393	1.558	ug/L
|	Al	27	172069.247	0.58	23.6541	1.311	5.544	ug/L
⌊>	Sc	45	284679.172	284679.17				ug/L
⌈	Ti	49	113.345	0.00	-0.1983	0.011	5.645	ug/L
|	V	51	272831.778	0.68	25.9206	0.225	0.869	ug/L
|	Cr	52	242861.881	0.59	26.7095	0.178	0.666	ug/L
|	Cr	53	28299.486	0.07	27.3655	0.253	0.925	ug/L
|	Mn	55	376524.341	0.95	27.0357	0.187	0.690	ug/L
|	Co	59	301589.773	0.76	25.7322	0.161	0.627	ug/L
|	Ni	60	64263.804	0.16	25.9107	0.317	1.225	ug/L
|	Cu	65	63279.931	0.16	25.4456	0.248	0.974	ug/L
|	Zn	66	35262.758	0.07	22.6233	0.175	0.775	ug/L
|>	Ge	72	396144.332	396144.33				ug/L
|	As	75	23029.254	0.06	24.8594	0.440	1.770	ug/L
|	Se	77	1887.035	0.00	24.7666	3.566	14.400	ug/L
|	Se	82	2381.661	0.01	25.6887	0.601	2.341	ug/L
⌊	Rb	85	19.000	-0.00				mg/L
	Y	89	247506.950	-10740.65				ug/L
	Rh	103	15.333	7.67				ug/L
⌈	Mo	98	139.902	0.00	0.0379	0.010	25.487	ug/L
|	Ag	107	127357.468	0.38	25.3577	0.325	1.284	ug/L
|	Cd	114	29146.720	0.09	25.2384	0.343	1.358	ug/L
|>	In	115	338389.423	338389.42				ug/L
|	Sn	118	843.902	-0.00	-0.1958	0.009	4.437	ug/L
⌊	Sb	123	87713.694	0.26	24.8942	0.686	2.756	ug/L
⌈	Ba	135	39604.677	0.09	23.8943	0.218	0.914	ug/L
|	Ce	140	40.004	0.00				ug/L
⌊>	Tb	159	458796.289	458796.29				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	185845.581	0.42	24.5577	0.189	0.768	ug/L
|	Tl	205	458038.105	1.05	24.7908	0.512	2.064	ug/L
|	Pb	206	156794.590	0.36	25.2116	0.291	1.154	ug/L
|	Pb	207	137539.826	0.31	24.3977	0.306	1.254	ug/L
|	Pb	208	640923.115	1.46	24.8650	0.175	0.705	ug/L
|	U	238	880920.764	2.01	27.0246	0.232	0.859	ug/L
⌊>	Bi	209	438172.734	438172.73				ug/L

Approved: November 30, 2010

⌈	Na	23	29111.927	0.02	-0.0009	0.000	23.924	mg/L
|	Mg	24	1733.657	0.01	-0.0021	0.000	1.444	mg/L
|	K	39	446323.828	-0.00	-0.0082	0.001	12.871	mg/L
|	Ca	43	223.358	-0.00	0.0063	0.003	45.612	mg/L
|	Fe	54	55679.493	-0.00	-0.0005	0.002	440.441	mg/L
|	Fe	57	8010.680	0.00	-0.0016	0.002	99.327	mg/L
⌊>	Sc-1	45	284679.172	284679.17				mg/L
	Cl	35	21199.782	-9400.30				mg/L
	Kr	83	37.000	-7.33				mg/L
	Br	81	11611.406	1652.45				mg/L
	P	31	12045.920	-2829.83				mg/L
	S	34	216115.172	-778.10				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.944			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.093			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.323			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.023			
⌈	Na	23					

Sample ID: LCSS 08 WG349608-03
Report Date/Time: Monday, November 29, 2010 20:35:20
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 08 WG349608-03
Report Date/Time: Monday, November 29, 2010 20:35:20
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066519 WG349608-01

Sample Date/Time: Monday, November 29, 2010 20:39:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 55
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41502.613	0.03				ug/L
|	Be	9	231.336	0.00	0.5007	0.098	19.520	ug/L
|	Al	27	37232898.319	129.84	5312.4008	493.081	9.282	ug/L
⌊>	Sc	45	286822.050	286822.05				ug/L
⌈	Ti	49	1106.839	0.00	1.3436	0.126	9.374	ug/L
|	V	51	80723.032	0.19	7.3692	0.721	9.781	ug/L
|	Cr	52	49415.730	0.10	4.5100	0.454	10.067	ug/L
|	Cr	53	4995.081	0.01	4.4911	0.178	3.955	ug/L
|	Mn	55	2101797.668	5.23	148.9940	13.219	8.872	ug/L
|	Co	59	33783.294	0.08	2.8163	0.284	10.090	ug/L
|	Ni	60	12924.850	0.03	5.1054	0.478	9.362	ug/L
|	Cu	65	13989.644	0.03	5.4761	0.567	10.348	ug/L
|	Zn	66	42842.642	0.09	27.7604	2.375	8.554	ug/L
|>	Ge	72	401935.308	401935.31				ug/L
|	As	75	1817.157	0.01	2.0965	0.117	5.567	ug/L
|	Se	77	100.011	0.00	0.5283	0.724	136.988	ug/L
|	Se	82	30.986	0.00	0.2142	0.220	102.818	ug/L
⌊	Rb	85	70802.423	0.18				mg/L
	Y	89	303177.336	44929.73				ug/L
	Rh	103	22.000	14.33				ug/L
⌈	Mo	98	235.087	0.00	0.0830	0.004	5.287	ug/L
|	Ag	107	287.007	0.00	0.0403	0.000	0.791	ug/L
|	Cd	114	114.669	0.00	0.0825	0.004	5.117	ug/L
|>	In	115	334159.265	334159.26				ug/L
|	Sn	118	572.683	-0.00	-0.2659	0.005	1.762	ug/L
⌊	Sb	123	200.328	0.00	0.0820	0.004	4.964	ug/L
⌈	Ba	135	100284.750	0.22	61.3669	5.650	9.207	ug/L
|	Ce	140	521644.402	1.15				ug/L
⌊>	Tb	159	452824.845	452824.84				ug/L
⌈	Ho	165	4641.543	0.01				ug/L
|	Tl	203	599.357	0.00	0.0801	0.005	6.627	ug/L
|	Tl	205	1576.949	0.00	0.0684	0.003	4.545	ug/L
|	Pb	206	46295.204	0.11	7.4368	0.687	9.242	ug/L
|	Pb	207	37973.429	0.09	6.7415	0.692	10.266	ug/L
|	Pb	208	181128.043	0.41	7.0245	0.697	9.924	ug/L
|	U	238	33090.175	0.08	1.0443	0.081	7.775	ug/L
⌊>	Bi	209	433747.059	433747.06				ug/L

Sample ID: L1011066519 WG349608-01
Report Date/Time: Monday, November 29, 2010 20:42:07
Page 1

Approved: November 30, 2010

⌈	Na	23	789465.465	2.67	0.1164	0.010	8.189	mg/L
|	Mg	24	9805956.817	34.19	2.2878	0.211	9.237	mg/L
|	K	39	21641675.744	73.89	2.0220	0.143	7.054	mg/L
|	Ca	43	189828.317	0.66	8.3685	0.702	8.392	mg/L
|	Fe	54	5209268.041	17.97	6.8373	0.658	9.624	mg/L
|	Fe	57	2115859.137	7.35	6.7611	0.663	9.811	mg/L
⌊>	Sc-1	45	286822.050	286822.05				mg/L
	Cl	35	27767.170	-2832.92				mg/L
	Kr	83	40.000	-4.33				mg/L
	Br	81	12262.186	2303.23				mg/L
	P	31	89286.509	74410.76				mg/L
	S	34	215742.904	-1150.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.332			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.829			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.991			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.993			
⌈	Na	23					

Sample ID: L1011066519 WG349608-01
Report Date/Time: Monday, November 29, 2010 20:42:07
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066520S WG349608-04

Sample Date/Time: Monday, November 29, 2010 20:46:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 56
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43812.446	0.03				ug/L
|	Be	9	2334.956	0.01	5.0491	1.725	34.159	ug/L
|	Al	27	25049640.217	85.76	3509.1304	1134.906	32.342	ug/L
⌊>	Sc	45	294460.227	294460.23				ug/L
⌈	Ti	49	1000.152	0.00	1.1403	0.375	32.900	ug/L
|	V	51	111904.397	0.26	10.0646	2.826	28.083	ug/L
|	Cr	52	77572.241	0.17	7.4735	2.345	31.382	ug/L
|	Cr	53	8484.632	0.02	7.6617	2.287	29.852	ug/L
|	Mn	55	1971330.723	4.79	136.3673	38.417	28.172	ug/L
|	Co	59	80447.298	0.19	6.5832	1.877	28.514	ug/L
|	Ni	60	22349.453	0.05	8.6433	2.486	28.768	ug/L
|	Cu	65	22645.103	0.05	8.7026	2.468	28.355	ug/L
|	Zn	66	47778.968	0.10	30.5065	8.652	28.361	ug/L
|>	Ge	72	412349.296	412349.30				ug/L
|	As	75	4448.847	0.01	4.7632	1.126	23.638	ug/L
|	Se	77	296.701	0.00	3.0562	1.415	46.311	ug/L
|	Se	82	375.024	0.00	3.7897	0.652	17.207	ug/L
⌊	Rb	85	44625.039	0.11				mg/L
	Y	89	304605.581	46357.98				ug/L
	Rh	103	22.334	14.67				ug/L
⌈	Mo	98	228.461	0.00	0.0765	0.008	11.078	ug/L
|	Ag	107	20184.656	0.06	3.9236	0.955	24.352	ug/L
|	Cd	114	5204.233	0.02	4.4014	1.136	25.808	ug/L
|>	In	115	345441.149	345441.15				ug/L
|	Sn	118	660.689	-0.00	-0.2481	0.011	4.561	ug/L
⌊	Sb	123	360.378	0.00	0.1246	0.018	14.630	ug/L
⌈	Ba	135	93499.957	0.20	55.3751	16.087	29.052	ug/L
|	Ce	140	439638.413	0.94				ug/L
⌊>	Tb	159	468142.406	468142.41				ug/L
⌈	Ho	165	3877.871	0.01				ug/L
|	Tl	203	28198.582	0.06	3.6748	0.962	26.184	ug/L
|	Tl	205	70320.148	0.16	3.7382	0.993	26.568	ug/L
|	Pb	206	64708.187	0.14	10.1910	3.006	29.496	ug/L
|	Pb	207	54296.216	0.12	9.4454	2.824	29.896	ug/L
|	Pb	208	256467.223	0.57	9.7498	2.875	29.484	ug/L
|	U	238	170375.304	0.38	5.1718	1.505	29.095	ug/L
⌊>	Bi	209	445547.662	445547.66				ug/L

Sample ID: L1011066520S WG349608-04
Report Date/Time: Monday, November 29, 2010 20:48:54
Page 1

Approved: November 30, 2010

⌈	Na	23	772725.467	2.56	0.1116	0.033	29.580	mg/L
|	Mg	24	7785028.819	26.66	1.7829	0.566	31.728	mg/L
|	K	39	15717826.342	52.16	1.4250	0.377	26.435	mg/L
|	Ca	43	159194.079	0.54	6.8884	2.068	30.019	mg/L
|	Fe	54	4157172.351	14.04	5.3435	1.762	32.973	mg/L
|	Fe	57	1665800.988	5.68	5.2208	1.645	31.518	mg/L
⌊>	Sc-1	45	294460.227	294460.23				mg/L
	Cl	35	25572.014	-5028.07				mg/L
	Kr	83	37.000	-7.33				mg/L
	Br	81	12138.030	2179.07				mg/L
	P	31	87288.851	72413.10				mg/L
	S	34	217617.267	724.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.827			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.200			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.407			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.740			
⌈	Na	23					

Sample ID: L1011066520S WG349608-04
Report Date/Time: Monday, November 29, 2010 20:48:54
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011066520S WG349608-04
Report Date/Time: Monday, November 29, 2010 20:48:54
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066521SD WG349608-05

Sample Date/Time: Monday, November 29, 2010 20:53:29
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 57
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40916.926	0.02				ug/L
|	Be	9	2506.981	0.01	5.3688	0.117	2.170	ug/L
|	Al	27	35310812.824	119.80	4901.6196	232.998	4.753	ug/L
⌊>	Sc	45	294764.723	294764.72				ug/L
⌈	Ti	49	1216.863	0.00	1.5168	0.097	6.404	ug/L
|	V	51	125295.182	0.31	11.6059	0.523	4.509	ug/L
|	Cr	52	92187.146	0.21	9.3482	0.441	4.715	ug/L
|	Cr	53	10009.350	0.02	9.3463	0.622	6.655	ug/L
|	Mn	55	2201081.874	5.49	156.2597	5.797	3.710	ug/L
|	Co	59	91660.387	0.23	7.7028	0.354	4.595	ug/L
|	Ni	60	25062.307	0.06	9.9530	0.463	4.654	ug/L
|	Cu	65	25715.309	0.06	10.1572	0.491	4.835	ug/L
|	Zn	66	48988.570	0.10	32.2781	1.305	4.043	ug/L
| >	Ge	72	401299.739	401299.74				ug/L
|	As	75	5672.351	0.01	6.1794	0.273	4.419	ug/L
|	Se	77	413.383	0.00	4.7229	1.139	24.112	ug/L
|	Se	82	431.282	0.00	4.4973	0.249	5.537	ug/L
⌊	Rb	85	67191.092	0.17				mg/L
	Y	89	301746.308	43498.70				ug/L
	Rh	103	28.334	20.67				ug/L
⌈	Mo	98	247.718	0.00	0.0895	0.007	7.847	ug/L
|	Ag	107	22384.924	0.07	4.5249	0.055	1.220	ug/L
|	Cd	114	5753.310	0.02	5.0597	0.020	0.387	ug/L
| >	In	115	332192.546	332192.55				ug/L
|	Sn	118	688.157	-0.00	-0.2338	0.008	3.222	ug/L
⌊	Sb	123	293.751	0.00	0.1093	0.008	7.337	ug/L
⌈	Ba	135	106460.828	0.23	64.3425	2.216	3.445	ug/L
|	Ce	140	515865.358	1.13				ug/L
⌊>	Tb	159	458286.234	458286.23				ug/L
⌈	Ho	165	4474.783	0.01				ug/L
|	Tl	203	33531.127	0.08	4.5181	0.092	2.044	ug/L
|	Tl	205	83562.724	0.19	4.5971	0.119	2.578	ug/L
|	Pb	206	73545.008	0.17	11.9953	0.477	3.973	ug/L
|	Pb	207	62456.475	0.14	11.2481	0.396	3.525	ug/L
|	Pb	208	293677.558	0.68	11.5608	0.452	3.908	ug/L
|	U	238	194551.250	0.45	6.1014	0.209	3.420	ug/L
⌊>	Bi	209	429776.853	429776.85				ug/L

Sample ID: L1011066521SD WG349608-05
Report Date/Time: Monday, November 29, 2010 20:55:41
Page 1

Approved: November 30, 2010

⌈	Na	23	756724.418	2.49	0.1082	0.005	4.290	mg/L
|	Mg	24	9495913.651	32.22	2.1555	0.072	3.334	mg/L
|	K	39	20982083.319	69.62	1.9046	0.060	3.141	mg/L
|	Ca	43	167426.825	0.57	7.1818	0.180	2.505	mg/L
|	Fe	54	5140453.769	17.24	6.5613	0.213	3.241	mg/L
|	Fe	57	2082705.048	7.04	6.4747	0.227	3.506	mg/L
⌊>	Sc-1	45	294764.723	294764.72				mg/L
	Cl	35	26501.070	-4099.02				mg/L
	Kr	83	46.001	1.67				mg/L
	Br	81	11530.644	1571.69				mg/L
	P	31	93031.596	78155.85				mg/L
	S	34	207825.685	-9067.58				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.179			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.242			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.209			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.068			
⌈	Na	23					

Sample ID: L1011066521SD WG349608-05
Report Date/Time: Monday, November 29, 2010 20:55:41
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011066521SD WG349608-05
Report Date/Time: Monday, November 29, 2010 20:55:41
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066526

Sample Date/Time: Monday, November 29, 2010 21:00:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 58
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42406.437	0.03				ug/L
|	Be	9	191.335	0.00	0.4068	0.088	21.752	ug/L
|	Al	27	32292537.945	110.77	4532.3094	1606.291	35.441	ug/L
⌊>	Sc	45	289807.710	289807.71				ug/L
⌈	Ti	49	1133.517	0.00	1.3806	0.683	49.505	ug/L
|	V	51	75869.077	0.18	6.8846	2.339	33.973	ug/L
|	Cr	52	45599.984	0.09	4.0614	1.590	39.155	ug/L
|	Cr	53	4568.233	0.01	4.0647	1.410	34.688	ug/L
|	Mn	55	1855047.081	4.60	131.0644	45.333	34.589	ug/L
|	Co	59	32741.150	0.08	2.7193	0.953	35.049	ug/L
|	Ni	60	12506.541	0.03	4.9227	1.745	35.455	ug/L
|	Cu	65	15253.891	0.04	5.9582	1.994	33.467	ug/L
|	Zn	66	45095.423	0.09	29.2839	10.287	35.129	ug/L
|>	Ge	72	404276.885	404276.89				ug/L
|	As	75	1792.797	0.00	2.0637	0.569	27.563	ug/L
|	Se	77	80.008	0.00	0.2525	0.279	110.581	ug/L
|	Se	82	38.682	0.00	0.2929	0.121	41.409	ug/L
⌊	Rb	85	64983.588	0.16				mg/L
	Y	89	298535.024	40287.42				ug/L
	Rh	103	28.667	21.00				ug/L
⌈	Mo	98	222.164	0.00	0.0776	0.024	31.478	ug/L
|	Ag	107	222.671	0.00	0.0276	0.013	47.639	ug/L
|	Cd	114	98.975	0.00	0.0692	0.022	32.478	ug/L
|>	In	115	333038.110	333038.11				ug/L
|	Sn	118	705.892	-0.00	-0.2295	0.008	3.512	ug/L
⌊	Sb	123	56.786	0.00	0.0408	0.002	4.930	ug/L
⌈	Ba	135	91507.573	0.20	55.1502	18.930	34.325	ug/L
|	Ce	140	476453.248	1.04				ug/L
⌊>	Tb	159	459351.629	459351.63				ug/L
⌈	Ho	165	4081.326	0.01				ug/L
|	Tl	203	1685.854	0.00	0.2269	0.129	56.927	ug/L
|	Tl	205	4154.774	0.01	0.2112	0.126	59.575	ug/L
|	Pb	206	39194.537	0.09	6.3063	2.232	35.401	ug/L
|	Pb	207	32315.940	0.07	5.7496	2.050	35.657	ug/L
|	Pb	208	153342.417	0.35	5.9576	2.124	35.648	ug/L
|	U	238	36346.243	0.08	1.1505	0.401	34.896	ug/L
⌊>	Bi	209	433595.721	433595.72				ug/L

Sample ID: L1011066526
Report Date/Time: Monday, November 29, 2010 21:02:29
Page 1

Approved: November 30, 2010

⌈	Na	23	1378812.798	4.66	0.2043	0.058	28.272	mg/L
|	Mg	24	10344633.469	35.51	2.3761	0.768	32.342	mg/L
|	K	39	20042024.029	67.29	1.8406	0.505	27.444	mg/L
|	Ca	43	223377.332	0.77	9.6961	3.165	32.643	mg/L
|	Fe	54	4906555.200	16.64	6.3324	2.153	34.004	mg/L
|	Fe	57	1973833.819	6.75	6.2062	2.058	33.167	mg/L
⌊>	Sc-1	45	289807.710	289807.71				mg/L
	Cl	35	32966.442	2366.36				mg/L
	Kr	83	36.667	-7.67				mg/L
	Br	81	12300.897	2341.94				mg/L
	P	31	142469.736	127593.99				mg/L
	S	34	211065.496	-5827.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.893			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.494			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.447			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.957			
⌈	Na	23					

Sample ID: L1011066526
Report Date/Time: Monday, November 29, 2010 21:02:29
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066527

Sample Date/Time: Monday, November 29, 2010 21:07:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 59
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41569.757	0.02				ug/L
|	Be	9	188.002	0.00	0.3820	0.041	10.713	ug/L
|	Al	27	32607880.097	107.35	4392.4958	118.730	2.703	ug/L
⌊>	Sc	45	303692.798	303692.80				ug/L
⌈	Ti	49	1483.592	0.00	1.9421	0.213	10.984	ug/L
|	V	51	78822.486	0.19	7.2265	0.050	0.692	ug/L
|	Cr	52	46930.009	0.09	4.2563	0.062	1.463	ug/L
|	Cr	53	4834.987	0.01	4.3622	0.274	6.278	ug/L
|	Mn	55	1965101.072	4.91	139.9916	1.485	1.061	ug/L
|	Co	59	31994.431	0.08	2.6788	0.031	1.156	ug/L
|	Ni	60	12946.840	0.03	5.1397	0.082	1.593	ug/L
|	Cu	65	15095.204	0.04	5.9455	0.053	0.884	ug/L
|	Zn	66	41452.826	0.08	26.9056	0.254	0.945	ug/L
|>	Ge	72	399766.348	399766.35				ug/L
|	As	75	1633.264	0.00	1.9106	0.108	5.652	ug/L
|	Se	77	103.344	0.00	0.5778	0.554	95.928	ug/L
|	Se	82	31.621	0.00	0.2220	0.115	51.899	ug/L
⌊	Rb	85	67719.201	0.17				mg/L
	Y	89	296484.818	38237.22				ug/L
	Rh	103	24.334	16.67				ug/L
⌈	Mo	98	279.719	0.00	0.1031	0.007	6.325	ug/L
|	Ag	107	240.339	0.00	0.0307	0.002	5.158	ug/L
|	Cd	114	118.779	0.00	0.0856	0.005	6.366	ug/L
|>	In	115	335840.030	335840.03				ug/L
|	Sn	118	905.108	-0.00	-0.1779	0.000	0.166	ug/L
⌊	Sb	123	51.453	0.00	0.0392	0.002	4.624	ug/L
⌈	Ba	135	91986.404	0.20	55.7431	0.693	1.244	ug/L
|	Ce	140	457376.806	1.00				ug/L
⌊>	Tb	159	457055.069	457055.07				ug/L
⌈	Ho	165	4011.206	0.01				ug/L
|	Tl	203	1174.416	0.00	0.1590	0.031	19.588	ug/L
|	Tl	205	2914.056	0.01	0.1437	0.026	18.011	ug/L
|	Pb	206	39108.055	0.09	6.3462	0.072	1.127	ug/L
|	Pb	207	31879.395	0.07	5.7190	0.084	1.462	ug/L
|	Pb	208	152854.032	0.35	5.9891	0.059	0.990	ug/L
|	U	238	35286.177	0.08	1.1267	0.019	1.652	ug/L
⌊>	Bi	209	427978.298	427978.30				ug/L

Sample ID: L1011066527
Report Date/Time: Monday, November 29, 2010 21:09:14
Page 1

Approved: November 30, 2010

⌈	Na	23	1246255.127	4.02	0.1762	0.003	1.665	mg/L
|	Mg	24	15545860.631	51.19	3.4264	0.054	1.567	mg/L
|	K	39	20780363.305	66.85	1.8286	0.020	1.113	mg/L
|	Ca	43	327992.622	1.08	13.6561	0.152	1.116	mg/L
|	Fe	54	4893668.725	15.92	6.0565	0.126	2.084	mg/L
|	Fe	57	1996297.904	6.55	6.0215	0.171	2.837	mg/L
⌊>	Sc-1	45	303692.798	303692.80				mg/L
	Cl	35	30643.553	43.47				mg/L
	Kr	83	43.667	-0.67				mg/L
	Br	81	12416.370	2457.41				mg/L
	P	31	140993.199	126117.45				mg/L
	S	34	220776.358	3883.09				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.812			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.331			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.934			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.650			
⌈	Na	23					

Sample ID: L1011066527
Report Date/Time: Monday, November 29, 2010 21:09:14
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066527PS WG349908-01

Sample Date/Time: Monday, November 29, 2010 21:13:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 60
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41653.346	0.02				ug/L
|	Be	9	24183.206	0.08	50.9033	1.092	2.145	ug/L
|	Al	27	33253580.693	110.68	4528.5895	89.625	1.979	ug/L
⌊>	Sc	45	300413.127	300413.13				ug/L
⌈	Ti	49	1376.901	0.00	1.8043	0.347	19.214	ug/L
|	V	51	641474.689	1.62	61.5596	0.826	1.342	ug/L
|	Cr	52	528393.126	1.32	59.6015	0.674	1.130	ug/L
|	Cr	53	61685.929	0.16	60.2834	1.957	3.246	ug/L
|	Mn	55	2691839.311	6.82	194.3135	0.580	0.298	ug/L
|	Co	59	660996.570	1.67	56.6587	0.759	1.339	ug/L
|	Ni	60	145671.835	0.37	59.0142	0.232	0.393	ug/L
|	Cu	65	142620.267	0.36	57.6965	0.378	0.655	ug/L
|	Zn	66	110674.170	0.26	78.4798	0.228	0.290	ug/L
|>	Ge	72	394567.196	394567.20				ug/L
|	As	75	50098.167	0.13	54.0838	0.320	0.591	ug/L
|	Se	77	4007.871	0.01	53.6741	2.186	4.072	ug/L
|	Se	82	4995.978	0.01	54.2322	0.362	0.668	ug/L
⌊	Rb	85	66925.550	0.17				mg/L
	Y	89	296852.353	38604.75				ug/L
	Rh	103	48.667	41.00				ug/L
⌈	Mo	98	274.682	0.00	0.1021	0.007	6.567	ug/L
|	Ag	107	250443.152	0.75	50.7793	0.207	0.407	ug/L
|	Cd	114	59044.171	0.18	52.0653	0.503	0.966	ug/L
|>	In	115	332372.628	332372.63				ug/L
|	Sn	118	1006.184	-0.00	-0.1480	0.003	2.096	ug/L
⌊	Sb	123	179496.874	0.54	51.8254	0.435	0.839	ug/L
⌈	Ba	135	171351.243	0.38	104.8302	1.231	1.174	ug/L
|	Ce	140	454833.317	1.00				ug/L
⌊>	Tb	159	452766.688	452766.69				ug/L
⌈	Ho	165	3907.824	0.01				ug/L
|	Tl	203	376805.061	0.88	51.1342	0.317	0.620	ug/L
|	Tl	205	930330.541	2.18	51.7292	0.690	1.334	ug/L
|	Pb	206	355128.323	0.83	58.8070	0.686	1.166	ug/L
|	Pb	207	309290.654	0.72	56.4639	0.254	0.451	ug/L
|	Pb	208	1440006.449	3.37	57.5143	0.226	0.393	ug/L
|	U	238	1849737.813	4.34	58.2558	0.579	0.993	ug/L
⌊>	Bi	209	426667.404	426667.40				ug/L

Sample ID: L1011066527PS WG349908-01
Report Date/Time: Monday, November 29, 2010 21:15:58
Page 1

Approved: November 30, 2010

Na	23	1243387.723	4.06	0.1778	0.003	1.594	mg/L	
Mg	24	15771062.225	52.50	3.5141	0.042	1.209	mg/L	
K	39	20589849.959	66.98	1.8320	0.040	2.191	mg/L	
Ca	43	326624.211	1.09	13.7510	0.244	1.771	mg/L	
Fe	54	4848707.135	15.95	6.0678	0.166	2.733	mg/L	
Fe	57	1957457.418	6.49	5.9681	0.040	0.667	mg/L	
> Sc-1	45	300413.127	300413.13				mg/L	
Cl	35	30678.992	78.91				mg/L	
Kr	83	39.000	-5.33				mg/L	
Br	81	12288.883	2329.93				mg/L	
P	31	140784.800	125909.05				mg/L	
S	34	234031.902	17138.63				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		94.566			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		99.296			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		100.978			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		99.344			
Na	23					

Sample ID: L1011066527PS WG349908-01
Report Date/Time: Monday, November 29, 2010 21:15:58
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066527SDL WG349908-02

Sample Date/Time: Monday, November 29, 2010 21:20:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 61
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40147.122	0.03				ug/L
|	Be	9	45.333	0.00	0.0936	0.030	31.564	ug/L
|	Al	27	6450788.276	23.16	947.7120	60.551	6.389	ug/L
⌊>	Sc	45	278684.443	278684.44				ug/L
⌈	Ti	49	260.029	0.00	0.0223	0.067	301.524	ug/L
|	V	51	17654.930	0.04	1.3780	0.022	1.624	ug/L
|	Cr	52	15478.124	0.02	0.6620	0.015	2.289	ug/L
|	Cr	53	976.812	0.00	0.6031	0.070	11.528	ug/L
|	Mn	55	383553.629	0.94	26.8189	0.396	1.478	ug/L
|	Co	59	6424.127	0.02	0.5050	0.002	0.473	ug/L
|	Ni	60	2711.061	0.01	1.0254	0.006	0.599	ug/L
|	Cu	65	3188.874	0.01	1.1623	0.028	2.380	ug/L
|	Zn	66	11566.468	0.01	4.9523	0.130	2.618	ug/L
|>	Ge	72	406791.112	406791.11				ug/L
|	As	75	208.669	0.00	0.3941	0.068	17.129	ug/L
|	Se	77	66.674	-0.00	0.0674	0.330	489.486	ug/L
|	Se	82	7.962	0.00	-0.0331	0.071	214.799	ug/L
⌊	Rb	85	13472.538	0.03				mg/L
	Y	89	251508.569	-6739.03				ug/L
	Rh	103	7.333	-0.33				ug/L
⌈	Mo	98	77.266	0.00	0.0095	0.003	26.936	ug/L
|	Ag	107	87.001	0.00	-0.0000	0.002	4485.549	ug/L
|	Cd	114	18.787	-0.00	-0.0016	0.004	236.857	ug/L
|>	In	115	334376.339	334376.34				ug/L
|	Sn	118	600.151	-0.00	-0.2587	0.001	0.551	ug/L
⌊	Sb	123	274.710	0.00	0.1033	0.005	4.812	ug/L
⌈	Ba	135	18573.420	0.04	11.3767	0.188	1.652	ug/L
|	Ce	140	93137.824	0.21				ug/L
⌊>	Tb	159	451457.052	451457.05				ug/L
⌈	Ho	165	840.119	0.00				ug/L
|	Tl	203	167.336	0.00	0.0220	0.002	10.448	ug/L
|	Tl	205	456.723	0.00	0.0067	0.002	30.988	ug/L
|	Pb	206	8364.582	0.02	1.2189	0.034	2.817	ug/L
|	Pb	207	6887.441	0.01	1.1253	0.033	2.951	ug/L
|	Pb	208	32818.284	0.07	1.1611	0.029	2.526	ug/L
|	U	238	7750.747	0.02	0.2550	0.003	1.354	ug/L
⌊>	Bi	209	441341.909	441341.91				ug/L

Approved: November 30, 2010

⌈	Na	23	256517.160	0.84	0.0354	0.002	5.910	mg/L
|	Mg	24	3102473.421	11.15	0.7444	0.046	6.143	mg/L
|	K	39	4450722.964	14.41	0.3878	0.013	3.414	mg/L
|	Ca	43	64956.774	0.23	2.9486	0.143	4.856	mg/L
|	Fe	54	946425.083	3.20	1.2191	0.073	6.026	mg/L
|	Fe	57	395201.717	1.39	1.2793	0.075	5.862	mg/L
⌊>	Sc-1	45	278684.443	278684.44				mg/L
	Cl	35	22221.998	-8378.09				mg/L
	Kr	83	42.667	-1.67				mg/L
	Br	81	10566.251	607.29				mg/L
	P	31	34579.028	19703.28				mg/L
	S	34	214921.829	-1971.44				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.495			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.894			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.686			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.761			
⌈	Na	23					

Sample ID: L1011066527SDL WG349908-02
Report Date/Time: Monday, November 29, 2010 21:22:43
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066527SDL WG349908-02
Report Date/Time: Monday, November 29, 2010 21:22:43
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 29, 2010 21:27:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41017.342	0.02				ug/L
|	Be	9	23059.891	0.08	50.4228	0.713	1.415	ug/L
|	Al	27	338432.152	1.14	46.8011	0.304	0.649	ug/L
⌊>	Sc	45	289154.815	289154.81				ug/L
⌈	Ti	49	66705.070	0.17	105.8831	0.775	0.732	ug/L
|	V	51	538167.611	1.36	51.9111	0.687	1.323	ug/L
|	Cr	52	462968.101	1.16	52.4057	0.396	0.756	ug/L
|	Cr	53	53209.865	0.13	52.2676	1.304	2.494	ug/L
|	Mn	55	726806.312	1.85	52.7448	0.259	0.492	ug/L
|	Co	59	600061.958	1.53	51.7392	0.237	0.459	ug/L
|	Ni	60	125435.084	0.32	51.1145	0.474	0.928	ug/L
|	Cu	65	122614.738	0.31	49.8866	0.475	0.952	ug/L
|	Zn	66	68700.219	0.16	47.7499	0.467	0.977	ug/L
| >	Ge	72	392259.477	392259.48				ug/L
|	As	75	45863.281	0.12	49.8222	0.405	0.814	ug/L
|	Se	77	3724.400	0.01	50.1074	1.669	3.331	ug/L
|	Se	82	4561.456	0.01	49.8113	1.474	2.959	ug/L
⌊	Rb	85	1874.861	0.00				mg/L
	Y	89	245371.454	-12876.15				ug/L
	Rh	103	28.334	20.67				ug/L
⌈	Mo	98	207587.378	0.63	97.3313	1.443	1.482	ug/L
|	Ag	107	244358.313	0.74	49.6467	0.124	0.250	ug/L
|	Cd	114	55537.541	0.17	49.0784	1.294	2.637	ug/L
| >	In	115	331695.299	331695.30				ug/L
|	Sn	118	193287.694	0.58	51.8846	0.159	0.307	ug/L
⌊	Sb	123	168589.310	0.51	48.7780	0.331	0.678	ug/L
⌈	Ba	135	76092.213	0.17	46.6233	1.076	2.308	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	452018.652	452018.65				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	355258.283	0.85	49.0097	0.144	0.294	ug/L
|	Tl	205	870944.778	2.08	49.2288	0.152	0.308	ug/L
|	Pb	206	290186.555	0.69	48.8268	0.190	0.389	ug/L
|	Pb	207	271201.186	0.64	50.3211	0.323	0.641	ug/L
|	Pb	208	1214377.434	2.89	49.2914	0.099	0.200	ug/L
|	U	238	1722542.931	4.10	55.1499	0.556	1.008	ug/L
⌊>	Bi	209	419696.848	419696.85				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 21:29:29
Page 1

Approved: November 30, 2010

Na	23	30858511.026	106.65	4.7197	0.050	1.062	mg/L
Mg	24	19778816.513	68.41	4.5793	0.033	0.722	mg/L
K	39	49992943.369	171.33	4.6991	0.050	1.074	mg/L
Ca	43	110050.276	0.38	4.8098	0.107	2.221	mg/L
Fe	54	3677668.343	12.52	4.7643	0.157	3.287	mg/L
Fe	57	1506091.797	5.18	4.7645	0.047	0.986	mg/L
> Sc-1	45	289154.815	289154.81				mg/L
Cl	35	20410.815	-10189.27				mg/L
Kr	83	36.000	-8.33				mg/L
Br	81	10535.547	576.59				mg/L
P	31	13812.871	-1062.87				mg/L
S	34	222750.653	5857.38				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	103.822				
Cr	52	104.811				
Cr	53					
Mn	55	105.490				
Co	59	103.478				
Ni	60	102.229				
Cu	65	99.773				
Zn	66	95.500				
> Ge	72		94.013			
As	75	99.644				
Se	77					
Se	82	99.623				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.293				
Cd	114	98.157				
> In	115		99.093			
Sn	118					
Sb	123	97.556				
Ba	135	93.247				
Ce	140					
> Tb	159		100.811			
Ho	165					
Tl	203	98.019				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.583				
U	238	110.300				
> Bi	209		97.721			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 21:29:29

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 21:29:29
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 29, 2010 21:34:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44381.920	0.03				ug/L
|	Be	9	6.667	0.00	0.0046	0.006	138.626	ug/L
|	Al	27	6502.141	-0.00	-0.1997	0.124	61.989	ug/L
⌊>	Sc	45	299055.854	299055.85				ug/L
⌈	Ti	49	103.344	0.00	-0.2176	0.037	17.165	ug/L
|	V	51	2644.366	-0.00	-0.0247	0.003	10.243	ug/L
|	Cr	52	8458.995	-0.00	-0.1166	0.005	4.093	ug/L
|	Cr	53	176.686	-0.00	-0.1590	0.036	22.552	ug/L
|	Mn	55	332.009	-0.00	-0.0198	0.000	0.552	ug/L
|	Co	59	196.337	-0.00	-0.0130	0.001	4.360	ug/L
|	Ni	60	24.334	-0.00	-0.0310	0.002	5.200	ug/L
|	Cu	65	93.001	-0.00	-0.0543	0.002	4.020	ug/L
|	Zn	66	518.352	-0.02	-2.9692	0.009	0.303	ug/L
|>	Ge	72	405435.486	405435.49				ug/L
|	As	75	-187.710	0.00	-0.0205	0.037	182.761	ug/L
|	Se	77	76.675	0.00	0.2052	0.431	209.851	ug/L
|	Se	82	0.377	0.00	-0.1133	0.088	77.443	ug/L
⌊	Rb	85	11.000	-0.00				mg/L
	Y	89	254010.748	-4236.85				ug/L
	Rh	103	3.667	-4.00				ug/L
⌈	Mo	98	1112.417	0.00	0.4659	0.087	18.634	ug/L
|	Ag	107	43.334	0.00	-0.0093	0.003	28.413	ug/L
|	Cd	114	12.329	-0.00	-0.0078	0.005	64.626	ug/L
|>	In	115	351617.438	351617.44				ug/L
|	Sn	118	1056.589	-0.00	-0.1500	0.012	7.712	ug/L
⌊	Sb	123	265.001	0.00	0.0968	0.007	6.940	ug/L
⌈	Ba	135	13.333	0.00	-0.0150	0.001	5.891	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	482570.953	482570.95				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	33.667	0.00	0.0044	0.000	11.062	ug/L
|	Tl	205	66.674	-0.00	-0.0144	0.001	9.296	ug/L
|	Pb	206	438.347	-0.00	-0.0542	0.003	4.665	ug/L
|	Pb	207	357.677	-0.00	-0.0304	0.003	11.349	ug/L
|	Pb	208	1672.071	-0.00	-0.0453	0.000	0.452	ug/L
|	U	238	1854.860	0.00	0.0744	0.009	11.463	ug/L
⌊>	Bi	209	451505.085	451505.09				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 21:36:12
Page 1

Approved: November 30, 2010

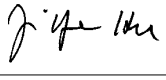
Na	23	16074.519	-0.03	-0.0031	0.000	1.841	mg/L
Mg	24	420.051	0.00	-0.0024	0.000	0.320	mg/L
K	39	441993.369	-0.09	-0.0107	0.000	2.187	mg/L
Ca	43	206.689	-0.00	0.0051	0.001	20.391	mg/L
Fe	54	58656.701	-0.00	-0.0003	0.000	140.072	mg/L
Fe	57	9288.583	0.00	0.0010	0.002	155.062	mg/L
Sc-1	45	299055.854	299055.85				mg/L
Cl	35	20114.219	-10485.87				mg/L
Kr	83	33.334	-11.00				mg/L
Br	81	10883.252	924.29				mg/L
P	31	14047.194	-828.55				mg/L
S	34	222682.836	5789.57				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		97.170			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		105.045			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		107.625			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		105.127			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 21:36:12

Approved: November 30, 2010



Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 21:36:12
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066528

Sample Date/Time: Monday, November 29, 2010 21:40:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 62
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41653.326	0.03				ug/L
|	Be	9	105.334	0.00	0.2231	0.011	4.923	ug/L
|	Al	27	14341615.581	50.08	2048.9458	215.705	10.528	ug/L
⌊>	Sc	45	286341.846	286341.85				ug/L
⌈	Ti	49	1273.542	0.00	1.5844	0.112	7.069	ug/L
|	V	51	51902.201	0.12	4.5991	0.457	9.931	ug/L
|	Cr	52	26304.207	0.04	1.8784	0.191	10.150	ug/L
|	Cr	53	2190.459	0.00	1.7672	0.137	7.739	ug/L
|	Mn	55	1196008.239	2.95	84.0462	7.649	9.101	ug/L
|	Co	59	18040.831	0.04	1.4772	0.131	8.852	ug/L
|	Ni	60	7010.200	0.02	2.7265	0.217	7.951	ug/L
|	Cu	65	8529.734	0.02	3.2742	0.287	8.755	ug/L
|	Zn	66	32391.519	0.06	19.9742	1.845	9.236	ug/L
| >	Ge	72	405516.048	405516.05				ug/L
|	As	75	1041.674	0.00	1.2675	0.078	6.134	ug/L
|	Se	77	100.011	0.00	0.5090	0.334	65.699	ug/L
|	Se	82	32.742	0.00	0.2292	0.020	8.939	ug/L
⌊	Rb	85	32746.328	0.08				mg/L
	Y	89	277717.664	19470.06				ug/L
	Rh	103	16.667	9.00				ug/L
⌈	Mo	98	445.581	0.00	0.1781	0.023	12.640	ug/L
|	Ag	107	140.336	0.00	0.0103	0.003	32.095	ug/L
|	Cd	114	80.418	0.00	0.0515	0.010	19.957	ug/L
| >	In	115	338747.371	338747.37				ug/L
|	Sn	118	670.689	-0.00	-0.2421	0.007	2.842	ug/L
⌊	Sb	123	97.454	0.00	0.0521	0.002	4.726	ug/L
⌈	Ba	135	54202.970	0.12	32.3714	2.006	6.195	ug/L
|	Ce	140	275228.446	0.59				ug/L
⌊>	Tb	159	463294.520	463294.52				ug/L
⌈	Ho	165	2510.567	0.01				ug/L
|	Tl	203	348.010	0.00	0.0460	0.004	8.054	ug/L
|	Tl	205	853.457	0.00	0.0283	0.012	40.601	ug/L
|	Pb	206	25857.466	0.06	4.0494	0.351	8.680	ug/L
|	Pb	207	21373.473	0.05	3.7084	0.327	8.813	ug/L
|	Pb	208	101773.512	0.23	3.8518	0.335	8.697	ug/L
|	U	238	26396.516	0.06	0.8273	0.061	7.387	ug/L
⌊>	Bi	209	438784.465	438784.47				ug/L

Sample ID: L1011066528
Report Date/Time: Monday, November 29, 2010 21:42:57
Page 1

Approved: November 30, 2010

Na	23	240726.777	0.76	0.0318	0.003	10.641	mg/L
Mg	24	5024571.630	17.55	1.1732	0.100	8.509	mg/L
K	39	12159284.183	40.91	1.1158	0.098	8.780	mg/L
Ca	43	138325.599	0.48	6.1094	0.590	9.661	mg/L
Fe	54	2516928.013	8.59	3.2709	0.317	9.698	mg/L
Fe	57	1020680.278	3.54	3.2533	0.260	7.989	mg/L
Sc-1	45	286341.846	286341.85				mg/L
Cl	35	25571.994	-5028.09				mg/L
Kr	83	29.667	-14.67				mg/L
Br	81	11459.903	1500.94				mg/L
P	31	94960.694	80084.95				mg/L
S	34	220119.244	3225.97				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		97.190			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		101.200			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		103.326			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		102.166			
Na	23					

Sample ID: L1011066528
Report Date/Time: Monday, November 29, 2010 21:42:57
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066528
Report Date/Time: Monday, November 29, 2010 21:42:57
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066529

Sample Date/Time: Monday, November 29, 2010 21:47:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 63
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40498.885	0.02				ug/L
|	Be	9	108.667	0.00	0.2282	0.008	3.571	ug/L
|	Al	27	13608515.467	47.06	1925.6526	134.342	6.976	ug/L
⌊>	Sc	45	289275.636	289275.64				ug/L
⌈	Ti	49	1143.514	0.00	1.3994	0.182	13.001	ug/L
|	V	51	46245.360	0.11	4.1007	0.119	2.903	ug/L
|	Cr	52	25494.383	0.04	1.8099	0.066	3.655	ug/L
|	Cr	53	2303.832	0.00	1.8940	0.321	16.932	ug/L
|	Mn	55	1648764.951	4.10	116.7547	3.868	3.313	ug/L
|	Co	59	19297.471	0.05	1.5944	0.060	3.755	ug/L
|	Ni	60	8164.082	0.02	3.2068	0.127	3.975	ug/L
|	Cu	65	8739.909	0.02	3.3838	0.164	4.840	ug/L
|	Zn	66	29513.463	0.05	18.0653	0.645	3.569	ug/L
| >	Ge	72	402225.082	402225.08				ug/L
|	As	75	1073.999	0.00	1.3102	0.057	4.336	ug/L
|	Se	77	73.341	0.00	0.1656	0.196	118.537	ug/L
|	Se	82	18.299	0.00	0.0776	0.116	149.800	ug/L
⌊	Rb	85	32218.824	0.08				mg/L
	Y	89	282447.932	24200.33				ug/L
	Rh	103	16.667	9.00				ug/L
⌈	Mo	98	357.352	0.00	0.1381	0.008	5.564	ug/L
|	Ag	107	146.336	0.00	0.0116	0.002	14.510	ug/L
|	Cd	114	100.918	0.00	0.0694	0.016	23.663	ug/L
| >	In	115	337937.893	337937.89				ug/L
|	Sn	118	694.291	-0.00	-0.2354	0.006	2.432	ug/L
⌊	Sb	123	70.411	0.00	0.0445	0.003	7.662	ug/L
⌈	Ba	135	50022.692	0.11	29.6600	0.732	2.470	ug/L
|	Ce	140	287045.092	0.61				ug/L
⌊>	Tb	159	466925.826	466925.83				ug/L
⌈	Ho	165	3010.756	0.01				ug/L
|	Tl	203	343.009	0.00	0.0453	0.001	2.853	ug/L
|	Tl	205	880.128	0.00	0.0297	0.008	28.045	ug/L
|	Pb	206	127689.632	0.29	20.4723	0.499	2.437	ug/L
|	Pb	207	113192.518	0.26	20.0269	0.605	3.022	ug/L
|	Pb	208	519631.382	1.18	20.1033	0.547	2.720	ug/L
|	U	238	30708.724	0.07	0.9589	0.012	1.255	ug/L
⌊>	Bi	209	438938.080	438938.08				ug/L

Sample ID: L1011066529
Report Date/Time: Monday, November 29, 2010 21:49:43
Page 1

Approved: November 30, 2010

⌈	Na	23	496670.188	1.64	0.0706	0.004	5.540	mg/L
|	Mg	24	5173142.126	17.90	1.1962	0.065	5.440	mg/L
|	K	39	11873989.446	39.51	1.0774	0.065	5.990	mg/L
|	Ca	43	175868.081	0.61	7.6922	0.411	5.350	mg/L
|	Fe	54	2673209.514	9.05	3.4432	0.154	4.484	mg/L
|	Fe	57	1073189.736	3.69	3.3884	0.168	4.954	mg/L
⌊>	Sc-1	45	289275.636	289275.64				mg/L
	Cl	35	28201.717	-2398.37				mg/L
	Kr	83	42.334	-2.00				mg/L
	Br	81	11146.211	1187.25				mg/L
	P	31	88022.442	73146.70				mg/L
	S	34	219078.065	2184.80				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.401			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.958			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.136			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.201			
⌈	Na	23					

Sample ID: L1011066529
Report Date/Time: Monday, November 29, 2010 21:49:43
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066530

Sample Date/Time: Monday, November 29, 2010 21:54:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 64
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41067.553	0.02				ug/L
|	Be	9	111.334	0.00	0.2311	0.018	7.601	ug/L
|	Al	27	14251987.082	48.63	1989.5448	139.877	7.031	ug/L
⌊>	Sc	45	292706.331	292706.33				ug/L
⌈	Ti	49	1126.844	0.00	1.3360	0.226	16.881	ug/L
|	V	51	50106.708	0.11	4.3637	0.393	9.010	ug/L
|	Cr	52	28316.414	0.05	2.0588	0.205	9.962	ug/L
|	Cr	53	2563.921	0.01	2.0907	0.287	13.728	ug/L
|	Mn	55	1299062.076	3.16	89.9957	7.684	8.538	ug/L
|	Co	59	20717.734	0.05	1.6763	0.144	8.609	ug/L
|	Ni	60	7909.216	0.02	3.0373	0.235	7.749	ug/L
|	Cu	65	8874.707	0.02	3.3610	0.290	8.617	ug/L
|	Zn	66	32780.116	0.06	19.9209	1.655	8.306	ug/L
⌊>	Ge	72	411161.035	411161.04				ug/L
|	As	75	1440.388	0.00	1.6640	0.115	6.912	ug/L
|	Se	77	123.346	0.00	0.7988	0.281	35.150	ug/L
|	Se	82	45.351	0.00	0.3566	0.183	51.299	ug/L
⌊	Rb	85	33224.275	0.08				mg/L
	Y	89	282962.501	24714.90				ug/L
	Rh	103	22.000	14.33				ug/L
⌈	Mo	98	281.682	0.00	0.1012	0.015	14.405	ug/L
|	Ag	107	163.003	0.00	0.0144	0.001	6.006	ug/L
|	Cd	114	93.050	0.00	0.0613	0.008	13.210	ug/L
⌊>	In	115	343437.702	343437.70				ug/L
|	Sn	118	683.623	-0.00	-0.2411	0.002	0.930	ug/L
⌊	Sb	123	59.287	0.00	0.0410	0.002	4.660	ug/L
⌈	Ba	135	63640.447	0.14	37.9838	3.257	8.574	ug/L
|	Ce	140	308075.901	0.66				ug/L
⌊>	Tb	159	463973.089	463973.09				ug/L
⌈	Ho	165	2827.350	0.01				ug/L
|	Tl	203	362.344	0.00	0.0471	0.005	9.738	ug/L
|	Tl	205	936.804	0.00	0.0320	0.001	2.159	ug/L
|	Pb	206	27338.762	0.06	4.2218	0.389	9.207	ug/L
|	Pb	207	22717.759	0.05	3.8861	0.315	8.114	ug/L
|	Pb	208	107432.951	0.24	4.0088	0.357	8.905	ug/L
|	U	238	18799.924	0.04	0.5860	0.051	8.682	ug/L
⌊>	Bi	209	445664.026	445664.03				ug/L

Sample ID: L1011066530
Report Date/Time: Monday, November 29, 2010 21:56:29
Page 1

Approved: November 30, 2010

⌈	Na	23	384917.044	1.23	0.0527	0.004	7.068	mg/L
|	Mg	24	6185267.768	21.11	1.4117	0.105	7.453	mg/L
|	K	39	8905198.160	28.84	0.7841	0.037	4.664	mg/L
|	Ca	43	183008.034	0.62	7.8986	0.494	6.254	mg/L
|	Fe	54	2967394.455	9.93	3.7797	0.246	6.510	mg/L
|	Fe	57	1195653.145	4.05	3.7282	0.227	6.102	mg/L
⌊>	Sc-1	45	292706.331	292706.33				mg/L
	Cl	35	26563.234	-4036.85				mg/L
	Kr	83	36.334	-8.00				mg/L
	Br	81	12707.404	2748.45				mg/L
	P	31	92230.402	77354.66				mg/L
	S	34	227321.383	10428.11				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.543			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.601			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.477			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.767			
⌈	Na	23					

Sample ID: L1011066530
Report Date/Time: Monday, November 29, 2010 21:56:29
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066530
Report Date/Time: Monday, November 29, 2010 21:56:29
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066531

Sample Date/Time: Monday, November 29, 2010 22:01:04
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 65
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40682.697	0.02				ug/L
|	Be	9	138.001	0.00	0.2938	0.062	21.058	ug/L
|	Al	27	19527985.066	67.88	2777.2518	871.304	31.373	ug/L
⌊>	Sc	45	288177.022	288177.02				ug/L
⌈	Ti	49	1126.845	0.00	1.3689	0.430	31.384	ug/L
|	V	51	56258.916	0.13	5.0337	1.422	28.244	ug/L
|	Cr	52	33260.730	0.06	2.6742	0.881	32.961	ug/L
|	Cr	53	3047.452	0.01	2.6009	0.702	26.996	ug/L
|	Mn	55	1357941.598	3.37	95.9142	27.664	28.843	ug/L
|	Co	59	21636.469	0.05	1.7867	0.526	29.464	ug/L
|	Ni	60	8357.410	0.02	3.2751	0.932	28.443	ug/L
|	Cu	65	12157.524	0.03	4.7296	1.340	28.336	ug/L
|	Zn	66	36614.304	0.07	23.1437	6.828	29.501	ug/L
|>	Ge	72	404050.573	404050.57				ug/L
|	As	75	1382.441	0.00	1.6319	0.389	23.833	ug/L
|	Se	77	126.680	0.00	0.8673	0.485	55.973	ug/L
|	Se	82	65.042	0.00	0.5743	0.095	16.564	ug/L
⌊	Rb	85	42483.675	0.11				mg/L
	Y	89	280284.291	22036.69				ug/L
	Rh	103	25.000	17.33				ug/L
⌈	Mo	98	275.089	0.00	0.1019	0.015	14.453	ug/L
|	Ag	107	153.669	0.00	0.0135	0.006	47.176	ug/L
|	Cd	114	83.682	0.00	0.0555	0.028	50.237	ug/L
|>	In	115	333596.430	333596.43				ug/L
|	Sn	118	681.090	-0.00	-0.2365	0.004	1.809	ug/L
⌊	Sb	123	49.996	0.00	0.0388	0.002	4.294	ug/L
⌈	Ba	135	63035.885	0.14	38.6207	10.938	28.321	ug/L
|	Ce	140	313911.646	0.69				ug/L
⌊>	Tb	159	451955.961	451955.96				ug/L
⌈	Ho	165	2874.062	0.01				ug/L
|	Tl	203	385.678	0.00	0.0513	0.015	28.355	ug/L
|	Tl	205	1033.493	0.00	0.0384	0.016	41.801	ug/L
|	Pb	206	26745.243	0.06	4.2200	1.287	30.489	ug/L
|	Pb	207	22124.350	0.05	3.8670	1.187	30.683	ug/L
|	Pb	208	104984.824	0.23	4.0025	1.192	29.776	ug/L
|	U	238	19551.983	0.04	0.6215	0.178	28.666	ug/L
⌊>	Bi	209	436921.327	436921.33				ug/L

Sample ID: L1011066531
Report Date/Time: Monday, November 29, 2010 22:03:16
Page 1

Approved: November 30, 2010

⌈	Na	23	315502.771	1.02	0.0431	0.012	27.497	mg/L
|	Mg	24	7051755.227	24.51	1.6394	0.481	29.368	mg/L
|	K	39	11601602.389	38.75	1.0563	0.252	23.874	mg/L
|	Ca	43	204297.316	0.71	8.9791	2.470	27.511	mg/L
|	Fe	54	3306820.989	11.30	4.2992	1.314	30.562	mg/L
|	Fe	57	1343864.323	4.64	4.2710	1.273	29.804	mg/L
⌊>	Sc-1	45	288177.022	288177.02				mg/L
	Cl	35	28971.975	-1628.11				mg/L
	Kr	83	33.667	-10.67				mg/L
	Br	81	13316.201	3357.24				mg/L
	P	31	115242.978	100367.23				mg/L
	S	34	228175.288	11282.02				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.838			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.661			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.797			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.732			
⌈	Na	23					

Sample ID: L1011066531
Report Date/Time: Monday, November 29, 2010 22:03:16
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066531
Report Date/Time: Monday, November 29, 2010 22:03:16

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066532

Sample Date/Time: Monday, November 29, 2010 22:07:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 66
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41837.514	0.02				ug/L
|	Be	9	112.667	0.00	0.2297	0.018	7.758	ug/L
|	Al	27	16457857.051	55.24	2260.3817	161.840	7.160	ug/L
⌊>	Sc	45	297905.970	297905.97				ug/L
⌈	Ti	49	2257.147	0.01	3.0622	0.154	5.033	ug/L
|	V	51	64783.591	0.15	5.7402	0.480	8.365	ug/L
|	Cr	52	37151.415	0.07	3.0452	0.289	9.499	ug/L
|	Cr	53	3417.596	0.01	2.9061	0.365	12.551	ug/L
|	Mn	55	1291749.130	3.15	89.7573	6.282	6.999	ug/L
|	Co	59	29499.184	0.07	2.4066	0.177	7.338	ug/L
|	Ni	60	12213.594	0.03	4.7267	0.333	7.050	ug/L
|	Cu	65	12780.303	0.03	4.8946	0.306	6.252	ug/L
|	Zn	66	46316.050	0.09	29.6271	2.306	7.783	ug/L
|>	Ge	72	410006.106	410006.11				ug/L
|	As	75	2019.933	0.01	2.2690	0.150	6.627	ug/L
|	Se	77	86.676	0.00	0.3198	0.388	121.197	ug/L
|	Se	82	11.276	0.00	0.0014	0.128	8936.871	ug/L
⌊	Rb	85	47749.816	0.12				mg/L
	Y	89	291818.933	33571.33				ug/L
	Rh	103	20.000	12.33				ug/L
⌈	Mo	98	307.053	0.00	0.1155	0.009	7.840	ug/L
|	Ag	107	174.003	0.00	0.0173	0.005	29.261	ug/L
|	Cd	114	130.801	0.00	0.0958	0.022	23.084	ug/L
|>	In	115	336573.056	336573.06				ug/L
|	Sn	118	682.690	-0.00	-0.2377	0.001	0.561	ug/L
⌊	Sb	123	50.660	0.00	0.0389	0.002	4.595	ug/L
⌈	Ba	135	44153.630	0.10	26.4099	1.865	7.060	ug/L
|	Ce	140	397893.267	0.86				ug/L
⌊>	Tb	159	462974.335	462974.34				ug/L
⌈	Ho	165	3654.369	0.01				ug/L
|	Tl	203	549.021	0.00	0.0724	0.004	5.779	ug/L
|	Tl	205	1310.219	0.00	0.0530	0.013	24.865	ug/L
|	Pb	206	40794.468	0.09	6.4572	0.578	8.948	ug/L
|	Pb	207	33559.050	0.08	5.8726	0.444	7.555	ug/L
|	Pb	208	159601.260	0.36	6.0994	0.483	7.918	ug/L
|	U	238	8920.408	0.02	0.2921	0.018	6.180	ug/L
⌊>	Bi	209	439110.801	439110.80				ug/L

Sample ID: L1011066532
Report Date/Time: Monday, November 29, 2010 22:10:02
Page 1

Approved: November 30, 2010

Na	23	675362.133	2.19	0.0950	0.006	6.619	mg/L
Mg	24	9517026.300	31.96	2.1384	0.160	7.468	mg/L
K	39	11737333.142	37.84	1.0315	0.054	5.273	mg/L
Ca	43	170720.357	0.57	7.2491	0.610	8.413	mg/L
Fe	54	5106612.599	16.95	6.4515	0.610	9.460	mg/L
Fe	57	2024295.866	6.77	6.2280	0.465	7.470	mg/L
> Sc-1	45	297905.970	297905.97				mg/L
Cl	35	28245.838	-2354.25				mg/L
Kr	83	45.001	0.67				mg/L
Br	81	11094.821	1135.86				mg/L
P	31	102088.897	87213.15				mg/L
S	34	223336.757	6443.49				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		98.266			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		100.550			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		103.255			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		102.242			
Na	23					

Sample ID: L1011066532
Report Date/Time: Monday, November 29, 2010 22:10:02
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066532
Report Date/Time: Monday, November 29, 2010 22:10:02
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066533

Sample Date/Time: Monday, November 29, 2010 22:14:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 67
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41368.816	0.03				ug/L
|	Be	9	62.667	0.00	0.1298	0.045	34.288	ug/L
|	Al	27	9498743.796	33.36	1365.0345	444.565	32.568	ug/L
⌊>	Sc	45	285416.395	285416.40				ug/L
⌈	Ti	49	1216.868	0.00	1.4723	0.652	44.264	ug/L
|	V	51	56672.791	0.13	4.9685	1.458	29.337	ug/L
|	Cr	52	21239.972	0.03	1.2763	0.491	38.438	ug/L
|	Cr	53	1763.671	0.00	1.3347	0.432	32.403	ug/L
|	Mn	55	917316.821	2.23	63.5173	19.076	30.033	ug/L
|	Co	59	13251.672	0.03	1.0611	0.314	29.549	ug/L
|	Ni	60	4253.326	0.01	1.6139	0.480	29.769	ug/L
|	Cu	65	4519.785	0.01	1.6662	0.513	30.803	ug/L
|	Zn	66	14538.415	0.02	6.9662	2.544	36.520	ug/L
| >	Ge	72	412473.105	412473.10				ug/L
|	As	75	1099.038	0.00	1.3110	0.340	25.909	ug/L
|	Se	77	273.364	0.00	2.7495	0.581	21.146	ug/L
|	Se	82	219.327	0.00	2.1719	0.649	29.878	ug/L
⌊	Rb	85	23737.663	0.06				mg/L
	Y	89	272579.924	14332.32				ug/L
	Rh	103	8.333	0.67				ug/L
⌈	Mo	98	303.126	0.00	0.1141	0.026	23.021	ug/L
|	Ag	107	76.334	0.00	-0.0022	0.003	127.335	ug/L
|	Cd	114	37.991	0.00	0.0151	0.010	68.936	ug/L
| >	In	115	335708.288	335708.29				ug/L
|	Sn	118	615.219	-0.00	-0.2553	0.007	2.584	ug/L
⌊	Sb	123	40.413	0.00	0.0360	0.002	5.641	ug/L
⌈	Ba	135	25715.477	0.06	15.6044	4.559	29.218	ug/L
|	Ce	140	212602.986	0.47				ug/L
⌊>	Tb	159	455944.041	455944.04				ug/L
⌈	Ho	165	1666.982	0.00				ug/L
|	Tl	203	235.672	0.00	0.0312	0.004	11.383	ug/L
|	Tl	205	593.411	0.00	0.0143	0.008	54.118	ug/L
|	Pb	206	19822.551	0.04	3.0819	0.923	29.956	ug/L
|	Pb	207	12113.478	0.03	2.0659	0.591	28.632	ug/L
|	Pb	208	62305.564	0.14	2.3207	0.696	29.976	ug/L
|	U	238	106972.568	0.24	3.3007	0.989	29.965	ug/L
⌊>	Bi	209	438153.175	438153.18				ug/L

Sample ID: L1011066533
Report Date/Time: Monday, November 29, 2010 22:16:50
Page 1

Approved: November 30, 2010

⌈	Na	23	181610.677	0.56	0.0228	0.007	29.832	mg/L
|	Mg	24	2677261.160	9.40	0.6274	0.170	27.037	mg/L
|	K	39	5854708.267	18.99	0.5135	0.125	24.293	mg/L
|	Ca	43	45637.974	0.16	2.0252	0.634	31.291	mg/L
|	Fe	54	2375917.683	8.15	3.1022	0.988	31.855	mg/L
|	Fe	57	945558.964	3.30	3.0303	0.972	32.063	mg/L
⌊>	Sc-1	45	285416.395	285416.40				mg/L
	Cl	35	22455.188	-8144.90				mg/L
	Kr	83	39.667	-4.67				mg/L
	Br	81	10445.456	486.50				mg/L
	P	31	44677.252	29801.51				mg/L
	S	34	208564.270	-8329.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.857			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.292			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.687			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.019			
⌈	Na	23					

Sample ID: L1011066533
Report Date/Time: Monday, November 29, 2010 22:16:50
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066533
Report Date/Time: Monday, November 29, 2010 22:16:50
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066534

Sample Date/Time: Monday, November 29, 2010 22:21:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 68
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40732.928	0.02				ug/L
|	Be	9	58.000	0.00	0.1182	0.027	22.595	ug/L
|	Al	27	8557527.248	29.62	1211.8447	64.510	5.323	ug/L
⌊>	Sc	45	288523.618	288523.62				ug/L
⌈	Ti	49	1133.511	0.00	1.3341	0.139	10.397	ug/L
|	V	51	46524.400	0.11	4.0049	0.228	5.689	ug/L
|	Cr	52	20675.250	0.03	1.2024	0.104	8.676	ug/L
|	Cr	53	1696.981	0.00	1.2627	0.112	8.836	ug/L
|	Mn	55	1092475.064	2.64	75.1960	4.336	5.766	ug/L
|	Co	59	13991.267	0.03	1.1152	0.057	5.148	ug/L
|	Ni	60	4395.011	0.01	1.6588	0.081	4.905	ug/L
|	Cu	65	4529.406	0.01	1.6595	0.107	6.438	ug/L
|	Zn	66	14603.485	0.02	6.9563	0.571	8.204	ug/L
|>	Ge	72	413731.150	413731.15				ug/L
|	As	75	867.383	0.00	1.0667	0.100	9.340	ug/L
|	Se	77	150.016	0.00	1.1331	0.218	19.283	ug/L
|	Se	82	65.016	0.00	0.5573	0.035	6.343	ug/L
⌊	Rb	85	21857.469	0.05				mg/L
	Y	89	273524.970	15277.37				ug/L
	Rh	103	9.667	2.00				ug/L
⌈	Mo	98	305.610	0.00	0.1144	0.006	5.058	ug/L
|	Ag	107	79.001	0.00	-0.0018	0.001	52.176	ug/L
|	Cd	114	34.374	0.00	0.0117	0.008	68.945	ug/L
|>	In	115	337721.852	337721.85				ug/L
|	Sn	118	602.285	-0.00	-0.2597	0.002	0.894	ug/L
⌊	Sb	123	43.245	0.00	0.0367	0.001	1.890	ug/L
⌈	Ba	135	27740.784	0.06	16.8668	1.036	6.140	ug/L
|	Ce	140	219389.612	0.48				ug/L
⌊>	Tb	159	455168.146	455168.15				ug/L
⌈	Ho	165	1620.296	0.00				ug/L
|	Tl	203	225.338	0.00	0.0297	0.002	6.510	ug/L
|	Tl	205	536.735	0.00	0.0111	0.006	51.932	ug/L
|	Pb	206	19347.939	0.04	2.9928	0.202	6.741	ug/L
|	Pb	207	12616.432	0.03	2.1466	0.142	6.606	ug/L
|	Pb	208	63728.887	0.14	2.3663	0.167	7.078	ug/L
|	U	238	85878.723	0.20	2.6430	0.147	5.547	ug/L
⌊>	Bi	209	439697.072	439697.07				ug/L

Sample ID: L1011066534
Report Date/Time: Monday, November 29, 2010 22:23:37
Page 1

Approved: November 30, 2010

⌈	Na	23	204681.132	0.63	0.0260	0.001	3.622	mg/L
|	Mg	24	2434622.978	8.44	0.5626	0.026	4.601	mg/L
|	K	39	6379270.356	20.53	0.5560	0.018	3.161	mg/L
|	Ca	43	52268.627	0.18	2.2878	0.148	6.467	mg/L
|	Fe	54	2273617.618	7.68	2.9239	0.140	4.777	mg/L
|	Fe	57	909759.267	3.13	2.8741	0.149	5.168	mg/L
⌊>	Sc-1	45	288523.618	288523.62				mg/L
	Cl	35	22904.201	-7695.88				mg/L
	Kr	83	36.667	-7.67				mg/L
	Br	81	10901.275	942.32				mg/L
	P	31	44651.614	29775.87				mg/L
	S	34	209451.743	-7441.53				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.159			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.894			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.514			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.378			
⌈	Na	23					

Sample ID: L1011066534
Report Date/Time: Monday, November 29, 2010 22:23:37
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066534
Report Date/Time: Monday, November 29, 2010 22:23:37
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066535

Sample Date/Time: Monday, November 29, 2010 22:28:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 69
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43762.440	0.03				ug/L
|	Be	9	108.667	0.00	0.2265	0.075	33.118	ug/L
|	Al	27	17727085.748	61.03	2497.0568	325.940	13.053	ug/L
⌊>	Sc	45	289981.630	289981.63				ug/L
⌈	Ti	49	1940.387	0.00	2.6067	0.616	23.640	ug/L
|	V	51	54526.561	0.13	4.8296	0.712	14.744	ug/L
|	Cr	52	31977.739	0.06	2.5020	0.399	15.947	ug/L
|	Cr	53	2817.349	0.01	2.3588	0.333	14.122	ug/L
|	Mn	55	1220859.548	3.00	85.5341	12.717	14.867	ug/L
|	Co	59	20516.536	0.05	1.6789	0.265	15.772	ug/L
|	Ni	60	9233.733	0.02	3.5934	0.489	13.612	ug/L
|	Cu	65	40514.113	0.10	15.8459	2.417	15.251	ug/L
|	Zn	66	31854.506	0.06	19.5190	3.037	15.559	ug/L
| >	Ge	72	406711.828	406711.83				ug/L
|	As	75	1200.086	0.00	1.4300	0.227	15.886	ug/L
|	Se	77	116.679	0.00	0.7284	0.410	56.304	ug/L
|	Se	82	17.374	0.00	0.0666	0.122	182.979	ug/L
⌊	Rb	85	35379.094	0.09				mg/L
	Y	89	275332.861	17085.26				ug/L
	Rh	103	25.334	17.67				ug/L
⌈	Mo	98	130.454	0.00	0.0343	0.003	9.374	ug/L
|	Ag	107	119.335	0.00	0.0065	0.002	28.738	ug/L
|	Cd	114	82.726	0.00	0.0545	0.011	20.211	ug/L
| >	In	115	334432.022	334432.02				ug/L
|	Sn	118	616.819	-0.00	-0.2542	0.006	2.211	ug/L
⌊	Sb	123	38.744	0.00	0.0356	0.002	4.743	ug/L
⌈	Ba	135	84828.401	0.19	51.7917	7.196	13.894	ug/L
|	Ce	140	242192.114	0.53				ug/L
⌊>	Tb	159	453792.191	453792.19				ug/L
⌈	Ho	165	2477.230	0.01				ug/L
|	Tl	203	286.007	0.00	0.0377	0.007	18.067	ug/L
|	Tl	205	703.429	0.00	0.0201	0.005	22.671	ug/L
|	Pb	206	29176.008	0.06	4.5777	0.682	14.894	ug/L
|	Pb	207	24337.180	0.05	4.2287	0.607	14.362	ug/L
|	Pb	208	115644.303	0.26	4.3846	0.643	14.661	ug/L
|	U	238	6264.711	0.01	0.2106	0.024	11.624	ug/L
⌊>	Bi	209	439650.941	439650.94				ug/L

Approved: November 30, 2010

⌈	Na	23	676205.176	2.25	0.0977	0.011	11.387	mg/L
|	Mg	24	7002253.450	24.13	1.6134	0.224	13.865	mg/L
|	K	39	12695303.088	42.17	1.1505	0.132	11.484	mg/L
|	Ca	43	203813.824	0.70	8.8759	1.129	12.715	mg/L
|	Fe	54	2796442.323	9.44	3.5908	0.467	12.994	mg/L
|	Fe	57	1154475.791	3.95	3.6310	0.512	14.096	mg/L
⌊>	Sc-1	45	289981.630	289981.63				mg/L
	Cl	35	27646.840	-2953.25				mg/L
	Kr	83	33.667	-10.67				mg/L
	Br	81	10809.840	850.88				mg/L
	P	31	79200.004	64324.26				mg/L
	S	34	215605.704	-1287.57				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.476			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.911			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.207			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.367			
⌈	Na	23					

Sample ID: L1011066535
Report Date/Time: Monday, November 29, 2010 22:30:25
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066536

Sample Date/Time: Monday, November 29, 2010 22:35:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 70
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40967.186	0.02				ug/L
|	Be	9	100.001	0.00	0.2095	0.035	16.577	ug/L
|	Al	27	16664448.393	57.79	2364.4725	461.718	19.527	ug/L
⌊>	Sc	45	288881.122	288881.12				ug/L
⌈	Ti	49	1536.941	0.00	1.9947	0.426	21.376	ug/L
|	V	51	54346.796	0.13	4.8310	0.742	15.349	ug/L
|	Cr	52	35805.883	0.07	2.9427	0.497	16.898	ug/L
|	Cr	53	3307.549	0.01	2.8376	0.391	13.770	ug/L
|	Mn	55	1217849.986	3.01	85.6295	13.139	15.344	ug/L
|	Co	59	20535.227	0.05	1.6866	0.268	15.893	ug/L
|	Ni	60	14009.121	0.03	5.4937	0.971	17.670	ug/L
|	Cu	65	12218.677	0.03	4.7325	0.721	15.238	ug/L
|	Zn	66	37118.147	0.07	23.3907	3.587	15.336	ug/L
|>	Ge	72	405447.418	405447.42				ug/L
|	As	75	1204.301	0.00	1.4388	0.205	14.260	ug/L
|	Se	77	66.674	-0.00	0.0693	0.397	572.939	ug/L
|	Se	82	14.716	0.00	0.0380	0.065	171.286	ug/L
⌊	Rb	85	32205.212	0.08				mg/L
	Y	89	275682.823	17435.22				ug/L
	Rh	103	21.334	13.67				ug/L
⌈	Mo	98	206.529	0.00	0.0704	0.011	16.210	ug/L
|	Ag	107	135.002	0.00	0.0098	0.004	40.860	ug/L
|	Cd	114	93.165	0.00	0.0642	0.004	6.105	ug/L
|>	In	115	331980.889	331980.89				ug/L
|	Sn	118	616.286	-0.00	-0.2531	0.004	1.773	ug/L
⌊	Sb	123	35.038	0.00	0.0346	0.002	5.794	ug/L
⌈	Ba	135	94725.097	0.21	57.8379	8.271	14.301	ug/L
|	Ce	140	238055.755	0.52				ug/L
⌊>	Tb	159	453979.790	453979.79				ug/L
⌈	Ho	165	2250.491	0.01				ug/L
|	Tl	203	272.340	0.00	0.0362	0.007	18.156	ug/L
|	Tl	205	696.761	0.00	0.0201	0.006	28.729	ug/L
|	Pb	206	40310.241	0.09	6.4276	1.007	15.660	ug/L
|	Pb	207	33771.743	0.08	5.9557	0.953	16.009	ug/L
|	Pb	208	159074.353	0.36	6.1252	0.932	15.217	ug/L
|	U	238	6631.623	0.02	0.2236	0.029	13.077	ug/L
⌊>	Bi	209	436175.126	436175.13				ug/L

Sample ID: L1011066536
Report Date/Time: Monday, November 29, 2010 22:37:13
Page 1

Approved: November 30, 2010

⌈	Na	23	500524.478	1.66	0.0714	0.013	18.011	mg/L
|	Mg	24	6844799.133	23.74	1.5873	0.281	17.673	mg/L
|	K	39	11047372.649	36.71	1.0005	0.116	11.588	mg/L
|	Ca	43	246825.618	0.85	10.8185	1.672	15.459	mg/L
|	Fe	54	3467600.986	11.82	4.4989	0.701	15.575	mg/L
|	Fe	57	1399802.665	4.83	4.4382	0.732	16.484	mg/L
⌊>	Sc-1	45	288881.122	288881.12				mg/L
	Cl	35	24615.593	-5984.49				mg/L
	Kr	83	32.667	-11.67				mg/L
	Br	81	10630.983	672.02				mg/L
	P	31	72448.968	57573.22				mg/L
	S	34	217168.580	275.31				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.173			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.179			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.249			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.558			
⌈	Na	23					

Sample ID: L1011066536
Report Date/Time: Monday, November 29, 2010 22:37:13
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066536
Report Date/Time: Monday, November 29, 2010 22:37:13

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066537

Sample Date/Time: Monday, November 29, 2010 22:41:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 71
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41485.920	0.02				ug/L
|	Be	9	94.000	0.00	0.1918	0.025	12.948	ug/L
|	Al	27	19025643.142	64.33	2632.1404	92.596	3.518	ug/L
⌊>	Sc	45	295848.712	295848.71				ug/L
⌈	Ti	49	1803.677	0.00	2.4273	0.240	9.896	ug/L
|	V	51	58398.600	0.14	5.2567	0.043	0.816	ug/L
|	Cr	52	31662.697	0.06	2.5092	0.031	1.233	ug/L
|	Cr	53	2987.413	0.01	2.5546	0.149	5.830	ug/L
|	Mn	55	1222029.809	3.04	86.6268	0.426	0.492	ug/L
|	Co	59	19729.977	0.05	1.6329	0.033	2.041	ug/L
|	Ni	60	10186.955	0.03	4.0160	0.020	0.491	ug/L
|	Cu	65	7066.900	0.02	2.7216	0.012	0.447	ug/L
|	Zn	66	16284.078	0.02	8.4837	0.138	1.621	ug/L
|>	Ge	72	401690.504	401690.50				ug/L
|	As	75	1524.829	0.00	1.7880	0.025	1.421	ug/L
|	Se	77	93.343	0.00	0.4353	0.157	36.069	ug/L
|	Se	82	17.363	0.00	0.0679	0.109	160.622	ug/L
⌊	Rb	85	30503.425	0.08				mg/L
	Y	89	274877.116	16629.51				ug/L
	Rh	103	15.667	8.00				ug/L
⌈	Mo	98	162.606	0.00	0.0500	0.005	10.878	ug/L
|	Ag	107	119.335	0.00	0.0067	0.001	19.318	ug/L
|	Cd	114	43.884	0.00	0.0208	0.004	20.871	ug/L
|>	In	115	331011.631	331011.63				ug/L
|	Sn	118	584.017	-0.00	-0.2614	0.001	0.467	ug/L
⌊	Sb	123	33.949	0.00	0.0343	0.001	2.160	ug/L
⌈	Ba	135	157284.208	0.35	97.4993	0.657	0.674	ug/L
|	Ce	140	241956.519	0.54				ug/L
⌊>	Tb	159	446854.142	446854.14				ug/L
⌈	Ho	165	2443.876	0.01				ug/L
|	Tl	203	317.675	0.00	0.0427	0.001	2.317	ug/L
|	Tl	205	780.108	0.00	0.0250	0.002	8.280	ug/L
|	Pb	206	19454.767	0.04	3.0695	0.027	0.879	ug/L
|	Pb	207	16128.158	0.04	2.8243	0.041	1.442	ug/L
|	Pb	208	76643.138	0.17	2.9244	0.025	0.872	ug/L
|	U	238	5965.505	0.01	0.2049	0.002	1.207	ug/L
⌊>	Bi	209	431443.246	431443.25				ug/L

Approved: November 30, 2010

⌈	Na	23	497297.609	1.60	0.0690	0.002	3.616	mg/L
|	Mg	24	5678433.858	19.21	1.2841	0.055	4.257	mg/L
|	K	39	6973924.146	22.02	0.5968	0.022	3.649	mg/L
|	Ca	43	286268.640	0.97	12.2412	0.319	2.602	mg/L
|	Fe	54	3017044.589	10.01	3.8080	0.151	3.977	mg/L
|	Fe	57	1227632.158	4.12	3.7929	0.117	3.073	mg/L
⌊>	Sc-1	45	295848.712	295848.71				mg/L
	Cl	35	25174.983	-5425.10				mg/L
	Kr	83	35.000	-9.33				mg/L
	Br	81	11465.237	1506.28				mg/L
	P	31	51834.667	36958.92				mg/L
	S	34	219432.590	2539.32				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.273			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.889			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.659			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.456			
⌈	Na	23					

Sample ID: L1011066537
Report Date/Time: Monday, November 29, 2010 22:43:58
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066537
Report Date/Time: Monday, November 29, 2010 22:43:58
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 29, 2010 22:48:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42105.496	0.02				ug/L
|	Be	9	22743.839	0.08	48.5383	1.243	2.560	ug/L
|	Al	27	342415.951	1.13	46.1979	0.939	2.033	ug/L
⌊>	Sc	45	296275.195	296275.20				ug/L
⌈	Ti	49	66309.122	0.17	103.0974	2.444	2.370	ug/L
|	V	51	543699.880	1.35	51.3693	0.770	1.499	ug/L
|	Cr	52	465403.523	1.14	51.5869	0.684	1.326	ug/L
|	Cr	53	53883.548	0.13	51.8355	1.042	2.010	ug/L
|	Mn	55	732125.298	1.83	52.0431	0.351	0.674	ug/L
|	Co	59	603858.704	1.51	51.0021	0.384	0.753	ug/L
|	Ni	60	127383.547	0.32	50.8432	0.120	0.235	ug/L
|	Cu	65	122573.971	0.31	48.8443	0.216	0.441	ug/L
|	Zn	66	69011.009	0.15	46.9307	0.263	0.560	ug/L
⌊>	Ge	72	400448.899	400448.90				ug/L
|	As	75	45779.364	0.11	48.7198	0.699	1.434	ug/L
|	Se	77	3697.720	0.01	48.7255	1.886	3.870	ug/L
|	Se	82	4661.495	0.01	49.8551	0.859	1.722	ug/L
⌊	Rb	85	1851.523	0.00				mg/L
	Y	89	242656.940	-15590.66				ug/L
	Rh	103	24.667	17.00				ug/L
⌈	Mo	98	207607.288	0.62	96.8336	2.149	2.219	ug/L
|	Ag	107	243962.889	0.73	49.3034	0.132	0.269	ug/L
|	Cd	114	56327.067	0.17	49.5068	0.183	0.369	ug/L
⌊>	In	115	333461.727	333461.73				ug/L
|	Sn	118	192386.170	0.57	51.3651	0.231	0.450	ug/L
⌊	Sb	123	166587.896	0.50	47.9457	0.385	0.804	ug/L
⌈	Ba	135	76091.211	0.17	45.9668	0.395	0.860	ug/L
|	Ce	140	66.674	0.00				ug/L
⌊>	Tb	159	458431.761	458431.76				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	357123.138	0.84	48.4153	0.718	1.483	ug/L
|	Tl	205	872322.813	2.04	48.4522	0.842	1.738	ug/L
|	Pb	206	288419.425	0.67	47.6863	0.669	1.403	ug/L
|	Pb	207	269537.377	0.63	49.1441	0.490	0.998	ug/L
|	Pb	208	1210775.970	2.83	48.2925	0.601	1.245	ug/L
|	U	238	1717794.042	4.02	54.0466	0.530	0.981	ug/L
⌊>	Bi	209	427106.743	427106.74				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 22:50:44
Page 1

Approved: November 30, 2010

Na	23	30401629.925	102.54	4.5377	0.069	1.517	mg/L
Mg	24	19653704.516	66.34	4.4409	0.070	1.577	mg/L
K	39	50197865.288	167.86	4.6038	0.043	0.930	mg/L
Ca	43	109139.987	0.37	4.6558	0.068	1.459	mg/L
Fe	54	3724972.538	12.37	4.7091	0.120	2.547	mg/L
Fe	57	1502324.258	5.04	4.6382	0.021	0.460	mg/L
> Sc-1	45	296275.195	296275.20				mg/L
Cl	35	19821.626	-10778.46				mg/L
Kr	83	37.000	-7.33				mg/L
Br	81	10325.331	366.37				mg/L
P	31	12545.216	-2330.53				mg/L
S	34	218472.229	1578.96				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	102.739				
Cr	52	103.174				
Cr	53					
Mn	55	104.086				
Co	59	102.004				
Ni	60	101.686				
Cu	65	97.689				
Zn	66	93.861				
> Ge	72		95.975			
As	75	97.440				
Se	77					
Se	82	99.710				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.607				
Cd	114	99.014				
> In	115		99.621			
Sn	118					
Sb	123	95.891				
Ba	135	91.934				
Ce	140					
> Tb	159		102.241			
Ho	165					
Tl	203	96.831				
Tl	205					
Pb	206					
Pb	207					
Pb	208	96.585				
U	238	108.093				
> Bi	209		99.447			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 22:50:44

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 22:50:44

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 29, 2010 22:55:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40398.288	0.02				ug/L
|	Be	9	4.000	0.00	-0.0008	0.011	1443.924	ug/L
|	Al	27	6585.523	-0.00	-0.1417	0.140	98.662	ug/L
⌊>	Sc	45	285177.777	285177.78				ug/L
⌈	Ti	49	93.343	0.00	-0.2300	0.049	21.191	ug/L
|	V	51	2625.338	-0.00	-0.0211	0.007	35.263	ug/L
|	Cr	52	8485.017	-0.00	-0.0928	0.003	3.643	ug/L
|	Cr	53	206.690	-0.00	-0.1257	0.041	32.735	ug/L
|	Mn	55	363.010	-0.00	-0.0171	0.002	9.252	ug/L
|	Co	59	177.337	-0.00	-0.0143	0.002	11.444	ug/L
|	Ni	60	31.667	0.00	-0.0278	0.005	17.505	ug/L
|	Cu	65	102.335	-0.00	-0.0497	0.006	12.682	ug/L
|	Zn	66	558.688	-0.02	-2.9313	0.009	0.303	ug/L
|>	Ge	72	396730.522	396730.52				ug/L
|	As	75	-191.000	0.00	-0.0285	0.033	115.063	ug/L
|	Se	77	66.674	0.00	0.0900	0.077	85.377	ug/L
|	Se	82	7.386	0.00	-0.0383	0.097	253.338	ug/L
⌊	Rb	85	13.333	-0.00				mg/L
	Y	89	249334.777	-8912.83				ug/L
	Rh	103	5.000	-2.67				ug/L
⌈	Mo	98	950.065	0.00	0.4072	0.079	19.386	ug/L
|	Ag	107	24.667	0.00	-0.0127	0.001	7.530	ug/L
|	Cd	114	16.841	-0.00	-0.0036	0.003	76.073	ug/L
|>	In	115	341006.675	341006.68				ug/L
|	Sn	118	996.450	-0.00	-0.1574	0.012	7.686	ug/L
⌊	Sb	123	222.958	0.00	0.0872	0.006	7.037	ug/L
⌈	Ba	135	9.667	-0.00	-0.0169	0.000	2.150	ug/L
|	Ce	140	16.668	0.00				ug/L
⌊>	Tb	159	463598.004	463598.00				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	23.000	-0.00	0.0031	0.001	29.824	ug/L
|	Tl	205	60.006	-0.00	-0.0146	0.002	11.037	ug/L
|	Pb	206	417.013	-0.00	-0.0556	0.002	3.462	ug/L
|	Pb	207	344.009	-0.00	-0.0310	0.003	9.513	ug/L
|	Pb	208	1656.071	-0.00	-0.0441	0.002	4.072	ug/L
|	U	238	868.714	0.00	0.0458	0.005	10.422	ug/L
⌊>	Bi	209	438522.596	438522.60				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 22:57:27
Page 1

Approved: November 30, 2010

⌈	Na	23	15987.705	-0.02	-0.0030	0.000	4.088	mg/L
|	Mg	24	623.415	0.00	-0.0024	0.000	0.796	mg/L
|	K	39	449742.308	0.01	-0.0080	0.001	9.171	mg/L
|	Ca	43	100.011	-0.00	0.0009	0.002	217.934	mg/L
|	Fe	54	57207.679	0.00	0.0015	0.004	254.942	mg/L
|	Fe	57	9598.900	0.01	0.0034	0.001	41.023	mg/L
⌊>	Sc-1	45	285177.777	285177.78				mg/L
	Cl	35	20004.657	-10595.43				mg/L
	Kr	83	32.334	-12.00				mg/L
	Br	81	10591.607	632.65				mg/L
	P	31	13124.621	-1751.13				mg/L
	S	34	231831.996	14938.73				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.084			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.875			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.394			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.105			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 22:57:27
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 22:57:27

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066538

Sample Date/Time: Monday, November 29, 2010 23:02:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 72
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41017.345	0.02				ug/L
|	Be	9	110.001	0.00	0.2320	0.021	9.006	ug/L
|	Al	27	20024226.622	69.51	2844.2661	320.830	11.280	ug/L
⌊>	Sc	45	288452.574	288452.57				ug/L
⌈	Ti	49	1980.394	0.00	2.6934	0.133	4.941	ug/L
|	V	51	57706.639	0.14	5.1744	0.411	7.948	ug/L
|	Cr	52	32255.373	0.06	2.5646	0.241	9.399	ug/L
|	Cr	53	2840.688	0.01	2.4045	0.068	2.828	ug/L
|	Mn	55	1131203.626	2.81	79.9399	6.082	7.608	ug/L
|	Co	59	20115.143	0.05	1.6600	0.132	7.967	ug/L
|	Ni	60	10132.920	0.03	3.9824	0.350	8.786	ug/L
|	Cu	65	6975.512	0.02	2.6770	0.239	8.942	ug/L
|	Zn	66	15673.464	0.02	8.0049	0.834	10.424	ug/L
| >	Ge	72	403097.923	403097.92				ug/L
|	As	75	1542.856	0.00	1.8023	0.172	9.563	ug/L
|	Se	77	123.346	0.00	0.8294	0.333	40.104	ug/L
|	Se	82	19.365	0.00	0.0896	0.137	153.206	ug/L
⌊	Rb	85	32883.089	0.08				mg/L
	Y	89	277772.668	19525.06				ug/L
	Rh	103	14.333	6.67				ug/L
⌈	Mo	98	360.946	0.00	0.1405	0.016	11.459	ug/L
|	Ag	107	130.669	0.00	0.0086	0.004	41.938	ug/L
|	Cd	114	24.344	0.00	0.0031	0.002	75.448	ug/L
| >	In	115	336406.972	336406.97				ug/L
|	Sn	118	640.554	-0.00	-0.2489	0.004	1.757	ug/L
⌊	Sb	123	73.038	0.00	0.0453	0.003	6.553	ug/L
⌈	Ba	135	117047.535	0.26	71.1462	5.753	8.086	ug/L
|	Ce	140	238025.627	0.52				ug/L
⌊>	Tb	159	455762.029	455762.03				ug/L
⌈	Ho	165	2380.522	0.01				ug/L
|	Tl	203	317.342	0.00	0.0419	0.002	4.544	ug/L
|	Tl	205	813.448	0.00	0.0261	0.004	15.848	ug/L
|	Pb	206	19705.999	0.04	3.0549	0.293	9.605	ug/L
|	Pb	207	16025.694	0.04	2.7553	0.235	8.547	ug/L
|	Pb	208	76844.076	0.17	2.8798	0.268	9.298	ug/L
|	U	238	5591.623	0.01	0.1902	0.014	7.446	ug/L
⌊>	Bi	209	439492.021	439492.02				ug/L

Sample ID: L1011066538
Report Date/Time: Monday, November 29, 2010 23:04:12
Page 1

Approved: November 30, 2010

Na	23	351451.735	1.14	0.0486	0.006	11.923	mg/L	
Mg	24	4791680.862	16.64	1.1119	0.116	10.401	mg/L	
K	39	7554619.631	24.65	0.6691	0.058	8.691	mg/L	
Ca	43	183232.471	0.64	8.0418	0.687	8.546	mg/L	
Fe	54	2917238.479	9.93	3.7784	0.345	9.127	mg/L	
Fe	57	1203320.377	4.15	3.8170	0.400	10.472	mg/L	
> Sc-1	45	288452.574	288452.57				mg/L	
Cl	35	22538.705	-8061.38				mg/L	
Kr	83	34.667	-9.67				mg/L	
Br	81	11575.369	1616.41				mg/L	
P	31	49591.537	34715.79				mg/L	
S	34	225313.770	8420.50				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		96.610			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		100.501			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		101.646			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		102.330			
Na	23					

Sample ID: L1011066538
Report Date/Time: Monday, November 29, 2010 23:04:12

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066538
Report Date/Time: Monday, November 29, 2010 23:04:12

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066539

Sample Date/Time: Monday, November 29, 2010 23:08:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 73
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41536.088	0.03				ug/L
|	Be	9	75.334	0.00	0.1577	0.045	28.302	ug/L
|	Al	27	11357831.250	39.83	1629.5732	422.406	25.921	ug/L
⌊>	Sc	45	285810.956	285810.96				ug/L
⌈	Ti	49	1877.036	0.00	2.5606	0.668	26.105	ug/L
|	V	51	45619.067	0.11	4.0731	0.833	20.440	ug/L
|	Cr	52	23131.319	0.04	1.5627	0.386	24.730	ug/L
|	Cr	53	1857.033	0.00	1.4761	0.494	33.469	ug/L
|	Mn	55	1136255.287	2.85	81.0418	17.863	22.041	ug/L
|	Co	59	16275.823	0.04	1.3503	0.308	22.841	ug/L
|	Ni	60	8905.853	0.02	3.5279	0.814	23.087	ug/L
|	Cu	65	8151.496	0.02	3.1734	0.685	21.573	ug/L
|	Zn	66	48503.693	0.10	32.0970	6.919	21.557	ug/L
| >	Ge	72	399406.140	399406.14				ug/L
|	As	75	597.031	0.00	0.8112	0.143	17.653	ug/L
|	Se	77	73.341	0.00	0.1735	0.279	160.804	ug/L
|	Se	82	7.983	0.00	-0.0312	0.157	501.651	ug/L
⌊	Rb	85	18658.499	0.05				mg/L
	Y	89	266357.297	8109.69				ug/L
	Rh	103	23.334	15.67				ug/L
⌈	Mo	98	221.274	0.00	0.0788	0.007	9.203	ug/L
|	Ag	107	136.336	0.00	0.0105	0.004	42.097	ug/L
|	Cd	114	98.401	0.00	0.0702	0.031	43.832	ug/L
| >	In	115	327276.320	327276.32				ug/L
|	Sn	118	636.154	-0.00	-0.2453	0.007	2.815	ug/L
⌊	Sb	123	59.621	0.00	0.0419	0.002	5.257	ug/L
⌈	Ba	135	117201.525	0.26	72.6940	16.273	22.385	ug/L
|	Ce	140	182821.139	0.41				ug/L
⌊>	Tb	159	447117.623	447117.62				ug/L
⌈	Ho	165	1877.038	0.00				ug/L
|	Tl	203	181.337	0.00	0.0244	0.001	5.707	ug/L
|	Tl	205	476.726	0.00	0.0084	0.002	26.677	ug/L
|	Pb	206	29843.737	0.07	4.7911	1.086	22.678	ug/L
|	Pb	207	25101.004	0.06	4.4626	1.023	22.931	ug/L
|	Pb	208	118106.463	0.27	4.5814	1.044	22.799	ug/L
|	U	238	7266.803	0.02	0.2462	0.054	21.955	ug/L
⌊>	Bi	209	430712.548	430712.55				ug/L

Sample ID: L1011066539
Report Date/Time: Monday, November 29, 2010 23:10:58
Page 1

Approved: November 30, 2010

⌈	Na	23	570668.273	1.92	0.0831	0.017	20.849	mg/L
|	Mg	24	5238282.903	18.37	1.2282	0.285	23.207	mg/L
|	K	39	7026255.280	23.06	0.6253	0.109	17.387	mg/L
|	Ca	43	394993.756	1.38	17.5186	3.848	21.963	mg/L
|	Fe	54	1729290.031	5.87	2.2334	0.562	25.185	mg/L
|	Fe	57	712734.605	2.47	2.2733	0.582	25.588	mg/L
⌊>	Sc-1	45	285810.956	285810.96				mg/L
	Cl	35	23299.116	-7300.97				mg/L
	Kr	83	40.334	-4.00				mg/L
	Br	81	10484.163	525.20				mg/L
	P	31	330863.324	315987.58				mg/L
	S	34	216209.872	-683.40				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.725			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.773			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.718			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.286			
⌈	Na	23					

Sample ID: L1011066539
Report Date/Time: Monday, November 29, 2010 23:10:58
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066539
Report Date/Time: Monday, November 29, 2010 23:10:58

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066540

Sample Date/Time: Monday, November 29, 2010 23:15:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 74
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40097.023	0.02				ug/L
|	Be	9	92.667	0.00	0.1944	0.065	33.178	ug/L
|	Al	27	14684057.449	51.14	2092.3746	627.520	29.991	ug/L
⌊>	Sc	45	287697.604	287697.60				ug/L
⌈	Ti	49	1520.271	0.00	1.9416	0.506	26.071	ug/L
|	V	51	50882.309	0.12	4.4530	1.182	26.553	ug/L
|	Cr	52	28262.175	0.05	2.0644	0.628	30.417	ug/L
|	Cr	53	2520.594	0.01	2.0586	0.815	39.593	ug/L
|	Mn	55	1162977.932	2.84	80.8718	21.624	26.739	ug/L
|	Co	59	18394.150	0.04	1.4908	0.397	26.617	ug/L
|	Ni	60	8730.066	0.02	3.3696	0.900	26.716	ug/L
|	Cu	65	9290.924	0.02	3.5362	0.935	26.443	ug/L
|	Zn	66	33924.045	0.06	20.8236	5.573	26.764	ug/L
⌊>	Ge	72	409789.996	409790.00				ug/L
|	As	75	896.089	0.00	1.1052	0.238	21.544	ug/L
|	Se	77	93.343	0.00	0.4099	0.376	91.695	ug/L
|	Se	82	1.316	0.00	-0.1042	0.107	102.394	ug/L
⌊	Rb	85	27751.869	0.07				mg/L
	Y	89	273625.842	15378.24				ug/L
	Rh	103	14.333	6.67				ug/L
⌈	Mo	98	176.273	0.00	0.0537	0.009	16.345	ug/L
|	Ag	107	160.670	0.00	0.0141	0.006	44.618	ug/L
|	Cd	114	80.863	0.00	0.0513	0.023	45.305	ug/L
⌊>	In	115	341913.654	341913.65				ug/L
|	Sn	118	562.549	-0.00	-0.2721	0.003	1.027	ug/L
⌊	Sb	123	49.119	0.00	0.0382	0.001	3.387	ug/L
⌈	Ba	135	63147.552	0.14	38.2139	9.735	25.474	ug/L
|	Ce	140	204767.861	0.45				ug/L
⌊>	Tb	159	457508.820	457508.82				ug/L
⌈	Ho	165	2053.756	0.00				ug/L
|	Tl	203	241.339	0.00	0.0319	0.008	24.784	ug/L
|	Tl	205	583.409	0.00	0.0137	0.008	57.576	ug/L
|	Pb	206	29809.173	0.07	4.6828	1.231	26.281	ug/L
|	Pb	207	24954.260	0.06	4.3411	1.115	25.683	ug/L
|	Pb	208	117643.930	0.26	4.4654	1.166	26.103	ug/L
|	U	238	5421.594	0.01	0.1850	0.046	24.621	ug/L
⌊>	Bi	209	439509.648	439509.65				ug/L

Sample ID: L1011066540
Report Date/Time: Monday, November 29, 2010 23:17:44
Page 1

Approved: November 30, 2010

Na	23	260790.804	0.83	0.0348	0.008	24.085	mg/L	
Mg	24	5514311.246	19.21	1.2844	0.357	27.823	mg/L	
K	39	10914818.786	36.43	0.9928	0.207	20.818	mg/L	
Ca	43	208382.797	0.73	9.1812	2.423	26.396	mg/L	
Fe	54	2464076.791	8.39	3.1928	0.978	30.631	mg/L	
Fe	57	996153.957	3.44	3.1662	0.911	28.771	mg/L	
Sc-1	45	287697.604	287697.60				mg/L	
Cl	35	24636.982	-5963.10				mg/L	
Kr	83	40.334	-4.00				mg/L	
Br	81	11582.039	1623.08				mg/L	
P	31	79374.958	64499.21				mg/L	
S	34	219732.891	2839.62				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		98.214			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		102.146			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		102.036			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		102.334			
Na	23					

Sample ID: L1011066540
Report Date/Time: Monday, November 29, 2010 23:17:44
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066540
Report Date/Time: Monday, November 29, 2010 23:17:44
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, November 29, 2010 23:22:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39896.306	0.02				ug/L
|	Be	9	23190.870	0.08	49.6297	2.018	4.065	ug/L
|	Al	27	336967.086	1.11	45.5778	1.329	2.917	ug/L
⌊>	Sc	45	295537.653	295537.65				ug/L
⌈	Ti	49	65372.931	0.16	101.3213	1.798	1.774	ug/L
|	V	51	543075.034	1.35	51.1565	0.794	1.551	ug/L
|	Cr	52	464605.307	1.13	51.3444	0.296	0.577	ug/L
|	Cr	53	54855.531	0.14	52.6302	1.096	2.083	ug/L
|	Mn	55	725377.078	1.81	51.4117	0.327	0.636	ug/L
|	Co	59	602846.081	1.50	50.7665	0.204	0.403	ug/L
|	Ni	60	126140.552	0.31	50.2010	0.095	0.189	ug/L
|	Cu	65	122290.244	0.30	48.5883	0.490	1.009	ug/L
|	Zn	66	68447.823	0.15	46.3744	0.180	0.389	ug/L
|>	Ge	72	401602.133	401602.13				ug/L
|	As	75	46000.983	0.12	48.8134	0.823	1.685	ug/L
|	Se	77	3641.027	0.01	47.8184	1.067	2.232	ug/L
|	Se	82	4680.176	0.01	49.9073	0.668	1.338	ug/L
⌊	Rb	85	1831.519	0.00				mg/L
	Y	89	244744.430	-13503.17				ug/L
	Rh	103	27.334	19.67				ug/L
⌈	Mo	98	208073.817	0.62	96.5132	1.498	1.552	ug/L
|	Ag	107	243767.784	0.73	48.9993	0.459	0.936	ug/L
|	Cd	114	56072.617	0.17	49.0219	0.998	2.036	ug/L
|>	In	115	335283.921	335283.92				ug/L
|	Sn	118	192063.025	0.57	51.0012	0.553	1.084	ug/L
⌊	Sb	123	167401.160	0.50	47.9200	0.793	1.656	ug/L
⌈	Ba	135	75956.819	0.17	45.8978	0.084	0.183	ug/L
|	Ce	140	60.006	0.00				ug/L
⌊>	Tb	159	458292.970	458292.97				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	353696.930	0.83	48.2021	0.341	0.708	ug/L
|	Tl	205	864989.370	2.04	48.2973	0.189	0.392	ug/L
|	Pb	206	288997.771	0.68	48.0338	0.096	0.200	ug/L
|	Pb	207	268882.751	0.63	49.2822	0.103	0.209	ug/L
|	Pb	208	1206085.806	2.83	48.3583	0.165	0.342	ug/L
|	U	238	1709453.675	4.02	54.0673	0.325	0.601	ug/L
⌊>	Bi	209	424865.572	424865.57				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 23:24:29
Page 1

Approved: November 30, 2010

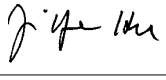
Na	23	30421935.752	102.89	4.5531	0.118	2.602	mg/L
Mg	24	19662045.316	66.55	4.4547	0.127	2.862	mg/L
K	39	50362763.394	168.82	4.6300	0.067	1.444	mg/L
Ca	43	110036.377	0.37	4.7064	0.055	1.163	mg/L
Fe	54	3718390.476	12.38	4.7127	0.069	1.462	mg/L
Fe	57	1508016.439	5.08	4.6678	0.043	0.918	mg/L
Sc-1	45	295537.653	295537.65				mg/L
Cl	35	19567.793	-11032.29				mg/L
Kr	83	36.334	-8.00				mg/L
Br	81	10303.307	344.35				mg/L
P	31	11622.088	-3253.66				mg/L
S	34	221071.291	4178.02				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	102.313				
Cr	52	102.689				
Cr	53					
Mn	55	102.823				
Co	59	101.533				
Ni	60	100.402				
Cu	65	97.177				
Zn	66	92.749				
Ge	72		96.252			
As	75	97.627				
Se	77					
Se	82	99.815				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	97.999				
Cd	114	98.044				
In	115		100.165			
Sn	118					
Sb	123	95.840				
Ba	135	91.796				
Ce	140					
Tb	159		102.210			
Ho	165					
Tl	203	96.404				
Tl	205					
Pb	206					
Pb	207					
Pb	208	96.717				
U	238	108.135				
Bi	209		98.925			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 23:24:29

Approved: November 30, 2010



Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, November 29, 2010 23:24:29
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, November 29, 2010 23:29:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40314.514	0.02				ug/L
|	Be	9	4.667	0.00	0.0004	0.014	3191.016	ug/L
|	Al	27	5901.750	-0.01	-0.2792	0.068	24.422	ug/L
⌊>	Sc	45	298043.037	298043.04				ug/L
⌈	Ti	49	93.343	0.00	-0.2321	0.026	11.319	ug/L
|	V	51	2725.506	-0.00	-0.0155	0.002	12.730	ug/L
|	Cr	52	8656.833	-0.00	-0.0883	0.008	9.359	ug/L
|	Cr	53	166.685	-0.00	-0.1677	0.053	31.719	ug/L
|	Mn	55	367.677	-0.00	-0.0172	0.002	9.213	ug/L
|	Co	59	195.337	-0.00	-0.0130	0.000	2.719	ug/L
|	Ni	60	25.334	-0.00	-0.0306	0.001	2.506	ug/L
|	Cu	65	90.335	-0.00	-0.0551	0.006	11.114	ug/L
|	Zn	66	520.685	-0.02	-2.9650	0.021	0.700	ug/L
| >	Ge	72	402880.421	402880.42				ug/L
|	As	75	-207.359	0.00	-0.0421	0.020	46.599	ug/L
|	Se	77	83.342	0.00	0.3011	0.394	130.938	ug/L
|	Se	82	4.394	0.00	-0.0702	0.053	75.358	ug/L
⌊	Rb	85	17.000	-0.00				mg/L
	Y	89	249233.071	-9014.53				ug/L
	Rh	103	5.333	-2.33				ug/L
⌈	Mo	98	982.397	0.00	0.4208	0.068	16.253	ug/L
|	Ag	107	38.334	0.00	-0.0100	0.000	2.583	ug/L
|	Cd	114	21.228	-0.00	0.0002	0.008	4573.313	ug/L
| >	In	115	341557.167	341557.17				ug/L
|	Sn	118	934.710	-0.00	-0.1741	0.008	4.625	ug/L
⌊	Sb	123	240.835	0.00	0.0921	0.008	8.968	ug/L
⌈	Ba	135	14.000	0.00	-0.0144	0.002	14.798	ug/L
|	Ce	140	23.336	0.00				ug/L
⌊>	Tb	159	466576.535	466576.53				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	20.667	-0.00	0.0028	0.001	41.851	ug/L
|	Tl	205	36.670	-0.00	-0.0159	0.001	8.549	ug/L
|	Pb	206	409.679	-0.00	-0.0571	0.003	5.573	ug/L
|	Pb	207	352.676	-0.00	-0.0298	0.002	8.313	ug/L
|	Pb	208	1619.734	-0.00	-0.0457	0.002	4.218	ug/L
|	U	238	889.049	0.00	0.0463	0.005	11.506	ug/L
⌊>	Bi	209	440412.351	440412.35				ug/L

Approved: November 30, 2010

Na	23	16147.978	-0.03	-0.0030	0.000	1.232	mg/L
Mg	24	553.404	0.00	-0.0024	0.000	0.143	mg/L
K	39	441189.242	-0.09	-0.0107	0.001	5.166	mg/L
Ca	43	156.684	-0.00	0.0030	0.001	34.002	mg/L
Fe	54	57008.178	-0.01	-0.0021	0.001	69.649	mg/L
Fe	57	9185.144	0.00	0.0008	0.002	210.611	mg/L
Sc-1	45	298043.037	298043.04				mg/L
Cl	35	19299.272	-11300.81				mg/L
Kr	83	31.334	-13.00				mg/L
Br	81	10675.029	716.07				mg/L
P	31	12074.635	-2801.11				mg/L
S	34	214398.782	-2494.49				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		96.558			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		102.039			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		104.058			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		102.545			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 23:31:12

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, November 29, 2010 23:31:12

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: PBS B2 WG349473-02

Sample Date/Time: Monday, November 29, 2010 23:35:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 75
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41686.723	0.02				ug/L
|	Be	9	6.000	0.00	0.0032	0.004	138.103	ug/L
|	Al	27	7702.967	-0.00	-0.0432	0.042	96.641	ug/L
⌊>	Sc	45	301443.272	301443.27				ug/L
⌈	Ti	49	60.006	0.00	-0.2848	0.040	14.116	ug/L
|	V	51	2780.591	-0.00	-0.0119	0.009	73.969	ug/L
|	Cr	52	8629.143	-0.00	-0.0975	0.018	18.469	ug/L
|	Cr	53	153.350	-0.00	-0.1813	0.033	18.245	ug/L
|	Mn	55	1012.728	0.00	0.0280	0.002	5.687	ug/L
|	Co	59	199.671	-0.00	-0.0128	0.001	4.062	ug/L
|	Ni	60	73.334	0.00	-0.0117	0.003	21.805	ug/L
|	Cu	65	169.336	-0.00	-0.0242	0.002	9.345	ug/L
|	Zn	66	2341.631	-0.01	-1.6571	0.019	1.137	ug/L
|>	Ge	72	405387.325	405387.33				ug/L
|	As	75	-220.066	-0.00	-0.0542	0.042	77.741	ug/L
|	Se	77	63.340	-0.00	0.0241	0.496	2061.245	ug/L
|	Se	82	0.707	0.00	-0.1096	0.113	102.847	ug/L
⌊	Rb	85	18.667	-0.00				mg/L
	Y	89	251696.677	-6550.93				ug/L
	Rh	103	3.667	-4.00				ug/L
⌈	Mo	98	370.202	0.00	0.1405	0.004	3.110	ug/L
|	Ag	107	19.667	-0.00	-0.0137	0.001	3.864	ug/L
|	Cd	114	21.261	-0.00	0.0000	0.006	19435.200	ug/L
|>	In	115	344997.938	344997.94				ug/L
|	Sn	118	741.361	-0.00	-0.2269	0.004	1.881	ug/L
⌊	Sb	123	98.705	0.00	0.0519	0.003	5.667	ug/L
⌈	Ba	135	27.667	0.00	-0.0062	0.004	68.112	ug/L
|	Ce	140	26.669	0.00				ug/L
⌊>	Tb	159	465252.969	465252.97				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	13.000	-0.00	0.0017	0.001	52.728	ug/L
|	Tl	205	26.669	-0.00	-0.0164	0.000	1.869	ug/L
|	Pb	206	450.681	-0.00	-0.0509	0.005	9.142	ug/L
|	Pb	207	382.011	-0.00	-0.0250	0.001	3.471	ug/L
|	Pb	208	1765.412	-0.00	-0.0405	0.001	3.418	ug/L
|	U	238	303.341	0.00	0.0283	0.001	3.089	ug/L
⌊>	Bi	209	443036.805	443036.80				ug/L

Sample ID: PBS B2 WG349473-02
Report Date/Time: Monday, November 29, 2010 23:37:59
Page 1

Approved: November 30, 2010

⌈	Na	23	32964.205	0.03	-0.0006	0.000	9.473	mg/L
|	Mg	24	1616.959	0.00	-0.0022	0.000	1.312	mg/L
|	K	39	446553.694	-0.09	-0.0106	0.001	7.511	mg/L
|	Ca	43	210.023	-0.00	0.0052	0.003	51.794	mg/L
|	Fe	54	58373.813	-0.01	-0.0012	0.004	319.267	mg/L
|	Fe	57	8954.909	0.00	-0.0002	0.001	710.125	mg/L
⌊>	Sc-1	45	301443.272	301443.27				mg/L
	Cl	35	19058.813	-11541.27				mg/L
	Kr	83	33.667	-10.67				mg/L
	Br	81	10606.965	648.01				mg/L
	P	31	12719.419	-2156.33				mg/L
	S	34	211727.031	-5166.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.159			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.067			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.763			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.156			
⌈	Na	23					

Sample ID: PBS B2 WG349473-02
Report Date/Time: Monday, November 29, 2010 23:37:59
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS B2 WG349473-02
Report Date/Time: Monday, November 29, 2010 23:37:59
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: LCSS B2 WG349473-03

Sample Date/Time: Monday, November 29, 2010 23:42:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 76
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	45787.949	0.02				ug/L
|	Be	9	10851.219	0.03	20.7096	0.731	3.529	ug/L
|	Al	27	192078.217	0.55	22.6368	0.757	3.343	ug/L
⌊>	Sc	45	331299.719	331299.72				ug/L
⌈	Ti	49	56.673	0.00	-0.2880	0.023	7.898	ug/L
|	V	51	283792.666	0.71	26.9645	0.445	1.649	ug/L
|	Cr	52	253303.581	0.62	27.8940	0.451	1.617	ug/L
|	Cr	53	28871.167	0.07	27.9163	0.476	1.706	ug/L
|	Mn	55	387748.683	0.98	27.8296	0.202	0.724	ug/L
|	Co	59	313719.662	0.79	26.7569	0.146	0.547	ug/L
|	Ni	60	65983.638	0.17	26.5934	0.399	1.502	ug/L
|	Cu	65	63534.201	0.16	25.5359	0.052	0.205	ug/L
|	Zn	66	31619.226	0.06	19.9333	0.397	1.994	ug/L
|>	Ge	72	396344.336	396344.34				ug/L
|	As	75	20486.955	0.05	22.1233	0.210	0.947	ug/L
|	Se	77	1530.270	0.00	19.9107	1.427	7.169	ug/L
|	Se	82	1815.899	0.00	19.5517	0.725	3.708	ug/L
⌊	Rb	85	26.000	0.00				mg/L
	Y	89	256544.803	-1702.80				ug/L
	Rh	103	11.667	4.00				ug/L
⌈	Mo	98	255.385	0.00	0.0850	0.013	15.197	ug/L
|	Ag	107	121897.393	0.34	23.0353	0.247	1.073	ug/L
|	Cd	114	27188.151	0.08	22.3439	0.294	1.315	ug/L
|>	In	115	356464.415	356464.41				ug/L
|	Sn	118	1071.124	-0.00	-0.1501	0.003	2.182	ug/L
⌊	Sb	123	82875.221	0.23	22.3254	0.202	0.905	ug/L
⌈	Ba	135	39658.550	0.08	22.9645	0.114	0.496	ug/L
|	Ce	140	60.006	0.00				ug/L
⌊>	Tb	159	478010.779	478010.78				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	184000.625	0.43	25.0002	0.029	0.114	ug/L
|	Tl	205	451798.240	1.06	25.1439	0.302	1.199	ug/L
|	Pb	206	156259.638	0.37	25.8378	0.140	0.541	ug/L
|	Pb	207	137488.157	0.32	25.0787	0.099	0.393	ug/L
|	Pb	208	637515.301	1.49	25.4335	0.048	0.189	ug/L
|	U	238	892037.275	2.09	28.1380	0.092	0.328	ug/L
⌊>	Bi	209	426137.140	426137.14				ug/L

Sample ID: LCSS B2 WG349473-03
Report Date/Time: Monday, November 29, 2010 23:44:45
Page 1

Approved: November 30, 2010

⌈	Na	23	54470.047	0.08	0.0018	0.000	5.775	mg/L
|	Mg	24	4221.315	0.01	-0.0017	0.000	3.107	mg/L
|	K	39	431544.713	-0.27	-0.0155	0.001	6.826	mg/L
|	Ca	43	220.024	-0.00	0.0048	0.001	18.747	mg/L
|	Fe	54	130633.372	0.20	0.0752	0.003	4.542	mg/L
|	Fe	57	11831.513	0.01	0.0053	0.001	13.070	mg/L
⌊>	Sc-1	45	331299.719	331299.72				mg/L
	Cl	35	22815.331	-7784.75				mg/L
	Kr	83	33.334	-11.00				mg/L
	Br	81	11287.039	1328.08				mg/L
	P	31	29282.358	14406.61				mg/L
	S	34	227408.203	10514.93				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.992			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		106.493			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.608			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.221			
⌈	Na	23					

Sample ID: LCSS B2 WG349473-03
Report Date/Time: Monday, November 29, 2010 23:44:45
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS B2 WG349473-03
Report Date/Time: Monday, November 29, 2010 23:44:45
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066501

Sample Date/Time: Monday, November 29, 2010 23:49:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 77
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42071.793	0.03				ug/L
|	Be	9	96.000	0.00	0.2127	0.016	7.505	ug/L
|	Al	27	10259647.515	37.51	1534.8927	65.559	4.271	ug/L
⌊>	Sc	45	273439.220	273439.22				ug/L
⌈	Ti	49	1903.707	0.00	2.5406	0.382	15.040	ug/L
|	V	51	45141.014	0.10	3.9380	0.036	0.911	ug/L
|	Cr	52	22212.197	0.03	1.4062	0.009	0.675	ug/L
|	Cr	53	1713.652	0.00	1.3015	0.061	4.661	ug/L
|	Mn	55	910228.407	2.23	63.5562	0.600	0.944	ug/L
|	Co	59	13700.517	0.03	1.1077	0.013	1.178	ug/L
|	Ni	60	5591.952	0.01	2.1532	0.004	0.196	ug/L
|	Cu	65	8075.674	0.02	3.0755	0.007	0.222	ug/L
|	Zn	66	27075.212	0.05	16.0289	0.307	1.917	ug/L
|>	Ge	72	407728.075	407728.08				ug/L
|	As	75	561.218	0.00	0.7606	0.033	4.326	ug/L
|	Se	77	106.678	0.00	0.5927	0.406	68.495	ug/L
|	Se	82	16.032	0.00	0.0516	0.097	188.822	ug/L
⌊	Rb	85	26393.048	0.06				mg/L
	Y	89	270678.278	12430.67				ug/L
	Rh	103	16.334	8.67				ug/L
⌈	Mo	98	296.679	0.00	0.1106	0.007	6.429	ug/L
|	Ag	107	147.669	0.00	0.0120	0.003	22.358	ug/L
|	Cd	114	68.813	0.00	0.0418	0.013	30.980	ug/L
|>	In	115	336669.965	336669.96				ug/L
|	Sn	118	510.946	-0.00	-0.2836	0.001	0.321	ug/L
⌊	Sb	123	64.078	0.00	0.0427	0.004	8.832	ug/L
⌈	Ba	135	38529.806	0.08	23.4529	0.176	0.750	ug/L
|	Ce	140	178839.437	0.39				ug/L
⌊>	Tb	159	454741.486	454741.49				ug/L
⌈	Ho	165	1350.227	0.00				ug/L
|	Tl	203	212.338	0.00	0.0285	0.002	5.488	ug/L
|	Tl	205	513.399	0.00	0.0104	0.008	73.435	ug/L
|	Pb	206	23393.901	0.05	3.7172	0.073	1.971	ug/L
|	Pb	207	19590.705	0.04	3.4513	0.072	2.075	ug/L
|	Pb	208	92380.136	0.21	3.5484	0.058	1.639	ug/L
|	U	238	30190.139	0.07	0.9594	0.010	1.033	ug/L
⌊>	Bi	209	431330.469	431330.47				ug/L

Sample ID: L1011066501
Report Date/Time: Monday, November 29, 2010 23:51:32
Page 1

Approved: November 30, 2010

⌈	Na	23	270832.086	0.91	0.0384	0.001	3.510	mg/L
|	Mg	24	3192701.761	11.68	0.7800	0.029	3.771	mg/L
|	K	39	8417232.844	29.22	0.7947	0.021	2.687	mg/L
|	Ca	43	109547.798	0.40	5.0645	0.083	1.637	mg/L
|	Fe	54	1671010.815	5.91	2.2508	0.034	1.491	mg/L
|	Fe	57	680416.122	2.46	2.2627	0.050	2.196	mg/L
⌊>	Sc-1	45	273439.220	273439.22				mg/L
	Cl	35	21904.635	-8695.45				mg/L
	Kr	83	34.667	-9.67				mg/L
	Br	81	11303.054	1344.10				mg/L
	P	31	76838.757	61963.01				mg/L
	S	34	214436.129	-2457.14				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.720			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.579			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.418			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.430			
⌈	Na	23					

Sample ID: L1011066501
Report Date/Time: Monday, November 29, 2010 23:51:32
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066501
Report Date/Time: Monday, November 29, 2010 23:51:32
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066502 WG349473-01

Sample Date/Time: Monday, November 29, 2010 23:56:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 78
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41218.247	0.02				ug/L
|	Be	9	104.667	0.00	0.2217	0.045	20.436	ug/L
|	Al	27	11862754.100	41.39	1693.5007	52.894	3.123	ug/L
⌊>	Sc	45	286410.338	286410.34				ug/L
⌈	Ti	49	1696.982	0.00	2.2148	0.326	14.723	ug/L
|	V	51	50524.213	0.12	4.4226	0.185	4.177	ug/L
|	Cr	52	24893.207	0.04	1.6937	0.090	5.285	ug/L
|	Cr	53	1950.386	0.00	1.5200	0.145	9.546	ug/L
|	Mn	55	1053675.258	2.57	73.3080	3.492	4.764	ug/L
|	Co	59	15973.252	0.04	1.2914	0.058	4.521	ug/L
|	Ni	60	6321.061	0.02	2.4299	0.083	3.409	ug/L
|	Cu	65	14046.007	0.03	5.3962	0.245	4.545	ug/L
|	Zn	66	49637.803	0.10	32.0388	1.395	4.355	ug/L
|>	Ge	72	409324.963	409324.96				ug/L
|	As	75	1117.669	0.00	1.3361	0.134	10.018	ug/L
|	Se	77	140.015	0.00	1.0250	0.664	64.821	ug/L
|	Se	82	38.711	0.00	0.2895	0.182	62.941	ug/L
⌊	Rb	85	33919.501	0.08				mg/L
	Y	89	272990.144	14742.54				ug/L
	Rh	103	14.667	7.00				ug/L
⌈	Mo	98	362.503	0.00	0.1395	0.015	10.652	ug/L
|	Ag	107	145.669	0.00	0.0113	0.004	37.233	ug/L
|	Cd	114	1360.264	0.00	1.1551	0.064	5.574	ug/L
|>	In	115	339971.833	339971.83				ug/L
|	Sn	118	605.218	-0.00	-0.2600	0.005	1.873	ug/L
⌊	Sb	123	53.744	0.00	0.0396	0.001	3.415	ug/L
⌈	Ba	135	47827.376	0.10	28.6309	1.150	4.017	ug/L
|	Ce	140	208188.146	0.45				ug/L
⌊>	Tb	159	462490.387	462490.39				ug/L
⌈	Ho	165	1880.366	0.00				ug/L
|	Tl	203	241.672	0.00	0.0320	0.003	9.336	ug/L
|	Tl	205	643.418	0.00	0.0170	0.000	1.155	ug/L
|	Pb	206	55033.753	0.12	8.7737	0.409	4.658	ug/L
|	Pb	207	45987.783	0.10	8.1004	0.414	5.113	ug/L
|	Pb	208	217420.581	0.49	8.3676	0.383	4.575	ug/L
|	U	238	38754.742	0.09	1.2078	0.048	3.991	ug/L
⌊>	Bi	209	437983.278	437983.28				ug/L

Sample ID: L1011066502 WG349473-01
Report Date/Time: Monday, November 29, 2010 23:58:20
Page 1

Approved: November 30, 2010

⌈	Na	23	576343.030	1.93	0.0836	0.003	3.987	mg/L
|	Mg	24	3871390.900	13.51	0.9027	0.038	4.251	mg/L
|	K	39	10525211.989	35.18	0.9582	0.038	4.014	mg/L
|	Ca	43	142875.002	0.50	6.3059	0.197	3.119	mg/L
|	Fe	54	1919898.436	6.50	2.4755	0.086	3.464	mg/L
|	Fe	57	804397.306	2.78	2.5565	0.087	3.414	mg/L
⌊>	Sc-1	45	286410.338	286410.34				mg/L
	Cl	35	29573.666	-1026.42				mg/L
	Kr	83	33.334	-11.00				mg/L
	Br	81	11158.889	1199.93				mg/L
	P	31	112703.723	97827.98				mg/L
	S	34	223296.354	6403.08				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.103			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.566			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.147			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.979			
⌈	Na	23					

Sample ID: L1011066502 WG349473-01
Report Date/Time: Monday, November 29, 2010 23:58:20
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066502 WG349473-01
Report Date/Time: Monday, November 29, 2010 23:58:20
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066503S WG349473-04

Sample Date/Time: Tuesday, November 30, 2010 00:02:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 79
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39109.836	0.02				ug/L
|	Be	9	2277.593	0.01	5.0758	0.193	3.802	ug/L
|	Al	27	10583553.646	37.36	1528.6122	94.607	6.189	ug/L
⌊>	Sc	45	283377.322	283377.32				ug/L
⌈	Ti	49	1837.021	0.00	2.4487	0.425	17.357	ug/L
|	V	51	91543.995	0.22	8.2897	0.327	3.944	ug/L
|	Cr	52	66323.661	0.14	6.3278	0.327	5.175	ug/L
|	Cr	53	7096.562	0.02	6.4383	0.308	4.790	ug/L
|	Mn	55	1150763.075	2.83	80.5778	2.636	3.272	ug/L
|	Co	59	71894.679	0.18	5.9541	0.246	4.136	ug/L
|	Ni	60	17989.682	0.04	7.0357	0.210	2.989	ug/L
|	Cu	65	32137.571	0.08	12.5454	0.542	4.323	ug/L
|	Zn	66	509012.171	1.23	361.8116	12.930	3.574	ug/L
|>	Ge	72	406778.506	406778.51				ug/L
|	As	75	4881.856	0.01	5.2731	0.176	3.341	ug/L
|	Se	77	500.063	0.00	5.7974	1.421	24.511	ug/L
|	Se	82	486.366	0.00	5.0160	0.132	2.629	ug/L
⌊	Rb	85	29556.599	0.07				mg/L
	Y	89	270934.735	12687.13				ug/L
	Rh	103	19.667	12.00				ug/L
⌈	Mo	98	1195.572	0.00	0.5255	0.016	3.024	ug/L
|	Ag	107	22229.578	0.07	4.4294	0.127	2.856	ug/L
|	Cd	114	5683.048	0.02	4.9268	0.305	6.189	ug/L
|>	In	115	337023.302	337023.30				ug/L
|	Sn	118	557.349	-0.00	-0.2713	0.001	0.542	ug/L
⌊	Sb	123	684.109	0.00	0.2192	0.005	2.120	ug/L
⌈	Ba	135	55501.241	0.12	34.2199	1.147	3.352	ug/L
|	Ce	140	197537.027	0.44				ug/L
⌊>	Tb	159	449108.948	449108.95				ug/L
⌈	Ho	165	1890.369	0.00				ug/L
|	Tl	203	33554.891	0.08	4.4773	0.141	3.159	ug/L
|	Tl	205	83337.461	0.19	4.5393	0.064	1.417	ug/L
|	Pb	206	55392.285	0.13	8.9146	0.317	3.558	ug/L
|	Pb	207	47431.432	0.11	8.4359	0.332	3.939	ug/L
|	Pb	208	221542.931	0.50	8.6084	0.329	3.819	ug/L
|	U	238	197648.573	0.46	6.1375	0.167	2.718	ug/L
⌊>	Bi	209	434000.053	434000.05				ug/L

Sample ID: L1011066503S WG349473-04
Report Date/Time: Tuesday, November 30, 2010 00:05:07
Page 1

Approved: November 30, 2010

⌈	Na	23	498001.823	1.68	0.0724	0.004	5.978	mg/L
|	Mg	24	3610827.791	12.75	0.8518	0.050	5.896	mg/L
|	K	39	8991324.401	30.18	0.8211	0.043	5.210	mg/L
|	Ca	43	160792.141	0.57	7.1782	0.314	4.379	mg/L
|	Fe	54	1754648.615	6.00	2.2827	0.104	4.554	mg/L
|	Fe	57	719558.472	2.51	2.3105	0.103	4.471	mg/L
⌊>	Sc-1	45	283377.322	283377.32				mg/L
	Cl	35	26642.779	-3957.31				mg/L
	Kr	83	36.667	-7.67				mg/L
	Br	81	11235.644	1276.69				mg/L
	P	31	113719.215	98843.47				mg/L
	S	34	223207.606	6314.34				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.492			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.685			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.162			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.052			
⌈	Na	23					

Sample ID: L1011066503S WG349473-04
Report Date/Time: Tuesday, November 30, 2010 00:05:07
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Sample ID: L1011066503S WG349473-04
Report Date/Time: Tuesday, November 30, 2010 00:05:07
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066504SD WG349473-05

Sample Date/Time: Tuesday, November 30, 2010 00:09:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 80
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40247.565	0.02				ug/L
|	Be	9	2372.949	0.01	5.1364	0.349	6.796	ug/L
|	Al	27	13363210.245	45.79	1873.5496	50.049	2.671	ug/L
⌊>	Sc	45	291727.768	291727.77				ug/L
⌈	Ti	49	2607.273	0.01	3.5429	0.618	17.449	ug/L
|	V	51	108238.852	0.25	9.6388	0.396	4.104	ug/L
|	Cr	52	69434.371	0.14	6.5116	0.303	4.647	ug/L
|	Cr	53	7730.435	0.02	6.8899	0.552	8.005	ug/L
|	Mn	55	1157257.406	2.79	79.3352	2.863	3.609	ug/L
|	Co	59	72347.557	0.17	5.8648	0.179	3.056	ug/L
|	Ni	60	18621.522	0.04	7.1316	0.336	4.706	ug/L
|	Cu	65	25040.915	0.06	9.5482	0.402	4.210	ug/L
|	Zn	66	50128.878	0.10	31.8650	1.270	3.985	ug/L
|>	Ge	72	415456.840	415456.84				ug/L
|	As	75	5102.761	0.01	5.3923	0.164	3.035	ug/L
|	Se	77	430.052	0.00	4.7391	0.558	11.780	ug/L
|	Se	82	459.382	0.00	4.6270	0.260	5.622	ug/L
⌊	Rb	85	37761.225	0.09				mg/L
	Y	89	277320.264	19072.66				ug/L
	Rh	103	17.667	10.00				ug/L
⌈	Mo	98	279.532	0.00	0.1009	0.007	7.100	ug/L
|	Ag	107	22195.512	0.06	4.3624	0.134	3.076	ug/L
|	Cd	114	5495.515	0.02	4.6985	0.120	2.554	ug/L
|>	In	115	341606.974	341606.97				ug/L
|	Sn	118	546.815	-0.00	-0.2761	0.007	2.619	ug/L
⌊	Sb	123	484.637	0.00	0.1606	0.001	0.773	ug/L
⌈	Ba	135	57766.030	0.13	34.6834	1.064	3.067	ug/L
|	Ce	140	208955.894	0.45				ug/L
⌊>	Tb	159	461181.608	461181.61				ug/L
⌈	Ho	165	2020.407	0.00				ug/L
|	Tl	203	32693.687	0.07	4.2664	0.066	1.558	ug/L
|	Tl	205	81545.967	0.18	4.3438	0.088	2.018	ug/L
|	Pb	206	58398.032	0.13	9.1960	0.331	3.603	ug/L
|	Pb	207	50446.855	0.11	8.7791	0.351	3.994	ug/L
|	Pb	208	235411.241	0.52	8.9508	0.336	3.755	ug/L
|	U	238	192199.180	0.43	5.8384	0.186	3.194	ug/L
⌊>	Bi	209	443715.088	443715.09				ug/L

Sample ID: L1011066504SD WG349473-05
Report Date/Time: Tuesday, November 30, 2010 00:11:55
Page 1

Approved: November 30, 2010

⌈	Na	23	381781.873	1.23	0.0525	0.002	3.557	mg/L
|	Mg	24	3949129.760	13.54	0.9044	0.046	5.130	mg/L
|	K	39	10203220.420	33.41	0.9097	0.016	1.727	mg/L
|	Ca	43	143118.002	0.49	6.2031	0.190	3.062	mg/L
|	Fe	54	2224898.427	7.43	2.8275	0.119	4.201	mg/L
|	Fe	57	910826.642	3.09	2.8454	0.036	1.262	mg/L
⌊>	Sc-1	45	291727.768	291727.77				mg/L
	Cl	35	29080.223	-1519.86				mg/L
	Kr	83	34.667	-9.67				mg/L
	Br	81	10964.008	1005.05				mg/L
	P	31	106424.051	91548.30				mg/L
	S	34	220975.562	4082.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.572			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.054			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.855			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.314			
⌈	Na	23					

Sample ID: L1011066504SD WG349473-05
Report Date/Time: Tuesday, November 30, 2010 00:11:55
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1011066504SD WG349473-05
Report Date/Time: Tuesday, November 30, 2010 00:11:55
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066505

Sample Date/Time: Tuesday, November 30, 2010 00:16:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 81
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41502.636	0.02				ug/L
|	Be	9	109.334	0.00	0.2243	0.015	6.589	ug/L
|	Al	27	13623062.501	46.02	1882.8775	22.238	1.181	ug/L
⌊>	Sc	45	295897.747	295897.75				ug/L
⌈	Ti	49	2313.833	0.01	3.1266	0.191	6.106	ug/L
|	V	51	51831.603	0.12	4.5029	0.052	1.150	ug/L
|	Cr	52	27206.914	0.04	1.9241	0.069	3.591	ug/L
|	Cr	53	2297.160	0.00	1.8298	0.098	5.367	ug/L
|	Mn	55	1134871.392	2.75	78.2806	0.109	0.139	ug/L
|	Co	59	17097.441	0.04	1.3723	0.012	0.848	ug/L
|	Ni	60	6550.210	0.02	2.4976	0.023	0.906	ug/L
|	Cu	65	12724.218	0.03	4.8370	0.036	0.745	ug/L
|	Zn	66	47408.922	0.10	30.1619	0.238	0.789	ug/L
|>	Ge	72	412786.680	412786.68				ug/L
|	As	75	1032.263	0.00	1.2378	0.024	1.906	ug/L
|	Se	77	96.677	0.00	0.4415	0.587	132.858	ug/L
|	Se	82	33.366	0.00	0.2293	0.049	21.190	ug/L
⌊	Rb	85	39069.905	0.09				mg/L
	Y	89	280607.225	22359.62				ug/L
	Rh	103	16.667	9.00				ug/L
⌈	Mo	98	413.282	0.00	0.1596	0.008	5.316	ug/L
|	Ag	107	158.670	0.00	0.0134	0.002	18.647	ug/L
|	Cd	114	90.590	0.00	0.0588	0.006	10.184	ug/L
|>	In	115	345571.117	345571.12				ug/L
|	Sn	118	656.155	-0.00	-0.2493	0.004	1.478	ug/L
⌊	Sb	123	43.369	0.00	0.0365	0.002	5.504	ug/L
⌈	Ba	135	53025.086	0.11	31.6327	0.428	1.352	ug/L
|	Ce	140	215304.465	0.46				ug/L
⌊>	Tb	159	464115.507	464115.51				ug/L
⌈	Ho	165	1920.376	0.00				ug/L
|	Tl	203	918.387	0.00	0.1203	0.038	31.962	ug/L
|	Tl	205	2217.162	0.00	0.1011	0.050	49.113	ug/L
|	Pb	206	56327.763	0.13	8.8867	0.027	0.300	ug/L
|	Pb	207	46742.793	0.10	8.1469	0.024	0.294	ug/L
|	Pb	208	221164.302	0.49	8.4225	0.027	0.324	ug/L
|	U	238	44516.316	0.10	1.3702	0.008	0.582	ug/L
⌊>	Bi	209	442608.506	442608.51				ug/L

Approved: November 30, 2010

Na	23	592722.546	1.92	0.0832	0.001	0.756	mg/L
Mg	24	4108538.952	13.88	0.9275	0.010	1.030	mg/L
K	39	11583366.540	37.58	1.0242	0.012	1.135	mg/L
Ca	43	139239.903	0.47	5.9494	0.123	2.069	mg/L
Fe	54	2220446.415	7.30	2.7801	0.026	0.935	mg/L
Fe	57	890159.871	2.98	2.7407	0.029	1.057	mg/L
> Sc-1	45	295897.747	295897.75				mg/L
Cl	35	30931.098	331.01				mg/L
Kr	83	34.667	-9.67				mg/L
Br	81	11329.751	1370.79				mg/L
P	31	124288.488	109412.74				mg/L
S	34	227674.824	10781.55				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		98.932			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		103.239			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		103.509			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.056			
Na	23					

Sample ID: L1011066505
Report Date/Time: Tuesday, November 30, 2010 00:18:44
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066505PS WG349858-01

Sample Date/Time: Tuesday, November 30, 2010 00:23:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 82
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42439.925	0.02				ug/L
|	Be	9	23538.347	0.08	49.8578	2.013	4.037	ug/L
|	Al	27	13680312.118	45.80	1874.0390	52.513	2.802	ug/L
⌊>	Sc	45	298593.134	298593.13				ug/L
⌈	Ti	49	2243.812	0.01	3.1096	0.397	12.770	ug/L
|	V	51	592526.016	1.47	55.7804	0.600	1.076	ug/L
|	Cr	52	493406.743	1.20	54.5335	0.475	0.872	ug/L
|	Cr	53	57886.178	0.14	55.4899	0.541	0.975	ug/L
|	Mn	55	1871929.046	4.66	132.6038	0.948	0.715	ug/L
|	Co	59	631136.796	1.57	53.0952	0.044	0.084	ug/L
|	Ni	60	136483.106	0.34	54.2631	0.158	0.292	ug/L
|	Cu	65	138889.950	0.35	55.1406	0.413	0.749	ug/L
|	Zn	66	114879.604	0.27	80.0116	0.468	0.585	ug/L
|>	Ge	72	402027.066	402027.07				ug/L
|	As	75	48070.397	0.12	50.9424	0.270	0.530	ug/L
|	Se	77	3824.447	0.01	50.2105	1.413	2.814	ug/L
|	Se	82	4689.575	0.01	49.9547	0.713	1.427	ug/L
⌊	Rb	85	38502.699	0.10				mg/L
	Y	89	271109.358	12861.75				ug/L
	Rh	103	42.001	34.33				ug/L
⌈	Mo	98	463.358	0.00	0.1863	0.013	7.210	ug/L
|	Ag	107	247366.934	0.73	49.2032	0.291	0.592	ug/L
|	Cd	114	56928.455	0.17	49.2463	0.696	1.414	ug/L
|>	In	115	338804.228	338804.23				ug/L
|	Sn	118	757.362	-0.00	-0.2191	0.005	2.095	ug/L
⌊	Sb	123	171115.893	0.50	48.4707	0.460	0.949	ug/L
⌈	Ba	135	130679.321	0.29	79.3391	0.631	0.795	ug/L
|	Ce	140	215556.492	0.47				ug/L
⌊>	Tb	159	456244.164	456244.16				ug/L
⌈	Ho	165	2003.737	0.00				ug/L
|	Tl	203	360338.388	0.83	48.0378	0.377	0.786	ug/L
|	Tl	205	895704.052	2.06	48.9245	0.680	1.391	ug/L
|	Pb	206	361790.821	0.83	58.8510	0.275	0.468	ug/L
|	Pb	207	314460.196	0.72	56.3948	0.490	0.870	ug/L
|	Pb	208	1465683.341	3.37	57.5077	0.332	0.578	ug/L
|	U	238	1780050.862	4.10	55.0739	0.562	1.021	ug/L
⌊>	Bi	209	434316.100	434316.10				ug/L

Sample ID: L1011066505PS WG349858-01
Report Date/Time: Tuesday, November 30, 2010 00:25:33
Page 1

Approved: November 30, 2010

⌈	Na	23	584748.949	1.88	0.0813	0.001	1.599	mg/L
|	Mg	24	4097830.581	13.73	0.9169	0.023	2.478	mg/L
|	K	39	11456466.040	36.80	1.0029	0.018	1.747	mg/L
|	Ca	43	135059.641	0.45	5.7177	0.089	1.560	mg/L
|	Fe	54	2206416.853	7.19	2.7371	0.044	1.604	mg/L
|	Fe	57	889145.233	2.95	2.7120	0.030	1.098	mg/L
⌊>	Sc-1	45	298593.134	298593.13				mg/L
	Cl	35	30440.944	-159.14				mg/L
	Kr	83	29.000	-15.33				mg/L
	Br	81	11133.528	1174.57				mg/L
	P	31	122812.361	107936.62				mg/L
	S	34	219864.317	2971.05				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.354			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.217			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.754			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.125			
⌈	Na	23					

Sample ID: L1011066505PS WG349858-01
Report Date/Time: Tuesday, November 30, 2010 00:25:33
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1011066505PS WG349858-01
Report Date/Time: Tuesday, November 30, 2010 00:25:33
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066505SDL WG349858-02

Sample Date/Time: Tuesday, November 30, 2010 00:30:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 83
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40732.895	0.02				ug/L
|	Be	9	25.333	0.00	0.0474	0.022	45.498	ug/L
|	Al	27	2769450.212	9.72	397.8846	23.247	5.843	ug/L
⌊>	Sc	45	284582.672	284582.67				ug/L
⌈	Ti	49	436.720	0.00	0.2818	0.187	66.226	ug/L
|	V	51	12452.931	0.02	0.8694	0.012	1.370	ug/L
|	Cr	52	11698.622	0.01	0.2165	0.013	5.982	ug/L
|	Cr	53	476.726	0.00	0.1180	0.032	27.082	ug/L
|	Mn	55	224355.310	0.54	15.3712	0.056	0.365	ug/L
|	Co	59	3620.358	0.01	0.2661	0.006	2.435	ug/L
|	Ni	60	1414.448	0.00	0.5050	0.012	2.345	ug/L
|	Cu	65	2658.047	0.01	0.9338	0.023	2.511	ug/L
|	Zn	66	12539.984	0.01	5.4795	0.078	1.426	ug/L
|>	Ge	72	414639.560	414639.56				ug/L
|	As	75	78.039	0.00	0.2559	0.032	12.645	ug/L
|	Se	77	60.006	-0.00	-0.0358	0.123	343.670	ug/L
|	Se	82	1.988	0.00	-0.0968	0.033	34.477	ug/L
⌊	Rb	85	7727.729	0.02				mg/L
	Y	89	256093.120	-2154.48				ug/L
	Rh	103	5.667	-2.00				ug/L
⌈	Mo	98	104.636	0.00	0.0214	0.005	22.030	ug/L
|	Ag	107	69.668	0.00	-0.0038	0.002	64.932	ug/L
|	Cd	114	28.264	0.00	0.0062	0.010	168.508	ug/L
|>	In	115	340423.884	340423.88				ug/L
|	Sn	118	416.942	-0.00	-0.3098	0.002	0.765	ug/L
⌊	Sb	123	270.587	0.00	0.1007	0.008	8.073	ug/L
⌈	Ba	135	10594.050	0.02	6.3551	0.174	2.742	ug/L
|	Ce	140	43595.841	0.09				ug/L
⌊>	Tb	159	460269.651	460269.65				ug/L
⌈	Ho	165	463.390	0.00				ug/L
|	Tl	203	109.002	0.00	0.0141	0.003	22.712	ug/L
|	Tl	205	266.697	0.00	-0.0038	0.003	88.493	ug/L
|	Pb	206	11653.237	0.02	1.7061	0.010	0.569	ug/L
|	Pb	207	9779.544	0.02	1.5997	0.037	2.333	ug/L
|	Pb	208	45880.206	0.10	1.6283	0.018	1.116	ug/L
|	U	238	9193.317	0.02	0.2929	0.001	0.364	ug/L
⌊>	Bi	209	451034.995	451034.99				ug/L

Approved: November 30, 2010

⌈	Na	23	126484.121	0.37	0.0143	0.001	7.084	mg/L
|	Mg	24	853135.548	3.00	0.1987	0.013	6.463	mg/L
|	K	39	2587939.698	7.54	0.1990	0.015	7.444	mg/L
|	Ca	43	26333.934	0.09	1.1686	0.055	4.687	mg/L
|	Fe	54	441052.934	1.35	0.5155	0.020	3.957	mg/L
|	Fe	57	177355.190	0.60	0.5462	0.018	3.326	mg/L
⌊>	Sc-1	45	284582.672	284582.67				mg/L
	Cl	35	21131.638	-9468.45				mg/L
	Kr	83	39.667	-4.67				mg/L
	Br	81	10466.142	507.18				mg/L
	P	31	29552.961	14677.22				mg/L
	S	34	203834.417	-13058.85				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.376			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.701			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.651			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.018			
⌈	Na	23					

Sample ID: L1011066505SDL WG349858-02
Report Date/Time: Tuesday, November 30, 2010 00:32:18
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 30, 2010 00:36:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41318.678	0.02				ug/L
|	Be	9	23252.339	0.08	48.6006	0.847	1.744	ug/L
|	Al	27	342089.962	1.10	45.1853	1.393	3.082	ug/L
⌊>	Sc	45	302508.510	302508.51				ug/L
⌈	Ti	49	67497.177	0.17	104.3476	1.564	1.499	ug/L
|	V	51	544814.105	1.35	51.1832	0.695	1.357	ug/L
|	Cr	52	469188.686	1.14	51.7194	0.445	0.860	ug/L
|	Cr	53	54570.648	0.13	52.2050	0.632	1.210	ug/L
|	Mn	55	732875.070	1.82	51.8026	0.827	1.596	ug/L
|	Co	59	606388.770	1.51	50.9299	0.197	0.386	ug/L
|	Ni	60	129046.483	0.32	51.2186	0.557	1.087	ug/L
|	Cu	65	124534.976	0.31	49.3515	0.189	0.384	ug/L
|	Zn	66	69264.122	0.15	46.8331	0.646	1.380	ug/L
|>	Ge	72	402671.986	402671.99				ug/L
|	As	75	46375.318	0.12	49.0739	0.185	0.377	ug/L
|	Se	77	3727.735	0.01	48.8390	1.427	2.922	ug/L
|	Se	82	4688.186	0.01	49.8587	0.201	0.403	ug/L
⌊	Rb	85	1875.528	0.00				mg/L
	Y	89	250007.974	-8239.63				ug/L
	Rh	103	25.000	17.33				ug/L
⌈	Mo	98	210726.610	0.62	97.0565	1.269	1.307	ug/L
|	Ag	107	248494.146	0.74	49.5991	0.600	1.209	ug/L
|	Cd	114	56374.569	0.17	48.9340	0.162	0.331	ug/L
|>	In	115	337648.183	337648.18				ug/L
|	Sn	118	194281.095	0.57	51.2231	0.600	1.171	ug/L
⌊	Sb	123	168715.757	0.50	47.9540	0.141	0.294	ug/L
⌈	Ba	135	76882.191	0.17	46.3483	0.079	0.171	ug/L
|	Ce	140	103.344	0.00				ug/L
⌊>	Tb	159	459371.442	459371.44				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	357158.459	0.83	48.2987	0.205	0.425	ug/L
|	Tl	205	882890.817	2.06	48.9169	0.707	1.446	ug/L
|	Pb	206	290208.197	0.68	47.8635	0.351	0.734	ug/L
|	Pb	207	271956.464	0.63	49.4631	0.120	0.243	ug/L
|	Pb	208	1218471.573	2.84	48.4791	0.243	0.502	ug/L
|	U	238	1716077.274	4.01	53.8587	0.481	0.894	ug/L
⌊>	Bi	209	428153.892	428153.89				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 30, 2010 00:39:03
Page 1

Approved: November 30, 2010

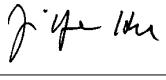
Na	23	30864856.597	101.94	4.5114	0.020	0.435	mg/L
Mg	24	19632852.517	64.91	4.3452	0.094	2.170	mg/L
K	39	50836645.331	166.53	4.5670	0.097	2.130	mg/L
Ca	43	113191.627	0.37	4.7303	0.090	1.907	mg/L
Fe	54	3734772.586	12.15	4.6227	0.068	1.463	mg/L
Fe	57	1497782.939	4.93	4.5292	0.148	3.261	mg/L
Sc-1	45	302508.510	302508.51				mg/L
Cl	35	19524.375	-11075.71				mg/L
Kr	83	35.667	-8.67				mg/L
Br	81	10336.006	377.05				mg/L
P	31	13121.978	-1753.77				mg/L
S	34	222954.160	6060.89				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	102.366				
Cr	52	103.439				
Cr	53					
Mn	55	103.605				
Co	59	101.860				
Ni	60	102.437				
Cu	65	98.703				
Zn	66	93.666				
Ge	72		96.508			
As	75	98.148				
Se	77					
Se	82	99.717				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.198				
Cd	114	97.868				
In	115		100.872			
Sn	118					
Sb	123	95.908				
Ba	135	92.697				
Ce	140					
Tb	159		102.451			
Ho	165					
Tl	203	96.597				
Tl	205					
Pb	206					
Pb	207					
Pb	208	96.958				
U	238	107.717				
Bi	209		99.690			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 30, 2010 00:39:03
Page 2

Approved: November 30, 2010



Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 30, 2010 00:39:03
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 30, 2010 00:43:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43762.234	0.03				ug/L
|	Be	9	6.667	0.00	0.0050	0.005	97.997	ug/L
|	Al	27	6452.083	-0.00	-0.1845	0.026	14.167	ug/L
⌊>	Sc	45	291745.145	291745.14				ug/L
⌈	Ti	49	90.009	0.00	-0.2377	0.031	12.945	ug/L
|	V	51	2768.162	-0.00	-0.0117	0.007	55.541	ug/L
|	Cr	52	8774.603	-0.00	-0.0761	0.003	4.471	ug/L
|	Cr	53	190.021	-0.00	-0.1451	0.027	18.635	ug/L
|	Mn	55	359.343	-0.00	-0.0178	0.001	6.690	ug/L
|	Co	59	191.670	-0.00	-0.0133	0.001	6.520	ug/L
|	Ni	60	31.000	0.00	-0.0284	0.003	10.728	ug/L
|	Cu	65	98.668	-0.00	-0.0518	0.003	5.163	ug/L
|	Zn	66	531.686	-0.02	-2.9575	0.019	0.655	ug/L
|>	Ge	72	403307.939	403307.94				ug/L
|	As	75	-218.436	-0.00	-0.0539	0.016	29.238	ug/L
|	Se	77	83.342	0.00	0.2957	0.299	100.947	ug/L
|	Se	82	0.377	0.00	-0.1135	0.092	80.720	ug/L
⌊	Rb	85	12.000	-0.00				mg/L
	Y	89	249861.118	-8386.49				ug/L
	Rh	103	6.333	-1.33				ug/L
⌈	Mo	98	973.437	0.00	0.4155	0.078	18.765	ug/L
|	Ag	107	41.334	0.00	-0.0094	0.003	28.331	ug/L
|	Cd	114	10.844	-0.00	-0.0088	0.008	92.390	ug/L
|>	In	115	343036.858	343036.86				ug/L
|	Sn	118	884.706	-0.00	-0.1882	0.007	3.759	ug/L
⌊	Sb	123	259.251	0.00	0.0970	0.010	10.622	ug/L
⌈	Ba	135	15.000	0.00	-0.0136	0.005	35.864	ug/L
|	Ce	140	6.667	-0.00				ug/L
⌊>	Tb	159	457829.289	457829.29				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	26.334	-0.00	0.0035	0.000	13.501	ug/L
|	Tl	205	70.007	-0.00	-0.0141	0.002	11.812	ug/L
|	Pb	206	386.345	-0.00	-0.0602	0.006	9.718	ug/L
|	Pb	207	351.676	-0.00	-0.0293	0.005	15.845	ug/L
|	Pb	208	1642.071	-0.00	-0.0442	0.001	2.716	ug/L
|	U	238	1255.092	0.00	0.0578	0.005	7.980	ug/L
⌊>	Bi	209	435750.795	435750.79				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 30, 2010 00:45:47
Page 1

Approved: November 30, 2010

⌈	Na	23	15700.555	-0.03	-0.0031	0.000	2.791	mg/L
|	Mg	24	750.103	0.00	-0.0023	0.000	0.721	mg/L
|	K	39	442203.304	-0.06	-0.0097	0.000	4.714	mg/L
|	Ca	43	173.352	-0.00	0.0039	0.001	25.549	mg/L
|	Fe	54	57528.092	-0.00	0.0001	0.003	2307.222	mg/L
|	Fe	57	9085.036	0.00	0.0011	0.001	109.494	mg/L
⌊>	Sc-1	45	291745.145	291745.14				mg/L
	Cl	35	19261.867	-11338.22				mg/L
	Kr	83	33.334	-11.00				mg/L
	Br	81	10738.430	779.47				mg/L
	P	31	12925.042	-1950.70				mg/L
	S	34	213014.919	-3878.35				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.660			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.481			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.107			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.459			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 30, 2010 00:45:47
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 30, 2010 00:45:47
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066506

Sample Date/Time: Tuesday, November 30, 2010 00:50:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 84
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40682.600	0.03				ug/L
|	Be	9	218.002	0.00	0.4793	0.020	4.252	ug/L
|	Al	27	29567080.778	104.94	4293.6978	353.364	8.230	ug/L
⌊>	Sc	45	282178.859	282178.86				ug/L
⌈	Ti	49	2243.810	0.01	3.1156	0.296	9.493	ug/L
|	V	51	78599.456	0.19	7.1736	0.306	4.264	ug/L
|	Cr	52	47209.430	0.09	4.2655	0.236	5.526	ug/L
|	Cr	53	4834.990	0.01	4.3417	0.397	9.142	ug/L
|	Mn	55	2613584.840	6.51	185.4252	7.273	3.922	ug/L
|	Co	59	31388.541	0.08	2.6164	0.106	4.070	ug/L
|	Ni	60	12064.068	0.03	4.7663	0.212	4.438	ug/L
|	Cu	65	20222.990	0.05	7.9627	0.389	4.881	ug/L
|	Zn	66	55784.545	0.12	37.1924	1.765	4.746	ug/L
|>	Ge	72	401497.764	401497.76				ug/L
|	As	75	1372.461	0.00	1.6277	0.050	3.078	ug/L
|	Se	77	140.015	0.00	1.0590	0.581	54.907	ug/L
|	Se	82	60.355	0.00	0.5280	0.067	12.619	ug/L
⌊	Rb	85	75386.125	0.19				mg/L
	Y	89	297417.896	39170.29				ug/L
	Rh	103	26.000	18.33				ug/L
⌈	Mo	98	471.395	0.00	0.1939	0.010	5.246	ug/L
|	Ag	107	306.674	0.00	0.0446	0.005	11.495	ug/L
|	Cd	114	178.997	0.00	0.1396	0.019	13.926	ug/L
|>	In	115	332809.378	332809.38				ug/L
|	Sn	118	602.418	-0.00	-0.2573	0.004	1.721	ug/L
⌊	Sb	123	103.953	0.00	0.0544	0.003	5.516	ug/L
⌈	Ba	135	101708.229	0.23	63.0203	2.436	3.865	ug/L
|	Ce	140	400505.205	0.90				ug/L
⌊>	Tb	159	446954.905	446954.91				ug/L
⌈	Ho	165	3894.484	0.01				ug/L
|	Tl	203	520.352	0.00	0.0709	0.006	8.538	ug/L
|	Tl	205	1276.876	0.00	0.0534	0.004	6.579	ug/L
|	Pb	206	46806.234	0.11	7.6682	0.374	4.876	ug/L
|	Pb	207	38835.777	0.09	7.0316	0.374	5.318	ug/L
|	Pb	208	183542.624	0.43	7.2593	0.372	5.129	ug/L
|	U	238	52734.754	0.12	1.6847	0.085	5.018	ug/L
⌊>	Bi	209	425352.390	425352.39				ug/L

Sample ID: L1011066506
Report Date/Time: Tuesday, November 30, 2010 08:29:53
Page 1

Approved: November 30, 2010

⌈	Na	23	817731.685	2.82	0.1230	0.008	6.382	mg/L
|	Mg	24	8685009.803	30.82	2.0621	0.151	7.308	mg/L
|	K	39	22390921.509	77.86	2.1310	0.112	5.236	mg/L
|	Ca	43	321066.040	1.14	14.4046	0.897	6.224	mg/L
|	Fe	54	4059500.867	14.21	5.4061	0.362	6.689	mg/L
|	Fe	57	1682875.362	5.94	5.4664	0.316	5.775	mg/L
⌊>	Sc-1	45	282178.859	282178.86				mg/L
	Cl	35	35992.083	5392.00				mg/L
	Kr	83	36.000	-8.33				mg/L
	Br	81	12402.365	2443.41				mg/L
	P	31	186490.384	171614.64				mg/L
	S	34	221837.664	4944.39				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.227			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.426			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.682			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.038			
⌈	Na	23					

Sample ID: L1011066506
Report Date/Time: Tuesday, November 30, 2010 08:29:53
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066507

Sample Date/Time: Tuesday, November 30, 2010 00:57:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 85
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42306.293	0.02				ug/L
|	Be	9	256.670	0.00	0.5421	0.034	6.322	ug/L
|	Al	27	31211364.854	106.08	4340.5742	226.075	5.208	ug/L
⌊>	Sc	45	294582.285	294582.28				ug/L
⌈	Ti	49	1993.732	0.00	2.6709	0.118	4.400	ug/L
|	V	51	86133.692	0.20	7.7442	0.156	2.016	ug/L
|	Cr	52	48922.543	0.10	4.3617	0.083	1.898	ug/L
|	Cr	53	5251.904	0.01	4.6546	0.070	1.514	ug/L
|	Mn	55	2486846.652	6.08	173.3301	2.346	1.354	ug/L
|	Co	59	40906.574	0.10	3.3582	0.048	1.421	ug/L
|	Ni	60	13990.588	0.03	5.4364	0.143	2.631	ug/L
|	Cu	65	41057.861	0.10	15.9726	0.251	1.572	ug/L
|	Zn	66	63605.319	0.14	42.0655	1.167	2.773	ug/L
|>	Ge	72	408662.543	408662.54				ug/L
|	As	75	1839.052	0.01	2.0872	0.050	2.406	ug/L
|	Se	77	113.345	0.00	0.6753	0.322	47.619	ug/L
|	Se	82	45.317	0.00	0.3592	0.090	24.934	ug/L
⌊	Rb	85	81197.515	0.20				mg/L
	Y	89	311903.944	53656.34				ug/L
	Rh	103	30.334	22.67				ug/L
⌈	Mo	98	402.834	0.00	0.1599	0.008	4.767	ug/L
|	Ag	107	285.674	0.00	0.0397	0.004	10.912	ug/L
|	Cd	114	171.931	0.00	0.1317	0.017	12.545	ug/L
|>	In	115	336363.170	336363.17				ug/L
|	Sn	118	599.085	-0.00	-0.2599	0.006	2.319	ug/L
⌊	Sb	123	84.745	0.00	0.0486	0.001	2.935	ug/L
⌈	Ba	135	113909.675	0.25	69.4966	1.353	1.946	ug/L
|	Ce	140	499741.646	1.10				ug/L
⌊>	Tb	159	454010.369	454010.37				ug/L
⌈	Ho	165	4828.315	0.01				ug/L
|	Tl	203	584.690	0.00	0.0786	0.003	3.382	ug/L
|	Tl	205	1603.622	0.00	0.0704	0.005	7.092	ug/L
|	Pb	206	57991.629	0.13	9.4000	0.249	2.646	ug/L
|	Pb	207	48431.516	0.11	8.6721	0.232	2.670	ug/L
|	Pb	208	227343.755	0.52	8.8943	0.243	2.736	ug/L
|	U	238	93644.445	0.22	2.9368	0.061	2.090	ug/L
⌊>	Bi	209	431169.659	431169.66				ug/L

Approved: November 30, 2010

⌈	Na	23	929883.948	3.08	0.1346	0.009	6.802	mg/L
|	Mg	24	8780407.700	29.87	1.9982	0.135	6.750	mg/L
|	K	39	25547999.817	85.31	2.3358	0.137	5.864	mg/L
|	Ca	43	176108.036	0.60	7.5716	0.428	5.653	mg/L
|	Fe	54	4821832.577	16.20	6.1630	0.335	5.432	mg/L
|	Fe	57	1992195.195	6.75	6.2085	0.425	6.841	mg/L
⌊>	Sc-1	45	294582.285	294582.28				mg/L
	Cl	35	32501.399	1901.31				mg/L
	Kr	83	40.334	-4.00				mg/L
	Br	81	11152.216	1193.26				mg/L
	P	31	232505.208	217629.46				mg/L
	S	34	217155.299	262.03				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.944			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.488			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.255			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.393			
⌈	Na	23					

Sample ID: L1011066507
Report Date/Time: Tuesday, November 30, 2010 08:29:54
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066508

Sample Date/Time: Tuesday, November 30, 2010 01:03:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 86
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42038.328	0.03				ug/L
|	Be	9	215.336	0.00	0.4643	0.105	22.628	ug/L
|	Al	27	23372859.945	81.23	3323.5421	774.804	23.313	ug/L
⌊>	Sc	45	288230.309	288230.31				ug/L
⌈	Ti	49	1503.600	0.00	1.9363	0.509	26.288	ug/L
|	V	51	65539.604	0.15	5.8647	1.264	21.548	ug/L
|	Cr	52	74932.980	0.16	7.2967	1.799	24.652	ug/L
|	Cr	53	7850.654	0.02	7.1664	1.883	26.271	ug/L
|	Mn	55	1980877.568	4.88	138.9169	30.360	21.855	ug/L
|	Co	59	32166.631	0.08	2.6508	0.551	20.784	ug/L
|	Ni	60	14108.014	0.03	5.5159	1.155	20.945	ug/L
|	Cu	65	24598.274	0.06	9.5922	2.035	21.217	ug/L
|	Zn	66	74450.441	0.16	50.1339	11.385	22.708	ug/L
|>	Ge	72	406644.664	406644.66				ug/L
|	As	75	1420.086	0.00	1.6607	0.291	17.528	ug/L
|	Se	77	160.017	0.00	1.2970	0.377	29.051	ug/L
|	Se	82	96.663	0.00	0.9046	0.263	29.100	ug/L
⌊	Rb	85	60917.328	0.15				mg/L
	Y	89	295968.754	37721.15				ug/L
	Rh	103	23.667	16.00				ug/L
⌈	Mo	98	323.867	0.00	0.1249	0.023	18.393	ug/L
|	Ag	107	479.683	0.00	0.0795	0.012	15.329	ug/L
|	Cd	114	454.687	0.00	0.3822	0.084	21.857	ug/L
|>	In	115	333170.359	333170.36				ug/L
|	Sn	118	565.083	-0.00	-0.2675	0.008	2.967	ug/L
⌊	Sb	123	77.453	0.00	0.0468	0.003	6.072	ug/L
⌈	Ba	135	91249.662	0.20	56.2076	11.525	20.505	ug/L
|	Ce	140	369929.126	0.82				ug/L
⌊>	Tb	159	449725.681	449725.68				ug/L
⌈	Ho	165	3390.940	0.01				ug/L
|	Tl	203	462.682	0.00	0.0622	0.012	18.578	ug/L
|	Tl	205	1093.504	0.00	0.0422	0.012	28.204	ug/L
|	Pb	206	86068.403	0.20	14.0290	3.037	21.649	ug/L
|	Pb	207	72391.911	0.17	13.0255	2.852	21.898	ug/L
|	Pb	208	340946.004	0.79	13.4111	2.921	21.782	ug/L
|	U	238	141741.799	0.33	4.4419	1.004	22.604	ug/L
⌊>	Bi	209	431529.638	431529.64				ug/L

Sample ID: L1011066508
Report Date/Time: Tuesday, November 30, 2010 08:29:56
Page 1

Approved: November 30, 2010

Na	23	1304970.929	4.46	0.1954	0.037	19.009	mg/L	
Mg	24	7380261.102	25.66	1.7165	0.399	23.247	mg/L	
K	39	17958009.142	60.86	1.6638	0.287	17.278	mg/L	
Ca	43	204948.842	0.71	9.0084	1.921	21.325	mg/L	
Fe	54	3704291.918	12.68	4.8246	1.172	24.285	mg/L	
Fe	57	1507154.514	5.21	4.7938	1.130	23.568	mg/L	
> Sc-1	45	288230.309	288230.31				mg/L	
Cl	35	31591.184	991.10				mg/L	
Kr	83	39.000	-5.33				mg/L	
Br	81	11875.053	1916.10				mg/L	
P	31	150022.590	135146.84				mg/L	
S	34	226291.836	9398.57				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		97.460			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		99.534			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		100.300			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		100.476			
Na	23					

Sample ID: L1011066508
Report Date/Time: Tuesday, November 30, 2010 08:29:56
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066509

Sample Date/Time: Tuesday, November 30, 2010 01:10:39
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 87
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41251.710	0.02				ug/L
|	Be	9	269.337	0.00	0.5621	0.046	8.154	ug/L
|	Al	27	30798416.799	103.22	4223.4462	601.966	14.253	ug/L
⌊>	Sc	45	297803.584	297803.58				ug/L
⌈	Ti	49	1650.304	0.00	2.1184	0.504	23.783	ug/L
|	V	51	80181.306	0.19	7.1057	1.247	17.546	ug/L
|	Cr	52	49321.895	0.10	4.3440	0.889	20.475	ug/L
|	Cr	53	4831.699	0.01	4.2095	1.216	28.898	ug/L
|	Mn	55	2465873.064	5.97	169.9408	29.750	17.506	ug/L
|	Co	59	42287.804	0.10	3.4333	0.611	17.788	ug/L
|	Ni	60	14518.545	0.04	5.5797	1.052	18.851	ug/L
|	Cu	65	24108.741	0.06	9.2352	1.623	17.570	ug/L
|	Zn	66	135406.893	0.31	92.2328	16.624	18.024	ug/L
|>	Ge	72	414135.575	414135.57				ug/L
|	As	75	1790.054	0.00	2.0149	0.295	14.661	ug/L
|	Se	77	136.681	0.00	0.9629	0.436	45.319	ug/L
|	Se	82	100.040	0.00	0.9195	0.086	9.373	ug/L
⌊	Rb	85	81394.487	0.20				mg/L
	Y	89	308695.420	50447.82				ug/L
	Rh	103	23.000	15.33				ug/L
⌈	Mo	98	342.315	0.00	0.1336	0.024	17.818	ug/L
|	Ag	107	320.675	0.00	0.0474	0.007	15.415	ug/L
|	Cd	114	333.156	0.00	0.2756	0.050	18.194	ug/L
|>	In	115	332680.923	332680.92				ug/L
|	Sn	118	571.083	-0.00	-0.2657	0.003	1.240	ug/L
⌊	Sb	123	59.411	0.00	0.0416	0.002	4.392	ug/L
⌈	Ba	135	111885.674	0.25	68.3890	10.796	15.787	ug/L
|	Ce	140	485709.795	1.07				ug/L
⌊>	Tb	159	453044.262	453044.26				ug/L
⌈	Ho	165	4728.277	0.01				ug/L
|	Tl	203	600.357	0.00	0.0810	0.005	6.217	ug/L
|	Tl	205	1513.600	0.00	0.0658	0.007	11.222	ug/L
|	Pb	206	59707.577	0.14	9.7262	1.563	16.073	ug/L
|	Pb	207	50008.389	0.12	8.9984	1.444	16.053	ug/L
|	Pb	208	236855.437	0.55	9.3139	1.531	16.436	ug/L
|	U	238	253933.301	0.59	7.9678	1.397	17.536	ug/L
⌊>	Bi	209	429652.783	429652.78				ug/L

Sample ID: L1011066509
Report Date/Time: Tuesday, November 30, 2010 08:29:57
Page 1

Approved: November 30, 2010

⌈	Na	23	1942797.896	6.44	0.2831	0.026	9.322	mg/L
|	Mg	24	8817050.745	29.55	1.9769	0.295	14.940	mg/L
|	K	39	32145525.024	106.25	2.9109	0.275	9.453	mg/L
|	Ca	43	145675.878	0.49	6.1741	0.786	12.726	mg/L
|	Fe	54	4876969.648	16.15	6.1456	0.874	14.222	mg/L
|	Fe	57	1982293.959	6.62	6.0864	0.891	14.636	mg/L
⌊>	Sc-1	45	297803.584	297803.58				mg/L
	Cl	35	39282.401	8682.31				mg/L
	Kr	83	34.000	-10.33				mg/L
	Br	81	12852.265	2893.31				mg/L
	P	31	263423.687	248547.94				mg/L
	S	34	220203.079	3309.81				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.256			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.388			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.040			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.039			
⌈	Na	23					

Sample ID: L1011066509
Report Date/Time: Tuesday, November 30, 2010 08:29:57
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066510

Sample Date/Time: Tuesday, November 30, 2010 01:17:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 88
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42088.514	0.02				ug/L
|	Be	9	234.003	0.00	0.4813	0.076	15.829	ug/L
|	Al	27	25835531.985	85.66	3504.6977	326.054	9.303	ug/L
⌊>	Sc	45	301666.011	301666.01				ug/L
⌈	Ti	49	1646.968	0.00	2.1016	0.337	16.027	ug/L
|	V	51	80493.623	0.19	7.0972	0.561	7.905	ug/L
|	Cr	52	44794.418	0.08	3.8230	0.318	8.308	ug/L
|	Cr	53	4521.475	0.01	3.8913	0.212	5.456	ug/L
|	Mn	55	2532763.068	6.10	173.6655	14.436	8.312	ug/L
|	Co	59	41080.150	0.10	3.3169	0.230	6.925	ug/L
|	Ni	60	14027.669	0.03	5.3610	0.415	7.747	ug/L
|	Cu	65	23939.614	0.06	9.1225	0.709	7.768	ug/L
|	Zn	66	151490.704	0.35	103.0379	7.451	7.232	ug/L
|>	Ge	72	415608.924	415608.92				ug/L
|	As	75	1740.089	0.00	1.9550	0.141	7.222	ug/L
|	Se	77	83.342	0.00	0.2666	0.336	125.928	ug/L
|	Se	82	85.668	0.00	0.7680	0.064	8.376	ug/L
⌊	Rb	85	70166.203	0.17				mg/L
	Y	89	313157.059	54909.46				ug/L
	Rh	103	33.334	25.67				ug/L
⌈	Mo	98	343.096	0.00	0.1311	0.017	13.292	ug/L
|	Ag	107	353.343	0.00	0.0527	0.002	3.791	ug/L
|	Cd	114	319.287	0.00	0.2581	0.025	9.786	ug/L
|>	In	115	339022.616	339022.62				ug/L
|	Sn	118	641.221	-0.00	-0.2500	0.004	1.788	ug/L
⌊	Sb	123	56.285	0.00	0.0404	0.002	6.061	ug/L
⌈	Ba	135	115165.535	0.25	69.7498	4.598	6.592	ug/L
|	Ce	140	489498.998	1.07				ug/L
⌊>	Tb	159	457274.128	457274.13				ug/L
⌈	Ho	165	4928.378	0.01				ug/L
|	Tl	203	531.686	0.00	0.0699	0.010	14.745	ug/L
|	Tl	205	1320.219	0.00	0.0532	0.006	10.656	ug/L
|	Pb	206	68131.696	0.15	10.8259	0.827	7.642	ug/L
|	Pb	207	57078.180	0.13	10.0159	0.772	7.711	ug/L
|	Pb	208	269484.384	0.61	10.3351	0.788	7.622	ug/L
|	U	238	299376.826	0.68	9.1476	0.713	7.800	ug/L
⌊>	Bi	209	440712.647	440712.65				ug/L

Sample ID: L1011066510
Report Date/Time: Tuesday, November 30, 2010 08:29:58
Page 1

Approved: November 30, 2010

⌈	Na	23	1738812.436	5.69	0.2498	0.021	8.314	mg/L
|	Mg	24	8156237.851	27.05	1.8093	0.181	10.019	mg/L
|	K	39	29856162.965	97.43	2.6686	0.149	5.570	mg/L
|	Ca	43	153176.572	0.51	6.4215	0.501	7.804	mg/L
|	Fe	54	4363530.370	14.27	5.4310	0.453	8.336	mg/L
|	Fe	57	1750012.719	5.78	5.3122	0.406	7.636	mg/L
⌊>	Sc-1	45	301666.011	301666.01				mg/L
	Cl	35	42757.913	12157.83				mg/L
	Kr	83	38.334	-6.00				mg/L
	Br	81	12786.170	2827.21				mg/L
	P	31	296352.726	281476.98				mg/L
	S	34	220665.497	3772.23				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.609			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.282			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.983			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.615			
⌈	Na	23					

Sample ID: L1011066510
Report Date/Time: Tuesday, November 30, 2010 08:29:58
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Zn 66 Upper, S, EEE	Zn	66	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066511

Sample Date/Time: Tuesday, November 30, 2010 01:24:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 89
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40967.169	0.02				ug/L
|	Be	9	156.001	0.00	0.3244	0.077	23.663	ug/L
|	Al	27	17405525.912	58.94	2411.7044	705.372	29.248	ug/L
⌊>	Sc	45	296293.152	296293.15				ug/L
⌈	Ti	49	2233.815	0.01	2.9921	0.790	26.400	ug/L
|	V	51	65990.666	0.15	5.7857	1.405	24.293	ug/L
|	Cr	52	32804.978	0.06	2.5248	0.705	27.920	ug/L
|	Cr	53	2937.410	0.01	2.4214	0.711	29.377	ug/L
|	Mn	55	1613895.086	3.90	110.9545	27.782	25.039	ug/L
|	Co	59	21933.200	0.05	1.7624	0.452	25.662	ug/L
|	Ni	60	8043.450	0.02	3.0656	0.805	26.271	ug/L
|	Cu	65	19297.812	0.05	7.3569	1.811	24.619	ug/L
|	Zn	66	55731.600	0.12	35.9028	9.412	26.216	ug/L
|>	Ge	72	414836.467	414836.47				ug/L
|	As	75	986.203	0.00	1.1868	0.213	17.947	ug/L
|	Se	77	120.013	0.00	0.7411	0.394	53.171	ug/L
|	Se	82	60.346	0.00	0.5077	0.134	26.434	ug/L
⌊	Rb	85	52198.363	0.13				mg/L
	Y	89	285184.094	26936.49				ug/L
	Rh	103	17.000	9.33				ug/L
⌈	Mo	98	368.243	0.00	0.1424	0.022	15.588	ug/L
|	Ag	107	160.670	0.00	0.0143	0.003	20.873	ug/L
|	Cd	114	253.562	0.00	0.2010	0.053	26.291	ug/L
|>	In	115	339542.204	339542.20				ug/L
|	Sn	118	600.151	-0.00	-0.2611	0.005	1.830	ug/L
⌊	Sb	123	52.747	0.00	0.0394	0.001	1.537	ug/L
⌈	Ba	135	64482.585	0.14	39.0382	9.597	24.584	ug/L
|	Ce	140	286244.672	0.63				ug/L
⌊>	Tb	159	457252.192	457252.19				ug/L
⌈	Ho	165	2583.935	0.01				ug/L
|	Tl	203	329.009	0.00	0.0431	0.008	17.664	ug/L
|	Tl	205	820.116	0.00	0.0262	0.007	25.667	ug/L
|	Pb	206	44053.144	0.10	6.9299	1.668	24.067	ug/L
|	Pb	207	35962.214	0.08	6.2528	1.482	23.705	ug/L
|	Pb	208	170362.048	0.38	6.4689	1.559	24.098	ug/L
|	U	238	202301.823	0.46	6.1643	1.571	25.482	ug/L
⌊>	Bi	209	442247.484	442247.48				ug/L

Sample ID: L1011066511
Report Date/Time: Tuesday, November 30, 2010 08:30:00
Page 1

Approved: November 30, 2010

⌈	Na	23	408181.824	1.30	0.0557	0.012	21.759	mg/L
|	Mg	24	4931085.166	16.70	1.1162	0.309	27.673	mg/L
|	K	39	16303499.789	53.58	1.4638	0.256	17.491	mg/L
|	Ca	43	157373.084	0.53	6.7356	1.601	23.765	mg/L
|	Fe	54	2784740.854	9.23	3.5142	1.005	28.605	mg/L
|	Fe	57	1132337.128	3.81	3.5017	0.986	28.155	mg/L
⌊>	Sc-1	45	296293.152	296293.15				mg/L
	Cl	35	31575.167	975.08				mg/L
	Kr	83	37.000	-7.33				mg/L
	Br	81	11992.520	2033.56				mg/L
	P	31	190725.980	175850.23				mg/L
	S	34	228631.418	11738.15				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.424			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.437			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.978			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.972			
⌈	Na	23					

Sample ID: L1011066511
Report Date/Time: Tuesday, November 30, 2010 08:30:00

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066512

Sample Date/Time: Tuesday, November 30, 2010 01:31:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 90
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41285.090	0.02				ug/L
|	Be	9	205.336	0.00	0.4284	0.137	32.061	ug/L
|	Al	27	16932981.944	57.05	2334.2740	657.745	28.178	ug/L
⌊>	Sc	45	296378.083	296378.08				ug/L
⌈	Ti	49	1493.602	0.00	1.8433	0.741	40.187	ug/L
|	V	51	61020.971	0.14	5.2503	1.432	27.278	ug/L
|	Cr	52	33017.645	0.06	2.4966	0.786	31.496	ug/L
|	Cr	53	3004.107	0.01	2.4436	0.790	32.328	ug/L
|	Mn	55	1741178.138	4.14	118.0042	31.611	26.788	ug/L
|	Co	59	27064.312	0.06	2.1506	0.621	28.891	ug/L
|	Ni	60	9021.341	0.02	3.3937	0.938	27.627	ug/L
|	Cu	65	20425.272	0.05	7.6799	2.071	26.972	ug/L
|	Zn	66	50587.910	0.10	31.7708	8.775	27.618	ug/L
|>	Ge	72	421130.123	421130.12				ug/L
|	As	75	1030.630	0.00	1.2178	0.304	24.995	ug/L
|	Se	77	96.677	0.00	0.4213	0.207	49.038	ug/L
|	Se	82	41.650	0.00	0.3072	0.056	18.308	ug/L
⌊	Rb	85	51733.229	0.12				mg/L
	Y	89	296154.230	37906.63				ug/L
	Rh	103	14.000	6.33				ug/L
⌈	Mo	98	270.531	0.00	0.0961	0.016	16.892	ug/L
|	Ag	107	224.672	0.00	0.0266	0.010	38.535	ug/L
|	Cd	114	147.349	0.00	0.1079	0.048	44.566	ug/L
|>	In	115	343586.801	343586.80				ug/L
|	Sn	118	565.083	-0.00	-0.2721	0.003	1.197	ug/L
⌊	Sb	123	87.330	0.00	0.0489	0.007	13.859	ug/L
⌈	Ba	135	66204.716	0.14	39.6369	10.433	26.322	ug/L
|	Ce	140	326060.192	0.71				ug/L
⌊>	Tb	159	463101.373	463101.37				ug/L
⌈	Ho	165	3117.490	0.01				ug/L
|	Tl	203	374.011	0.00	0.0493	0.012	25.286	ug/L
|	Tl	205	953.477	0.00	0.0336	0.016	47.845	ug/L
|	Pb	206	113550.282	0.26	18.1517	4.874	26.851	ug/L
|	Pb	207	95936.839	0.22	16.9229	4.576	27.042	ug/L
|	Pb	208	450593.381	1.02	17.3793	4.604	26.491	ug/L
|	U	238	65652.847	0.15	2.0242	0.571	28.196	ug/L
⌊>	Bi	209	440716.834	440716.83				ug/L

Approved: November 30, 2010

Na	23	380851.683	1.20	0.0514	0.011	22.114	mg/L
Mg	24	5097054.049	17.18	1.1483	0.303	26.357	mg/L
K	39	17668436.860	58.01	1.5856	0.265	16.744	mg/L
Ca	43	79790.607	0.27	3.3981	0.904	26.617	mg/L
Fe	54	3189116.008	10.55	4.0155	1.107	27.573	mg/L
Fe	57	1281065.028	4.29	3.9460	1.078	27.309	mg/L
Sc-1	45	296378.083	296378.08				mg/L
Cl	35	28348.160	-2251.93				mg/L
Kr	83	40.334	-4.00				mg/L
Br	81	12037.914	2078.96				mg/L
P	31	164579.070	149703.32				mg/L
S	34	209070.479	-7822.79				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		100.932			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		102.646			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		103.283			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		102.616			
Na	23					

Sample ID: L1011066512
Report Date/Time: Tuesday, November 30, 2010 08:30:01

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066513

Sample Date/Time: Tuesday, November 30, 2010 01:37:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 91
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

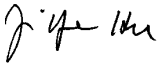
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42071.867	0.02				ug/L
|	Be	9	226.003	0.00	0.4666	0.055	11.806	ug/L
|	Al	27	25339994.319	84.44	3454.9118	508.912	14.730	ug/L
⌊>	Sc	45	300705.908	300705.91				ug/L
⌈	Ti	49	2110.434	0.01	2.8031	0.146	5.218	ug/L
|	V	51	73533.781	0.17	6.4730	0.691	10.670	ug/L
|	Cr	52	49210.983	0.10	4.3153	0.538	12.466	ug/L
|	Cr	53	4771.628	0.01	4.1346	0.609	14.734	ug/L
|	Mn	55	2064486.085	4.98	141.8307	16.063	11.325	ug/L
|	Co	59	33121.758	0.08	2.6742	0.277	10.364	ug/L
|	Ni	60	11537.814	0.03	4.4111	0.484	10.980	ug/L
|	Cu	65	24194.651	0.06	9.2389	0.948	10.258	ug/L
|	Zn	66	60908.823	0.13	39.5147	4.673	11.827	ug/L
|>	Ge	72	414772.026	414772.03				ug/L
|	As	75	1264.517	0.00	1.4713	0.151	10.261	ug/L
|	Se	77	136.681	0.00	0.9585	0.343	35.825	ug/L
|	Se	82	40.580	0.00	0.3032	0.095	31.369	ug/L
⌊	Rb	85	72181.789	0.17				mg/L
	Y	89	298379.144	40131.54				ug/L
	Rh	103	20.334	12.67				ug/L
⌈	Mo	98	271.385	0.00	0.0983	0.008	7.650	ug/L
|	Ag	107	231.672	0.00	0.0285	0.003	10.686	ug/L
|	Cd	114	160.695	0.00	0.1211	0.003	2.679	ug/L
|>	In	115	338598.391	338598.39				ug/L
|	Sn	118	550.815	-0.00	-0.2737	0.004	1.488	ug/L
⌊	Sb	123	62.702	0.00	0.0422	0.001	2.649	ug/L
⌈	Ba	135	81153.328	0.18	49.2989	5.415	10.984	ug/L
|	Ce	140	394523.452	0.87				ug/L
⌊>	Tb	159	455923.466	455923.47				ug/L
⌈	Ho	165	3781.096	0.01				ug/L
|	Tl	203	480.016	0.00	0.0638	0.010	15.545	ug/L
|	Tl	205	1146.848	0.00	0.0445	0.007	15.154	ug/L
|	Pb	206	67385.690	0.15	10.8113	1.125	10.404	ug/L
|	Pb	207	56870.399	0.13	10.0776	1.160	11.515	ug/L
|	Pb	208	268358.215	0.61	10.3929	1.139	10.964	ug/L
|	U	238	73916.301	0.17	2.2950	0.275	11.983	ug/L
⌊>	Bi	209	436479.820	436479.82				ug/L

Sample ID: L1011066513
Report Date/Time: Tuesday, November 30, 2010 08:30:02
Page 1

Approved: November 30, 2010



Na	23	435571.488	1.37	0.0588	0.007	11.296	mg/L
Mg	24	6541902.121	21.80	1.4577	0.197	13.511	mg/L
K	39	22714313.912	74.07	2.0269	0.188	9.293	mg/L
Ca	43	88692.760	0.29	3.7341	0.441	11.818	mg/L
Fe	54	4000783.586	13.13	4.9977	0.659	13.192	mg/L
Fe	57	1626837.233	5.39	4.9603	0.631	12.720	mg/L
Sc-1	45	300705.908	300705.91				mg/L
Cl	35	27697.675	-2902.41				mg/L
Kr	83	48.334	4.00				mg/L
Br	81	11745.562	1786.60				mg/L
P	31	174015.857	159140.11				mg/L
S	34	206307.813	-10585.46				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		99.408			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		101.155			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		101.682			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		101.629			
Na	23					

Sample ID: L1011066513
Report Date/Time: Tuesday, November 30, 2010 08:30:02

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066514

Sample Date/Time: Tuesday, November 30, 2010 01:44:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 92
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42473.381	0.03				ug/L
|	Be	9	173.335	0.00	0.3656	0.066	18.139	ug/L
|	Al	27	23515514.728	80.35	3287.5428	429.942	13.078	ug/L
⌊>	Sc	45	293050.095	293050.09				ug/L
⌈	Ti	49	1233.535	0.00	1.4967	0.411	27.434	ug/L
|	V	51	56058.169	0.13	4.9070	0.631	12.864	ug/L
|	Cr	52	34839.054	0.06	2.7724	0.455	16.398	ug/L
|	Cr	53	3277.534	0.01	2.7584	0.304	11.009	ug/L
|	Mn	55	1820793.913	4.42	125.9820	15.813	12.552	ug/L
|	Co	59	27965.338	0.07	2.2698	0.292	12.866	ug/L
|	Ni	60	10245.387	0.02	3.9407	0.466	11.826	ug/L
|	Cu	65	9987.797	0.02	3.7886	0.498	13.143	ug/L
|	Zn	66	24391.413	0.04	13.9396	1.585	11.369	ug/L
|>	Ge	72	412011.842	412011.84				ug/L
|	As	75	815.719	0.00	1.0174	0.091	8.911	ug/L
|	Se	77	100.011	0.00	0.4965	0.739	148.853	ug/L
|	Se	82	22.076	0.00	0.1118	0.129	115.757	ug/L
⌊	Rb	85	49719.640	0.12				mg/L
	Y	89	286496.134	28248.53				ug/L
	Rh	103	19.334	11.67				ug/L
⌈	Mo	98	73.713	0.00	0.0080	0.005	60.299	ug/L
|	Ag	107	174.003	0.00	0.0176	0.005	26.605	ug/L
|	Cd	114	73.173	0.00	0.0463	0.023	49.740	ug/L
|>	In	115	333062.897	333062.90				ug/L
|	Sn	118	474.811	-0.00	-0.2918	0.006	1.997	ug/L
⌊	Sb	123	35.578	0.00	0.0347	0.001	4.178	ug/L
⌈	Ba	135	101197.936	0.23	62.4476	7.084	11.343	ug/L
|	Ce	140	318926.655	0.71				ug/L
⌊>	Tb	159	448781.023	448781.02				ug/L
⌈	Ho	165	2924.057	0.01				ug/L
|	Tl	203	348.343	0.00	0.0470	0.004	7.489	ug/L
|	Tl	205	863.458	0.00	0.0298	0.009	30.063	ug/L
|	Pb	206	25360.263	0.06	4.0541	0.468	11.539	ug/L
|	Pb	207	20865.486	0.05	3.6954	0.478	12.925	ug/L
|	Pb	208	99634.983	0.23	3.8492	0.468	12.148	ug/L
|	U	238	15956.010	0.04	0.5179	0.067	12.856	ug/L
⌊>	Bi	209	430116.637	430116.64				ug/L

Sample ID: L1011066514
Report Date/Time: Tuesday, November 30, 2010 08:30:04
Page 1

Approved: November 30, 2010

⌈	Na	23	932703.920	3.11	0.1357	0.019	13.820	mg/L
|	Mg	24	6835155.084	23.37	1.5626	0.218	13.945	mg/L
|	K	39	11710141.965	38.43	1.0476	0.095	9.111	mg/L
|	Ca	43	170237.532	0.58	7.3571	0.935	12.713	mg/L
|	Fe	54	3017585.371	10.12	3.8505	0.559	14.512	mg/L
|	Fe	57	1218336.928	4.14	3.8039	0.490	12.881	mg/L
⌊>	Sc-1	45	293050.095	293050.09				mg/L
	Cl	35	23902.535	-6697.55				mg/L
	Kr	83	29.667	-14.67				mg/L
	Br	81	10757.117	798.16				mg/L
	P	31	65987.265	51111.52				mg/L
	S	34	214848.011	-2045.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.747			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.502			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.089			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.147			
⌈	Na	23					

Sample ID: L1011066514
Report Date/Time: Tuesday, November 30, 2010 08:30:04
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066515

Sample Date/Time: Tuesday, November 30, 2010 01:51:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 93
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41653.317	0.02				ug/L
|	Be	9	245.336	0.00	0.5078	0.023	4.601	ug/L
|	Al	27	31646837.349	105.54	4318.3869	426.227	9.870	ug/L
⌊>	Sc	45	300087.733	300087.73				ug/L
⌈	Ti	49	1403.573	0.00	1.7446	0.223	12.771	ug/L
|	V	51	73228.361	0.17	6.4723	0.546	8.431	ug/L
|	Cr	52	44435.891	0.08	3.8131	0.352	9.228	ug/L
|	Cr	53	4328.040	0.01	3.7359	0.362	9.694	ug/L
|	Mn	55	2270845.853	5.50	156.6457	14.503	9.258	ug/L
|	Co	59	37435.945	0.09	3.0389	0.271	8.920	ug/L
|	Ni	60	13382.457	0.03	5.1439	0.470	9.145	ug/L
|	Cu	65	13428.835	0.03	5.1080	0.360	7.049	ug/L
|	Zn	66	30245.499	0.05	18.0256	1.866	10.350	ug/L
|>	Ge	72	413077.124	413077.12				ug/L
|	As	75	994.205	0.00	1.1985	0.093	7.780	ug/L
|	Se	77	66.674	-0.00	0.0526	0.294	558.314	ug/L
|	Se	82	15.316	0.00	0.0419	0.061	146.221	ug/L
⌊	Rb	85	60591.790	0.15				mg/L
	Y	89	305527.676	47280.07				ug/L
	Rh	103	24.667	17.00				ug/L
⌈	Mo	98	103.531	0.00	0.0216	0.004	20.529	ug/L
|	Ag	107	205.338	0.00	0.0237	0.006	23.866	ug/L
|	Cd	114	87.333	0.00	0.0583	0.010	17.164	ug/L
|>	In	115	335151.225	335151.22				ug/L
|	Sn	118	504.279	-0.00	-0.2847	0.004	1.494	ug/L
⌊	Sb	123	34.620	0.00	0.0344	0.000	1.312	ug/L
⌈	Ba	135	135672.283	0.30	83.4103	7.682	9.209	ug/L
|	Ce	140	443335.269	0.98				ug/L
⌊>	Tb	159	450713.248	450713.25				ug/L
⌈	Ho	165	4311.374	0.01				ug/L
|	Tl	203	433.014	0.00	0.0587	0.006	10.850	ug/L
|	Tl	205	1113.507	0.00	0.0439	0.006	13.885	ug/L
|	Pb	206	34818.872	0.08	5.6419	0.630	11.172	ug/L
|	Pb	207	28684.857	0.07	5.1404	0.482	9.373	ug/L
|	Pb	208	137147.415	0.31	5.3667	0.538	10.022	ug/L
|	U	238	22553.399	0.05	0.7275	0.067	9.214	ug/L
⌊>	Bi	209	428129.197	428129.20				ug/L

Sample ID: L1011066515
Report Date/Time: Tuesday, November 30, 2010 08:30:05
Page 1

Approved: November 30, 2010

Na	23	1156408.598	3.78	0.1653	0.015	8.892	mg/L
Mg	24	8437109.939	28.14	1.8822	0.159	8.423	mg/L
K	39	15029016.534	48.54	1.3255	0.086	6.473	mg/L
Ca	43	174975.804	0.58	7.3754	0.528	7.165	mg/L
Fe	54	3918541.092	12.87	4.8967	0.393	8.029	mg/L
Fe	57	1632777.031	5.42	4.9822	0.574	11.525	mg/L
> Sc-1	45	300087.733	300087.73				mg/L
Cl	35	24457.873	-6142.21				mg/L
Kr	83	40.334	-4.00				mg/L
Br	81	11079.469	1120.51				mg/L
P	31	85619.907	70744.16				mg/L
S	34	212485.080	-4408.19				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		99.002			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		100.126			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		100.520			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		99.685			
Na	23					

Sample ID: L1011066515
Report Date/Time: Tuesday, November 30, 2010 08:30:05

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 30, 2010 01:58:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43594.857	0.02				ug/L
|	Be	9	23424.737	0.08	48.9900	1.330	2.714	ug/L
|	Al	27	345519.419	1.12	45.6739	1.290	2.825	ug/L
⌊>	Sc	45	302441.282	302441.28				ug/L
⌈	Ti	49	67973.698	0.17	104.4705	1.703	1.630	ug/L
|	V	51	551533.162	1.35	51.5116	1.073	2.084	ug/L
|	Cr	52	472537.473	1.14	51.7833	1.282	2.475	ug/L
|	Cr	53	54071.222	0.13	51.4154	0.939	1.827	ug/L
|	Mn	55	741678.960	1.83	52.1162	0.584	1.120	ug/L
|	Co	59	616479.981	1.52	51.4685	0.373	0.724	ug/L
|	Ni	60	130059.630	0.32	51.3160	0.510	0.994	ug/L
|	Cu	65	126842.999	0.31	49.9686	0.501	1.003	ug/L
|	Zn	66	70610.808	0.15	47.5059	0.842	1.773	ug/L
⌊>	Ge	72	405101.243	405101.24				ug/L
|	As	75	47223.899	0.12	49.6720	0.648	1.305	ug/L
|	Se	77	3867.801	0.01	50.4035	1.065	2.114	ug/L
|	Se	82	4729.542	0.01	49.9972	1.140	2.280	ug/L
⌊	Rb	85	1887.864	0.00				mg/L
	Y	89	250568.635	-7678.97				ug/L
	Rh	103	25.334	17.67				ug/L
⌈	Mo	98	212187.104	0.63	97.3620	1.240	1.274	ug/L
|	Ag	107	248568.259	0.73	49.4251	0.479	0.969	ug/L
|	Cd	114	56946.540	0.17	49.2408	0.821	1.666	ug/L
⌊>	In	115	338934.216	338934.22				ug/L
|	Sn	118	195811.773	0.57	51.4376	0.273	0.531	ug/L
⌊	Sb	123	169183.873	0.50	47.9054	0.738	1.540	ug/L
⌈	Ba	135	77635.708	0.17	46.7062	0.888	1.900	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	460344.183	460344.18				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	359282.212	0.84	48.6509	0.441	0.906	ug/L
|	Tl	205	886107.685	2.07	49.1604	0.160	0.326	ug/L
|	Pb	206	290993.698	0.68	48.0586	0.245	0.509	ug/L
|	Pb	207	273487.148	0.64	49.8087	0.282	0.567	ug/L
|	Pb	208	1226324.391	2.86	48.8578	0.208	0.426	ug/L
|	U	238	1748585.376	4.09	54.9519	0.184	0.336	ug/L
⌊>	Bi	209	427587.361	427587.36				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 30, 2010 02:00:24
Page 1

Approved: November 30, 2010

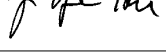
Na	23	30746828.979	101.64	4.4981	0.150	3.330	mg/L	
Mg	24	19613390.651	64.89	4.3437	0.134	3.094	mg/L	
K	39	51424194.894	168.57	4.6230	0.161	3.481	mg/L	
Ca	43	110599.517	0.36	4.6244	0.175	3.783	mg/L	
Fe	54	3760616.097	12.24	4.6563	0.070	1.505	mg/L	
Fe	57	1509995.501	4.97	4.5679	0.114	2.487	mg/L	
> Sc-1	45	302441.282	302441.28				mg/L	
Cl	35	19171.694	-11428.39				mg/L	
Kr	83	35.334	-9.00				mg/L	
Br	81	10816.514	857.56				mg/L	
P	31	12494.471	-2381.27				mg/L	
S	34	225848.069	8954.80				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	103.023				
Cr	52	103.567				
Cr	53					
Mn	55	104.232				
Co	59	102.937				
Ni	60	102.632				
Cu	65	99.937				
Zn	66	95.012				
> Ge	72		97.090			
As	75	99.344				
Se	77					
Se	82	99.994				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.850				
Cd	114	98.482				
> In	115		101.256			
Sn	118					
Sb	123	95.811				
Ba	135	93.412				
Ce	140					
> Tb	159		102.668			
Ho	165					
Tl	203	97.302				
Tl	205					
Pb	206					
Pb	207					
Pb	208	97.716				
U	238	109.904				
> Bi	209		99.558			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 30, 2010 02:00:24

Approved: November 30, 2010



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 30, 2010 02:00:24
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 30, 2010 02:04:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43712.166	0.03				ug/L
|	Be	9	3.333	0.00	-0.0023	0.002	103.677	ug/L
|	Al	27	6352.067	-0.00	-0.2117	0.152	71.979	ug/L
⌊>	Sc	45	295572.183	295572.18				ug/L
⌈	Ti	49	60.006	0.00	-0.2854	0.085	29.704	ug/L
|	V	51	2790.382	-0.00	-0.0131	0.005	37.677	ug/L
|	Cr	52	8796.622	-0.00	-0.0865	0.007	8.486	ug/L
|	Cr	53	206.690	-0.00	-0.1316	0.048	36.110	ug/L
|	Mn	55	382.011	-0.00	-0.0165	0.002	12.852	ug/L
|	Co	59	205.004	-0.00	-0.0124	0.001	4.852	ug/L
|	Ni	60	32.334	0.00	-0.0280	0.004	12.697	ug/L
|	Cu	65	81.668	-0.00	-0.0590	0.002	3.899	ug/L
|	Zn	66	512.018	-0.02	-2.9767	0.005	0.171	ug/L
|>	Ge	72	408647.675	408647.67				ug/L
|	As	75	-188.850	0.00	-0.0200	0.022	108.567	ug/L
|	Se	77	80.008	0.00	0.2390	0.473	197.874	ug/L
|	Se	82	8.049	0.00	-0.0330	0.042	127.076	ug/L
⌊	Rb	85	17.334	-0.00				mg/L
	Y	89	251672.852	-6574.75				ug/L
	Rh	103	5.000	-2.67				ug/L
⌈	Mo	98	959.212	0.00	0.4036	0.074	18.374	ug/L
|	Ag	107	32.000	0.00	-0.0114	0.000	3.478	ug/L
|	Cd	114	21.015	-0.00	-0.0003	0.006	1800.906	ug/L
|>	In	115	347057.927	347057.93				ug/L
|	Sn	118	827.634	-0.00	-0.2057	0.010	5.008	ug/L
⌊	Sb	123	217.792	0.00	0.0847	0.007	8.558	ug/L
⌈	Ba	135	15.000	0.00	-0.0138	0.002	13.181	ug/L
|	Ce	140	33.337	0.00				ug/L
⌊>	Tb	159	467053.776	467053.78				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	18.000	-0.00	0.0024	0.001	22.210	ug/L
|	Tl	205	40.004	-0.00	-0.0157	0.001	6.026	ug/L
|	Pb	206	407.346	-0.00	-0.0576	0.006	9.812	ug/L
|	Pb	207	346.009	-0.00	-0.0311	0.001	2.412	ug/L
|	Pb	208	1651.738	-0.00	-0.0447	0.001	2.498	ug/L
|	U	238	748.036	0.00	0.0419	0.004	9.561	ug/L
⌊>	Bi	209	441487.713	441487.71				ug/L

Approved: November 30, 2010

⌈	Na	23	14869.201	-0.03	-0.0032	0.000	1.849	mg/L
|	Mg	24	643.419	0.00	-0.0024	0.000	0.722	mg/L
|	K	39	441787.867	-0.08	-0.0103	0.001	6.245	mg/L
|	Ca	43	120.013	-0.00	0.0015	0.001	95.266	mg/L
|	Fe	54	60153.153	0.00	0.0026	0.004	141.568	mg/L
|	Fe	57	9285.238	0.00	0.0014	0.001	66.630	mg/L
⌊>	Sc-1	45	295572.183	295572.18				mg/L
	Cl	35	18717.501	-11882.58				mg/L
	Kr	83	32.667	-11.67				mg/L
	Br	81	11152.885	1193.93				mg/L
	P	31	12712.118	-2163.63				mg/L
	S	34	217824.095	930.83				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.940			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.683			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.164			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.795			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 30, 2010 02:07:07
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 30, 2010 02:07:07

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066516

Sample Date/Time: Tuesday, November 30, 2010 02:11:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 94
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	39310.635	0.02				ug/L
|	Be	9	99.334	0.00	0.2118	0.009	4.066	ug/L
|	Al	27	13215862.870	46.53	1903.8861	109.148	5.733	ug/L
⌊>	Sc	45	283942.143	283942.14				ug/L
⌈	Ti	49	1917.043	0.00	2.6236	0.319	12.168	ug/L
|	V	51	74489.205	0.18	6.8221	0.352	5.153	ug/L
|	Cr	52	27855.041	0.05	2.0979	0.114	5.430	ug/L
|	Cr	53	2343.843	0.01	1.9467	0.063	3.237	ug/L
|	Mn	55	1563078.834	3.91	111.4757	6.156	5.522	ug/L
|	Co	59	17358.575	0.04	1.4416	0.071	4.957	ug/L
|	Ni	60	9715.150	0.02	3.8504	0.143	3.708	ug/L
|	Cu	65	7229.692	0.02	2.8038	0.209	7.466	ug/L
|	Zn	66	28070.315	0.05	17.1627	0.855	4.984	ug/L
|>	Ge	72	399451.348	399451.35				ug/L
|	As	75	1034.127	0.00	1.2757	0.077	6.035	ug/L
|	Se	77	103.344	0.00	0.5771	0.687	119.124	ug/L
|	Se	82	20.021	0.00	0.0990	0.141	142.878	ug/L
⌊	Rb	85	28748.930	0.07				mg/L
	Y	89	271677.965	13430.36				ug/L
	Rh	103	26.334	18.67				ug/L
⌈	Mo	98	441.466	0.00	0.1817	0.015	8.183	ug/L
|	Ag	107	190.337	0.00	0.0213	0.002	8.558	ug/L
|	Cd	114	50.640	0.00	0.0269	0.003	10.544	ug/L
|>	In	115	330021.701	330021.70				ug/L
|	Sn	118	532.681	-0.00	-0.2749	0.002	0.895	ug/L
⌊	Sb	123	82.537	0.00	0.0485	0.005	9.901	ug/L
⌈	Ba	135	67667.267	0.15	42.6979	2.074	4.858	ug/L
|	Ce	140	233809.552	0.53				ug/L
⌊>	Tb	159	438799.657	438799.66				ug/L
⌈	Ho	165	2197.128	0.01				ug/L
|	Tl	203	260.006	0.00	0.0359	0.006	16.429	ug/L
|	Tl	205	626.749	0.00	0.0175	0.003	15.053	ug/L
|	Pb	206	16958.548	0.04	2.7357	0.139	5.095	ug/L
|	Pb	207	13668.158	0.03	2.4473	0.180	7.355	ug/L
|	Pb	208	65494.162	0.15	2.5542	0.161	6.314	ug/L
|	U	238	23199.467	0.06	0.7612	0.038	4.984	ug/L
⌊>	Bi	209	420188.340	420188.34				ug/L

Sample ID: L1011066516
Report Date/Time: Tuesday, November 30, 2010 08:31:00
Page 1

Approved: November 30, 2010

Na	23	604749.336	2.05	0.0889	0.004	4.871	mg/L
Mg	24	9969797.058	35.13	2.3502	0.125	5.339	mg/L
K	39	9069821.102	30.38	0.8264	0.027	3.326	mg/L
Ca	43	712301.924	2.51	31.7332	1.428	4.502	mg/L
Fe	54	2445194.395	8.41	3.2023	0.205	6.413	mg/L
Fe	57	1007726.101	3.52	3.2388	0.216	6.672	mg/L
> Sc-1	45	283942.143	283942.14				mg/L
Cl	35	27572.627	-3027.46				mg/L
Kr	83	36.000	-8.33				mg/L
Br	81	11002.716	1043.76				mg/L
P	31	88516.948	73641.20				mg/L
S	34	222869.530	5976.26				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		95.736			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		98.593			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		97.863			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		97.836			
Na	23					

Sample ID: L1011066516
Report Date/Time: Tuesday, November 30, 2010 08:31:00
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066517

Sample Date/Time: Tuesday, November 30, 2010 02:18:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 95
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42339.788	0.03				ug/L
|	Be	9	108.667	0.00	0.2249	0.057	25.206	ug/L
|	Al	27	14967607.292	51.09	2090.4855	60.457	2.892	ug/L
⌊>	Sc	45	292842.841	292842.84				ug/L
⌈	Ti	49	1286.879	0.00	1.5851	0.260	16.429	ug/L
|	V	51	54182.209	0.13	4.7544	0.221	4.658	ug/L
|	Cr	52	32047.282	0.06	2.4800	0.148	5.957	ug/L
|	Cr	53	3027.428	0.01	2.5335	0.120	4.748	ug/L
|	Mn	55	1672190.334	4.08	116.1624	3.504	3.017	ug/L
|	Co	59	21388.402	0.05	1.7361	0.058	3.355	ug/L
|	Ni	60	9274.727	0.02	3.5787	0.148	4.136	ug/L
|	Cu	65	9028.165	0.02	3.4301	0.135	3.941	ug/L
|	Zn	66	41788.568	0.08	26.3930	0.925	3.506	ug/L
|>	Ge	72	410067.379	410067.38				ug/L
|	As	75	1201.030	0.00	1.4202	0.056	3.941	ug/L
|	Se	77	73.341	0.00	0.1484	0.457	307.905	ug/L
|	Se	82	24.670	0.00	0.1405	0.039	27.634	ug/L
⌊	Rb	85	35589.587	0.09				mg/L
	Y	89	285312.113	27064.51				ug/L
	Rh	103	22.667	15.00				ug/L
⌈	Mo	98	295.532	0.00	0.1102	0.005	4.461	ug/L
|	Ag	107	177.670	0.00	0.0180	0.004	20.942	ug/L
|	Cd	114	94.610	0.00	0.0642	0.016	24.720	ug/L
|>	In	115	336700.361	336700.36				ug/L
|	Sn	118	511.213	-0.00	-0.2835	0.005	1.935	ug/L
⌊	Sb	123	51.954	0.00	0.0393	0.002	4.002	ug/L
⌈	Ba	135	59592.007	0.13	36.5883	1.382	3.777	ug/L
|	Ce	140	296062.615	0.66				ug/L
⌊>	Tb	159	451187.056	451187.06				ug/L
⌈	Ho	165	2723.977	0.01				ug/L
|	Tl	203	321.675	0.00	0.0431	0.001	3.340	ug/L
|	Tl	205	806.780	0.00	0.0264	0.002	6.079	ug/L
|	Pb	206	21485.622	0.05	3.3963	0.143	4.210	ug/L
|	Pb	207	17765.622	0.04	3.1145	0.127	4.074	ug/L
|	Pb	208	84529.326	0.19	3.2303	0.109	3.386	ug/L
|	U	238	18244.481	0.04	0.5861	0.016	2.663	ug/L
⌊>	Bi	209	432314.690	432314.69				ug/L

Sample ID: L1011066517
Report Date/Time: Tuesday, November 30, 2010 08:31:01
Page 1

Approved: November 30, 2010

⌈	Na	23	619573.316	2.04	0.0882	0.003	3.385	mg/L
|	Mg	24	10738128.074	36.67	2.4538	0.048	1.973	mg/L
|	K	39	10615790.879	34.68	0.9446	0.001	0.119	mg/L
|	Ca	43	370673.290	1.26	16.0091	0.458	2.864	mg/L
|	Fe	54	2934146.104	9.82	3.7380	0.110	2.947	mg/L
|	Fe	57	1207648.356	4.10	3.7673	0.087	2.300	mg/L
⌊>	Sc-1	45	292842.841	292842.84				mg/L
	Cl	35	25879.446	-4720.64				mg/L
	Kr	83	38.000	-6.33				mg/L
	Br	81	11412.511	1453.55				mg/L
	P	31	99730.198	84854.45				mg/L
	S	34	227928.682	11035.41				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.281			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.588			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.626			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.659			
⌈	Na	23					

Sample ID: L1011066517
Report Date/Time: Tuesday, November 30, 2010 08:31:01
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066518

Sample Date/Time: Tuesday, November 30, 2010 02:25:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 96
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	43410.688	0.03				ug/L
|	Be	9	169.335	0.00	0.3571	0.123	34.533	ug/L
|	Al	27	24604195.965	84.15	3443.1613	720.788	20.934	ug/L
⌊>	Sc	45	292568.441	292568.44				ug/L
⌈	Ti	49	953.475	0.00	1.0865	0.304	27.943	ug/L
|	V	51	63251.223	0.15	5.6337	0.980	17.404	ug/L
|	Cr	52	36506.447	0.07	2.9985	0.646	21.545	ug/L
|	Cr	53	3557.667	0.01	3.0591	0.613	20.046	ug/L
|	Mn	55	2140201.149	5.25	149.6746	26.208	17.510	ug/L
|	Co	59	26437.760	0.06	2.1676	0.388	17.921	ug/L
|	Ni	60	10461.348	0.03	4.0692	0.777	19.087	ug/L
|	Cu	65	10932.511	0.03	4.2009	0.739	17.597	ug/L
|	Zn	66	28267.490	0.05	16.9060	3.499	20.699	ug/L
|>	Ge	72	408005.548	408005.55				ug/L
|	As	75	1399.952	0.00	1.6363	0.317	19.357	ug/L
|	Se	77	123.346	0.00	0.8151	0.454	55.640	ug/L
|	Se	82	14.992	0.00	0.0414	0.104	251.339	ug/L
⌊	Rb	85	49819.683	0.12				mg/L
	Y	89	294933.765	36686.16				ug/L
	Rh	103	20.334	12.67				ug/L
⌈	Mo	98	240.014	0.00	0.0845	0.025	29.018	ug/L
|	Ag	107	222.005	0.00	0.0269	0.008	29.663	ug/L
|	Cd	114	71.297	0.00	0.0439	0.020	46.591	ug/L
|>	In	115	336843.447	336843.45				ug/L
|	Sn	118	486.679	-0.00	-0.2901	0.003	1.022	ug/L
⌊	Sb	123	49.411	0.00	0.0385	0.002	4.399	ug/L
⌈	Ba	135	98681.195	0.22	60.3577	10.651	17.647	ug/L
|	Ce	140	407544.568	0.90				ug/L
⌊>	Tb	159	453126.857	453126.86				ug/L
⌈	Ho	165	3694.408	0.01				ug/L
|	Tl	203	467.349	0.00	0.0626	0.007	10.664	ug/L
|	Tl	205	1096.837	0.00	0.0423	0.007	16.685	ug/L
|	Pb	206	32330.034	0.07	5.1711	0.906	17.514	ug/L
|	Pb	207	26561.386	0.06	4.7006	0.803	17.077	ug/L
|	Pb	208	126624.564	0.29	4.8919	0.873	17.846	ug/L
|	U	238	30181.932	0.07	0.9569	0.166	17.380	ug/L
⌊>	Bi	209	432996.226	432996.23				ug/L

Sample ID: L1011066518
Report Date/Time: Tuesday, November 30, 2010 08:31:02
Page 1

Approved: November 30, 2010

Na	23	1064100.993	3.56	0.1557	0.023	14.507	mg/L
Mg	24	7288534.025	24.93	1.6675	0.298	17.898	mg/L
K	39	15401888.374	51.10	1.3958	0.158	11.350	mg/L
Ca	43	256873.146	0.88	11.1120	1.796	16.166	mg/L
Fe	54	3735577.543	12.58	4.7880	0.886	18.502	mg/L
Fe	57	1530231.739	5.21	4.7897	0.949	19.809	mg/L
> Sc-1	45	292568.441	292568.44				mg/L
Cl	35	21501.091	-9098.99				mg/L
Kr	83	39.334	-5.00				mg/L
Br	81	10535.550	576.59				mg/L
P	31	79828.452	64952.71				mg/L
S	34	222688.990	5795.72				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		97.786			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		100.631			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		101.058			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		100.818			
Na	23					

Sample ID: L1011066518
Report Date/Time: Tuesday, November 30, 2010 08:31:02
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066522

Sample Date/Time: Tuesday, November 30, 2010 02:32:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 97
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42590.675	0.03				ug/L
|	Be	9	162.001	0.00	0.3383	0.106	31.290	ug/L
|	Al	27	31241397.440	106.03	4338.2870	731.373	16.859	ug/L
⌊>	Sc	45	294576.027	294576.03				ug/L
⌈	Ti	49	1173.520	0.00	1.4045	0.188	13.376	ug/L
|	V	51	73396.130	0.17	6.5098	1.038	15.949	ug/L
|	Cr	52	44538.570	0.09	3.8398	0.687	17.886	ug/L
|	Cr	53	4354.734	0.01	3.7748	0.721	19.091	ug/L
|	Mn	55	1872750.693	4.55	129.5660	18.441	14.233	ug/L
|	Co	59	29878.124	0.07	2.4269	0.365	15.019	ug/L
|	Ni	60	11611.624	0.03	4.4720	0.719	16.083	ug/L
|	Cu	65	14136.610	0.03	5.3999	0.866	16.038	ug/L
|	Zn	66	43299.510	0.09	27.3440	4.505	16.474	ug/L
|>	Ge	72	411889.729	411889.73				ug/L
|	As	75	1658.668	0.00	1.8874	0.269	14.273	ug/L
|	Se	77	90.009	0.00	0.3636	0.357	98.246	ug/L
|	Se	82	34.279	0.00	0.2398	0.152	63.198	ug/L
⌊	Rb	85	64507.576	0.16				mg/L
	Y	89	299099.310	40851.71				ug/L
	Rh	103	30.334	22.67				ug/L
⌈	Mo	98	227.050	0.00	0.0768	0.007	8.734	ug/L
|	Ag	107	269.006	0.00	0.0354	0.006	18.216	ug/L
|	Cd	114	96.687	0.00	0.0648	0.017	25.584	ug/L
|>	In	115	342195.694	342195.69				ug/L
|	Sn	118	501.746	-0.00	-0.2882	0.005	1.721	ug/L
⌊	Sb	123	46.492	0.00	0.0375	0.000	0.773	ug/L
⌈	Ba	135	85765.500	0.19	51.4210	8.113	15.778	ug/L
|	Ce	140	435680.871	0.94				ug/L
⌊>	Tb	159	462140.007	462140.01				ug/L
⌈	Ho	165	3897.836	0.01				ug/L
|	Tl	203	563.022	0.00	0.0747	0.009	12.104	ug/L
|	Tl	205	1500.263	0.00	0.0636	0.010	15.975	ug/L
|	Pb	206	38758.788	0.09	6.1621	1.026	16.647	ug/L
|	Pb	207	32463.701	0.07	5.7090	0.944	16.534	ug/L
|	Pb	208	153645.857	0.35	5.8995	0.944	15.996	ug/L
|	U	238	34005.966	0.08	1.0654	0.175	16.442	ug/L
⌊>	Bi	209	437264.786	437264.79				ug/L

Approved: November 30, 2010

Na	23	1126497.346	3.74	0.1639	0.020	11.944	mg/L	
Mg	24	9515940.258	32.31	2.1613	0.328	15.170	mg/L	
K	39	23016893.932	76.56	2.0952	0.211	10.067	mg/L	
Ca	43	196969.650	0.67	8.4541	1.219	14.420	mg/L	
Fe	54	4523698.948	15.16	5.7681	0.935	16.203	mg/L	
Fe	57	1827637.895	6.18	5.6808	0.817	14.384	mg/L	
> Sc-1	45	294576.027	294576.03				mg/L	
Cl	35	28900.378	-1699.71				mg/L	
Kr	83	44.667	0.33				mg/L	
Br	81	11945.800	1986.84				mg/L	
P	31	121833.579	106957.83				mg/L	
S	34	223272.735	6379.47				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		98.717			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		102.230			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		103.068			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		101.812			
Na	23					

Sample ID: L1011066522
Report Date/Time: Tuesday, November 30, 2010 08:31:04
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066523

Sample Date/Time: Tuesday, November 30, 2010 02:38:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 98
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

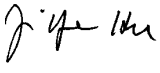
User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	44314.693	0.03				ug/L
|	Be	9	190.669	0.00	0.3994	0.053	13.243	ug/L
|	Al	27	30310387.278	102.78	4205.3083	575.903	13.695	ug/L
⌊>	Sc	45	295194.247	295194.25				ug/L
⌈	Ti	49	876.793	0.00	0.9645	0.171	17.726	ug/L
|	V	51	74596.637	0.18	6.6770	0.679	10.174	ug/L
|	Cr	52	44264.625	0.09	3.8498	0.432	11.213	ug/L
|	Cr	53	4401.411	0.01	3.8508	0.292	7.575	ug/L
|	Mn	55	1754026.186	4.30	122.3631	13.367	10.924	ug/L
|	Co	59	31204.202	0.08	2.5571	0.257	10.050	ug/L
|	Ni	60	11901.567	0.03	4.6226	0.441	9.546	ug/L
|	Cu	65	13528.322	0.03	5.2065	0.472	9.060	ug/L
|	Zn	66	39429.204	0.08	24.8276	2.051	8.262	ug/L
| >	Ge	72	408421.099	408421.10				ug/L
|	As	75	1714.373	0.00	1.9592	0.187	9.539	ug/L
|	Se	77	100.011	0.00	0.5037	0.480	95.297	ug/L
|	Se	82	28.313	0.00	0.1803	0.129	71.758	ug/L
⌊	Rb	85	59978.310	0.15				mg/L
	Y	89	297857.280	39609.68				ug/L
	Rh	103	23.334	15.67				ug/L
⌈	Mo	98	211.233	0.00	0.0713	0.002	3.039	ug/L
|	Ag	107	268.340	0.00	0.0362	0.004	11.290	ug/L
|	Cd	114	113.703	0.00	0.0810	0.009	11.191	ug/L
| >	In	115	336275.322	336275.32				ug/L
|	Sn	118	503.346	-0.00	-0.2854	0.006	1.993	ug/L
⌊	Sb	123	45.828	0.00	0.0375	0.001	3.369	ug/L
⌈	Ba	135	84459.697	0.19	51.7165	4.812	9.305	ug/L
|	Ce	140	470197.854	1.04				ug/L
⌊>	Tb	159	452293.404	452293.40				ug/L
⌈	Ho	165	4071.248	0.01				ug/L
|	Tl	203	499.351	0.00	0.0675	0.007	9.744	ug/L
|	Tl	205	1310.217	0.00	0.0547	0.003	4.863	ug/L
|	Pb	206	40840.433	0.09	6.6262	0.629	9.499	ug/L
|	Pb	207	33981.922	0.08	6.0961	0.532	8.734	ug/L
|	Pb	208	161090.092	0.37	6.3113	0.560	8.874	ug/L
|	U	238	40120.593	0.09	1.2771	0.128	10.014	ug/L
⌊>	Bi	209	428454.467	428454.47				ug/L

Approved: November 30, 2010



Na	23	800082.118	2.63	0.1146	0.010	9.076	mg/L	
Mg	24	9091450.024	30.82	2.0622	0.212	10.290	mg/L	
K	39	20517807.097	67.98	1.8595	0.148	7.969	mg/L	
Ca	43	143637.146	0.49	6.1564	0.626	10.175	mg/L	
Fe	54	4595096.316	15.38	5.8524	0.633	10.822	mg/L	
Fe	57	1884446.934	6.36	5.8522	0.672	11.477	mg/L	
Sc-1	45	295194.247	295194.25				mg/L	
Cl	35	23300.451	-7299.63				mg/L	
Kr	83	40.667	-3.67				mg/L	
Br	81	11375.134	1416.18				mg/L	
P	31	100588.683	85712.94				mg/L	
S	34	219162.215	2268.95				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		97.886			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		100.461			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		100.872			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		99.760			
Na	23					

Sample ID: L1011066523
Report Date/Time: Tuesday, November 30, 2010 08:31:05
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066524

Sample Date/Time: Tuesday, November 30, 2010 02:45:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 99
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	42389.866	0.02				ug/L
|	Be	9	212.002	0.00	0.4347	0.047	10.863	ug/L
|	Al	27	36399494.061	120.55	4932.3136	203.740	4.131	ug/L
⌊>	Sc	45	301958.010	301958.01				ug/L
⌈	Ti	49	1120.175	0.00	1.3291	0.232	17.432	ug/L
|	V	51	80047.903	0.19	7.1467	0.179	2.504	ug/L
|	Cr	52	50438.454	0.10	4.5069	0.196	4.347	ug/L
|	Cr	53	4931.712	0.01	4.3324	0.310	7.164	ug/L
|	Mn	55	1897233.432	4.62	131.6852	4.479	3.402	ug/L
|	Co	59	34023.823	0.08	2.7766	0.099	3.562	ug/L
|	Ni	60	12880.756	0.03	4.9809	0.166	3.331	ug/L
|	Cu	65	14622.500	0.04	5.6063	0.166	2.961	ug/L
|	Zn	66	41505.048	0.08	26.1627	0.573	2.190	ug/L
|>	Ge	72	410374.718	410374.72				ug/L
|	As	75	1874.115	0.01	2.1156	0.091	4.297	ug/L
|	Se	77	143.349	0.00	1.0614	0.186	17.516	ug/L
|	Se	82	37.693	0.00	0.2774	0.102	36.912	ug/L
⌊	Rb	85	71991.029	0.18				mg/L
	Y	89	303455.951	45208.35				ug/L
	Rh	103	28.667	21.00				ug/L
⌈	Mo	98	210.456	0.00	0.0716	0.003	4.336	ug/L
|	Ag	107	299.674	0.00	0.0429	0.003	7.020	ug/L
|	Cd	114	147.932	0.00	0.1117	0.013	11.275	ug/L
|>	In	115	334075.041	334075.04				ug/L
|	Sn	118	531.881	-0.00	-0.2768	0.008	2.776	ug/L
⌊	Sb	123	38.077	0.00	0.0354	0.003	9.647	ug/L
⌈	Ba	135	93923.527	0.21	58.2331	0.891	1.531	ug/L
|	Ce	140	496226.812	1.11				ug/L
⌊>	Tb	159	446654.805	446654.81				ug/L
⌈	Ho	165	4318.031	0.01				ug/L
|	Tl	203	624.359	0.00	0.0849	0.004	4.546	ug/L
|	Tl	205	1590.286	0.00	0.0707	0.006	8.020	ug/L
|	Pb	206	45992.081	0.11	7.5211	0.307	4.077	ug/L
|	Pb	207	37775.971	0.09	6.8266	0.225	3.291	ug/L
|	Pb	208	180057.935	0.42	7.1084	0.235	3.304	ug/L
|	U	238	44437.008	0.10	1.4205	0.042	2.953	ug/L
⌊>	Bi	209	425983.404	425983.40				ug/L

Sample ID: L1011066524
Report Date/Time: Tuesday, November 30, 2010 08:31:06
Page 1

Approved: November 30, 2010

Na	23	889284.947	2.87	0.1250	0.006	5.141	mg/L	
Mg	24	9859129.415	32.66	2.1848	0.082	3.767	mg/L	
K	39	23817370.177	77.32	2.1161	0.067	3.187	mg/L	
Ca	43	151562.790	0.50	6.3468	0.301	4.735	mg/L	
Fe	54	5157062.896	16.88	6.4242	0.187	2.914	mg/L	
Fe	57	2095972.974	6.92	6.3603	0.203	3.185	mg/L	
Sc-1	45	301958.010	301958.01				mg/L	
Cl	35	24047.549	-6552.54				mg/L	
Kr	83	35.334	-9.00				mg/L	
Br	81	11377.135	1418.18				mg/L	
P	31	109237.528	94361.78				mg/L	
S	34	214850.510	-2042.76				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		98.354			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		99.804			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		99.615			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		99.185			
Na	23					

Sample ID: L1011066524
Report Date/Time: Tuesday, November 30, 2010 08:31:06
Page 2

Approved: November 30, 2010

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: L1011066525

Sample Date/Time: Tuesday, November 30, 2010 02:52:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 100
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	38925.755	0.02				ug/L
|	Be	9	116.667	0.00	0.2503	0.011	4.431	ug/L
|	Al	27	12938999.969	45.63	1866.9560	319.344	17.105	ug/L
⌊>	Sc	45	284011.228	284011.23				ug/L
⌈	Ti	49	1013.486	0.00	1.2354	0.107	8.681	ug/L
|	V	51	49092.341	0.12	4.4930	0.735	16.367	ug/L
|	Cr	52	31132.792	0.06	2.5371	0.490	19.318	ug/L
|	Cr	53	2600.599	0.01	2.2405	0.117	5.237	ug/L
|	Mn	55	1868616.194	4.77	135.8486	22.441	16.519	ug/L
|	Co	59	18193.311	0.05	1.5423	0.274	17.736	ug/L
|	Ni	60	12329.818	0.03	4.9936	0.804	16.101	ug/L
|	Cu	65	7669.721	0.02	3.0389	0.498	16.373	ug/L
|	Zn	66	20407.264	0.03	11.8525	2.393	20.191	ug/L
| >	Ge	72	392614.702	392614.70				ug/L
|	As	75	912.656	0.00	1.1663	0.221	18.919	ug/L
|	Se	77	126.680	0.00	0.9121	0.541	59.305	ug/L
|	Se	82	25.325	0.00	0.1615	0.135	83.353	ug/L
⌊	Rb	85	27874.325	0.07				mg/L
	Y	89	269814.904	11567.30				ug/L
	Rh	103	31.000	23.33				ug/L
⌈	Mo	98	234.498	0.00	0.0884	0.005	5.418	ug/L
|	Ag	107	177.337	0.00	0.0201	0.003	14.106	ug/L
|	Cd	114	235.863	0.00	0.1996	0.013	6.317	ug/L
| >	In	115	317820.257	317820.26				ug/L
|	Sn	118	535.481	-0.00	-0.2686	0.004	1.558	ug/L
⌊	Sb	123	34.035	0.00	0.0348	0.002	6.059	ug/L
⌈	Ba	135	52854.254	0.13	35.0992	5.550	15.813	ug/L
|	Ce	140	231235.176	0.55				ug/L
⌊>	Tb	159	417314.399	417314.40				ug/L
⌈	Ho	165	2110.440	0.01				ug/L
|	Tl	203	270.673	0.00	0.0391	0.004	11.142	ug/L
|	Tl	205	660.088	0.00	0.0211	0.007	33.461	ug/L
|	Pb	206	23919.509	0.06	4.0940	0.656	16.035	ug/L
|	Pb	207	19800.371	0.05	3.7547	0.606	16.149	ug/L
|	Pb	208	93998.356	0.23	3.8878	0.620	15.939	ug/L
|	U	238	27799.801	0.07	0.9492	0.158	16.678	ug/L
⌊>	Bi	209	402336.599	402336.60				ug/L

Approved: November 30, 2010

⌈	Na	23	664385.759	2.26	0.0983	0.016	15.977	mg/L
|	Mg	24	18733436.275	66.12	4.4261	0.824	18.622	mg/L
|	K	39	9084855.047	30.46	0.8288	0.101	12.128	mg/L
|	Ca	43	1358866.870	4.79	60.6419	10.137	16.716	mg/L
|	Fe	54	2440842.264	8.42	3.2030	0.655	20.456	mg/L
|	Fe	57	1043876.794	3.66	3.3612	0.584	17.383	mg/L
⌊>	Sc-1	45	284011.228	284011.23				mg/L
	Cl	35	26567.245	-4032.84				mg/L
	Kr	83	39.334	-5.00				mg/L
	Br	81	11071.462	1112.50				mg/L
	P	31	68675.014	53799.27				mg/L
	S	34	224325.115	7431.85				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.098			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.948			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.071			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.679			
⌈	Na	23					

Sample ID: L1011066525
Report Date/Time: Tuesday, November 30, 2010 08:31:08
Page 2

Approved: November 30, 2010

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, November 30, 2010 02:59:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	40214.543	0.02				ug/L
|	Be	9	22820.012	0.08	48.4905	0.840	1.732	ug/L
|	Al	27	335057.927	1.10	44.9809	1.006	2.236	ug/L
⌊>	Sc	45	297528.325	297528.32				ug/L
⌈	Ti	49	67037.348	0.17	104.2581	1.050	1.007	ug/L
|	V	51	543297.302	1.35	51.3473	0.123	0.239	ug/L
|	Cr	52	463850.417	1.14	51.4347	0.605	1.177	ug/L
|	Cr	53	52821.094	0.13	50.8344	1.213	2.387	ug/L
|	Mn	55	725577.307	1.81	51.5950	0.544	1.054	ug/L
|	Co	59	599513.515	1.50	50.6546	0.443	0.874	ug/L
|	Ni	60	127068.831	0.32	50.7393	0.409	0.807	ug/L
|	Cu	65	122467.254	0.31	48.8221	0.156	0.319	ug/L
|	Zn	66	68310.232	0.15	46.4368	0.380	0.818	ug/L
|>	Ge	72	400286.935	400286.93				ug/L
|	As	75	46191.935	0.12	49.1712	0.322	0.656	ug/L
|	Se	77	3887.812	0.01	51.2762	1.665	3.246	ug/L
|	Se	82	4742.906	0.01	50.7439	0.342	0.673	ug/L
⌊	Rb	85	1868.860	0.00				mg/L
	Y	89	249126.574	-9121.03				ug/L
	Rh	103	27.667	20.00				ug/L
⌈	Mo	98	210596.064	0.63	97.9798	1.915	1.955	ug/L
|	Ag	107	249789.066	0.75	50.3595	0.313	0.621	ug/L
|	Cd	114	54897.297	0.16	48.1324	0.349	0.724	ug/L
|>	In	115	334269.972	334269.97				ug/L
|	Sn	118	192735.814	0.57	51.3335	0.193	0.375	ug/L
⌊	Sb	123	165565.645	0.50	47.5349	0.167	0.352	ug/L
⌈	Ba	135	74990.216	0.17	46.2941	0.291	0.630	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	448589.986	448589.99				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	355832.831	0.83	48.0808	0.225	0.468	ug/L
|	Tl	205	878237.423	2.05	48.6202	0.793	1.631	ug/L
|	Pb	206	288097.174	0.67	47.4764	0.414	0.872	ug/L
|	Pb	207	268405.562	0.63	48.7769	0.391	0.801	ug/L
|	Pb	208	1202063.608	2.80	47.7863	0.552	1.155	ug/L
|	U	238	1742549.695	4.07	54.6461	0.367	0.671	ug/L
⌊>	Bi	209	428495.393	428495.39				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 30, 2010 03:01:20
Page 1

Approved: November 30, 2010

Na	23	29631277.625	99.51	4.4034	0.027	0.616	mg/L
Mg	24	19021193.867	63.93	4.2797	0.063	1.479	mg/L
K	39	49680757.634	165.42	4.5365	0.039	0.854	mg/L
Ca	43	109338.725	0.37	4.6452	0.081	1.744	mg/L
Fe	54	3674040.934	12.15	4.6234	0.023	0.495	mg/L
Fe	57	1497925.093	5.01	4.6052	0.059	1.281	mg/L
> Sc-1	45	297528.325	297528.32				mg/L
Cl	35	19124.939	-11475.15				mg/L
Kr	83	32.334	-12.00				mg/L
Br	81	10321.998	363.04				mg/L
P	31	12947.057	-1928.69				mg/L
S	34	224719.644	7826.37				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	102.695				
Cr	52	102.869				
Cr	53					
Mn	55	103.190				
Co	59	101.309				
Ni	60	101.479				
Cu	65	97.644				
Zn	66	92.874				
> Ge	72		95.936			
As	75	98.342				
Se	77					
Se	82	101.488				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.719				
Cd	114	96.265				
> In	115		99.862			
Sn	118					
Sb	123	95.070				
Ba	135	92.588				
Ce	140					
> Tb	159		100.046			
Ho	165					
Tl	203	96.162				
Tl	205					
Pb	206					
Pb	207					
Pb	208	95.573				
U	238	109.292				
> Bi	209		99.770			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 30, 2010 03:01:20
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, November 30, 2010 03:01:20
Page 3

Approved: November 30, 2010

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, November 30, 2010 03:05:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	41285.469	0.02				ug/L
|	Be	9	4.667	0.00	0.0007	0.003	380.630	ug/L
|	Al	27	6685.586	-0.00	-0.1510	0.111	73.490	ug/L
⌊>	Sc	45	291727.664	291727.66				ug/L
⌈	Ti	49	93.343	0.00	-0.2334	0.100	42.625	ug/L
|	V	51	2790.325	-0.00	-0.0114	0.003	29.298	ug/L
|	Cr	52	8896.712	-0.00	-0.0691	0.007	9.622	ug/L
|	Cr	53	210.023	-0.00	-0.1277	0.055	43.290	ug/L
|	Mn	55	378.344	-0.00	-0.0166	0.001	8.857	ug/L
|	Co	59	204.337	-0.00	-0.0124	0.000	3.669	ug/L
|	Ni	60	27.000	-0.00	-0.0300	0.004	13.192	ug/L
|	Cu	65	83.001	-0.00	-0.0583	0.006	9.836	ug/L
|	Zn	66	509.685	-0.02	-2.9759	0.019	0.638	ug/L
|>	Ge	72	406029.375	406029.37				ug/L
|	As	75	-208.003	0.00	-0.0411	0.030	73.351	ug/L
|	Se	77	76.675	0.00	0.2028	0.166	81.796	ug/L
|	Se	82	7.388	0.00	-0.0396	0.054	135.688	ug/L
⌊	Rb	85	10.667	-0.00				mg/L
	Y	89	257205.738	-1041.87				ug/L
	Rh	103	3.667	-4.00				ug/L
⌈	Mo	98	960.508	0.00	0.4041	0.061	15.043	ug/L
|	Ag	107	36.334	0.00	-0.0105	0.001	12.646	ug/L
|	Cd	114	13.243	-0.00	-0.0069	0.006	89.914	ug/L
|>	In	115	346873.741	346873.74				ug/L
|	Sn	118	822.567	-0.00	-0.2070	0.007	3.387	ug/L
⌊	Sb	123	230.459	0.00	0.0882	0.005	5.158	ug/L
⌈	Ba	135	14.667	0.00	-0.0139	0.002	17.635	ug/L
|	Ce	140	23.336	0.00				ug/L
⌊>	Tb	159	464044.251	464044.25				ug/L
⌈	Ho	165	3.334	-0.00				ug/L
|	Tl	203	25.334	-0.00	0.0034	0.001	28.570	ug/L
|	Tl	205	50.005	-0.00	-0.0152	0.001	7.088	ug/L
|	Pb	206	401.012	-0.00	-0.0588	0.002	3.284	ug/L
|	Pb	207	356.343	-0.00	-0.0295	0.002	5.444	ug/L
|	Pb	208	1641.737	-0.00	-0.0452	0.002	3.736	ug/L
|	U	238	667.696	0.00	0.0394	0.004	10.360	ug/L
⌊>	Bi	209	442662.173	442662.17				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 30, 2010 03:08:04
Page 1

Approved: November 30, 2010

⌈	Na	23	14775.719	-0.03	-0.0032	0.000	1.111	mg/L
|	Mg	24	673.423	0.00	-0.0024	0.000	0.299	mg/L
|	K	39	440854.770	-0.06	-0.0098	0.001	6.275	mg/L
|	Ca	43	143.349	-0.00	0.0026	0.002	66.964	mg/L
|	Fe	54	59388.854	0.00	0.0026	0.001	32.854	mg/L
|	Fe	57	9832.487	0.01	0.0035	0.002	47.450	mg/L
⌊>	Sc-1	45	291727.664	291727.66				mg/L
	Cl	35	18631.340	-11968.75				mg/L
	Kr	83	32.000	-12.33				mg/L
	Br	81	10909.951	950.99				mg/L
	P	31	13288.832	-1586.91				mg/L
	S	34	225826.971	8933.70				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.313			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.628			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.493			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.068			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 30, 2010 03:08:04
Page 2

Approved: November 30, 2010

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, November 30, 2010 03:08:04
Page 3

Approved: November 30, 2010

2.3 General Chemistry Data

2.3.1 BOD Data

2.3.1.1 Summary Data

Login Number: L10110608

Department: Conventionals

Analyst: Dorothy Payne
Analyst #2: N/A

METHOD

Analysis EPA405.1/SM 5210B (Biochemical Oxygen Demand)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC All acceptance criteria were met.

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 16512
Approved By: Deanna Hesson

LABORATORY REPORT

L10110608

12/06/10 11:10

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SWMU57111710WC	L10110608-16	SM5210B	1	17-NOV-10

Microbac Laboratories Inc.

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-16**
Client ID: **SWMU57111710WC**
Matrix: **Water**
Workgroup Number: **WG349266**
Collect Date: **11/17/2010 10:30**

PrePrep Method: **NONE**
Prep Method: **SM5210B**
Analytical Method: **SM5210B**
Analyst: **DLP**
Dilution: **1**
Units: **mg/L**

Instrument: **YSI-5000**
Prep Date: **11/19/2010 08:15**
Cal Date:
Run Date: **11/19/2010 08:15**
File ID: **00.1011190815-06**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Biochemical Oxygen Demand		**812**		**600**	**200**

2.3.1.2 QC Summary Data

Example BOD Calculations

$$(B1 - B2) * F = B$$

$$[(D1 - D2) - B]/(volume/300) = mg/l\ O$$

where:

B1 = initial DO of the seeded blank.
B2 = final DO of the seeded blank.
F = ratio of seed in sample to seed in the blank in decimal form.
D1 = initial DO of the sample.
D2 = final DO of the sample.
volume = ml of sample used.
300 = total ml in the BOD bottle (sample and dilution water).

Final BOD result is the average of 1,2 or 3 bottles that meet the criteria stated in the SOP.

Microbac Laboratories Inc.

Data Checklist

Date: 19-NOV-2010
Analyst: DLP
Analyst: NA
Method: BOD
Instrument: YSI-5000
Curve Workgroup: NA
Runlog ID:
Analytical Workgroups: WG349266

Calibration/Linearity	11-19-10
Second Source Check	
ICV/CCV (std)	X
ICB/CCB	
Blank	X
LCS/LCS Dup	X
MS/MSD	X
Duplicate	X
Upload Results	X
Client Forms	
QC Violation Sheet	
Case Narratives	
Signed Raw Data	X
STD/LCS on benchsheet	X
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	
Primary Reviewer	DLP
Secondary Reviewer	DIH
Comments	

Primary Reviewer:
24-NOV-2010

Secondary Reviewer:
24-NOV-2010

CHECKLIST1 - Modified 03/05/2008
Generated: NOV-24-2010 14:58:01

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: SM5210B AAB#: WG349266

Login Number: L10110608

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SWMU57111710WC	16	11/17/10							2		11/19/10	1.9	2	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1849755
Report generated 11/24/2010 13:12

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L10110608
Work Group: WG349266
Blank File ID: 00.1011190815-01
Blank Sample ID: WG349266-01
Prep Date: 11/19/10 08:15
Instrument ID: YSI-5000
Analyzed Date: 11/19/10 08:15
Method: SM5210B
Analyst: DLP

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG349266-02	00.1011190815-02	11/19/10 08:15	
LCS2	WG349266-03	00.1011190815-03	11/19/10 08:15	
LCSX	WG349266-04	00.1011190815-04	11/19/10 08:15	
SWMU57111710WC	L10110608-16	00.1011190815-06	11/19/10 08:15	
DUP	WG349266-07	00.1011190815-09	11/19/10 08:15	

Report Name: BLANK_SUMMARY
PDF File ID: 1849756
Report generated 11/24/2010 13:12

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L10110608 Prep Date: 11/19/10 08:15 Sample ID: WG349266-01
Instrument ID: YSI-5000 Run Date: 11/19/10 08:15 Prep Method: SM5210B
File ID: 00.1011190815-01 Analyst: DLP Method: SM5210B
Workgroup (AAB#): WG349266 Matrix: Water Units: mg/L
Contract #: Cal ID: YSI-50 -

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Biochemical Oxygen Demand	1.00	3.00	1.00	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1849757
24-NOV-2010 13:12

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10110608 Analyst: DLP Prep Method: SM5210B
Instrument ID: YSI-5000 Matrix: Water Method: SM5210B
Workgroup (AAB#): WG349266 Units: mg/L
QC Key: DOD4 Lot #: STD42138

Sample ID: WG349266-02 LCS File ID: 00.1011190815-02 Run Date: 11/19/2010 08:15
Sample ID: WG349266-03 LCS2 File ID: 00.1011190815-03 Run Date: 11/19/2010 08:15

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Biochemical Oxygen Demand	198	183	92.5	198	180	91.0	1.63	84.6 - 115.4	20	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1849758
Report generated: 11/24/2010 13:12

2.3.1.3 Raw Data

WORKGROUP: WG349266

BIOCHEMICAL OXYGEN DEMAND

LCS/SPIKE: STD 42138 Daily Dilution: 10(10,000)/1500 = 200

2nd Source: STD 42139 Daily Dilution: 20(200)/1200 = 20 ADT - ON: DLP 11-19-10 / 0815 ADT - OFF: DLP 11-24-10 / 0825

____ LCS made fresh today
____ LCS pH (6.5-7.5) pH = 7.032
____ Dilution water D.O. = 8.48
____ Dilution water made: 11-19-10
____ Seed 1 cap. Per 850 mL DI water
____ LCS added to bottles
____ Spike added to sample
____ Duplicate analyzed
____ Chlorine checked on all samples
NA Nitrification inhibitor (HACH Formula 2533) Lot: _____
BOD √
BOD-C _____

EPA Method 405.1/SM 5210B SOP K4051 Revision #: 16 Instrument: YSI 5000 Incubator: 3
All DO reading in mg/L O

		Volume (mL)	Initial D.O.	Final D.O
UNSEEDED BOD BLANK	1	200	8.58	8.50
	2			

		Volume (mL)	Initial D.O.	Final D.O
UNSEEDED BOD-C BLANK	1			
	2			

		Volume (mL)	Initial D.O.	Final D.O
BOD SEEDED CONTROL BLANK (10mL SEED)	1	200	8.58	7.27
	2	200	8.63	7.20

		Volume (mL)	Initial D.O.	Final D.O
BOD-C SEEDED CONTROL BLANK (10mL SEED)	1			
	2			

		Volume (mL)	Initial D.O.	Final D.O
BOD BLANK (2mL SEED)	1	200	7.99	7.60
	2	200	7.97	7.63

		Volume (mL)	Initial D.O.	Final D.O
BOD-C BLANK (2mL SEED)	1			
	2			

		Volume (mL)	Initial D.O.	Final D.O
BOD LCS (198 mg/L)	1	6	8.61	4.84
BOD-C LCS (198 mg/L) Inhibitor added ____	2	7	8.64	3.90

		Volume (mL)	Initial D.O.	Final D.O
BOD LCS (198 mg/L)	1	6	8.64	4.92
BOD-C LCS (198 mg/L) Inhibitor added ____	2	7	8.64	3.98

		Volume (mL)	Initial D.O.	Final D.O
2nd SOURCE	1	3	8.65	4.97
	2	4	8.66	3.48

Reviewed By: _____ Page 1 of ___

DCN#85166

Approved: November 24, 2010

WORKGROUP: WG349266

Client: Kemron R54
Source: outfall 002
Sample No: 11-548-01
Initial pH: 8.126 Final pH: 8.126
Chlorine: —
Nitrification inhibitor added: _____
Comments:

Volume (mL)	Initial D.O.	Final D.O
20	8.68	
75	8.90	7.62
200	9.43	6.93

Client: Kemron (Radford)
Source: SWMU57 1117 OWC
Sample No: 11-608-16
Initial pH: 7.358 Final pH: 7.358
Chlorine: —
Nitrification inhibitor added: _____
Comments: Sample was very soapy

Volume (mL)	Initial D.O.	Final D.O
1	8.64	6.66
5	8.64	<1
20	8.70	<1
75	8.96	<1
200	~~8.50~~ 9.50 DNP 11-19-10	<1

Client: Sabic
Source: outfall 001/comp
Sample No: 11-609-01
Initial pH: 7.975 Final pH: 7.975
Chlorine: —
Nitrification inhibitor added: ✓
Comments:

Volume (mL)	Initial D.O.	Final D.O
20	8.72	
75	8.99	8.20
200	9.74	8.76

Client: Cytec
Source: Cytec Inlet
Sample No: 11-642-01
Initial pH: 8.907 Final pH: 6.733
Chlorine: —
Nitrification inhibitor added: —
Comments: Dup

Volume (mL)	Initial D.O.	Final D.O
2	8.61	7.38
5	8.58	6.06
10	8.63	4.20
20	8.59	<1
2	8.64	7.43
5	8.63	6.23
10	8.62	4.11
20	8.59	<1

Client: Cytec Alpharma
Source:
Sample No: 11-642-02
Initial pH: 8.298 Final pH: 8.298
Chlorine: —
Nitrification inhibitor added: —
Comments:

Volume (mL)	Initial D.O.	Final D.O
0.5	8.66	6.74
1	8.64	5.08
3	8.57	<1
5	8.49	<1

(2)

DCN#85166

Approved: November 24, 2010

Microbac Laboratories Inc.

BOD REPORT

Workgroup (AAB#):WG349266 Analyst:DLP

Product:SM5210B Run Date:11/19/2010 08:15

Analyte:BIOCHEMICAL OXYGEN DEMAND

SAMPLE NUMBER	DIL	SEED	VOL1	IDO1	FDO1	RESULT1	VOL2	IDO2	FDO2	RESULT2	VOL3	IDO3	FDO3	RESULT3	RESULT	Units
WG349266-01	1	0.274	200	7.99	7.60	0.1740	200.0	7.97	7.63	0.09900	200.0				0.1365	mg/L
WG349266-02	1	0.274	6	8.61	4.84	174.8	7.0	8.64	3.90	191.4	200.0				183.1	mg/L
WG349266-03	1	0.274	6	8.64	4.92	172.3	7.0	8.64	3.98	188.0	200.0				180.1	mg/L
WG349266-04	1	0.274	3	8.65	4.47	390.6	4.0	8.66	3.45	370.2	200.0				380.4	mg/L
L10110548-01	1	0.274	200	9.43	6.93	3.339	200.0				200.0				3.339	mg/L
L10110608-16	1	0.274	1	8.64	5.66	811.8	200.0				200.0				811.8	mg/L
L10110609-01	1	0.274	200	9.74	8.76	1.059	200.0				200.0				F 1.059	mg/L
L10110642-01	1	0.274	10	8.63	4.20	124.7	5.0	8.58	6.06	134.8	200.0				129.7	mg/L
WG349266-05	1	0.274	10	8.63	4.20	124.7	5.0	8.58	6.06	134.8	200.0				129.7	mg/L
WG349266-07	1	0.274	10	8.62	4.11	127.1	5.0	8.63	6.23	127.6	200.0				127.3	mg/L
L10110642-02	1	0.274	1	8.64	5.08	985.8	200.0				200.0				985.8	mg/L
L10110642-03	1	0.274	5	8.59	3.69	277.6	3.0	8.61	5.40	293.6	200.0				285.6	mg/L
L10110642-04	100	0.274	10	8.62	5.63	81.48	200.0				200.0				8148	mg/L
L10110642-05	100	0.274	5	8.61	3.77	274.0	3.0	8.64	5.54	282.6	200.0				27830	mg/L
L10110652-01	1	0.274	2	8.65	1.26	1067	1.0	8.61	4.05	1286	0.5	8.60	6.30	1216	1190	mg/L
L10110652-02	1	0.274	200	9.37	6.74	3.534	200.0				200.0				3.534	mg/L
L10110658-01	1	0.274	200	9.66	8.79	0.8940	200.0				200.0				ND	mg/L
L10110658-02	1	0.274	200	9.35	3.25	8.739	75.0	9.03	6.45	9.224	200.0				8.982	mg/L
WG349266-06	1	0.274	200	9.35	3.25	8.739	75.0	9.03	6.45	9.224	200.0				8.982	mg/L
WG349266-08	1	0.274	20	8.68	6.28	31.89	50.0	8.65	3.24	30.82	200.0				31.35	mg/L
L10110662-01	1	0.274	200	9.22	6.86	3.129	200.0				200.0				3.129	mg/L

Report Name: BOD_REPORT

Report Generated: 24-NOV-2010 09:57

[redacted]

Approved: November 24, 2010

2.3.2 COD Data

2.3.2.1 Summary Data

Login Number: L10110608

Department: Conventionals

Analyst: Deanna Hesson
Analyst #2: N/A

METHOD

Analysis EPA 410.4/SM5220D/HACH 8000 (Chemical Oxygen Demand)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC All acceptance criteria were met.

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 16511
Approved By: Deanna Hesson

LABORATORY REPORT

L10110608

12/06/10 11:10

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SWMU57111710WC	L10110608-16	410.4 MOD	4	17-NOV-10

Microbac Laboratories Inc.

Report Number: **L10110608**
Report Date : **December 6, 2010**

Sample Number: **L10110608-16**
Client ID: **SWMU57111710WC**
Matrix: **Water**
Workgroup Number: **WG349488**
Collect Date: **11/17/2010 10:30**

PrePrep Method: **NONE**
Prep Method: **HACH**
Analytical Method: **410.4 MOD**
Analyst: **DIH**
Dilution: **4**
Units: **mg/L**

Instrument: **UV-120-1V**
Prep Date: **11/22/2010 08:46**
Cal Date:
Run Date: **11/22/2010 08:46**
File ID: **1V.1011220846-13**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Chemical Oxygen Demand		**2580**		**600**	**40.0**

2.3.2.2 QC Summary Data

Example Calculations for Visible Spectrophotometric Methods

Linear Calibration Model

Step 1 - Retrieve Curve Data from ICAL

m = slope of the linear equation
b = intercept from the linear equation
x = instrument response as absorbance or OD
y = concentration of analyte (mg/L)

Step 2: Calculate the instrument concentration, y

Where:
y = mx + b

Step 3: Solve for analyte concentration in sample, Cy

Cy = (y) (D)

Example Calculation (LCS):

Value of m from plot:	2.7599	
Value of b from plot:	0.0153	
Absorbance of unknown from quantitation report (x):	0.3765	
Calculated concentration (y):	1.05440235	
Dilution factor (D):	1.00	
Concentration of analyte in sample, Cy:	1.05	mg/L

SmartChem Autoanalyzer - Quadratic Calibration for Chloride and Sulfate

Step 1 - Retrieve Curve Data from Smartchem ICAL

A, B, C = constants from the ICAL quadratic regression

x = instrument response as absorbance or OD

y = concentration of analyte (mg/L)

Step 2: Calculate the instrument concentration, y

Where:

y = Ax^2 + Bx + C

Step 3: Solve for analyte concentration in sample, Cy

Cy = (y) (D)

Example Calculation (LCS):

Value of A from plot:	101.2796	
Value of B from plot:	318.9056	
Value of C from plot:	-2.2712	
Absorbance of unknown from quantitation report (x):	0.1583	
Calculated concentration (y):	50.7495108	
Dilution factor (D):	1.00	
Concentration of analyte in sample, Cy:	50.75	mg/L

Microbac Laboratories Inc.

Data Checklist

Date: 22-NOV-2010
Analyst: DIH
Analyst: NA
Method: COD-HIGH
Instrument: UV-120-1V
Curve Workgroup: NA
Runlog ID:
Analytical Workgroups: WG349488

Calibration/Linearity	10/26/2010
Second Source Check	X
ICV/CCV (std)	X
ICB/CCB	X
Blank	X
LCS/LCS Dup	X
MS/MSD	X
Duplicate	X
Upload Results	X
Client Forms	X
QC Violation Sheet	X
Case Narratives	X
Signed Raw Data	X
STD/LCS on benchsheet	X
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	DIH
Secondary Reviewer	JBK
Comments	

Primary Reviewer:
22-NOV-2010

Secondary Reviewer:
23-NOV-2010

CHECKLIST1 - Modified 03/05/2008
Generated: NOV-23-2010 14:49:30

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 410.4 MOD AAB#: WG349488

Login Number: L10110608

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SWMU57111710WC	16	11/17/10							28		11/22/10	4.9	28	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1848377
Report generated 11/23/2010 14:46

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L10110608
Work Group: WG349488
Blank File ID: 1V.1011220846-02
Blank Sample ID: WG349488-01
Prep Date: 11/22/10 08:46
Instrument ID: UV-120-1V
Analyzed Date: 11/22/10 08:46
Method: 410.4 MOD
Analyst: DIH

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG349488-02	1V.1011220846-03	11/22/10 08:46	
LCS2	WG349488-03	1V.1011220846-04	11/22/10 08:46	
SWMU57111710WC	L10110608-16	1V.1011220846-13	11/22/10 08:46	
DUP	WG349488-05	1V.1011220846-20	11/22/10 08:46	

Report Name: BLANK_SUMMARY
PDF File ID: 1848378
Report generated 11/23/2010 14:46

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L10110608 Prep Date: 11/22/10 08:46 Sample ID: WG349488-01
Instrument ID: UV-120-1V Run Date: 11/22/10 08:46 Prep Method: HACH
File ID: 1V.1011220846-02 Analyst: DIH Method: 410.4 MOD
Workgroup (AAB#): WG349488 Matrix: Water Units: mg/L
Contract #: Cal ID: UV-120-

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Chemical Oxygen Demand	10.0	150	10.0	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1848379
23-NOV-2010 14:46

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L10110608 **Analyst:** DIH **Prep Method:** HACH
Instrument ID: UV-120-1V **Matrix:** Water **Method:** 410.4 MOD
Workgroup (AAB#): WG349488 **Units:** mg/L
QC Key: DOD4 **Lot #:** STD40147

Sample ID: WG349488-02 LCS **File ID:** 1V.1011220846-03 **Run Date:** 11/22/2010 08:46
Sample ID: WG349488-03 LCS2 **File ID:** 1V.1011220846-04 **Run Date:** 11/22/2010 08:46

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Chemical Oxygen Demand	1000	914	91.4	1000	929	92.9	1.62	90 - 110	20	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1848380
Report generated: 11/23/2010 14:46

2.3.2.3 Raw Data

Wq 346723

Curves

Parameter: COD-high

Spectrophotometer: UV-120-1V

Calibration (Curve) standard stock: Std 41434

Concentration: 10,000 mg/L

Recipe for preparation of curve standards found in:
SOP: 4102 Revision: 13 Page: 7

Second Source Stock: ~~Std 40147~~ (concentration: 1000)

Daily Preparation: 2(1,000)/2

concentration = = 1000

Calibration Standards (mg/L)	Volume (mL)	Cell Size (cm)	Wavelength (nm)	Absorbance	
Std 1 (1500)	2mL	1cm	620	0.508	0.515
Std 2 (1,000)	2mL	1cm	620	0.344	0.347
Std 3 (500)	2mL	1cm	620	0.179	0.177
Std 4 (300)	2mL	1cm	620	0.109	0.109
Std 5 (150)	2mL	1cm	620	0.057	0.056
Std 10 = 0	2mL	1cm	620	0.005	0.006
2nd Source (1,000)	2mL	1cm	620	0.329	0.326

Analyst: Jenny Mosso

Date/Time: 10/26/10 @ ~~1030~~ 1030
off 10/26/10 @ ~~1030~~ 1030

11/26/10

DCN#84869

Approved: October 29, 2010

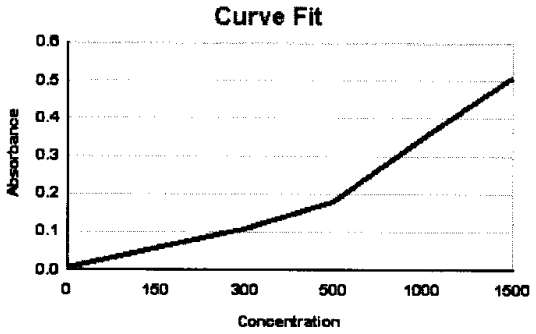
Microbac Laboratories Inc.
INITIAL CALIBRATION

Workgroup:WG346723
Analytical Method:400
Instrument ID:UV-120-1V

Analyst:TMM
Initial Calibration Date:10/26/2010

Analyte: CHEMICAL OXYGEN DEMAND
Number of Points: 6
Slope: 0.000334981
Y-Intercept: 0.00771937
Coef. Of Correlation (R^2): 0.999837
Coef. Of Correlation (R): 0.999918

Concentration X	Absorbance Y	X^2	X * Y	Y-Fitted (mX^2+B)
0.00	0.00500	0.00	0.00	0.00771937
150	0.0570	22500	8.55	0.0579665
300	0.109	90000	32.7	0.108214
500	0.179	250000	89.5	0.175210
1000	0.344	1000000	344	0.342700
1500	0.508	2250000	762	0.510191



WG_ICAL_CAL_WET - Modified 03/06/2008
Report generated 10/26/2010 12:58

[redacted]

Approved: October 29, 2010

Microbac Laboratories Inc.
ALTERNATE SOURCE REPORT

Workgroup #: WG346723
File ID: 1V.1010261031-07
CCV ID: WG346723-07
Units: mg/L
Analyte: CHEMICAL OXYGEN DEMAND

Instrument ID: UV-120-1V
Run Date: 10/26/2010
Run Time: 10:31
Analyst: TMM
Cal ID: UV-120 -

Analyte	Expected	Found	RF	%D	Q
Chemical Oxygen Demand	1000	959	0.000329	4.1	

* Exceeds %D Limit

CCC Calibrtion Check Compounds
SPCC System Performance Check Compounds

WET_WG_SSCV - Modified 03/06/2008
Report generated 10/26/2010 12:58

[redacted]

Approved: October 29, 2010

wg 349488

COD

EPA 410.4/SM5220D/HACH 8000 | CCV: STD41436 | LCS: std40147 | Spike: STD41436

SOP K4105 Revision #: 13 | Daily dilution: 4/50(10000) | Daily dilution: =1000 | Daily dilution: 0.1/2(10000)

Curve ID: 10/26/10 | Daily dilution: =800 | Daily dilution: _____ | Daily dilution: = 500

Wavelength (nm): 620 | Hot Block Temp: 148 C | Spectrophotometer: UV-120-1V

SAMPLE	DILUTION	ABSORBANCE 1	ABSORBANCE 2
CCV: 800 mg/L		0.259	
BLANK:		0.006	
LCS: 1000 mg/L		0.314	
LCS DUP: 1000 mg/L		0.319	
11-533-01	1/100	0.261	
02	1/10	0.252	
03	1/40	0.200	
04	1/200	0.195	
06	1/2	0.304	
07 D	1/40	0.146	
08 D	1/20	0.314	
09 D	1/40	0.222	
11-608-16	1/4	0.224	
11-663-01		0.069	
02		0.205	
04		0.113	
05		0.197	
07		0.103	
08		0.123	
DUP: 663-08		0.127	
MS: (500) 663-08		0.270	
MDS: (500) ↓		0.279	
CCV: 800 mg/L		0.275	

ANALYST: Deanna Dobson

DATE/TIME: (on) 11/22/0845/10

DATE/TIME: (off) 11/22/10/1050

DCN#85180

Approved: November 23, 2010

Microbac Laboratories Inc.
SAMPLE REPORT

Workgroup: WG349488 **Analyst:** DIH
Analyte: CHEMICAL OXYGEN DEMAND **Date:** 11/22/2010

Sample ID	I Vol	F Vol	Response	Slope	Y Intercept	Anal. Conc.	Rep. Conc.	Dil	Units
WG349488-01	2	2	0.00600	0.0003350	0.007719	-5.1327	-5.1327	1	mg/L
WG349488-02	2	2	0.314	0.0003350	0.007719	914.32	914.32	1	mg/L
WG349488-03	2	2	0.319	0.0003350	0.007719	929.25	929.25	1	mg/L
L10110533-01	2	2	0.261	0.0003350	0.007719	756.10	75610	100	mg/L
L10110533-02	2	2	0.252	0.0003350	0.007719	729.24	7292.4	10	mg/L
L10110533-03	2	2	0.200	0.0003350	0.007719	574.00	22960	40	mg/L
L10110533-04	2	2	0.195	0.0003350	0.007719	559.08	111820	200	mg/L
L10110533-06	2	2	0.304	0.0003350	0.007719	884.47	1768.9	2	mg/L
L10110533-07	2	2	0.146	0.0003350	0.007719	412.80	16512	40	mg/L
L10110533-08	2	2	0.314	0.0003350	0.007719	914.32	18286	20	mg/L
L10110533-09	2	2	0.222	0.0003350	0.007719	639.68	25587	40	mg/L
L10110608-16	2	2	0.224	0.0003350	0.007719	645.65	2582.6	4	mg/L
L10110663-01	2	2	0.0690	0.0003350	0.007719	182.94	182.94	1	mg/L
L10110663-02	2	2	0.205	0.0003350	0.007719	588.93	588.93	1	mg/L
L10110663-04	2	2	0.113	0.0003350	0.007719	314.29	314.29	1	mg/L
L10110663-05	2	2	0.197	0.0003350	0.007719	565.05	565.05	1	mg/L
L10110663-07	2	2	0.103	0.0003350	0.007719	284.44	284.44	1	mg/L
L10110663-08	2	2	0.123	0.0003350	0.007719	344.14	344.14	1	mg/L
WG349488-04	2	2	0.123	0.0003350	0.007719	344.14	344.14	1	mg/L
WG349488-05	2	2	0.127	0.0003350	0.007719	356.08	356.08	1	mg/L
WG349488-06	2	2	0.270	0.0003350	0.007719	782.97	782.97	1	mg/L
WG349488-07	2	2	0.279	0.0003350	0.007719	809.84	809.84	1	mg/L

UV_SAMPLE_REPORT - Modified 03/06/2008

Report generated 11/22/2010 15:50

[redacted]

Approved: November 23, 2010

Microbac Laboratories Inc.
CONTINUING CALIBRATION REPORT

Workgroup #: WG349509
File ID: 1V.1011220846-01
CCV ID: WG349509-01
Units: mg/L
Analyte: CHEMICAL OXYGEN DEMAND

Instrument ID: UV-120-1V
Run Date: 11/22/2010
Run Time: 08:46
Analyst: DIH
Cal ID: UV-120 -

Analyte	Expected	Found	RF	%D	Q
Chemical Oxygen Demand	800	750	0.000324	6.3	

* Exceeds %D Limit

CCC Calibrtion Check Compounds
SPCC System Performance Check Compounds

WET_WG_CCV - Modified 03/06/2008

Report generated 11/22/2010 15:46

[redacted]

Approved: November 23, 2010

Microbac Laboratories Inc.
CONTINUING CALIBRATION REPORT

Workgroup #: WG349509
File ID: 1V.1011220846-22
CCV ID: WG349509-02
Units: mg/L
Analyte: CHEMICAL OXYGEN DEMAND

Instrument ID: UV-120-1V
Run Date: 11/22/2010
Run Time: 08:46
Analyst: DIH
Cal ID: UV-120 -

Analyte	Expected	Found	RF	%D	Q
Chemical Oxygen Demand	800	798	0.000344	0.3	

* Exceeds %D Limit

CCC Calibrtion Check Compounds
SPCC System Performance Check Compounds

WET_WG_CCV - Modified 03/06/2008

Report generated 11/22/2010 15:46

[redacted]

Approved: November 23, 2010

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
December 6, 2010

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
ALV – AMY L. VALENTINE	AML – TONY M. LONG	AZH – AFTER HOURS
BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CSH – CHRIS S. HILL	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
ECL – ERIC C. LAWSON	EDA – ERIN D. AGEE	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR	HJR – HOLLY J. REED
JAL – JOHN A. LENT	JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON
JKT – JANE K. THOMPSON	JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES
JYH – JI Y. HU	KEB – KATIE E. BARNES	KHR – KIM H. RHODES
KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF	LSB – LESLIE S. BUCINA
MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN	MES – MARY E. SCHILLING
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON
PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT	RAH – ROY A. HALSTEAD
RB – BOB BUCHANAN	REK – BOB E. KYER	RLK – ROBIN L. KLINGER
RWC – RODNEY W. CAMPBELL	SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF
TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
VC – VICKI COLLIER	WJB – WILL J. BEASLEY	WTD – WADE T. DELONG

Microbac Laboratories Inc.
List of Valid Qualifiers
December 06, 2010

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the low standard (LOQ)
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

Microbac Laboratories Inc.
List of Valid Qualifiers
December 06, 2010

Qualkey: DOD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 2397

156 Starlite Drive
Marietta, OH 45750

KEMRON
ENVIRONMENTAL SERVICES
CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4308
Fax: 740-376-2536

Company Name: UXB - KEMRON

Project Contact: MARY LOU ROCHOTTE
Contact Phone #: 740-373-4308

Turn Around Requirements: 10 DAY
Location: RFAAP, RADFORD, VA

Project ID: MR0669-400-002

Sampler (print): JONAH ANDERSON
Signature:

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	TCL-VOC	METALS		BOD	CBOD											TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
SWMU57GWMW2		X	11-16-10	1530	W	5		3	2															* METALS - TOTAL & DISSOLVED (ANTIMONY, ARSENIC, MANGANESE, CHROMIUM) FILTERED & UNFILTERED
SWMU57GW111610MS		X	11-16-10	1530	W	5		3	2															
SWMU57GW111610MSD		X	11-16-10	1530	W	5		3	2															
SWMU57GW111610D1		X	11-16-10	1530	W	5		3	2															
SWMU57111610EB		X	11-16-10	1600	W	5		3	2															
SWMU57GWMW3		X	11-16-10	1822	W	5		3	2															
SWMU57111610FB		X	11-16-10	1930	W	5		3	2															
SWMU57111610TB		X	11-16-10	—	W	3		3	—															
SWMU57111710WC	X		11-17-10	1030	W	2					1	1												* PER QAPP *

Microbac OVD 221000010427
Received: 11/17/2010 16:42
By: BRENDA GREENWALT

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	11-17-10	1630	Brenda Greenwalt

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:
			Brenda Greenwalt	11/17/10	1640	

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page _____ of _____

1000010427

COOLER INSPECTION

Received: 11/17/2010 16:42
Delivery Method: Client
Opened By: Brenda Greenwalt
Comments:

Login(s): L10110608|

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
0015127	H	3.0		COC2397	

1	NA	Were shipping coolers sealed?
2	NA	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	Yes	Were COC's received/information complete/signed and dated?
6	Yes	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were samples received within EPA hold times?
9	Yes	Were correct perservatives used? (water only)
10	Yes	Were pH ranges acceptable? (voa's excluded)
11	Yes	Were VOA samples free of headspace (less than 6mm)?

Discrepancies:

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L10110608
Account: 2820
Project: 2820.216
Samples: 16
Due Date: 01-DEC-2010

Samplenum	Container ID	Products
L10110608-01	768152	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:28	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:28	JKT	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:28	JKT	MRT

Samplenum	Container ID	Products
L10110608-01	768153	AS-MS CR-MS MN-MS SB-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:51	BRG	JKT
3	ANALYZ*	DIG	METALS	21-NOV-2010 06:40	JYH	BRG
4	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP

Sample extract/digestate

Samplenum	Container ID	Products
L10110608-02	768154	AS-MSD CR-MS-D MN-MSD SB-MSD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:52	BRG	JKT
3	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP
4	ANALYZ*	DIG	METALS	29-NOV-2010 10:01	JYH	BRG

Sample extract/digestate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L10110608
Account: 2820
Project: 2820.216
Samples: 16
Due Date: 01-DEC-2010

Samplenum	Container ID	Products
L10110608-03	768155	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:28	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:28	JKT	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:28	JKT	MRT

Samplenum	Container ID	Products
L10110608-03	768156	AS-MS CR-MS MN-MS SB-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:52	BRG	JKT
3	ANALYZ*	DIG	METALS	21-NOV-2010 06:40	JYH	BRG
4	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP

***Sample extract/digestate**

Samplenum	Container ID	Products
L10110608-04	768157	AS-MSD CR-MS-D MN-MSD SB-MSD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:52	BRG	JKT
3	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP
4	ANALYZ*	DIG	METALS	29-NOV-2010 10:01	JYH	BRG

***Sample extract/digestate**

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L10110608
Account: 2820
Project: 2820.216
Samples: 16
Due Date: 01-DEC-2010

Samplenum	Container ID	Products
L10110608-05	768158	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Samplenum	Container ID	Products
L10110608-05	768159	AS-MS CR-MS MN-MS SB-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:52	BRG	JKT
3	ANALYZ*	DIG	METALS	21-NOV-2010 06:40	JYH	BRG
4	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP

***Sample extract/digestate**

Samplenum	Container ID	Products
L10110608-06	768160	AS-MSD CR-MS-D MN-MSD SB-MSD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:52	BRG	JKT
3	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP
4	ANALYZ*	DIG	METALS	29-NOV-2010 10:01	JYH	BRG

***Sample extract/digestate**

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L10110608
Account: 2820
Project: 2820.216
Samples: 16
Due Date: 01-DEC-2010

Samplenum	Container ID	Products
L10110608-07	768161	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:28	JKT	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:28	JKT	MRT

Samplenum	Container ID	Products
L10110608-07	768162	AS-MS CR-MS MN-MS SB-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:52	BRG	JKT
3	ANALYZ*	DIG	METALS	21-NOV-2010 06:40	JYH	BRG
4	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP

***Sample extract/digestate**

Samplenum	Container ID	Products
L10110608-08	768163	AS-MSD CR-MS-D MN-MSD SB-MSD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:52	BRG	JKT
3	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP
4	ANALYZ*	DIG	METALS	29-NOV-2010 10:01	JYH	BRG

***Sample extract/digestate**

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L10110608
Account: 2820
Project: 2820.216
Samples: 16
Due Date: 01-DEC-2010

Samplenum	Container ID	Products
L10110608-09	768164	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Samplenum	Container ID	Products
L10110608-09	768165	MN-MS SB-MS AS-MS CR-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:52	BRG	JKT
3	ANALYZ*	DIG	METALS	21-NOV-2010 06:40	JYH	BRG
4	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP

Sample extract/digestate

Samplenum	Container ID	Products
L10110608-10	768166	AS-MSD CR-MS-D MN-MSD SB-MSD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:52	BRG	JKT
3	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP
4	ANALYZ*	DIG	METALS	29-NOV-2010 10:01	JYH	BRG

Sample extract/digestate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L10110608
Account: 2820
Project: 2820.216
Samples: 16
Due Date: 01-DEC-2010

Samplenum	Container ID	Products
L10110608-11	768167	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Samplenum	Container ID	Products
L10110608-11	768168	AS-MS CR-MS MN-MS SB-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:52	BRG	JKT
3	ANALYZ*	DIG	METALS	21-NOV-2010 06:40	JYH	BRG
4	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP

***Sample extract/digestate**

Samplenum	Container ID	Products
L10110608-12	768169	AS-MSD CR-MS-D MN-MSD SB-MSD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:52	BRG	JKT
3	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP
4	ANALYZ*	DIG	METALS	29-NOV-2010 10:01	JYH	BRG

***Sample extract/digestate**

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L10110608
Account: 2820
Project: 2820.216
Samples: 16
Due Date: 01-DEC-2010

Samplenum	Container ID	Products
L10110608-13	768170	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Samplenum	Container ID	Products
L10110608-13	768171	AS-MS CR-MS MN-MS SB-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:52	BRG	JKT
3	ANALYZ*	DIG	METALS	21-NOV-2010 06:40	JYH	BRG
4	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP

***Sample extract/digestate**

Samplenum	Container ID	Products
L10110608-14	768172	AS-MSD CR-MS-D MN-MSD SB-MSD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	PREP	W1	DIG	18-NOV-2010 15:52	BRG	JKT
3	STORE	DIG	A2	21-NOV-2010 14:31	AZH	ERP
4	ANALYZ*	DIG	METALS	29-NOV-2010 10:01	JYH	BRG

***Sample extract/digestate**

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L10110608
Account: 2820
Project: 2820.216
Samples: 16
Due Date: 01-DEC-2010

Samplenum	Container ID	Products
L10110608-15	768173	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	18-NOV-2010 11:52	JKT	
2	ANALYZ	V1	ORG4	18-NOV-2010 14:55	MES	JKT
3	STORE	ORG4	A2	03-DEC-2010 08:27	JKT	MRT

Samplenum	Container ID	Products
L10110608-16	768174	BOD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	ANALYZ	W1	WET	19-NOV-2010 10:50	DLP	JKT
3	STORE	WET	A2	19-NOV-2010 16:06	JKT	DLP

Samplenum	Container ID	Products
L10110608-16	768175	COD-HIGH COD-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	18-NOV-2010 11:52	JKT	
2	ANALYZ	W1	WET	22-NOV-2010 07:24	DIH	RLK
3	STORE	WET	A2	23-NOV-2010 10:25	RLK	DIH

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

SOIL CONFIRMATION SAMPLE ANALYTICAL REPORTS

L11020571
L11030925
L11030926
L11031030
L11040066
L11040067
L11040179
L11040180

158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L11020571

Client: Mary Lou Rochette, 156 Starlite Drive, Marietta, OH, 45750

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	*Team Chemist/Data Specialist*	Kathy.Albertson@microbac.com
Stephanie Mossburg	*Team Chemist/Data Specialist*	Stephanie.Mossburg@microbac.com
Tony Long	*Team Chemist/Data Specialist*	Tony.Long@microbac.com
Amanda Fickiesen	*Client Services Specialist*	Amanda.Fickiesen@microbac.com
Annie Brown	*Client Services Specialist*	Annie.Brown@microbac.com

This report was reviewed on March 04, 2011.

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in this report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on March 04, 2011.

David Vandenberg - Managing Director

State of origin: Virginia
Accrediting authority: N/A ID:N/A
QAPP: DOD Ver 4.1
This report contains a total of 1493 pages.

Look closer. Go further. Do more.

Microbac REPORT L11020571
PREPARED FOR Kemron Environmental Services
WORK ID:

1.0 Introduction 3
2.0 Full Sample Data Package 16
2.1 Metals Data 17
2.1.1 Metals I C P Data 18
2.1.1.1 Summary Data 19
2.1.1.2 QC Summary Data 48
2.1.1.3 Raw Data 142
2.1.2 Metals ICP-MS Data 1039
2.1.2.1 Summary Data 1040
2.1.2.2 QC Summary Data 1057
2.1.2.3 Raw Data 1122
3.0 Attachments 1484

1.0 Introduction

LABORATORY REPORT

L11020571

03/04/11 16:17

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Summary

Client ID	Lab ID	Date Collected	Date Received
SWMU-57-21711-EB	L11020571-01	02/17/2011 09:00	02/19/2011
SWMU-57-21711-FB	L11020571-02	02/17/2011 09:05	02/19/2011
SWMU-57-21711-MS	L11020571-03	02/17/2011 10:10	02/19/2011
SWMU-57-21711-MSD	L11020571-04	02/17/2011 10:10	02/19/2011
SWMU-57-21711-DUP	L11020571-05	02/17/2011 10:10	02/19/2011
SWMU-57-21711-B-5-SS-1-2	L11020571-06	02/17/2011 10:10	02/19/2011
SWMU-57-21711-B-2-SS-2.5	L11020571-07	02/17/2011 10:55	02/19/2011
SWMU-57-21711-B-2-SS-5	L11020571-08	02/17/2011 11:35	02/19/2011
SWMU-57-21711-B-1-SS-2.5	L11020571-09	02/17/2011 12:05	02/19/2011
SWMU-57-21711-B-6-SS-2.5	L11020571-10	02/17/2011 13:35	02/19/2011
SWMU-57-21811-B3-SS-2	L11020571-11	02/17/2011 08:55	02/19/2011
SWMU-57-21811-B4-SS-2.5	L11020571-12	02/17/2011 09:45	02/19/2011
SWMU-57-21811-B7-SS-2	L11020571-13	02/17/2011 11:05	02/19/2011

L1_A_PROD_COVER - Modified 02/06/2008
PDF File ID: 1936836
Report generated: 03/04/2011 16:17

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number: **L11020571-01** | PrePrep Method: **NONE** | Instrument: **PE-ICP2**
Client ID: **SWMU-57-21711-EB** | Prep Method: **3005A** | Prep Date: **02/23/2011 07:36**
Matrix: **Water** | Analytical Method: **6010B** | Cal Date: **02/23/2011 09:44**
Workgroup Number: **WG357407** | Analyst: **PDM** | Run Date: **02/23/2011 17:36**
Collect Date: **02/17/2011 09:00** | Dilution: **1** | File ID: **P2.022311.173640**
Sample Tag: **01** | Units: **mg/L**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5		U	0.100	0.0500
Iron, Total	7439-89-6		U	0.100	0.0500

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020571-01** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-21711-EB** | Prep Method: **3015** | Prep Date: **02/23/2011 08:10**
Matrix: **Water** | Analytical Method: **6020** | Cal Date: **02/25/2011 10:03**
Workgroup Number: **WG357403** | Analyst: **JYH** | Run Date: **02/25/2011 13:52**
Collect Date: **02/17/2011 09:00** | Dilution: **1** | File ID: **EL.022511.135249**
Sample Tag: **01** | Units: **mg/L**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	0.00100	0.000500
Cadmium, Total	7440-43-9		U	0.000600	0.000300
Chromium, Total	7440-47-3	0.00118	J	0.00200	0.00100
Manganese, Total	7439-96-5	0.00168	J	0.00200	0.00100

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020571-02** | PrePrep Method: **NONE** | Instrument: **PE-ICP2**
Client ID: **SWMU-57-21711-FB** | Prep Method: **3005A** | Prep Date: **02/23/2011 07:36**
Matrix: **Water** | Analytical Method: **6010B** | Cal Date: **02/23/2011 09:44**
Workgroup Number: **WG357407** | Analyst: **PDM** | Run Date: **02/23/2011 17:43**
Collect Date: **02/17/2011 09:05** | Dilution: **1** | File ID: **P2.022311.174319**
Sample Tag: **01** | Units: **mg/L**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5		U	0.100	0.0500
Iron, Total	7439-89-6		U	0.100	0.0500

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020571-02** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-21711-FB** | Prep Method: **3015** | Prep Date: **02/23/2011 08:10**
Matrix: **Water** | Analytical Method: **6020** | Cal Date: **02/25/2011 10:03**
Workgroup Number: **WG357403** | Analyst: **JYH** | Run Date: **02/25/2011 13:59**
Collect Date: **02/17/2011 09:05** | Dilution: **1** | File ID: **EL.022511.135933**
Sample Tag: **01** | Units: **mg/L**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	0.00100	0.000500
Cadmium, Total	7440-43-9		U	0.000600	0.000300
Chromium, Total	7440-47-3		U	0.00200	0.00100
Manganese, Total	7439-96-5		U	0.00200	0.00100

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number: **L11020571-03** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-MS** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/23/2011 09:57**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/23/2011 15:29**
Collect Date: **02/17/2011 10:10** | Dilution: **1** | File ID: **T2.022311.152951**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	21.1		0.759	0.380

Sample Number: **L11020571-03** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-MS** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/25/2011 10:02**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/25/2011 10:42**
Collect Date: **02/17/2011 10:10** | Dilution: **200** | File ID: **T2.022511.104257**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	16800		3040	1520
Iron, Total	7439-89-6	33600		456	228
Manganese, Total	7439-96-5	352		75.9	38.0

Sample Number: **L11020571-03** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-21711-MS** | Prep Method: **3051A** | Prep Date: **02/23/2011 06:37**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **02/25/2011 10:03**
Workgroup Number: **WG357404** | Analyst: **JYH** | Run Date: **02/25/2011 18:34**
Collect Date: **02/17/2011 10:10** | Dilution: **5** | File ID: **EL.022511.183407**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	10.6		0.500	0.250
Chromium, Total	7440-47-3	27.4		2.00	1.00

Sample Number: **L11020571-04** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-MSD** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/23/2011 09:57**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/23/2011 15:33**
Collect Date: **02/17/2011 10:10** | Dilution: **1** | File ID: **T2.022311.153331**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	20.0		0.759	0.380

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number: **L11020571-04** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-MSD** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/25/2011 09:59**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/25/2011 10:46**
Collect Date: **02/17/2011 10:10** | Dilution: **200** | File ID: **T2.022511.104646**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	18100		3040	1520
Iron, Total	7439-89-6	32300		456	228
Manganese, Total	7439-96-5	175		75.9	38.0

Sample Number: **L11020571-04** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-21711-MSD** | Prep Method: **3051A** | Prep Date: **02/23/2011 06:37**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **02/25/2011 10:03**
Workgroup Number: **WG357404** | Analyst: **JYH** | Run Date: **02/25/2011 18:40**
Collect Date: **02/17/2011 10:10** | Dilution: **5** | File ID: **EL.022511.184054**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	10.5		0.500	0.250
Chromium, Total	7440-47-3	31.4		2.00	1.00

Sample Number: **L11020571-05** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-DUP** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/23/2011 09:57**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/23/2011 15:40**
Collect Date: **02/17/2011 10:10** | Dilution: **1** | File ID: **T2.022311.154049**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	1.10		0.758	0.379

Sample Number: **L11020571-05** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-DUP** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/25/2011 10:02**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/25/2011 10:54**
Collect Date: **02/17/2011 10:10** | Dilution: **200** | File ID: **T2.022511.105424**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	18200		3030	1520
Iron, Total	7439-89-6	34600		455	227
Manganese, Total	7439-96-5	178		75.8	37.9

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number: **L11020571-05** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-21711-DUP** | Prep Method: **3051A** | Prep Date: **02/23/2011 06:37**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **02/25/2011 10:03**
Workgroup Number: **WG357404** | Analyst: **JYH** | Run Date: **02/25/2011 18:47**
Collect Date: **02/17/2011 10:10** | Dilution: **5** | File ID: **EL.022511.184742**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.485	0.243
Chromium, Total	7440-47-3	15.5		1.94	0.971

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020571-06** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-B-5-SS-1-2** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/23/2011 09:57**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/23/2011 15:37**
Collect Date: **02/17/2011 10:10** | Dilution: **1** | File ID: **T2.022311.153710**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	1.15		0.759	0.380

Sample Number: **L11020571-06** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-B-5-SS-1-2** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/25/2011 09:59**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/25/2011 10:50**
Collect Date: **02/17/2011 10:10** | Dilution: **200** | File ID: **T2.022511.105035**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	18100		3040	1520
Iron, Total	7439-89-6	33800		456	228
Manganese, Total	7439-96-5	655		75.9	38.0

Sample Number: **L11020571-06** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-21711-B-5-SS-1-2** | Prep Method: **3051A** | Prep Date: **02/23/2011 06:37**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **02/25/2011 10:03**
Workgroup Number: **WG357404** | Analyst: **JYH** | Run Date: **02/25/2011 18:54**
Collect Date: **02/17/2011 10:10** | Dilution: **5** | File ID: **EL.022511.185430**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.500	0.250
Chromium, Total	7440-47-3	20.2		2.00	1.00

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number: **L11020571-07** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-B-2-SS-2.5** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/23/2011 09:57**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/23/2011 16:02**
Collect Date: **02/17/2011 10:55** | Dilution: **1** | File ID: **T2.022311.160240**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	10.5		0.737	0.368

Sample Number: **L11020571-07** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-B-2-SS-2.5** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/25/2011 10:02**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/25/2011 11:09**
Collect Date: **02/17/2011 10:55** | Dilution: **200** | File ID: **T2.022511.110925**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	17400		2950	1470
Iron, Total	7439-89-6	27000		442	221
Manganese, Total	7439-96-5	343		73.7	36.8

Sample Number: **L11020571-07** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-21711-B-2-SS-2.5** | Prep Method: **3051A** | Prep Date: **02/23/2011 06:37**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **02/25/2011 10:03**
Workgroup Number: **WG357404** | Analyst: **JYH** | Run Date: **02/25/2011 19:01**
Collect Date: **02/17/2011 10:55** | Dilution: **5** | File ID: **EL.022511.190118**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	2.53		0.466	0.233
Chromium, Total	7440-47-3	22.8		1.87	0.933

Sample Number: **L11020571-08** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-B-2-SS-5** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/23/2011 09:57**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/23/2011 16:06**
Collect Date: **02/17/2011 11:35** | Dilution: **1** | File ID: **T2.022311.160622**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	3.70		0.754	0.377

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number: **L11020571-08** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-B-2-SS-5** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/25/2011 10:02**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/25/2011 11:13**
Collect Date: **02/17/2011 11:35** | Dilution: **200** | File ID: **T2.022511.111314**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	13200		3010	1510
Iron, Total	7439-89-6	24200		452	226
Manganese, Total	7439-96-5	431		75.4	37.7

Sample Number: **L11020571-08** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-21711-B-2-SS-5** | Prep Method: **3051A** | Prep Date: **02/23/2011 06:37**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **02/25/2011 10:03**
Workgroup Number: **WG357404** | Analyst: **JYH** | Run Date: **02/25/2011 19:08**
Collect Date: **02/17/2011 11:35** | Dilution: **5** | File ID: **EL.022511.190805**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	0.395	J	0.487	0.244
Chromium, Total	7440-47-3	17.4		1.95	0.975

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Sample Number: **L11020571-09** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-B-1-SS-2.5** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/23/2011 09:57**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/23/2011 16:10**
Collect Date: **02/17/2011 12:05** | Dilution: **1** | File ID: **T2.022311.161002**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	3.12		0.726	0.363

Sample Number: **L11020571-09** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-B-1-SS-2.5** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/25/2011 10:02**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/25/2011 11:17**
Collect Date: **02/17/2011 12:05** | Dilution: **200** | File ID: **T2.022511.111703**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	15200		2900	1450
Iron, Total	7439-89-6	27900		436	218
Manganese, Total	7439-96-5	154		72.6	36.3

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number: **L11020571-09** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-21711-B-1-SS-2.5** | Prep Method: **3051A** | Prep Date: **02/23/2011 06:37**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **02/25/2011 10:03**
Workgroup Number: **WG357404** | Analyst: **JYH** | Run Date: **02/25/2011 19:28**
Collect Date: **02/17/2011 12:05** | Dilution: **5** | File ID: **EL.022511.192852**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.498	0.249
Chromium, Total	7440-47-3	13.9		1.99	0.996

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11020571-10** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-B-6-SS-2.5** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/23/2011 09:57**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/23/2011 16:13**
Collect Date: **02/17/2011 13:35** | Dilution: **1** | File ID: **T2.022311.161345**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	9.20		0.708	0.354

Sample Number: **L11020571-10** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21711-B-6-SS-2.5** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/25/2011 10:02**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/25/2011 11:28**
Collect Date: **02/17/2011 13:35** | Dilution: **200** | File ID: **T2.022511.112822**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	14900		2830	1420
Iron, Total	7439-89-6	26900		425	212
Manganese, Total	7439-96-5	229		70.8	35.4

Sample Number: **L11020571-10** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-21711-B-6-SS-2.5** | Prep Method: **3051A** | Prep Date: **02/23/2011 06:37**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **02/25/2011 10:03**
Workgroup Number: **WG357404** | Analyst: **JYH** | Run Date: **02/25/2011 19:35**
Collect Date: **02/17/2011 13:35** | Dilution: **5** | File ID: **EL.022511.193538**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	0.424	J	0.483	0.241
Chromium, Total	7440-47-3	13.9		1.93	0.965

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number: **L11020571-11** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21811-B3-SS-2** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/23/2011 09:57**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/23/2011 16:17**
Collect Date: **02/17/2011 08:55** | Dilution: **1** | File ID: **T2.022311.161728**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	3.42		0.667	0.334

Sample Number: **L11020571-11** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21811-B3-SS-2** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/25/2011 10:02**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/25/2011 12:28**
Collect Date: **02/17/2011 08:55** | Dilution: **400** | File ID: **T2.022511.122813**
Sample Tag: **DL02** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Iron, Total	7439-89-6	63500		801	400

Sample Number: **L11020571-11** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21811-B3-SS-2** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/25/2011 10:02**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/25/2011 11:32**
Collect Date: **02/17/2011 08:55** | Dilution: **200** | File ID: **T2.022511.113211**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	10300		2670	1330
Manganese, Total	7439-96-5	1240		66.7	33.4

Sample Number: **L11020571-11** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-21811-B3-SS-2** | Prep Method: **3051A** | Prep Date: **02/23/2011 06:37**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **02/25/2011 10:03**
Workgroup Number: **WG357404** | Analyst: **JYH** | Run Date: **02/25/2011 19:42**
Collect Date: **02/17/2011 08:55** | Dilution: **5** | File ID: **EL.022511.194224**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	1.71		0.470	0.235
Chromium, Total	7440-47-3	49.3		1.88	0.940

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number: **L11020571-12** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21811-B4-SS-2.5** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/23/2011 09:57**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/23/2011 16:21**
Collect Date: **02/17/2011 09:45** | Dilution: **1** | File ID: **T2.022311.162110**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	2.13		0.684	0.342

Sample Number: **L11020571-12** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21811-B4-SS-2.5** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/25/2011 10:02**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/25/2011 11:35**
Collect Date: **02/17/2011 09:45** | Dilution: **200** | File ID: **T2.022511.113559**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	20000		2740	1370
Iron, Total	7439-89-6	34700		411	205
Manganese, Total	7439-96-5	119		68.4	34.2

Sample Number: **L11020571-12** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-21811-B4-SS-2.5** | Prep Method: **3051A** | Prep Date: **02/23/2011 06:37**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **02/25/2011 10:03**
Workgroup Number: **WG357404** | Analyst: **JYH** | Run Date: **02/25/2011 19:49**
Collect Date: **02/17/2011 09:45** | Dilution: **5** | File ID: **EL.022511.194911**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	2.23		0.461	0.231
Chromium, Total	7440-47-3	31.0		1.85	0.923

Sample Number: **L11020571-13** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-21811-B7-SS-2** | Prep Method: **3051A** | Prep Date: **02/23/2011 12:17**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **02/23/2011 09:57**
Workgroup Number: **WG357401** | Analyst: **JYH** | Run Date: **02/23/2011 16:24**
Collect Date: **02/17/2011 11:05** | Dilution: **1** | File ID: **T2.022311.162450**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	0.640	J	0.742	0.371

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-13	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21811-B7-SS-2	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/25/2011 10:02
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/25/2011 11:39
Collect Date:	02/17/2011 11:05	Dilution:	200	File ID:	T2.022511.113947
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	15400		2970	1480
Iron, Total	7439-89-6	31500		445	223
Manganese, Total	7439-96-5	517		74.2	37.1

Sample Number:	L11020571-13	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-21811-B7-SS-2	Prep Method:	3051A	Prep Date:	02/23/2011 06:37
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/25/2011 10:03
Workgroup Number:	WG357404	Analyst:	JYH	Run Date:	02/25/2011 19:55
Collect Date:	02/17/2011 11:05	Dilution:	5	File ID:	EL.022511.195557
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.479	0.239
Chromium, Total	7440-47-3	25.3		1.92	0.958

U Analyte was not detected. The concentration is below the reported LOD.

Login Number: L11020571

Department: Login

Chain of Custody:

Shipment Conditions

COC #	Cooler #	Temperature
2399	5474	1.0

Sample Management: The RS, MS, SD samples have different collect times. Logged for the RS time of 1010.

Sample Identification

Lab ID	Client ID
L11020571-01	SWMU-57-21711-EB
L11020571-02	SWMU-57-21711-FB
L11020571-03	SWMU-57-21711-MS
L11020571-04	SWMU-57-21711-MSD
L11020571-05	SWMU-57-21711-DUP
L11020571-06	SWMU-57-21711-B-5-SS-1-2
L11020571-07	SWMU-57-21711-B-2-SS-2.5
L11020571-08	SWMU-57-21711-B-2-SS-5
L11020571-09	SWMU-57-21711-B-1-SS-2.5
L11020571-10	SWMU-57-21711-B-6-SS-2.5
L11020571-11	SWMU-57-21811-B3-SS-2
L11020571-12	SWMU-57-21811-B4-SS-2.5
L11020571-13	SWMU-57-21811-B7-SS-2

Narrative ID: 21928
Approved By: Stephanie Mossburg
Stephanie Mossburg

2.0 Full Sample Data Package

2.1 Metals Data

2.1.1 Metals I C P Data

2.1.1.1 Summary Data

Login Number: L11020571

Department: Metals

Analyst: Pierce Morris
Analyst #2: Ji Hu

METHOD

Preparation: SW-846 3005/3051

Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG357407 - All acceptance criteria were met.

WG357401 - Aluminum, iron, and manganese for client sample 01 was reported from the two hundred fold dilution where the two hundred fold post digestion spike dilution was compliant

Matrix Spikes: WG357401 - Sample 06 was chosen by the client for MS/MSD analysis. Samples 03(MS) and 04(MSD) yielded noncompliant recoveries for three analytes and a noncompliant RPD for manganese.

SAMPLES

Samples: WG357401 - Client samples 03 through 13 required dilution analyses in order to obtain results for aluminum, iron and manganese within the calibration range.

Narrative ID: 22071
Approved By: Sheri Pfalzgraf

LABORATORY REPORT

L11020571

03/04/11 16:17

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SWMU-57-21711-EB	L11020571-01	6010B	1	19-FEB-11
SWMU-57-21711-FB	L11020571-02	6010B	1	19-FEB-11
SWMU-57-21711-MS	L11020571-03	6010B	1	19-FEB-11
SWMU-57-21711-MS	L11020571-03	6010B	200	19-FEB-11
SWMU-57-21711-MSD	L11020571-04	6010B	1	19-FEB-11
SWMU-57-21711-MSD	L11020571-04	6010B	200	19-FEB-11
SWMU-57-21711-DUP	L11020571-05	6010B	1	19-FEB-11
SWMU-57-21711-DUP	L11020571-05	6010B	200	19-FEB-11
SWMU-57-21711-B-5-SS-1-2	L11020571-06	6010B	1	19-FEB-11
SWMU-57-21711-B-5-SS-1-2	L11020571-06	6010B	200	19-FEB-11
SWMU-57-21711-B-2-SS-2.5	L11020571-07	6010B	1	19-FEB-11
SWMU-57-21711-B-2-SS-2.5	L11020571-07	6010B	200	19-FEB-11
SWMU-57-21711-B-2-SS-5	L11020571-08	6010B	1	19-FEB-11
SWMU-57-21711-B-2-SS-5	L11020571-08	6010B	200	19-FEB-11
SWMU-57-21711-B-1-SS-2.5	L11020571-09	6010B	1	19-FEB-11
SWMU-57-21711-B-1-SS-2.5	L11020571-09	6010B	200	19-FEB-11
SWMU-57-21711-B-6-SS-2.5	L11020571-10	6010B	1	19-FEB-11
SWMU-57-21711-B-6-SS-2.5	L11020571-10	6010B	200	19-FEB-11
SWMU-57-21811-B3-SS-2	L11020571-11	6010B	1	19-FEB-11
SWMU-57-21811-B3-SS-2	L11020571-11	6010B	400	19-FEB-11
SWMU-57-21811-B3-SS-2	L11020571-11	6010B	200	19-FEB-11
SWMU-57-21811-B4-SS-2.5	L11020571-12	6010B	1	19-FEB-11
SWMU-57-21811-B4-SS-2.5	L11020571-12	6010B	200	19-FEB-11
SWMU-57-21811-B7-SS-2	L11020571-13	6010B	1	19-FEB-11
SWMU-57-21811-B7-SS-2	L11020571-13	6010B	200	19-FEB-11

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-01	PrePrep Method:	NONE	Instrument:	PE-ICP2
Client ID:	SWMU-57-21711-EB	Prep Method:	3005A	Prep Date:	02/23/2011 07:36
Matrix:	Water	Analytical Method:	6010B	Cal Date:	02/23/2011 09:44
Workgroup Number:	WG357407	Analyst:	PDM	Run Date:	02/23/2011 17:36
Collect Date:	02/17/2011 09:00	Dilution:	1	File ID:	P2.022311.173640
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5		U	0.100	0.0500
Iron, Total	7439-89-6		U	0.100	0.0500

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-02	PrePrep Method:	NONE	Instrument:	PE-ICP2
Client ID:	SWMU-57-21711-FB	Prep Method:	3005A	Prep Date:	02/23/2011 07:36
Matrix:	Water	Analytical Method:	6010B	Cal Date:	02/23/2011 09:44
Workgroup Number:	WG357407	Analyst:	PDM	Run Date:	02/23/2011 17:43
Collect Date:	02/17/2011 09:05	Dilution:	1	File ID:	P2.022311.174319
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5		U	0.100	0.0500
Iron, Total	7439-89-6		U	0.100	0.0500

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-03	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-MS	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/23/2011 09:57
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/23/2011 15:29
Collect Date:	02/17/2011 10:10	Dilution:	1	File ID:	T2.022311.152951
Sample Tag:	01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	21.1		0.759	0.380

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-03	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-MS	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/25/2011 10:02
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/25/2011 10:42
Collect Date:	02/17/2011 10:10	Dilution:	200	File ID:	T2.022511.104257
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	16800		3040	1520
Iron, Total	7439-89-6	33600		456	228
Manganese, Total	7439-96-5	352		75.9	38.0

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-04	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-MSD	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/23/2011 09:57
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/23/2011 15:33
Collect Date:	02/17/2011 10:10	Dilution:	1	File ID:	T2.022311.153331
Sample Tag:	01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	20.0		0.759	0.380

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-04	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-MSD	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/25/2011 09:59
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/25/2011 10:46
Collect Date:	02/17/2011 10:10	Dilution:	200	File ID:	T2.022511.104646
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	18100		3040	1520
Iron, Total	7439-89-6	32300		456	228
Manganese, Total	7439-96-5	175		75.9	38.0

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-05	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-DUP	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/23/2011 09:57
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/23/2011 15:40
Collect Date:	02/17/2011 10:10	Dilution:	1	File ID:	T2.022311.154049
Sample Tag:	01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	1.10		0.758	0.379

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-05	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-DUP	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/25/2011 10:02
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/25/2011 10:54
Collect Date:	02/17/2011 10:10	Dilution:	200	File ID:	T2.022511.105424
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	18200		3030	1520
Iron, Total	7439-89-6	34600		455	227
Manganese, Total	7439-96-5	178		75.8	37.9

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-06	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-B-5-SS-1-2	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/23/2011 09:57
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/23/2011 15:37
Collect Date:	02/17/2011 10:10	Dilution:	1	File ID:	T2.022311.153710
Sample Tag:	01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	1.15		0.759	0.380

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-06	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-B-5-SS-1-2	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/25/2011 09:59
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/25/2011 10:50
Collect Date:	02/17/2011 10:10	Dilution:	200	File ID:	T2.022511.105035
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	18100		3040	1520
Iron, Total	7439-89-6	33800		456	228
Manganese, Total	7439-96-5	655		75.9	38.0

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-07	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-B-2-SS-2.5	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/23/2011 09:57
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/23/2011 16:02
Collect Date:	02/17/2011 10:55	Dilution:	1	File ID:	T2.022311.160240
Sample Tag:	01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	10.5		0.737	0.368

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-07	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-B-2-SS-2.5	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/25/2011 10:02
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/25/2011 11:09
Collect Date:	02/17/2011 10:55	Dilution:	200	File ID:	T2.022511.110925
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	17400		2950	1470
Iron, Total	7439-89-6	27000		442	221
Manganese, Total	7439-96-5	343		73.7	36.8

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-08	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-B-2-SS-5	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/23/2011 09:57
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/23/2011 16:06
Collect Date:	02/17/2011 11:35	Dilution:	1	File ID:	T2.022311.160622
Sample Tag:	01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	3.70		0.754	0.377

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-08	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-B-2-SS-5	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/25/2011 10:02
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/25/2011 11:13
Collect Date:	02/17/2011 11:35	Dilution:	200	File ID:	T2.022511.111314
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	13200		3010	1510
Iron, Total	7439-89-6	24200		452	226
Manganese, Total	7439-96-5	431		75.4	37.7

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-09	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-B-1-SS-2.5	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/23/2011 09:57
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/23/2011 16:10
Collect Date:	02/17/2011 12:05	Dilution:	1	File ID:	T2.022311.161002
Sample Tag:	01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	3.12		0.726	0.363

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-09	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-B-1-SS-2.5	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/25/2011 10:02
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/25/2011 11:17
Collect Date:	02/17/2011 12:05	Dilution:	200	File ID:	T2.022511.111703
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	15200		2900	1450
Iron, Total	7439-89-6	27900		436	218
Manganese, Total	7439-96-5	154		72.6	36.3

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-10	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-B-6-SS-2.5	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/23/2011 09:57
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/23/2011 16:13
Collect Date:	02/17/2011 13:35	Dilution:	1	File ID:	T2.022311.161345
Sample Tag:	01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	9.20		0.708	0.354

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-10	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21711-B-6-SS-2.5	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/25/2011 10:02
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/25/2011 11:28
Collect Date:	02/17/2011 13:35	Dilution:	200	File ID:	T2.022511.112822
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	14900		2830	1420
Iron, Total	7439-89-6	26900		425	212
Manganese, Total	7439-96-5	229		70.8	35.4

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	**L11020571-11**	PrePrep Method:	**NONE**	Instrument:	**ICP-THERMO2**
Client ID:	**SWMU-57-21811-B3-SS-2**	Prep Method:	**3051A**	Prep Date:	**02/23/2011 12:17**
Matrix:	**Soil**	Analytical Method:	**6010B**	Cal Date:	**02/23/2011 09:57**
Workgroup Number:	**WG357401**	Analyst:	**JYH**	Run Date:	**02/23/2011 16:17**
Collect Date:	**02/17/2011 08:55**	Dilution:	**1**	File ID:	**T2.022311.161728**
Sample Tag:	**01**	Units:	**mg/kg**	Percent Solid:	**100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	**7440-36-0**	**3.42**		**0.667**	**0.334**

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-11	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21811-B3-SS-2	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/25/2011 10:02
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/25/2011 12:28
Collect Date:	02/17/2011 08:55	Dilution:	400	File ID:	T2.022511.122813
Sample Tag:	DL02	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Iron, Total	7439-89-6	63500		801	400

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-11	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21811-B3-SS-2	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/25/2011 10:02
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/25/2011 11:32
Collect Date:	02/17/2011 08:55	Dilution:	200	File ID:	T2.022511.113211
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	10300		2670	1330
Manganese, Total	7439-96-5	1240		66.7	33.4

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-12	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21811-B4-SS-2.5	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/23/2011 09:57
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/23/2011 16:21
Collect Date:	02/17/2011 09:45	Dilution:	1	File ID:	T2.022311.162110
Sample Tag:	01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	2.13		0.684	0.342

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-12	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21811-B4-SS-2.5	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/25/2011 10:02
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/25/2011 11:35
Collect Date:	02/17/2011 09:45	Dilution:	200	File ID:	T2.022511.113559
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	20000		2740	1370
Iron, Total	7439-89-6	34700		411	205
Manganese, Total	7439-96-5	119		68.4	34.2

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-13	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21811-B7-SS-2	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/23/2011 09:57
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/23/2011 16:24
Collect Date:	02/17/2011 11:05	Dilution:	1	File ID:	T2.022311.162450
Sample Tag:	01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	0.640	J	0.742	0.371

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-13	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-21811-B7-SS-2	Prep Method:	3051A	Prep Date:	02/23/2011 12:17
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	02/25/2011 10:02
Workgroup Number:	WG357401	Analyst:	JYH	Run Date:	02/25/2011 11:39
Collect Date:	02/17/2011 11:05	Dilution:	200	File ID:	T2.022511.113947
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	15400		2970	1480
Iron, Total	7439-89-6	31500		445	223
Manganese, Total	7439-96-5	517		74.2	37.1

2.1.1.2 QC Summary Data

Example 6010 Calculations
Perkin Elmer Optima 4300 DV

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system in ug/mL (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial volume (mL)	50
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/mL (mg/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (mg/L) (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial weight (g)	1
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/g (mg/kg)	5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	5
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (mg/kg)	6.25

Example 6010 Calculations
Thermo Scientific iCAP 6500

1.0 Initial Calibration (ICAL) Parameters
For a multi-point calibration, the system performs linear regression from data consisting of a blank and four standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system in ug/mL (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial volume (mL)	50
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/mL (mg/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (mg/L) (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial weight (g)	1
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/g (mg/kg)	5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	5
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (mg/kg)	6.25

Microbac Laboratories Inc.
Metals Digest Log

Workgroup: WG357312
Analyst: REK
Spike Analyst: REK
Method: 3005A
Run Date: 02/23/2011 07:36
Hotblock Start Temp: 95 @ 07:05
Hotblock End Temp: 95 @ 11:05

SOP: ME401 Revison 13
Spike Solution: STD39933
Spike Witness: VC
HNO3 Lot #: COA15168
HCL Lot #: COA15185
Digestion Tubes Lot #: COA15251

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG357312-03	BLANK	1	50 mL	50 mL		
2	WG357312-04	LCS	1	50 mL	50 mL	5 mL	
3	WG357312-01	REF	1	50 mL	50 mL		
4	L11020568-01	RS01	1	50 mL	50 mL		03/04/11
5	WG357312-05	MSD	1	50 mL	50 mL	5 mL	
6	L11020568-02	SD01	1	50 mL	50 mL	5 mL	03/04/11
7	WG357312-06	MS	1	50 mL	50 mL	5 mL	
8	L11020568-03	MS01	1	50 mL	50 mL	5 mL	03/04/11
9	WG357312-02	REF	1	50 mL	50 mL		
10	L11020569-01	RS01	1	50 mL	50 mL		03/04/11
11	WG357312-07	MSD	1	50 mL	50 mL	5 mL	
12	L11020569-02	SD01	1	50 mL	50 mL	5 mL	03/04/11
13	WG357312-08	MS	1	50 mL	50 mL	5 mL	
14	L11020569-03	MS01	1	50 mL	50 mL	5 mL	03/04/11
15	L11020571-01	SAMP	1	50 mL	50 mL		02/28/11
16	L11020571-02	SAMP	1	50 mL	50 mL		02/28/11
17	L11020574-01	SAMP	1	50 mL	50 mL		03/04/11
18	L11020579-01	SAMP	1	50 mL	50 mL		03/04/11
19	L11020579-02	SAMP	1	50 mL	50 mL		03/04/11

L11020574-01	filtered w/coa15138

Analyst:

Reviewer: Brenda Gregory

HB_DIG - Modified 09/30/2009
PDF ID: 1926730
Report generated: 02/23/2011 11:25

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG357371
Analyst: ERP
Spike Analyst: ERP
Run Date: 02/23/2011 12:17
Method: 3051A
Balance: BAL013
Instrument: MW-3

SOP: ME406 Revison 12
Spike Solution: STD39933
Spike Witness: BRG
HNO3 Lot #: COA15168
Digestion Tubes Lot #: COA15251
HCL Lot #: COA15079

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG357371-03	BLANK	7	1 g	50 mL	177.505 g	177.494 g		
2	WG357371-04	LCS	7	1 g	50 mL	182.641 g	182.614 g	5 mL	
3	L11020318-01	SAMP	7	1.359 g	50 mL	174.081 g	174.052 g		02/28/11
4	L11020318-02	SAMP	7	1.427 g	50 mL	176.654 g	176.636 g		02/28/11
5	L11020318-03	SAMP	7	1.335 g	50 mL	174.841 g	174.801 g		02/28/11
6	L11020318-04	SAMP	7	1.469 g	50 mL	177.74 g	177.706 g		02/28/11
7	L11020318-05	SAMP	7	1.323 g	50 mL	179.924 g	179.88 g		02/28/11
8	L11020318-06	SAMP	7	1.341 g	50 mL	178.242 g	178.251 g		02/28/11
9	L11020318-07	SAMP	7	1.418 g	50 mL	176.789 g	176.76 g		02/28/11
10	WG357371-01	REF	7	1.373 g	50 mL	175.62 g	175.606 g		
11	L11020318-08	RS01	7	1.373 g	50 mL	175.62 g	175.606 g		02/28/11
12	WG357371-05	MS	7	1.373 g	50 mL	181.895 g	181.876 g	5 mL	
13	L11020318-09	MS01	7	1.373 g	50 mL	181.895 g	181.876 g	5 mL	02/28/11
14	WG357371-06	MSD	7	1.373 g	50 mL	182.893 g	182.878 g	5 mL	
15	L11020318-10	SD01	7	1.373 g	50 mL	182.893 g	182.878 g	5 mL	02/28/11
16	WG357371-07	MS	7	1.317 g	50 mL	181.592 g	181.595 g	5 mL	
17	L11020571-03	MS01	7	1.317 g	50 mL	181.592 g	181.595 g	5 mL	02/28/11
18	WG357371-08	MSD	7	1.317 g	50 mL	184.734 g	184.73 g	5 mL	
19	L11020571-04	SD01	7	1.317 g	50 mL	184.734 g	184.73 g	5 mL	02/28/11
20	L11020571-05	SAMP	7	1.319 g	50 mL	176.332 g	176.322 g		02/28/11
21	WG357371-02	REF	7	1.317 g	50 mL	177.398 g	177.393 g		
22	L11020571-06	RS01	7	1.317 g	50 mL	177.398 g	177.393 g		02/28/11
23	L11020571-07	SAMP	7	1.357 g	50 mL	177.772 g	177.761 g		02/28/11
24	L11020571-08	SAMP	7	1.327 g	50 mL	175.836 g	175.822 g		02/28/11
25	L11020571-09	SAMP	7	1.377 g	50 mL	177.193 g	177.18 g		02/28/11
26	L11020571-10	SAMP	7	1.413 g	50 mL	176.95 g	176.907 g		02/28/11
27	L11020571-11	SAMP	7	1.499 g	50 mL	180.268 g	180.265 g		02/28/11
28	L11020571-12	SAMP	7	1.461 g	50 mL	177.207 g	177.205 g		02/28/11
29	L11020571-13	SAMP	7	1.348 g	50 mL	178.732 g	178.718 g		02/28/11
30	L11020589-01	SAMP	7	1.413 g	50 mL	176.742 g	176.723 g		02/24/11

L11020318-09	sample reacted to the spike
L11020318-10	sample reacted to the spike
L11020318-01	sample reacted to the acid
L11020318-02	sample reacted to the acid
L11020318-03	sample reacted to the acid
L11020318-04	sample reacted to the acid
L11020318-05	sample reacted to the acid

MW_DIG - Modified 09/30/2009
PDF ID: 1927139
Report generated: 02/23/2011 13:25

Microbac Laboratories Inc.
Microwave Digestion Log

L11020318-06	sample reacted to the acid
WG357371-05	sample reacted to the spike
WG357371-06	sample reacted to the spike

SOP:
Spike Solution:
Spike Witness:

Method:
Balance:
Analyst: Chris Potter
Instrument:

Reviewer: Vicki Collins

MW_DIG - Modified 09/30/2009
PDF ID: 1927139
Report generated: 02/23/2011 13:25

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 022311HR.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 10
Maintenance Log ID: 36542

Calibration Std: STD44101 ICV Std: STD43946 Post Spike: STD39932
ICSA: STD44050 ICSAB: STD44051 Int. Std: STD44052
CCV: STD44102 LLCCV:

Workgroups: 352834,357379,357405,357406,357407,357223,357117,357224

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	P2.022311.091744	WG357414-01	Calibration Point		1		02/23/11 09:17
2	P2.022311.092421	WG357414-02	Calibration Point		1		02/23/11 09:24
3	P2.022311.093103	WG357414-03	Calibration Point		1		02/23/11 09:31
4	P2.022311.093743	WG357414-04	Calibration Point		1		02/23/11 09:37
5	P2.022311.094423	WG357414-05	Calibration Point		1		02/23/11 09:44
6	P2.022311.095111	WG357414-06	Initial Calibration Verification		1		02/23/11 09:51
7	P2.022311.095752	WG357414-07	Initial Calib Blank		1		02/23/11 09:57
8	P2.022311.100429	WG357414-08	Interference Check		1		02/23/11 10:04
9	P2.022311.101011	WG357414-09	Interference Check		1		02/23/11 10:10
10	P2.022311.101555	WG357414-10	CCV		1		02/23/11 10:15
11	P2.022311.102234	WG357414-11	CCB		1		02/23/11 10:22
12	P2.022311.102915	WG357153-02	Method/Prep Blank	50/50	1		02/23/11 10:29
13	P2.022311.103555	WG357153-03	Laboratory Control S	50/50	1		02/23/11 10:35
14	P2.022311.104239	WG357153-01	Reference Sample		1	L11020504-01	02/23/11 10:42
15	P2.022311.104822	WG357153-04	Duplicate	50/50	1	L11020504-01	02/23/11 10:48
16	P2.022311.105409	WG357153-05	Matrix Spike	50/50	1	L11020504-01	02/23/11 10:54
17	P2.022311.105955	L11020522-01	1102-227-1	50/50	1		02/23/11 10:59
18	P2.022311.110633	L11020522-03	1102-228-1	50/50	1		02/23/11 11:06
19	P2.022311.111329	WG357234-01	Post Digestion Spike		1	L11020522-03	02/23/11 11:13
20	P2.022311.112014	WG357234-02	Serial Dilution		5	L11020522-03	02/23/11 11:20
21	P2.022311.112656	L11020523-11	1102-241-1	50/50	1		02/23/11 11:26
22	P2.022311.113346	WG357414-12	CCV		1		02/23/11 11:33
23	P2.022311.114029	WG357414-13	CCB		1		02/23/11 11:40
24	P2.022311.114706	L11020524-01	1102-184-1	50/50	1		02/23/11 11:47
25	P2.022311.115352	L11020524-02	1102-239-1	50/50	1		02/23/11 11:53
26	P2.022311.120034	L11020524-04	1102-240-1	50/50	1		02/23/11 12:00
27	P2.022311.120712	WG357414-14	CCV		1		02/23/11 12:07
28	P2.022311.121357	WG357414-15	CCB		1		02/23/11 12:13
29	P2.022311.125622	WG357322-02	Method/Prep Blank	5/50	1		02/23/11 12:56
30	P2.022311.130300	WG357322-03	Laboratory Control S	5/50	1		02/23/11 13:03
31	P2.022311.130938	WG357257-01	Fluid Blank		1		02/23/11 13:09
32	P2.022311.131621	WG357322-01	Reference Sample		1	L11020542-01	02/23/11 13:16
33	P2.022311.132302	WG357379-01	Post Digestion Spike		1	L11020542-01	02/23/11 13:23
34	P2.022311.132945	WG357379-02	Serial Dilution		5	L11020542-01	02/23/11 13:29

Page: 1 Approved: February 24, 2011

Sheri L. Babcock

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 022311HR.CSV

Analyst1: PDM Analyst2: N/A

Method: 6010 SOP: ME600E Rev: 10

Maintenance Log ID: 36542

Calibration Std: STD44101 ICV Std: STD43946 Post Spike: STD39932

ICSA: STD44050 ICSAB: STD44051 Int. Std: STD44052

CCV: STD44102 LLCCV:

Workgroups: 352834,357379,357405,357406,357407,357223,357117,357224

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	P2.022311.133628	WG357322-04	Matrix Spike	5/50	1	L11020542-01	02/23/11 13:36
36	P2.022311.134310	WG357322-05	Matrix Spike Duplica	5/50	1	L11020542-01	02/23/11 13:43
37	P2.022311.134954	WG357414-16	CCV		1		02/23/11 13:49
38	P2.022311.135633	WG357414-17	CCB		1		02/23/11 13:56
39	P2.022311.143500	WG357296-02	Method/Prep Blank	50/50	1		02/23/11 14:35
40	P2.022311.144814	WG357296-03	Laboratory Control S	50/50	1		02/23/11 14:48
41	P2.022311.145427	WG357296-01	Reference Sample		1	L11020562-01	02/23/11 14:54
42	P2.022311.150116	WG357296-04	Duplicate	50/50	1	L11020562-01	02/23/11 15:01
43	P2.022311.150755	WG357296-05	Matrix Spike	50/50	1	L11020562-01	02/23/11 15:07
44	P2.022311.151439	L11020586-01	001	50/50	1		02/23/11 15:14
45	P2.022311.152123	WG357405-01	Post Digestion Spike		1	L11020586-01	02/23/11 15:21
46	P2.022311.152808	WG357405-02	Serial Dilution		5	L11020586-01	02/23/11 15:28
47	P2.022311.153545	WG357414-18	CCV		1		02/23/11 15:35
48	P2.022311.154224	WG357414-19	CCB		1		02/23/11 15:42
49	P2.022311.154900	WG357295-01	Method/Prep Blank	1/50	1		02/23/11 15:49
50	P2.022311.155545	WG357295-02	Laboratory Control S	1/50	1		02/23/11 15:55
51	P2.022311.160224	WG357295-03	Laboratory Control S	1/50	1		02/23/11 16:02
52	P2.022311.160902	L11020439-01	24451 WW SLUDGE	1/50	1		02/23/11 16:09
53	P2.022311.161546	WG357406-01	Post Digestion Spike		1	L11020439-01	02/23/11 16:15
54	P2.022311.162230	WG357406-02	Serial Dilution		1	L11020439-01	02/23/11 16:22
55	P2.022311.162910	WG357414-20	CCV		1		02/23/11 16:29
56	P2.022311.163616	WG357414-21	CCB		1		02/23/11 16:36
57	P2.022311.164259	WG357312-03	Method/Prep Blank	50/50	1		02/23/11 16:42
58	P2.022311.164940	WG357312-04	Laboratory Control S	50/50	1		02/23/11 16:49
59	P2.022311.165621	WG357312-01	Reference Sample		1	L11020568-01	02/23/11 16:56
60	P2.022311.170300	WG357312-05	Matrix Spike Duplica	50/50	1	L11020568-01	02/23/11 17:03
61	P2.022311.170944	WG357312-06	Matrix Spike	50/50	1	L11020568-01	02/23/11 17:09
62	P2.022311.171633	WG357312-02	Reference Sample		1	L11020569-01	02/23/11 17:16
63	P2.022311.172312	WG357312-07	Matrix Spike Duplica	50/50	1	L11020569-01	02/23/11 17:23
64	P2.022311.172955	WG357312-08	Matrix Spike	50/50	1	L11020569-01	02/23/11 17:29
65	P2.022311.173640	L11020571-01	SWMU-57-21711-EB	50/50	1		02/23/11 17:36
66	P2.022311.174319	L11020571-02	SWMU-57-21711-FB	50/50	1		02/23/11 17:43
67	P2.022311.174959	WG357414-22	CCV		1		02/23/11 17:49
68	P2.022311.175639	WG357414-23	CCB		1		02/23/11 17:56

Page: 2 Approved: February 24, 2011

Esther L. Babgard

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 022311HR.CSV
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 10
Maintenance Log ID: 36542

Calibration Std: STD44101 ICV Std: STD43946 Post Spike: STD39932
ICSA: STD44050 ICSAB: STD44051 Int. Std: STD44052
CCV: STD44102 LLCCV:

Workgroups: 352834,357379,357405,357406,357407,357223,357117,357224

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	P2.022311.180322	L11020574-01	SWMU-57-1DM-21811-W	50/50	1		02/23/11 18:03
70	P2.022311.180908	WG357407-01	Post Digestion Spike		1	L11020574-01	02/23/11 18:09
71	P2.022311.181457	WG357407-02	Serial Dilution		5	L11020574-01	02/23/11 18:14
72	P2.022311.182136	L11020579-01	LH18/24-SP650-6445-GRAB	50/50	1		02/23/11 18:21
73	P2.022311.182823	L11020579-02	LH18/24-SP650-6445-COMP	50/50	1		02/23/11 18:28
74	P2.022311.183512	WG357414-24	CCV		1		02/23/11 18:35
75	P2.022311.184151	WG357414-25	CCB		1		02/23/11 18:41
76	P2.022311.184833	WG357204-02	Method/Prep Blank	5/50	1		02/23/11 18:48
77	P2.022311.185513	WG357204-03	Laboratory Control S	5/50	1		02/23/11 18:55
78	P2.022311.190156	WG357124-01	TCLP Fluid Blank 1		1		02/23/11 19:01
79	P2.022311.190841	WG357124-02	TCLP Fluid Blank 2		1		02/23/11 19:08
80	P2.022311.191522	L11020492-01	SWMU-57-POND-21711-W	5/50	1		02/23/11 19:15
81	P2.022311.192202	WG357223-03	Post Digestion Spike		1	L11020492-01	02/23/11 19:22
82	P2.022311.192845	WG357223-04	Serial Dilution		5	L11020492-01	02/23/11 19:28
83	P2.022311.193523	WG357204-01	Reference Sample		1	L11020535-01	02/23/11 19:35
84	P2.022311.194202	WG357204-04	Matrix Spike	5/50	1	L11020535-01	02/23/11 19:42
85	P2.022311.194844	WG357204-05	Matrix Spike Duplica	5/50	1	L11020535-01	02/23/11 19:48
86	P2.022311.195529	WG357414-26	CCV		1		02/23/11 19:55
87	P2.022311.200213	WG357414-27	CCB		1		02/23/11 20:02
88	P2.022311.200850	WG357047-02	Method/Prep Blank	50/50	1		02/23/11 20:08
89	P2.022311.201532	WG357047-03	Laboratory Control S	50/50	1		02/23/11 20:15
90	P2.022311.202215	WG357047-01	Reference Sample		1	L11020486-07	02/23/11 20:22
91	P2.022311.202854	WG357047-04	Matrix Spike	50/50	1	L11020486-07	02/23/11 20:28
92	P2.022311.203541	WG357047-05	Matrix Spike Duplica	50/50	1	L11020486-07	02/23/11 20:35
93	P2.022311.204221	L11020475-01	11228-W0001	50/50	1		02/23/11 20:42
94	P2.022311.204950	L11020492-02	SWMU-57-POND-21711-W	50/50	1		02/23/11 20:49
95	P2.022311.205634	WG357117-03	Post Digestion Spike		1	L11020492-02	02/23/11 20:56
96	P2.022311.210314	WG357117-04	Serial Dilution		5	L11020492-02	02/23/11 21:03
97	P2.022311.210956	WG357414-28	CCV		1		02/23/11 21:09
98	P2.022311.211634	WG357414-29	CCB		1		02/23/11 21:16
99	P2.022311.212311	L11020517-01	PSO2-GW-021811	50/50	5		02/23/11 21:23
100	P2.022311.212958	WG357414-30	Interference Check		1		02/23/11 21:29
101	P2.022311.213540	WG357414-31	Interference Check		1		02/23/11 21:35
102	P2.022311.214125	WG357414-32	CCV		1		02/23/11 21:41

Page: 3 Approved: February 24, 2011

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 022311HR.CSV

Analyst1: PDM Analyst2: N/A

Method: 6010 SOP: ME600E Rev: 10

Maintenance Log ID: 36542

Calibration Std: STD44101 ICV Std: STD43946 Post Spike: STD39932

ICSA: STD44050 ICSAB: STD44051 Int. Std: STD44052

CCV: STD44102 LLCCV:

Workgroups: 352834,357379,357405,357406,357407,357223,357117,357224

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	P2.022311.214805	WG357414-33	CCB		1		02/23/11 21:48

 Approved: February 24, 2011

Esther L. Babgard

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 022311T2.1R.TXT
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36541

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD44121
CCV: STD44047 LLCCV:

Workgroups: 357319,357244,357242,357283,357285,357370,357401,357321

Comments: Workgroups:357402,357179

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	T2.022311.094307	WG357413-01	Calibration Point		1		02/23/11 09:43
2	T2.022311.094652	WG357413-02	Calibration Point		1		02/23/11 09:46
3	T2.022311.095037	WG357413-03	Calibration Point		1		02/23/11 09:50
4	T2.022311.095423	WG357413-04	Calibration Point		1		02/23/11 09:54
5	T2.022311.095754	WG357413-05	Calibration Point		1		02/23/11 09:57
6	T2.022311.100127	WG357413-06	Initial Calibration Verification		1		02/23/11 10:01
7	T2.022311.100500	WG357413-07	Initial Calib Blank		1		02/23/11 10:05
8	T2.022311.100843	WG357413-08	Interference Check		1		02/23/11 10:08
9	T2.022311.101228	WG357413-09	Interference Check		1		02/23/11 10:12
10	T2.022311.101608	WG357413-10	CCV		1		02/23/11 10:16
11	T2.022311.101940	WG357413-11	CCB		1		02/23/11 10:19
12	T2.022311.103057	WG357236-02	Method/Prep Blank	1/50	1		02/23/11 10:30
13	T2.022311.103440	WG357236-03	Laboratory Control S	1/50	1		02/23/11 10:34
15	T2.022311.104209	WG357236-04	Matrix Spike	1.026/50	1	L11020416-22	02/23/11 10:42
16	T2.022311.104555	WG357236-05	Matrix Spike Duplica	1.026/50	1	L11020416-22	02/23/11 10:45
17	T2.022311.104940	L11020541-31	13073-C0005	1.021/50	5		02/23/11 10:49
18	T2.022311.105310	WG357319-01	Post Digestion Spike		5	L11020541-31	02/23/11 10:53
19	T2.022311.105634	WG357319-02	Serial Dilution		5	L11020541-31	02/23/11 10:56
20	T2.022311.110011	WG357319-02	Serial Dilution		5	L11020541-31	02/23/11 11:00
21	T2.022311.110351	L11020541-32	13073-C0006	1.038/50	5		02/23/11 11:03
22	T2.022311.110724	WG357413-12	CCV		1		02/23/11 11:07
23	T2.022311.111056	WG357413-13	CCB		1		02/23/11 11:10
24	T2.022311.111439	L11020541-33	13408-C0001	1.033/50	5		02/23/11 11:14
25	T2.022311.111812	L11020541-34	13408-C0002	1.015/50	5		02/23/11 11:18
26	T2.022311.112143	L11020541-35	13408-C0003	1.014/50	5		02/23/11 11:21
27	T2.022311.112514	L11020541-36	13408-C0004	1.01/50	5		02/23/11 11:25
28	T2.022311.112846	L11020541-37	13408-C0005	1.021/50	5		02/23/11 11:28
29	T2.022311.113217	L11020541-38	13408-G0001	1.033/50	5		02/23/11 11:32
30	T2.022311.113548	L11020541-39	13408-G0002	1.008/50	5		02/23/11 11:35
31	T2.022311.113917	L11020416-12	21-C0014	1.034/50	1		02/23/11 11:39
32	T2.022311.114301	L11020416-13	21-C0015	1.003/50	1		02/23/11 11:43
33	T2.022311.114645	L11020416-14	21-C0016	1.014/50	1		02/23/11 11:46
34	T2.022311.115034	WG357413-14	CCV		1		02/23/11 11:50
35	T2.022311.115405	WG357413-15	CCB		1		02/23/11 11:54

Page: 1 Approved: February 24, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 022311T2.1R.TXT
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36541

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD44121
CCV: STD44047 LLCCV:

Workgroups: 357319,357244,357242,357283,357285,357370,357401,357321

Comments: Workgroups:357402,357179

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
36	T2.022311.115749	L11020416-15	21-C0017	1.034/50	1		02/23/11 11:57
37	T2.022311.120137	L11020416-16	21-C0018	1.034/50	1		02/23/11 12:01
38	T2.022311.120524	L11020416-17	21-C0019	1.025/50	1		02/23/11 12:05
39	T2.022311.120907	L11020416-18	21-C0020	1.002/50	1		02/23/11 12:09
40	T2.022311.121255	L11020416-19	21-C0021	1.008/50	1		02/23/11 12:12
41	T2.022311.121642	L11020416-20	21-C0022	1.044/50	1		02/23/11 12:16
42	T2.022311.122030	L11020416-21	21-C0023	1.039/50	1		02/23/11 12:20
43	T2.022311.122415	L11020502-17	GB-81-5		2		02/23/11 12:24
44	T2.022311.122748	L11020538-43	10116-C0028	1.032/50	2		02/23/11 12:27
45	T2.022311.123130	WG357413-16	CCV		1		02/23/11 12:31
46	T2.022311.123502	WG357413-17	CCB		1		02/23/11 12:35
47	T2.022311.123842	L11020538-45	10116-C0030	1.007/50	2		02/23/11 12:38
48	T2.022311.124219	L11020540-01	10116-C0079	1.003/50	2		02/23/11 12:42
49	T2.022311.124556	WG357244-01	Post Digestion Spike		2	L11020540-01	02/23/11 12:45
50	T2.022311.124932	WG357244-02	Serial Dilution		10	L11020540-01	02/23/11 12:49
51	T2.022311.125306	WG357244-02	Serial Dilution		50	L11020540-01	02/23/11 12:53
52	T2.022311.125644	L11020540-41	10116-C0116	1.037/50	2		02/23/11 12:56
53	T2.022311.130024	L11020541-17	10116-C0138	1.029/50	2		02/23/11 13:00
54	T2.022311.130403	L11020541-05	10116-C0126	1.024/50	2		02/23/11 13:04
55	T2.022311.130742	L11020541-38	13408-G0001	1.033/50	2		02/23/11 13:07
56	T2.022311.131114	WG357413-18	CCV		1		02/23/11 13:11
57	T2.022311.131447	WG357413-19	CCB		1		02/23/11 13:14
58	T2.022311.131831	WG357349-02	Method/Prep Blank	1/50	1		02/23/11 13:18
59	T2.022311.132214	WG357349-03	Laboratory Control S	1/50	1		02/23/11 13:22
60	T2.022311.132557	L11020449-01	10624-C0008	1.015/50	5		02/23/11 13:25
61	T2.022311.132929	L11020449-02	12603-C0014	1.007/50	5		02/23/11 13:29
62	T2.022311.133258	L11020449-03	13364-C0014	1.022/50	5		02/23/11 13:32
63	T2.022311.133628	L11020418-35	2137-C0023	1.019/50	1		02/23/11 13:36
64	T2.022311.134001	WG357370-01	Post Digestion Spike		1	L11020418-35	02/23/11 13:40
65	T2.022311.134335	WG357370-02	Serial Dilution		5	L11020418-35	02/23/11 13:43
66	T2.022311.134705	WG357370-02	Serial Dilution		25	L11020418-35	02/23/11 13:47
67	T2.022311.135044	L11020418-36	2137-C0024	1.015/50	1		02/23/11 13:50
68	T2.022311.135420	WG357413-20	CCV		1		02/23/11 13:54
69	T2.022311.135751	WG357413-21	CCB		1		02/23/11 13:57

 Approved: February 24, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 022311T2.1R.TXT
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36541

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD44121
CCV: STD44047 LLCCV:

Workgroups: 357319,357244,357242,357283,357285,357370,357401,357321

Comments: Workgroups:357402,357179

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
70	T2.022311.140135	L11020418-37	2137-C0027	1.012/50	1		02/23/11 14:01
71	T2.022311.140521	L11020418-38	2137-C0028	1.025/50	1		02/23/11 14:05
72	T2.022311.140907	L11020418-39	2137-C0029	1.015/50	1		02/23/11 14:09
73	T2.022311.141240	L11020418-40	2137-C0030	1.021/50	1		02/23/11 14:12
74	T2.022311.141624	L11020418-41	2137-C0031	1.009/50	1		02/23/11 14:16
75	T2.022311.142002	L11020418-42	2137-C0032	1/50	1		02/23/11 14:20
76	T2.022311.142335	L11020418-43	2137-C0033	1.037/50	1		02/23/11 14:23
77	T2.022311.142717	L11020418-44	2137-C0034	1.007/50	1		02/23/11 14:27
78	T2.022311.143100	WG357349-01	Reference Sample		1	L11020418-45	02/23/11 14:31
79	T2.022311.143438	WG357349-04	Matrix Spike	1.005/50	1	L11020418-45	02/23/11 14:34
80	T2.022311.143817	WG357413-22	CCV		1		02/23/11 14:38
81	T2.022311.144149	WG357413-23	CCB		1		02/23/11 14:41
82	T2.022311.144530	WG357349-05	Matrix Spike Duplica	1.005/50	1	L11020418-45	02/23/11 14:45
83	T2.022311.144909	L11020418-48	2137-C0036	1.035/50	1		02/23/11 14:49
84	T2.022311.145257	L11020419-01	2137-C0037	1.012/50	1		02/23/11 14:52
85	T2.022311.145644	L11020419-02	2137-C0038	1.006/50	1		02/23/11 14:56
86	T2.022311.150031	L11020419-03	2137-C0039	1.045/50	1		02/23/11 15:00
87	T2.022311.150417	L11020419-04	2137-C0040	1.044/50	1		02/23/11 15:04
88	T2.022311.150800	L11020419-05	2137-C0041	1.009/50	1		02/23/11 15:08
89	T2.022311.151136	WG357413-24	CCV		1		02/23/11 15:11
90	T2.022311.151508	WG357413-25	CCB		1		02/23/11 15:15
91	T2.022311.151851	WG357371-03	Method/Prep Blank	1/50	1		02/23/11 15:18
92	T2.022311.152235	WG357371-04	Laboratory Control S	1/50	1		02/23/11 15:22
93	T2.022311.152605	L11020589-01	256SSA0203CA	1.413/50	1		02/23/11 15:26
94	T2.022311.152951	WG357371-07	Matrix Spike	1.317/50	1	L11020571-06	02/23/11 15:29
95	T2.022311.153331	WG357371-08	Matrix Spike Duplica	1.317/50	1	L11020571-06	02/23/11 15:33
96	T2.022311.153710	WG357371-02	Reference Sample		1	L11020571-06	02/23/11 15:37
97	T2.022311.154049	L11020571-05	SWMU-57-21711-DUP	1.319/50	1		02/23/11 15:40
98	T2.022311.154428	WG357401-01	Post Digestion Spike		1	L11020571-05	02/23/11 15:44
99	T2.022311.154807	WG357401-02	Serial Dilution		5	L11020571-05	02/23/11 15:48
100	T2.022311.155148	WG357401-02	Serial Dilution		25	L11020571-05	02/23/11 15:51
101	T2.022311.155527	WG357413-26	CCV		1		02/23/11 15:55
102	T2.022311.155858	WG357413-27	CCB		1		02/23/11 15:58
103	T2.022311.160240	L11020571-07	SWMU-57-21711-B-2-SS-2.5	1.357/50	1		02/23/11 16:02

Page: 3 Approved: February 24, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 022311T2.1R.TXT
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36541

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD44121
CCV: STD44047 LLCCV:

Workgroups: 357319,357244,357242,357283,357285,357370,357401,357321

Comments: Workgroups:357402,357179

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
104	T2.022311.160622	L11020571-08	SWMU-57-21711-B-2-SS-5	1.327/50	1		02/23/11 16:06
105	T2.022311.161002	L11020571-09	SWMU-57-21711-B-1-SS-2.5	1.377/50	1		02/23/11 16:10
106	T2.022311.161345	L11020571-10	SWMU-57-21711-B-6-SS-2.5	1.413/50	1		02/23/11 16:13
107	T2.022311.161728	L11020571-11	SWMU-57-21811-B3-SS-2	1.499/50	1		02/23/11 16:17
108	T2.022311.162110	L11020571-12	SWMU-57-21811-B4-SS-2.5	1.461/50	1		02/23/11 16:21
109	T2.022311.162450	L11020571-13	SWMU-57-21811-B7-SS-2	1.348/50	1		02/23/11 16:24
110	T2.022311.162831	L11020318-01	BATA-002	1.359/50	1		02/23/11 16:28
111	T2.022311.163221	L11020318-02	BATA-003	1.427/50	1		02/23/11 16:32
112	T2.022311.163614	L11020318-03	BATA-004	1.335/50	1		02/23/11 16:36
113	T2.022311.164007	WG357413-28	CCV		1		02/23/11 16:40
114	T2.022311.164337	WG357413-29	CCB		1		02/23/11 16:43
115	T2.022311.164719	WG357413-30	Linear Range Check		1		02/23/11 16:47
116	T2.022311.165059	WG357413-30	Linear Range Check		1		02/23/11 16:50
117	T2.022311.165441	L11020318-04	BATA-001	1.469/50	1		02/23/11 16:54
118	T2.022311.165825	L11020318-05	TD-001	1.323/50	1		02/23/11 16:58
119	T2.022311.170214	L11020318-06	TD-003	1.341/50	1		02/23/11 17:02
120	T2.022311.170556	L11020318-07	TD-002	1.418/50	1		02/23/11 17:05
121	T2.022311.170939	WG357371-01	Reference Sample		1	L11020318-08	02/23/11 17:09
122	T2.022311.171338	WG357371-05	Matrix Spike	1.373/50	1	L11020318-08	02/23/11 17:13
123	T2.022311.171735	WG357371-06	Matrix Spike Duplica	1.373/50	1	L11020318-08	02/23/11 17:17
124	T2.022311.172135	WG357413-31	CCV		1		02/23/11 17:21
125	T2.022311.172504	WG357413-32	CCB		1		02/23/11 17:25
126	T2.022311.172848	WG357238-02	Method/Prep Blank	1/50	1		02/23/11 17:28
127	T2.022311.173232	WG357238-03	Laboratory Control S	1/50	1		02/23/11 17:32
128	T2.022311.173613	L11020416-23	21-C0025	1.023/50	1		02/23/11 17:36
129	T2.022311.173959	WG357321-01	Post Digestion Spike		1	L11020416-23	02/23/11 17:39
130	T2.022311.174342	WG357321-02	Serial Dilution		5	L11020416-23	02/23/11 17:43
131	T2.022311.174711	WG357321-02	Serial Dilution		25	L11020416-23	02/23/11 17:47
132	T2.022311.175045	L11020416-24	21-C0026	1.024/50	1		02/23/11 17:50
133	T2.022311.175429	WG357238-01	Reference Sample		1	L11020416-25	02/23/11 17:54
134	T2.022311.175812	WG357238-04	Matrix Spike	1.007/50	1	L11020416-25	02/23/11 17:58
135	T2.022311.180154	WG357238-05	Matrix Spike Duplica	1.007/50	1	L11020416-25	02/23/11 18:01
136	T2.022311.180540	WG357413-33	CCV		1		02/23/11 18:05
137	T2.022311.180911	WG357413-34	CCB		1		02/23/11 18:09

Page: 4 Approved: February 24, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 022311T2.1R.TXT
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36541

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD44121
CCV: STD44047 LLCCV:

Workgroups: 357319,357244,357242,357283,357285,357370,357401,357321

Comments: Workgroups:357402,357179

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
138	T2.022311.181253	L11020416-28	21-C0028	1.016/50	1		02/23/11 18:12
139	T2.022311.181638	L11020416-29	21-C0029	1.036/50	1		02/23/11 18:16
140	T2.022311.182023	L11020416-30	21-C0030	1.009/50	1		02/23/11 18:20
141	T2.022311.182409	L11020416-31	21-C0031	1.037/50	1		02/23/11 18:24
142	T2.022311.182756	L11020416-32	21-C0032	1.028/50	1		02/23/11 18:27
143	T2.022311.183143	L11020416-33	21-C0033	1.007/50	1		02/23/11 18:31
144	T2.022311.183528	L11020416-34	21-C0034	1.029/50	1		02/23/11 18:35
145	T2.022311.183914	L11020416-35	21-C0035	1.009/50	1		02/23/11 18:39
146	T2.022311.184259	L11020416-36	21-C0036	1.015/50	1		02/23/11 18:42
147	T2.022311.184644	L11020416-37	21-C0037	1.012/50	1		02/23/11 18:46
148	T2.022311.185022	WG357413-35	CCV		1		02/23/11 18:50
149	T2.022311.185353	WG357413-36	CCB		1		02/23/11 18:53
150	T2.022311.185735	L11020416-38	21-C0038	1.012/50	1		02/23/11 18:57
151	T2.022311.190120	L11020416-39	21-C0039	1.036/50	1		02/23/11 19:01
152	T2.022311.190453	L11020416-40	21-C0040	1.029/50	1		02/23/11 19:04
153	T2.022311.190835	L11020416-41	21-C0041	1.019/50	1		02/23/11 19:08
154	T2.022311.191213	L11020416-42	21-C0042	1.024/50	1		02/23/11 19:12
155	T2.022311.191600	L11020416-43	21-C0043	1.021/50	1		02/23/11 19:16
156	T2.022311.191938	L11020416-44	21-C0044	1.032/50	1		02/23/11 19:19
157	T2.022311.192326	WG357413-37	CCV		1		02/23/11 19:23
158	T2.022311.192657	WG357413-38	CCB		1		02/23/11 19:26
159	T2.022311.193040	WG357336-02	Method/Prep Blank	1/50	1		02/23/11 19:30
160	T2.022311.193421	WG357336-03	Laboratory Control S	1/50	1		02/23/11 19:34
161	T2.022311.193800	L11020418-13	2137-C0001	1.042/50	1		02/23/11 19:38
162	T2.022311.194141	WG357402-01	Post Digestion Spike		1	L11020418-13	02/23/11 19:41
163	T2.022311.194520	WG357402-02	Serial Dilution		5	L11020418-13	02/23/11 19:45
164	T2.022311.194855	WG357402-02	Serial Dilution		25	L11020418-13	02/23/11 19:48
165	T2.022311.195229	L11020418-14	2137-C0002	1.009/50	1		02/23/11 19:52
166	T2.022311.195612	L11020418-15	2137-C0003	1.031/50	1		02/23/11 19:56
167	T2.022311.195956	L11020418-16	2137-C0004	1.004/50	1		02/23/11 19:59
168	T2.022311.200340	L11020418-17	2137-C0005	1.007/50	1		02/23/11 20:03
169	T2.022311.200724	WG357413-39	CCV		1		02/23/11 20:07
170	T2.022311.201055	WG357413-40	CCB		1		02/23/11 20:10
171	T2.022311.201438	L11020418-18	2137-C0006	1.01/50	1		02/23/11 20:14

Page: 5 Approved: February 24, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 022311T2.1R.TXT

Analyst1: JYH Analyst2: N/A

Method: 6010 SOP: ME600G Rev: 2

Maintenance Log ID: 36541

Calibration Std: STD44011 ICV Std: STD43628 Post Spike: STD39932

ICSA: STD43804 ICSAB: STD43751 Int. Std: STD44121

CCV: STD44047 LLCCV:

Workgroups: 357319,357244,357242,357283,357285,357370,357401,357321

Comments: Workgroups:357402,357179

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
172	T2.022311.201820	L11020418-19	2137-C0007	1.005/50	1		02/23/11 20:18
173	T2.022311.202154	L11020418-20	2137-C0008	1.02/50	1		02/23/11 20:21
174	T2.022311.202527	L11020418-21	2137-C0009	1.016/50	1		02/23/11 20:25
175	T2.022311.202857	L11020418-22	2137-C0010	1.03/50	1		02/23/11 20:28
179	T2.022311.204332	L11020418-26	2137-C0012	1.008/50	1		02/23/11 20:43
180	T2.022311.204715	L11020418-27	2137-C0013	1.034/50	1		02/23/11 20:47
181	T2.022311.205059	WG357413-41	CCV		1		02/23/11 20:50
182	T2.022311.205429	WG357413-42	CCB		1		02/23/11 20:54
183	T2.022311.205811	L11020418-28	2137-C0014	1.022/50	1		02/23/11 20:58
184	T2.022311.210155	L11020418-29	2137-C0017	1.025/50	1		02/23/11 21:01
185	T2.022311.210538	L11020418-30	2137-C0018	1.023/50	1		02/23/11 21:05
186	T2.022311.210922	L11020418-31	2137-C0019	1.012/50	1		02/23/11 21:09
187	T2.022311.211301	L11020418-32	2137-C0020	1.009/50	1		02/23/11 21:13
188	T2.022311.211643	L11020418-33	2137-C0021	1.016/50	1		02/23/11 21:16
189	T2.022311.212016	L11020418-34	2137-C0022	1.005/50	1		02/23/11 21:20
190	T2.022311.212355	L11020502-17	GB-81-5	1.356/50	5		02/23/11 21:23
191	T2.022311.212732	WG357413-43	CCV		1		02/23/11 21:27
192	T2.022311.213103	WG357413-44	CCB		1		02/23/11 21:31
193	T2.022311.103822	L11020416-22	21-C0024		1	WG357236-01	02/23/11 10:38
194	T2.022311.203227	WG357336-01	L1102041823		1	L11020418-23	02/23/11 20:32
195	T2.022311.203607	WG357336-04	L1102041824S	1.047/50	1	L11020418-24	02/23/11 20:36
196	T2.022311.203949	WG357336-05	L1102041825SD	1.047/50	1	L11020418-25	02/23/11 20:39
197	T2.022311.213447	AIR101	AIR101		1		02/23/11 21:34
198	T2.022311.213829	AIR102	AIR102		1		02/23/11 21:38
199	T2.022311.214212	AIR103	AIR103		1		02/23/11 21:42
200	T2.022311.214556	AIR104	AIR104		1		02/23/11 21:45
201	T2.022311.214939	AIR105	AIR105		1		02/23/11 21:49
202	T2.022311.215322	AIR106	AIR106		1		02/23/11 21:53
203	T2.022311.215708	AIR107	AIR107		1		02/23/11 21:57
204	T2.022311.220053	AIR108	AIR108		1		02/23/11 22:00

 Approved: February 24, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 022511T2.1R.TXT
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36567

Calibration Std: STD44011 ICV Std: STD44098 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD44121
CCV: STD44120 LLCCV:

Workgroups: 357401,357551,357626,357516,357601

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	T2.022511.094733	WG357631-01	Calibration Point		1		02/25/11 09:47
2	T2.022511.095125	WG357631-02	Calibration Point		1		02/25/11 09:51
3	T2.022511.095516	WG357631-03	Calibration Point		1		02/25/11 09:55
4	T2.022511.095909	WG357631-04	Calibration Point		1		02/25/11 09:59
5	T2.022511.100246	WG357631-05	Calibration Point		1		02/25/11 10:02
6	T2.022511.100625	WG357631-06	Initial Calibration Verification		1		02/25/11 10:06
7	T2.022511.101003	WG357631-07	Initial Calib Blank		1		02/25/11 10:10
8	T2.022511.101354	WG357631-08	Interference Check		1		02/25/11 10:13
9	T2.022511.101745	WG357631-09	Interference Check		1		02/25/11 10:17
10	T2.022511.102131	WG357371-07	Matrix Spike		200	L11020571-06	02/25/11 10:21
11	T2.022511.103531	WG357631-10	CCV		1		02/25/11 10:35
12	T2.022511.103907	WG357631-11	CCB		1		02/25/11 10:39
13	T2.022511.104257	WG357371-07	Matrix Spike	1.317/50	200	L11020571-06	02/25/11 10:42
14	T2.022511.104646	WG357371-08	Matrix Spike Duplica	1.317/50	200	L11020571-06	02/25/11 10:46
15	T2.022511.105035	WG357371-02	Reference Sample		200	L11020571-06	02/25/11 10:50
16	T2.022511.105424	L11020571-05	SWMU-57-21711-DUP	1.319/50	200		02/25/11 10:54
17	T2.022511.105811	WG357401-01	Post Digestion Spike		200	L11020571-05	02/25/11 10:58
18	T2.022511.110149	WG357401-02	Serial Dilution		1000	L11020571-05	02/25/11 11:01
19	T2.022511.110537	WG357401-02	Serial Dilution		5000	L11020571-05	02/25/11 11:05
20	T2.022511.110925	L11020571-07	SWMU-57-21711-B-2-SS-2.5	1.357/50	200		02/25/11 11:09
21	T2.022511.111314	L11020571-08	SWMU-57-21711-B-2-SS-5	1.327/50	200		02/25/11 11:13
22	T2.022511.111703	L11020571-09	SWMU-57-21711-B-1-SS-2.5	1.377/50	200		02/25/11 11:17
23	T2.022511.112054	WG357631-12	CCV		1		02/25/11 11:20
24	T2.022511.112431	WG357631-13	CCB		1		02/25/11 11:24
25	T2.022511.112822	L11020571-10	SWMU-57-21711-B-6-SS-2.5	1.413/50	200		02/25/11 11:28
26	T2.022511.113211	L11020571-11	SWMU-57-21811-B3-SS-2	1.499/50	200		02/25/11 11:32
27	T2.022511.113559	L11020571-12	SWMU-57-21811-B4-SS-2.5	1.461/50	200		02/25/11 11:35
28	T2.022511.113947	L11020571-13	SWMU-57-21811-B7-SS-2	1.348/50	200		02/25/11 11:39
29	T2.022511.114335	L11020318-01	BATA-002	1.359/50	50		02/25/11 11:43
30	T2.022511.114718	L11020318-02	BATA-003	1.427/50	50		02/25/11 11:47
31	T2.022511.115059	L11020318-03	BATA-004	1.335/50	50		02/25/11 11:50
32	T2.022511.115440	L11020318-04	BATA-001	1.469/50	50		02/25/11 11:54
33	T2.022511.115822	L11020318-05	TD-001	1.323/50	50		02/25/11 11:58
34	T2.022511.120203	L11020318-06	TD-003	1.341/50	50		02/25/11 12:02

Page: 1 Approved: February 28, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 022511T2.1R.TXT
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36567

Calibration Std: STD44011 ICV Std: STD44098 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD44121
CCV: STD44120 LLCCV:

Workgroups: 357401,357551,357626,357516,357601

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	T2.022511.120551	WG357631-14	CCV		1		02/25/11 12:05
36	T2.022511.120929	WG357631-15	CCB		1		02/25/11 12:09
37	T2.022511.121320	L11020318-07	TD-002	1.418/50	50		02/25/11 12:13
38	T2.022511.121706	WG357371-01	Reference Sample		50	L11020318-08	02/25/11 12:17
39	T2.022511.122049	WG357371-05	Matrix Spike	1.373/50	50	L11020318-08	02/25/11 12:20
40	T2.022511.122431	WG357371-06	Matrix Spike Duplica	1.373/50	50	L11020318-08	02/25/11 12:24
41	T2.022511.122813	L11020571-11	SWMU-57-21811-B3-SS-2	1.499/50	400		02/25/11 12:28
42	T2.022511.123201	L11020318-04	BATA-001	1.469/50	10		02/25/11 12:32
43	T2.022511.123557	WG357631-16	CCV		1		02/25/11 12:35
44	T2.022511.123935	WG357631-17	CCB		1		02/25/11 12:39
45	T2.022511.124326	WG357500-02	Method/Prep Blank	1/50	1		02/25/11 12:43
46	T2.022511.124717	WG357500-03	Laboratory Control S	1/50	1		02/25/11 12:47
47	T2.022511.125107	L11020425-06	392-C0138	1.005/50	1		02/25/11 12:51
48	T2.022511.125500	L11020425-07	392-C0139	1.024/50	1		02/25/11 12:55
49	T2.022511.125851	WG357551-01	Post Digestion Spike		1	L11020425-07	02/25/11 12:58
50	T2.022511.130239	WG357551-02	Serial Dilution		5	L11020425-07	02/25/11 13:02
51	T2.022511.130617	WG357551-02	Serial Dilution		25	L11020425-07	02/25/11 13:06
52	T2.022511.131001	L11020425-08	392-C0140	1.046/50	1		02/25/11 13:10
53	T2.022511.131354	L11020425-09	392-C0141	1.024/50	1		02/25/11 13:13
54	T2.022511.131738	L11020425-10	392-C0142	1.034/50	1		02/25/11 13:17
55	T2.022511.132125	WG357631-18	CCV		1		02/25/11 13:21
56	T2.022511.132502	WG357631-19	CCB		1		02/25/11 13:25
57	T2.022511.132851	WG357500-01	Reference Sample		1	L11020425-11	02/25/11 13:28
58	T2.022511.133231	WG357500-04	Matrix Spike	1.018/50	1	L11020425-11	02/25/11 13:32
59	T2.022511.133614	WG357500-05	Matrix Spike Duplica	1.018/50	1	L11020425-11	02/25/11 13:36
60	T2.022511.133956	L11020425-14	392-C0144	1/50	1		02/25/11 13:39
61	T2.022511.134339	L11020425-15	392-C0145	1.038/50	1		02/25/11 13:43
62	T2.022511.134724	L11020425-16	392-C0146	1.04/50	1		02/25/11 13:47
63	T2.022511.135116	L11020425-17	392-C0147	1.049/50	1		02/25/11 13:51
64	T2.022511.135509	L11020425-18	392-C0148	1.036/50	1		02/25/11 13:55
65	T2.022511.135901	L11020425-19	392-C0149	1.032/50	1		02/25/11 13:59
66	T2.022511.140302	L11020425-20	392-C0150	1/50	1		02/25/11 14:03
67	T2.022511.140654	WG357631-20	CCV		1		02/25/11 14:06
68	T2.022511.141032	WG357631-21	CCB		1		02/25/11 14:10

Page: 2 Approved: February 28, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 022511T2.1R.TXT
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36567

Calibration Std: STD44011 ICV Std: STD44098 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD44121
CCV: STD44120 LLCCV:

Workgroups: 357401,357551,357626,357516,357601

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	T2.022511.141422	L11020425-21	392-C0151	1.032/50	1		02/25/11 14:14
70	T2.022511.141812	L11020425-22	392-C0152	1.016/50	1		02/25/11 14:18
71	T2.022511.142204	L11020425-23	392-C0153	1.012/50	1		02/25/11 14:22
72	T2.022511.142555	L11020425-24	392-C0154	1.001/50	1		02/25/11 14:25
73	T2.022511.142949	L11020425-25	392-C0155	1.025/50	1		02/25/11 14:29
74	T2.022511.143342	L11020425-26	392-C0156	1.01/50	1		02/25/11 14:33
75	T2.022511.143734	L11020425-27	392-C0157	1.012/50	1		02/25/11 14:37
76	T2.022511.144118	WG357631-22	CCV		1		02/25/11 14:41
77	T2.022511.144456	WG357631-23	CCB		1		02/25/11 14:44
78	T2.022511.144845	WG357587-02	Method/Prep Blank	1/50	1		02/25/11 14:48
79	T2.022511.145234	WG357587-03	Laboratory Control S	1/50	1		02/25/11 14:52
80	T2.022511.145623	L11020478-15	11577-C0022	1.002/50	5		02/25/11 14:56
81	T2.022511.150001	WG357626-01	Post Digestion Spike		5	L11020478-15	02/25/11 15:00
82	T2.022511.150333	WG357626-02	Serial Dilution		25	L11020478-15	02/25/11 15:03
83	T2.022511.150714	WG357626-02	Serial Dilution		125	L11020478-15	02/25/11 15:07
84	T2.022511.151101	L11020478-16	11577-C0023	1.012/50	5		02/25/11 15:11
85	T2.022511.151437	L11020478-17	11577-C0025	1.005/50	5		02/25/11 15:14
86	T2.022511.151814	L11020478-18	11577-C0026	1.001/50	5		02/25/11 15:18
87	T2.022511.152151	L11020478-19	11577-C0027	1.005/50	5		02/25/11 15:21
88	T2.022511.152530	WG357631-24	CCV		1		02/25/11 15:25
89	T2.022511.152907	WG357631-25	CCB		1		02/25/11 15:29
90	T2.022511.153254	L11020478-20	11577-C0028	1.01/50	5		02/25/11 15:32
91	T2.022511.153632	L11020478-21	11577-C0029	1.017/50	5		02/25/11 15:36
92	T2.022511.154011	L11020478-22	11577-C0031	1.002/50	5		02/25/11 15:40
93	T2.022511.154350	L11020478-23	11577-C0032	1.003/50	5		02/25/11 15:43
94	T2.022511.154728	L11020478-24	11582-C0001	1.001/50	5		02/25/11 15:47
95	T2.022511.155106	L11020478-25	11582-C0002	1.004/50	5		02/25/11 15:51
96	T2.022511.155442	L11020478-26	11582-C0003	1.018/50	5		02/25/11 15:54
97	T2.022511.155819	L11020478-27	11582-C0004	1.013/50	5		02/25/11 15:58
98	T2.022511.160157	L11020478-28	11582-C0005	1.025/50	5		02/25/11 16:01
99	T2.022511.160533	L11020478-29	11582-C0006	1.005/50	5		02/25/11 16:05
100	T2.022511.160913	WG357631-26	CCV		1		02/25/11 16:09
101	T2.022511.161249	WG357631-27	CCB		1		02/25/11 16:12
102	T2.022511.161637	L11020478-30	11582-C0007	1.023/50	5		02/25/11 16:16

 Approved: February 28, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 022511T2.1R.TXT
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36567

Calibration Std: STD44011 ICV Std: STD44098 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD44121
CCV: STD44120 LLCCV:

Workgroups: 357401,357551,357626,357516,357601

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	T2.022511.162014	L11020478-31	11582-C0008	1.021/50	5		02/25/11 16:20
104	T2.022511.162351	L11020478-32	11582-C0009	1.023/50	5		02/25/11 16:23
105	T2.022511.162729	L11020478-33	11582-C0010	1.003/50	5		02/25/11 16:27
106	T2.022511.163108	WG357587-01	Reference Sample		5	L11020478-34	02/25/11 16:31
107	T2.022511.163447	WG357587-04	Matrix Spike	1.018/50	5	L11020478-34	02/25/11 16:34
108	T2.022511.163826	WG357587-05	Matrix Spike Duplica	1.018/50	5	L11020478-34	02/25/11 16:38
109	T2.022511.164205	WG357631-28	CCV		1		02/25/11 16:42
110	T2.022511.164541	WG357631-29	CCB		1		02/25/11 16:45
111	T2.022511.164932	L11020423-02	392-C0046	1.015/50	1		02/25/11 16:49
112	T2.022511.165324	WG357516-01	Post Digestion Spike		1	L11020423-02	02/25/11 16:53
113	T2.022511.165714	WG357516-02	Serial Dilution		5	L11020423-02	02/25/11 16:57
114	T2.022511.170052	WG357516-02	Serial Dilution		25	L11020423-02	02/25/11 17:00
115	T2.022511.170435	L11020423-03	392-C0047	1.044/50	1		02/25/11 17:04
116	T2.022511.170817	L11020423-04	392-C0048	1.019/50	1		02/25/11 17:08
117	T2.022511.171210	L11020423-05	392-C0049	1/50	1		02/25/11 17:12
118	T2.022511.171551	L11020423-06	392-C0050	1.002/50	1		02/25/11 17:15
119	T2.022511.171941	L11020423-07	392-C0051	1.032/50	1		02/25/11 17:19
120	T2.022511.172321	L11020423-08	392-C0052	1.009/50	1		02/25/11 17:23
121	T2.022511.172712	WG357631-30	CCV		1		02/25/11 17:27
122	T2.022511.173049	WG357631-31	CCB		1		02/25/11 17:30
123	T2.022511.173437	WG357473-01	Reference Sample		1	L11020423-09	02/25/11 17:34
124	T2.022511.173821	WG357473-04	Matrix Spike	1.043/50	1	L11020423-09	02/25/11 17:38
125	T2.022511.174204	WG357473-05	Matrix Spike Duplica	1.043/50	1	L11020423-09	02/25/11 17:42
126	T2.022511.174547	L11020423-12	392-C0054	1.046/50	1		02/25/11 17:45
127	T2.022511.174938	L11020423-13	392-C0055	1.039/50	1		02/25/11 17:49
128	T2.022511.175330	L11020423-14	392-C0056	1/50	1		02/25/11 17:53
129	T2.022511.175721	L11020423-15	392-C0057	1.001/50	1		02/25/11 17:57
130	T2.022511.180113	WG357631-32	CCV		1		02/25/11 18:01
131	T2.022511.180449	WG357631-33	CCB		1		02/25/11 18:04
132	T2.022511.180837	WG357511-02	Method/Prep Blank		1		02/25/11 18:08
133	T2.022511.181225	WG357511-03	Laboratory Control S		1		02/25/11 18:12
134	T2.022511.181612	L11020476-01	11228-C0001		5		02/25/11 18:16
135	T2.022511.181947	WG357602-01	Post Digestion Spike		5	L11020476-01	02/25/11 18:19
136	T2.022511.182318	WG357602-02	Serial Dilution		5	L11020476-01	02/25/11 18:23

Page: 4 Approved: February 28, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 022511T2.1R.TXT
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36567

Calibration Std: STD44011 ICV Std: STD44098 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD44121
CCV: STD44120 LLCCV:

Workgroups: 357401,357551,357626,357516,357601

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
137	T2.022511.182701	WG357602-02	Serial Dilution		5	L11020476-01	02/25/11 18:27
138	T2.022511.183048	L11020476-02	11228-C0002		5		02/25/11 18:30
139	T2.022511.183425	L11020476-03	11228-C0003		5		02/25/11 18:34
140	T2.022511.183803	L11020476-04	11228-C0004		5		02/25/11 18:38
141	T2.022511.184140	L11020476-05	11228-C0005		5		02/25/11 18:41
142	T2.022511.184519	WG357631-34	CCV		1		02/25/11 18:45
143	T2.022511.184855	WG357631-35	CCB		1		02/25/11 18:48
144	T2.022511.185244	L11020476-06	11228-C0007		5		02/25/11 18:52
145	T2.022511.185620	L11020476-07	11229-C0001		5		02/25/11 18:56
146	T2.022511.185957	L11020476-08	11229-C0002		5		02/25/11 18:59
147	T2.022511.190333	L11020476-09	11229-C0003		5		02/25/11 19:03
148	T2.022511.190708	L11020476-10	11229-C0005		5		02/25/11 19:07
149	T2.022511.191044	L11020476-11	11229-C0007		5		02/25/11 19:10
150	T2.022511.191419	L11020476-12	11229-C0009		5		02/25/11 19:14
151	T2.022511.191758	WG357511-01	Reference Sample		5	L11020476-13	02/25/11 19:17
152	T2.022511.192136	WG357511-04	Matrix Spike		5	L11020476-13	02/25/11 19:21
153	T2.022511.192515	WG357511-05	Matrix Spike Duplica		5	L11020476-13	02/25/11 19:25
154	T2.022511.192853	WG357631-36	CCV		1		02/25/11 19:28
155	T2.022511.193230	WG357631-37	CCB		1		02/25/11 19:32
156	T2.022511.193619	L11020476-16	11229-C0011		5		02/25/11 19:36
157	T2.022511.193957	L11020476-17	11229-C0012		5		02/25/11 19:39
158	T2.022511.194334	L11020476-18	11230-C0001		5		02/25/11 19:43
159	T2.022511.194710	L11020476-19	11230-C0003		5		02/25/11 19:47
160	T2.022511.195045	L11020476-20	11230-C0004		5		02/25/11 19:50
161	T2.022511.195420	L11020476-21	11230-C0005		5		02/25/11 19:54
162	T2.022511.195756	L11020476-22	11571-C0001		5		02/25/11 19:57
163	T2.022511.200136	WG357631-38	CCV		1		02/25/11 20:01
164	T2.022511.200513	WG357631-39	CCB		1		02/25/11 20:05
165	T2.022511.200902	WG357505-02	Method/Prep Blank	1/50	1		02/25/11 20:09
166	T2.022511.201252	WG357505-03	Laboratory Control S	1/50	1		02/25/11 20:12
167	T2.022511.201640	L11020425-28	392-C0158	1.022/50	1		02/25/11 20:16
168	T2.022511.202030	WG357601-01	Post Digestion Spike		1	L11020425-28	02/25/11 20:20
169	T2.022511.202420	WG357601-02	Serial Dilution		5	L11020425-28	02/25/11 20:24
170	T2.022511.202755	WG357601-02	Serial Dilution		25	L11020425-28	02/25/11 20:27

Page: 5 Approved: February 28, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 022511T2.1R.TXT
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36567

Calibration Std: STD44011 ICV Std: STD44098 Post Spike: STD39932
ICSA: STD43804 ICSAB: STD43751 Int. Std: STD44121
CCV: STD44120 LLCCV:

Workgroups: 357401,357551,357626,357516,357601

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
171	T2.022511.203136	L11020425-29	392-C0159	1.004/50	1		02/25/11 20:31
172	T2.022511.203527	L11020425-30	392-C0160	1.007/50	1		02/25/11 20:35
173	T2.022511.203907	L11020425-31	392-C0161	1.044/50	1		02/25/11 20:39
174	T2.022511.204255	L11020425-32	392-C0162	1.033/50	1		02/25/11 20:42
175	T2.022511.204647	WG357631-40	CCV		1		02/25/11 20:46
176	T2.022511.205024	WG357631-41	CCB		1		02/25/11 20:50
177	T2.022511.205412	L11020425-33	392-C0163	1.013/50	1		02/25/11 20:54
178	T2.022511.205801	L11020425-34	392-C0164	1.048/50	1		02/25/11 20:58
179	T2.022511.210154	L11020425-35	392-C0165	1.012/50	1		02/25/11 21:01
180	T2.022511.210545	L11020425-36	392-C0166	1.012/50	1		02/25/11 21:05
181	T2.022511.210939	L11020425-37	392-C0167	1.015/50	1		02/25/11 21:09
182	T2.022511.211330	L11020425-38	413-C0001	1.021/50	1		02/25/11 21:13
183	T2.022511.211709	L11020425-39	413-C0002	1.042/50	1		02/25/11 21:17
184	T2.022511.212057	L11020425-40	413-C0003		1	WG357505-01	02/25/11 21:20
185	T2.022511.212439	L11020425-41	413-C0003-MS	1.02/50	1	WG357505-04	02/25/11 21:24
186	T2.022511.212821	L11020425-42	413-C0003-MSD	1.02/50	1	WG357505-05	02/25/11 21:28
187	T2.022511.213205	WG357631-42	CCV		1		02/25/11 21:32
188	T2.022511.213541	WG357631-43	CCB		1		02/25/11 21:35
189	T2.022511.213930	L11020425-43	413-C0004	1.031/50	1		02/25/11 21:39
190	T2.022511.214319	L11020425-44	413-C0005	1.014/50	1		02/25/11 21:43
191	T2.022511.214658	L11020425-45	413-C0006	1.044/50	1		02/25/11 21:46
192	T2.022511.215037	L11020425-46	413-C0007	1.036/50	1		02/25/11 21:50
193	T2.022511.215423	L11020425-47	413-C0008	1.031/50	1		02/25/11 21:54
194	T2.022511.215813	L11020425-48	413-C0009	1.038/50	1		02/25/11 21:58
195	T2.022511.220206	L11020426-01	413-C0010	1.038/50	1		02/25/11 22:02
196	T2.022511.220559	WG357631-44	CCV		1		02/25/11 22:05
197	T2.022511.220936	WG357631-45	CCB		1		02/25/11 22:09

Comments

Seq.	Rerun	Dil.	Reason	Analytes
10			Analyzed by mistake. The data was not used.	

 Approved: February 28, 2011

Maren Berry

Microbac Laboratories Inc.

Data Checklist

Date: 23-FEB-2011
Analyst: PDM
Analyst: NA
Method: 6010
Instrument: PE-ICP2
Curve Workgroup: 357414
Runlog ID: 39181
Analytical Workgroups: 352834,357379,357405,357406,357407,357223,357117,357224

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	0522,0523,0524,0542,0439,0568,0569
	0571,0574,0579,0492,0475,0517
Client Forms	X
Level X	
Level 3	0568,0569,0579,0517
Level 4	0542,0571,0574,0492,0475
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	PDM
Secondary Reviewer	SLP
Comments	

Primary Reviewer:
24-FEB-2011
Pierce Morris

Secondary Reviewer:
24-FEB-2011
Sheri L. Babcock

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-24-2011 13:00:44

Microbac Laboratories Inc.

Data Checklist

Date: 23-FEB-2011
Analyst: JYH
Analyst: NA
Method: 6010
Instrument: ICP-THERMO2
Curve Workgroup: 357413
Runlog ID: 39179
Analytical Workgroups: 357319,357244,357242,357283,357285,357370,357401,357321

Additional workgroups:	357402,357179
Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	416,541,418,419,449,318,571,589
Case Narrative (Continued)	539,541
Client Forms	X
Level X	
Level 3	
Level 4	416,541,538,540,418,419,449,318
	571,589,502
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:

Secondary Reviewer:
24-FEB-2011

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-24-2011 13:35:48

Microbac Laboratories Inc.

Data Checklist

Date: 25-FEB-2011
Analyst: JYH
Analyst: NA
Method: 6010
Instrument: ICP-THERMO2
Curve Workgroup: 357631
Runlog ID: 39216
Analytical Workgroups: 357401,357551,357626,357516,357601

Additional workgroups:	357402,357179
Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	425,478,425,426
Client Forms	X
Level X	
Level 3	
Level 4	318,571,425,478,423,425,426
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:

Secondary Reviewer:
03-MAR-2011

CHECKLIST1 - Modified 03/05/2008
Generated: MAR-03-2011 17:47:06

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method 6010B AAB#: WG357407

Login Number: L11020571

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SWMU-57-21711-EB	01	02/17/11					02/23/11	5.9	180		02/23/11	6.4	180	
SWMU-57-21711-FB	02	02/17/11					02/23/11	5.9	180		02/23/11	6.4	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1928259
Report generated 02/24/2011 09:06

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method 6010B AAB#: WG357401

Login Number: L11020571

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SWMU-57-21711-MS	03	02/17/11					02/23/11	6.1	180		02/25/11	8	180	
SWMU-57-21711-MS	03	02/17/11					02/23/11	6.1	180		02/23/11	6.2	180	
SWMU-57-21711-MSD	04	02/17/11					02/23/11	6.1	180		02/25/11	8	180	
SWMU-57-21711-MSD	04	02/17/11					02/23/11	6.1	180		02/23/11	6.2	180	
SWMU-57-21711-DUP	05	02/17/11					02/23/11	6.1	180		02/23/11	6.2	180	
SWMU-57-21711-DUP	05	02/17/11					02/23/11	6.1	180		02/25/11	8	180	
SWMU-57-21711-B-5-SS-1-	06	02/17/11					02/23/11	6.1	180		02/25/11	8	180	
SWMU-57-21711-B-5-SS-1-	06	02/17/11					02/23/11	6.1	180		02/23/11	6.2	180	
SWMU-57-21711-B-2-SS-2.	07	02/17/11					02/23/11	6.1	180		02/25/11	8	180	
SWMU-57-21711-B-2-SS-2.	07	02/17/11					02/23/11	6.1	180		02/23/11	6.2	180	
SWMU-57-21711-B-2-SS-5	08	02/17/11					02/23/11	6	180		02/23/11	6.2	180	
SWMU-57-21711-B-2-SS-5	08	02/17/11					02/23/11	6	180		02/25/11	8	180	
SWMU-57-21711-B-1-SS-2.	09	02/17/11					02/23/11	6	180		02/23/11	6.2	180	
SWMU-57-21711-B-1-SS-2.	09	02/17/11					02/23/11	6	180		02/25/11	8	180	
SWMU-57-21711-B-6-SS-2.	10	02/17/11					02/23/11	5.9	180		02/25/11	7.9	180	
SWMU-57-21711-B-6-SS-2.	10	02/17/11					02/23/11	5.9	180		02/23/11	6.1	180	
SWMU-57-21811-B3-SS-2	11	02/17/11					02/23/11	6.1	180		02/25/11	8.1	180	
SWMU-57-21811-B3-SS-2	11	02/17/11					02/23/11	6.1	180		02/23/11	6.3	180	
SWMU-57-21811-B3-SS-2	11	02/17/11					02/23/11	6.1	180		02/25/11	8.1	180	
SWMU-57-21811-B4-SS-2.5	12	02/17/11					02/23/11	6.1	180		02/23/11	6.3	180	
SWMU-57-21811-B4-SS-2.5	12	02/17/11					02/23/11	6.1	180		02/25/11	8.1	180	
SWMU-57-21811-B7-SS-2	13	02/17/11					02/23/11	6.1	180		02/23/11	6.2	180	
SWMU-57-21811-B7-SS-2	13	02/17/11					02/23/11	6.1	180		02/25/11	8	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1927975
Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11020571	Work Group:	WG357407
Blank File ID:	P2.022311.164259	Blank Sample ID:	WG357312-03
Prep Date:	02/23/11 07:36	Instrument ID:	PE-ICP2
Analyzed Date:	02/23/11 16:42	Method:	6010B
Analyst:	PDM		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG357312-04	P2.022311.164940	02/23/11 16:49	01
SWMU-57-21711-EB	L11020571-01	P2.022311.173640	02/23/11 17:36	01
SWMU-57-21711-FB	L11020571-02	P2.022311.174319	02/23/11 17:43	01

Report Name: BLANK_SUMMARY
PDF File ID: 1928260
Report generated 02/24/2011 09:06

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11020571
Blank File ID: T2.022311.151851
Prep Date: 02/23/11 12:17
Analyzed Date: 02/23/11 15:18
Analyst: JYH

Work Group: WG357401
Blank Sample ID: WG357371-03
Instrument ID: ICP-THERMO2
Method: 6010B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG357371-04	T2.022311.152235	02/23/11 15:22	01
SWMU-57-21711-MS	L11020571-03	T2.022311.152951	02/23/11 15:29	01
SWMU-57-21711-MSD	L11020571-04	T2.022311.153331	02/23/11 15:33	01
SWMU-57-21711-B-5-SS-1-2	L11020571-06	T2.022311.153710	02/23/11 15:37	01
SWMU-57-21711-DUP	L11020571-05	T2.022311.154049	02/23/11 15:40	01
SWMU-57-21711-B-2-SS-2.5	L11020571-07	T2.022311.160240	02/23/11 16:02	01
SWMU-57-21711-B-2-SS-5	L11020571-08	T2.022311.160622	02/23/11 16:06	01
SWMU-57-21711-B-1-SS-2.5	L11020571-09	T2.022311.161002	02/23/11 16:10	01
SWMU-57-21711-B-6-SS-2.5	L11020571-10	T2.022311.161345	02/23/11 16:13	01
SWMU-57-21811-B3-SS-2	L11020571-11	T2.022311.161728	02/23/11 16:17	01
SWMU-57-21811-B4-SS-2.5	L11020571-12	T2.022311.162110	02/23/11 16:21	01
SWMU-57-21811-B7-SS-2	L11020571-13	T2.022311.162450	02/23/11 16:24	01
SWMU-57-21711-MS	L11020571-03	T2.022511.104257	02/25/11 10:42	DL02
SWMU-57-21711-MSD	L11020571-04	T2.022511.104646	02/25/11 10:46	DL01
SWMU-57-21711-B-5-SS-1-2	L11020571-06	T2.022511.105035	02/25/11 10:50	DL01
SWMU-57-21711-DUP	L11020571-05	T2.022511.105424	02/25/11 10:54	DL01
SWMU-57-21711-B-2-SS-2.5	L11020571-07	T2.022511.110925	02/25/11 11:09	DL01
SWMU-57-21711-B-2-SS-5	L11020571-08	T2.022511.111314	02/25/11 11:13	DL01
SWMU-57-21711-B-1-SS-2.5	L11020571-09	T2.022511.111703	02/25/11 11:17	DL01
SWMU-57-21711-B-6-SS-2.5	L11020571-10	T2.022511.112822	02/25/11 11:28	DL01
SWMU-57-21811-B3-SS-2	L11020571-11	T2.022511.113211	02/25/11 11:32	DL01
SWMU-57-21811-B4-SS-2.5	L11020571-12	T2.022511.113559	02/25/11 11:35	DL01
SWMU-57-21811-B7-SS-2	L11020571-13	T2.022511.113947	02/25/11 11:39	DL01
SWMU-57-21811-B3-SS-2	L11020571-11	T2.022511.122813	02/25/11 12:28	DL02

Report Name: BLANK_SUMMARY
PDF File ID: 1927976
Report generated 02/25/2011 13:45

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020571 Prep Date: 02/23/11 07:36 Sample ID: WG357312-03
Instrument ID: PE-ICP2 Run Date: 02/23/11 16:42 Prep Method: 3005A
File ID: P2.022311.164259 Analyst: PDM Method: 6010B
Workgroup (AAB#): WG357407 Matrix: Water Units: mg/L
Contract #: Cal ID: PE-ICP-23-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Aluminum, Total	0.0500	0.100	0.0500	1	U
Iron, Total	0.0500	0.100	0.0500	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1928261
24-FEB-2011 09:06

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020571 Prep Date: 02/23/11 12:17 Sample ID: WG357371-03
Instrument ID: ICP-THERMO2 Run Date: 02/23/11 15:18 Prep Method: 3051A
File ID: T2.022311.151851 Analyst: JYH Method: 6010B
Workgroup (AAB#): WG357401 Matrix: Soil Units: mg/kg
Contract #: Cal ID: ICP-TH-23-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Aluminum, Total	10.0	20.0	10.0	1	U
Antimony, Total	0.500	1.00	0.500	1	U
Iron, Total	1.50	3.00	1.50	1	U
Manganese, Total	0.250	0.500	0.250	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1927977
25-FEB-2011 13:44

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357312-04
Instrument ID: PE-ICP2 Run Time: 16:49 Prep Method: 3005A
File ID: P2.022311.164940 Analyst: PDM Method: 6010B
Workgroup (AAB#): WG357407 Matrix: Water Units: mg/L
QC Key: DOD4 Lot#: STD39933 Cal ID: PE-ICP-23-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Aluminum, Total	5.00	4.94	98.9	80 - 120	
Iron, Total	2.00	1.92	95.8	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1928262
Report generated: 02/24/2011 09:06

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357371-04
Instrument ID: ICP-THERMO2 Run Time: 15:22 Prep Method: 3051A
File ID: T2.022311.152235 Analyst: JYH Method: 6010B
Workgroup (AAB#): WG357401 Matrix: Soil Units: mg/kg
QC Key: DOD4 Lot#: STD39933 Cal ID: ICP-TH-23-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Aluminum, Total	250	238	95.1	80 - 120	
Antimony, Total	30.0	28.2	94.0	80 - 120	
Iron, Total	100	93.3	93.3	80 - 120	
Manganese, Total	12.5	11.8	94.5	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1927978
Report generated: 02/25/2011 13:44

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11020571 Cal ID:PE-ICP2- Worknum:WG357407
Instrument ID:PE-ICP2 Contract #: Method:6010B
Parent ID:WG357312-01 File ID:P2.022311.165621 Dil:1 Matrix:WATER
Sample ID:WG357312-05 MSD File ID:P2.022311.170300 Dil:1 Units:mg/L
Sample ID:WG357312-06 MS File ID:P2.022311.170944 Dil:1

Analyte	Parent	MSD Spiked	MSD Found	MSD %Rec	MS Spiked	MS Found	MS %Rec	%RPD	%Rec Limits	RPD Limit	Q
Aluminum	0.0700	5.00	4.90	96.6	5.00	4.87	96.1	0.551	80 - 120	20	
Iron	0.624	2.00	2.49	93.3	2.00	2.52	94.6	1.01	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008
PDF File ID:1928263
Report generated 02/24/2011 09:06

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11020571 Cal ID:PE-ICP2- Worknum:WG357407

Instrument ID:PE-ICP2 Contract #: Method:6010B

Parent ID:WG357312-02 File ID:P2.022311.171633 Dil:1 Matrix:WATER

Sample ID:WG357312-07 MSD File ID:P2.022311.172312 Dil:1 Units:mg/L

Sample ID:WG357312-08 MS File ID:P2.022311.172955 Dil:1

Analyte	Parent	MSD Spiked	MSD Found	MSD %Rec	MS Spiked	MS Found	MS %Rec	%RPD	%Rec Limits	RPD Limit	Q
Aluminum	ND	5.00	4.84	96.9	5.00	4.74	94.8	2.11	80 - 120	20	
Iron	0.221	2.00	2.18	98.2	2.00	2.09	93.5	4.42	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008

PDF File ID:1928263

Report generated 02/24/2011 09:06

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum:L11020571 Cal ID: ICP-THERMO2- 23-FEB-11 Worknum:WG357401

Instrument ID:ICP-THERMO2 Contract #: Prep Method:3051A

Parent ID:L11020571-06 File ID:T2.022311.153710 Dil:1 Method:6010B

Sample ID:L11020571-03 MS File ID:T2.022311.152951 Dil:1 Matrix:Soil

Sample ID:L11020571-04 MSD File ID:T2.022311.153331 Dil:1 Units:mg/kg

Percent Solid:100

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Antimony, Total	1.15	22.8	21.1	87.5	22.8	20.0	82.9	5.14	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

PDF File ID: 1927979

Report generated 02/25/2011 13:47

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L11020571 Cal ID: ICP-THERMO2- 25-FEB-11 Worknum: WG357401
Instrument ID: ICP-THERMO2 Contract #: Prep Method: 3051A
Parent ID: L11020571-06 File ID: T2.022511.105035 Dil: 200 Method: 6010B
Sample ID: L11020571-03 MS File ID: T2.022511.104257 Dil: 200 Matrix: Soil
Sample ID: L11020571-04 MSD File ID: T2.022511.104646 Dil: 200 Units: mg/kg
Percent Solid: 100

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Aluminum, Total	18100	190	16800	-730	190	18100	-34	7.59	80 - 120	20	*
Iron, Total	33800	75.9	33600	-339	75.9	32300	-2070	3.99	80 - 120	20	*
Manganese, Total	655	9.49	352	-3190	9.49	175	-5060	67.2	80 - 120	20	*#

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008
PDF File ID: 1927979
Report generated 02/25/2011 13:47

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11020571 **Worknum:** WG357407
Instrument: PE-ICP2 **Method:** 6010B
Serial Dil: WG357407-02 **File ID:** P2.022311.181457 **Dil:** 5 **Units:** mg/L
Sample: L11020574-01 **File ID:** P2.022311.180322 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	13.4		13.4		0.00	
Iron	10.3		10.5		1.94	

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1928257
02/24/2011 09:06

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11020571 **Worknum:** WG357401
Instrument: ICP-THERMO2 **Method:** 6010B
Serial Dil: WG357401-02 **File ID:** T2.022311.154807 **Dil:** 5 **Units:** mg/L
Sample: L11020571-05 **File ID:** T2.022311.154049 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	330		419.5		27.10	E
Antimony	.029	X	ND	U		
Iron	809		850		5.07	
Manganese	4.16		4.245		2.04	

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1927973
02/25/2011 13:45

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11020571 **Worknum:** WG357401
Instrument: ICP-THERMO2 **Method:** 6010B
Serial Dil: WG357401-02 **File ID:** T2.022511.110149 **Dil:** 1000 **Units:** mg/L
Sample: L11020571-05 **File ID:** T2.022511.105424 **Dil:** 200

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	480	X	502	X	4.58	
Antimony	ND	U	ND	U		
Iron	914		816		10.70	E
Manganese	4.7	X	5.56	F	18.30	

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1927973
02/25/2011 13:45

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11020571 **Worknum:** WG357407
Instrument ID: PE-ICP2 **Method:** 6010B
Post Spike ID: WG357407-01 **File ID:** P2.022311.180908 **Dil:** 1 **Units:** mg/L
Sample ID: L11020574-01 **File ID:** P2.022311.180322 **Dil:** 1 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	17.4		13.4		5	106.8	75 - 125	
IRON	11.5		10.3		2	111.1	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1928258
Report generated: 02/24/2011 09:06

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11020571 **Worknum:** WG357401
Instrument ID: ICP-THERMO2 **Method:** 6010B
Post Spike ID: WG357401-01 **File ID:** T2.022311.154428 **Dil:** 1 **Units:** mg/L
Sample ID: L11020571-05 **File ID:** T2.022311.154049 **Dil:** 1 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	299		330		5	42.5	75 - 125	N
ANTIMONY	0.593		0.0290		.6	94.5	75 - 125	
IRON	736		809		2	392.0	75 - 125	N
MANGANESE	3.98		4.16		.25	95.0	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1927974
Report generated: 02/25/2011 13:45

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11020571 **Worknum:** WG357401
Instrument ID: ICP-THERMO2 **Method:** 6010B
Post Spike ID: WG357401-01 **File ID:** T2.022511.105811 **Dil:** 200 **Units:** mg/L
Sample ID: L11020571-05 **File ID:** T2.022511.105424 **Dil:** 200 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	8.05		2.40		5	113.1	75 - 125	
ANTIMONY	0.640		0	U	.6	106.7	75 - 125	
IRON	6.67		4.57		2	105.2	75 - 125	
MANGANESE	0.271		0.0235		.25	98.9	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1927974
Report generated: 02/25/2011 13:45

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11020571**	Workgroup (AAB#):	**WG357407**
Analytical Method:	**6010B**	Instrument ID:	**PE-ICP2**
ICAL Worknum:	**WG357414**	Initial Calibration Date:	**23-FEB-2011 09:44**

	WG357414-01		WG357414-02		WG357414-03		WG357414-04		WG357414-05			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ALUMINUM	0	-201	.1	526	.2	990	10	47600	20	92900	.999923	
IRON	0	1.34	.04	17.7	.08	34.9	4	1680	8	3410	.999961	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID 1928266
Report generated: 24-FEB-2011 09:06

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11020571**	Workgroup (AAB#):	**WG357401**
Analytical Method:	**6010B**	Instrument ID:	**ICP-THERMO2**
ICAL Worknum:	**WG357413**	Initial Calibration Date:	**23-FEB-2011 09:57**

	WG357413-01		WG357413-02		WG357413-03		WG357413-04		WG357413-05			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ALUMINUM	0	0.00834	.1	0.0136	.2	0.0186	10	0.465	20	0.934	.999907	
ANTIMONY	0	0.0000700	.012	0.000160	.024	0.000240	1.2	0.00890	2.4	0.0177	.999999	
IRON	0	0.0000200	.04	0.000280	.08	0.000550	4	0.0258	8	0.0517	.999997	
MANGANESE	0	0.0000300	.005	0.000380	.01	0.000670	.5	0.0326	1	0.0649	.999983	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID 1927983
Report generated: 25-FEB-2011 13:45

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11020571**	Workgroup (AAB#):	**WG357401**
Analytical Method:	**6010B**	Instrument ID:	**ICP-THERMO2**
ICAL Worknum:	**WG357631**	Initial Calibration Date:	**25-FEB-2011 10:02**

	WG357631-01		WG357631-02		WG357631-03		WG357631-04		WG357631-05			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ALUMINUM	0	0.0112	.1	0.0163	.2	0.0208	10	0.475	20	0.968	.999879	
ANTIMONY	0	0.0000500	.012	0.000150	.024	0.000240	1.2	0.00848	2.4	0.0167	.999816	
IRON	0	0.0000300	.04	0.000190	.08	0.000360	4	0.0173	8	0.0346	.999977	
MANGANESE	0	-0.0000300	.005	0.000200	.01	0.000400	.5	0.0184	1	0.0369	.999839	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID 1927983
Report generated: 25-FEB-2011 13:45

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357414-07
Instrument ID: PE-ICP2 Run Time: 09:57 Method: 6010B
File ID: P2.022311.095752 Analyst: PDM Units: mg/L
Workgroup (AAB#): WG357407 Cal ID: PE-ICP2 - 23-FEB-11
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.05	.1	.05	U
IRON	.05	.1	.05	U

U = Result is less than 2 x MDL

F = Result is between MDL and 2 x MDL

* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1928268
Report generated 02/24/2011 09:06

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357413-07
Instrument ID: ICP-THERMO2 Run Time: 10:05 Method: 6010B
File ID: T2.022311.100500 Analyst: JYH Units: mg/L
Workgroup (AAB#): WG357401 Cal ID: ICP-THERI - 23-FEB-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.2	.4	.2	U
ANTIMONY	.01	.02	.01	U
IRON	.03	.06	.03	U
MANGANESE	.005	.01	.005	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1927985
Report generated 02/25/2011 13:44

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357631-07
Instrument ID: ICP-THERMO2 Run Time: 10:10 Method: 6010B
File ID: T2.022511.101003 Analyst: JYH Units: mg/L
Workgroup (AAB#): WG357401 Cal ID: ICP-THERI - 25-FEB-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.2	.4	.2	U
ANTIMONY	.01	.02	.01	U
IRON	.03	.06	.03	U
MANGANESE	.005	.01	.005	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1927985
Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020571	Run Date:	02/23/2011	Sample ID:	WG357414-11
Instrument ID:	PE-ICP2	Run Time:	10:22	Method:	6010B
File ID:	P2.022311.102234	Analyst:	PDM	Units:	mg/L
Workgroup (AAB#):	WG357407	Cal ID:	PE-ICP - 23-FEB-11		
Matrix:	WATER	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Iron	0.0500	0.100	0.0500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1928271
Report generated 02/24/2011 09:06

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020571	Run Date:	02/23/2011	Sample ID:	WG357414-21
Instrument ID:	PE-ICP2	Run Time:	16:36	Method:	6010B
File ID:	P2.022311.163616	Analyst:	PDM	Units:	mg/L
Workgroup (AAB#):	WG357407	Cal ID:	PE-ICP - 23-FEB-11		
Matrix:	WATER	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Iron	0.0500	0.100	0.0500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1928271
Report generated 02/24/2011 09:06

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020571	Run Date:	02/23/2011	Sample ID:	WG357414-23
Instrument ID:	PE-ICP2	Run Time:	17:56	Method:	6010B
File ID:	P2.022311.175639	Analyst:	PDM	Units:	mg/L
Workgroup (AAB#):	WG357407	Cal ID:	PE-ICP - 23-FEB-11		
Matrix:	WATER	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Iron	0.0500	0.100	0.0500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1928271
Report generated 02/24/2011 09:06

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020571	Run Date:	02/23/2011	Sample ID:	WG357414-25
Instrument ID:	PE-ICP2	Run Time:	18:41	Method:	6010B
File ID:	P2.022311.184151	Analyst:	PDM	Units:	mg/L
Workgroup (AAB#):	WG357407	Cal ID:	PE-ICP - 23-FEB-11		
Matrix:	WATER	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Iron	0.0500	0.100	0.0500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1928271
Report generated 02/24/2011 09:06

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357413-11

Instrument ID: ICP-THERMO2 Run Time: 10:19 Method: 6010B

File ID: T2.022311.101940 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 23-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1927988
Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357413-25

Instrument ID: ICP-THERMO2 Run Time: 15:15 Method: 6010B

File ID: T2.022311.151508 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 23-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1927988
Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357413-27

Instrument ID: ICP-THERMO2 Run Time: 15:58 Method: 6010B

File ID: T2.022311.155858 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 23-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1927988
Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020571	Run Date:	02/23/2011	Sample ID:	WG357413-29
Instrument ID:	ICP-THERMO2	Run Time:	16:43	Method:	6010B
File ID:	T2.022311.164337	Analyst:	JYH	Units:	mg/L
Workgroup (AAB#):	WG357401	Cal ID:	ICP-TH - 23-FEB-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1927988
Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357413-32

Instrument ID: ICP-THERMO2 Run Time: 17:25 Method: 6010B

File ID: T2.022311.172504 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 23-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1927988
Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357631-11

Instrument ID: ICP-THERMO2 Run Time: 10:39 Method: 6010B

File ID: T2.022511.103907 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 25-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1927988
Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357631-13
Instrument ID: ICP-THERMO2 Run Time: 11:24 Method: 6010B
File ID: T2.022511.112431 Analyst: JYH Units: mg/L
Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 25-FEB-11
Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1927988
Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357631-15

Instrument ID: ICP-THERMO2 Run Time: 12:09 Method: 6010B

File ID: T2.022511.120929 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 25-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1927988
Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357631-17

Instrument ID: ICP-THERMO2 Run Time: 12:39 Method: 6010B

File ID: T2.022511.123935 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 25-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1927988
Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357414-06

Instrument ID: PE-ICP2 Run Time: 09:51 Method: 6010B

File ID: P2.022311.095111 Analyst: PDM Units: mg/L

Workgroup (AAB#): WG357407 Cal ID: PE-ICP - 23-FEB-11

QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Aluminum		10	10.1	101	90 - 110	
Iron		4	3.93	98.2	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1928267

Report generated 02/24/2011 09:06

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357413-06

Instrument ID: ICP-THERMO2 Run Time: 10:01 Method: 6010B

File ID: T2.022311.100127 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 23-FEB-11

QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Aluminum		10	10.2	102	90 - 110	
Antimony		1.2	1.18	98.5	90 - 110	
Iron		4	3.96	98.9	90 - 110	
Manganese		.5	0.491	98.2	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1927984

Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357631-06

Instrument ID: ICP-THERMO2 Run Time: 10:06 Method: 6010B

File ID: T2.022511.100625 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 25-FEB-11

QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Aluminum		10	10.1	101	90 - 110	
Antimony		1.2	1.20	99.8	90 - 110	
Iron		4	3.97	99.1	90 - 110	
Manganese		.5	0.489	97.9	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1927984

Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357414-10

Instrument ID: PE-ICP2 Run Time: 10:15 Method: 6010B

File ID: P2.022311.101555 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG357407 Cal ID: PE-ICP - 23-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.0	mg/L	100	90 - 110		
Iron		4.00	3.97	mg/L	99.3	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1928270

Report generated 02/24/2011 09:06

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357414-20

Instrument ID: PE-ICP2 Run Time: 16:29 Method: 6010B

File ID: P2.022311.162910 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG357407 Cal ID: PE-ICP - 23-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.87	mg/L	98.7	90 - 110		
Iron		4.00	3.81	mg/L	95.3	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1928270

Report generated 02/24/2011 09:06

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357414-22

Instrument ID: PE-ICP2 Run Time: 17:49 Method: 6010B

File ID: P2.022311.174959 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG357407 Cal ID: PE-ICP - 23-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.78	mg/L	97.8	90 - 110		
Iron		4.00	3.75	mg/L	93.8	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1928270

Report generated 02/24/2011 09:06

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357414-24

Instrument ID: PE-ICP2 Run Time: 18:35 Method: 6010B

File ID: P2.022311.183512 Analyst: PDM QC Key: DOD4

Workgroup (AAB#): WG357407 Cal ID: PE-ICP - 23-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.91	mg/L	99.1	90 - 110		
Iron		4.00	3.83	mg/L	95.9	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1928270

Report generated 02/24/2011 09:06

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357413-10

Instrument ID: ICP-THERMO2 Run Time: 10:16 Method: 6010B

File ID: T2.022311.101608 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 23-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.1	mg/L	101	90 - 110		
Antimony		1.20	1.20	mg/L	99.7	90 - 110		
Iron		4.00	3.98	mg/L	99.5	90 - 110		
Manganese		0.500	0.497	mg/L	99.3	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1927987

Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357413-24

Instrument ID: ICP-THERMO2 Run Time: 15:11 Method: 6010B

File ID: T2.022311.151136 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 23-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.1	mg/L	101	90 - 110		
Antimony		1.20	1.20	mg/L	100	90 - 110		
Iron		4.00	3.86	mg/L	96.6	90 - 110		
Manganese		0.500	0.477	mg/L	95.5	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1927987

Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357413-26

Instrument ID: ICP-THERMO2 Run Time: 15:55 Method: 6010B

File ID: T2.022311.155527 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 23-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.0	mg/L	100	90 - 110		
Antimony		1.20	1.20	mg/L	99.8	90 - 110		
Iron		4.00	3.82	mg/L	95.4	90 - 110		
Manganese		0.500	0.467	mg/L	93.3	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1927987

Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357413-28

Instrument ID: ICP-THERMO2 Run Time: 16:40 Method: 6010B

File ID: T2.022311.164007 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 23-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.3	mg/L	103	90 - 110		
Antimony		1.20	1.19	mg/L	99.5	90 - 110		
Iron		4.00	3.72	mg/L	92.9	90 - 110		
Manganese		0.500	0.463	mg/L	92.6	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1927987

Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/23/2011 Sample ID: WG357413-31

Instrument ID: ICP-THERMO2 Run Time: 17:21 Method: 6010B

File ID: T2.022311.172135 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 23-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.3	mg/L	103	90 - 110		
Antimony		1.20	1.20	mg/L	99.6	90 - 110		
Iron		4.00	3.79	mg/L	94.7	90 - 110		
Manganese		0.500	0.460	mg/L	92.1	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1927987

Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357631-10

Instrument ID: ICP-THERMO2 Run Time: 10:35 Method: 6010B

File ID: T2.022511.103531 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 25-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.4	mg/L	104	90 - 110		
Antimony		1.20	1.22	mg/L	101	90 - 110		
Iron		4.00	3.97	mg/L	99.3	90 - 110		
Manganese		0.500	0.488	mg/L	97.6	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1927987

Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357631-12

Instrument ID: ICP-THERMO2 Run Time: 11:20 Method: 6010B

File ID: T2.022511.112054 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 25-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.5	mg/L	105	90 - 110		
Antimony		1.20	1.23	mg/L	102	90 - 110		
Iron		4.00	3.98	mg/L	99.6	90 - 110		
Manganese		0.500	0.481	mg/L	96.3	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1927987

Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357631-14

Instrument ID: ICP-THERMO2 Run Time: 12:05 Method: 6010B

File ID: T2.022511.120551 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 25-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.9	mg/L	109	90 - 110		
Antimony		1.20	1.21	mg/L	101	90 - 110		
Iron		4.00	4.02	mg/L	101	90 - 110		
Manganese		0.500	0.479	mg/L	95.8	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1927987

Report generated 02/25/2011 13:44

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357631-16

Instrument ID: ICP-THERMO2 Run Time: 12:35 Method: 6010B

File ID: T2.022511.123557 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357401 Cal ID: ICP-TH - 25-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.5	mg/L	105	90 - 110		
Antimony		1.20	1.22	mg/L	102	90 - 110		
Iron		4.00	3.98	mg/L	99.4	90 - 110		
Manganese		0.500	0.475	mg/L	95.1	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1927987

Report generated 02/25/2011 13:44

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11020571 **Workgroup (AAB#):** WG357407
Instrument ID: PE-ICP2 **Method:** 6010B
Sol. A : WG357414-08 **File ID:** P2.022311.100429 **Units:** mg/L
Sol. AB : WG357414-09 **File ID:** P2.022311.101011 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Aluminum	250	235	94.0	250	248	99.2	
Iron	100	93.8	93.8	100	97.7	97.7	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11020571 **Workgroup (AAB#):** WG357401
Instrument ID: ICP-THERMO2 **Method:** 6010B
Sol. A : WG357413-08 **File ID:** T2.022311.100843 **Units:** mg/L
Sol. AB : WG357413-09 **File ID:** T2.022311.101228 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Aluminum	250	226	90.4	250	231	92.4	
Antimony	NS	0.00460	NS	0.500	0.498	99.6	
Iron	100	96.8	96.8	100	97.5	97.5	
Manganese	NS	-0.00155	NS	0.250	0.242	96.8	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11020571 **Workgroup (AAB#):** WG357401
Instrument ID: ICP-THERMO2 **Method:** 6010B
Sol. A : WG357631-08 **File ID:** T2.022511.101354 **Units:** mg/L
Sol. AB : WG357631-09 **File ID:** T2.022511.101745 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Aluminum	250	219	87.6	250	224	89.6	
Antimony	NS	0.00620	NS	0.500	0.503	101	
Iron	100	95.9	95.9	100	96.2	96.2	
Manganese	NS	-0.00161	NS	0.250	0.236	94.4	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1927986
Report generated 02/25/2011 13:44

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020571 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	AG	AL	AS	B	BA
ALUMINUM	396.15	0	0	0.206	0	0
ANTIMONY	206.84	0	0	-0.740	0	0
ARSENIC	188.98	0	0.0893	0	0	0
BARIUM	233.53	0	0.00932	0	0	0
BERYLLIUM	234.86	0	0	0	0	0
BORON	249.68	0	1.12	0	0	0
CADMIUM	228.80	0	0	6.68	0	0
CALCIUM	227.55	0	0.195	10.0	0	0
CHROMIUM	267.72	0	0.0250	0	0	0
COBALT	228.62	0	0	0	0	0.337
COPPER	327.39	0	0	0	0	0
IRON	239.56	0	0	0	0	0
LEAD	220.35	0	-0.0210	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0	0	0	0
MANGANESE	257.61	-0.185	0	-0.231	-0.0949	-0.230
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	0.111	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0	0.200	0	0.0400
ZINC	206.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1928265
Report generated: 02/24/2011 09:06

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020571 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	BE	CA	CD	CO	CR
ALUMINUM	396.15	0	0	0	0	0
ANTIMONY	206.84	0	0	0	0	6.33
ARSENIC	188.98	0	0.0200	-0.0875	0	-5.90
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	-0.0733
BORON	249.68	0	0	24.1	5.90	1.50
CADMIUM	228.80	0	0	0	-10.7	0
CALCIUM	227.55	0	0	0	300	0
CHROMIUM	267.72	0	0	0	0	0
COBALT	228.62	0	0	0	0	-0.244
COPPER	327.39	0	0	0	0.380	-0.0400
IRON	239.56	0	0	0	1.91	0
LEAD	220.35	0	-0.0480	0	0.116	-0.0700
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0	0	0	0
MANGANESE	257.61	-1.04	0	-0.755	-0.0418	-0.110
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	-0.566	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	-0.250	0	-1.52	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0.0900	0	3.48	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	-0.0100	0	0	0.297
VANADIUM	290.88	0	0	0	0	0
ZINC	206.20	0	0	0	0	-3.64

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1928265
Report generated: 02/24/2011 09:06

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020571 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	CU	FE	K	LI	MG
ALUMINUM	396.15	0	-0.0800	0	0	0
ANTIMONY	206.84	0	0	0	0	0
ARSENIC	188.98	0	-0.139	0	0	0
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0.195	0	0	0
BORON	249.68	0	-4.66	0	0	0
CADMIUM	228.80	0	0.00130	0	0	0
CALCIUM	227.55	-2.00	-5.00	0	0	0.104
CHROMIUM	267.72	0	-0.000800	0	0	0
COBALT	228.62	0	0.0262	0	0	0
COPPER	327.39	0	-0.115	0	0.154	0
IRON	239.56	0	0	0	0	0.0276
LEAD	220.35	0.740	0.0440	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0.540	0	0	0
MANGANESE	257.61	-0.0457	-0.0453	-0.0181	-0.794	0.0147
MOLYBDENUM	202.03	0	-0.0494	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	-0.369	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0.0717	0.0498	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0.120	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0.134	0	0	0
ZINC	206.20	-0.200	0.0230	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1928265
Report generated: 02/24/2011 09:06

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020571 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	MN	MO	NA	NI	PB
ALUMINUM	396.15	0	13.5	0	0	0
ANTIMONY	206.84	0	-7.69	0	0	0
ARSENIC	188.98	0	6.00	0	0	0
BARIUM	233.53	0	-0.548	0	0	0
BERYLLIUM	234.86	-0.131	-1.50	0	-0.00974	0
BORON	249.68	0	-2.20	0	0	0
CADMIUM	228.80	0	-0.00900	0	-0.398	0
CALCIUM	227.55	0	-8.00	0	-900	0
CHROMIUM	267.72	0.434	-0.00100	0	0	0
COBALT	228.62	0	-0.125	0	0.129	0
COPPER	327.39	0	-0.0774	0	0.150	0.257
IRON	239.56	0.480	0	0	0	0.407
LEAD	220.35	0.100	-5.00	0	0.100	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	-5.00	0	0	0.0252
MANGANESE	257.61	0	-0.0482	-0.00916	-0.0340	-0.0413
MOLYBDENUM	202.03	-0.209	0	0	0.120	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	1.00	0	0
SELENIUM	196.03	0.451	0.300	0	0.0940	0
SILICON	251.61	0	15.0	0	0	0
SILVER	328.07	0.130	0.100	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	-1.50	1.20	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0.578	0	0	0
ZINC	206.20	0	0.180	0	-0.200	-0.100

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1928265
Report generated: 02/24/2011 09:06

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020571 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	SB	SE	SI	SN	SR
ALUMINUM	396.15	0	0	0	0	0
ANTIMONY	206.84	0	0	0	0	0
ARSENIC	188.98	0	0	0	0	0
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	0
BORON	249.68	0	0	0	0	0
CADMIUM	228.80	0	0	0	0	0
CALCIUM	227.55	0	0	2.79	0	0
CHROMIUM	267.72	0	0	0	0	0
COBALT	228.62	0	0	0	0	0
COPPER	327.39	0	0.148	0	0	0
IRON	239.56	0	0	0	0	0
LEAD	220.35	-0.0100	0	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	-0.0924	0	0	0
MANGANESE	257.61	-0.0505	-0.0281	-0.185	-0.0445	-0.625
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	-0.0500	-0.0100	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	0	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0.200
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0	0	0	0
ZINC	206.20	-0.300	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1928265
Report generated: 02/24/2011 09:06

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020571 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	TI	TL	V	ZN
ALUMINUM	396.15	0	0	0	0
ANTIMONY	206.84	0	0	0.000100	0
ARSENIC	188.98	0	0	0.0930	0
BARIUM	233.53	0	0	-2.29	0
BERYLLIUM	234.86	0	0	0	0
BORON	249.68	0	0	0	0
CADMIUM	228.80	0	0	0.0800	0
CALCIUM	227.55	0	0	60.0	0
CHROMIUM	267.72	0	0	-0.567	-0.0400
COBALT	228.62	2.21	0	0	0
COPPER	327.39	-1.05	0	-0.700	-0.0613
IRON	239.56	0	0	0	0
LEAD	220.35	0	0	0.0560	0
LITHIUM	670.78	0	0	0	0
MAGNESIUM	279.08	0	0	0	0
MANGANESE	257.61	-0.00931	-0.0414	-0.0601	-0.0552
MOLYBDENUM	202.03	0	0	-0.288	0
NICKEL	231.60	0	0.617	0	0
POTASSIUM	766.49	0	0	0	0
SELENIUM	196.03	-0.220	0	-0.126	0
SILICON	251.61	0	0	0	0
SILVER	328.07	0	0	-1.67	0
SODIUM	589.59	0	0	0	0
STRONTIUM	407.77	0	0	0	0
THALLIUM	190.80	-12.0	0.617	-1.41	0
TIN	189.93	0	0	0	0
TITANIUM	334.94	0	0	0	0
VANADIUM	290.88	0	0	0	0
ZINC	206.20	0	0	-0.100	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1928265
Report generated: 02/24/2011 09:06

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020571 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	AL	AS	B	BA	BE
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	0.0000210	0	0	0	0
ARSENIC	189.00	0	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	0	0.00190	0	-0.000140	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0
COBALT	228.60	0	0	0	0	0
COPPER	224.70	0	0	0	0	0
IRON	261.20	0	0	0	0	0
LEAD	220.30	0.000335	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	0
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	-0.000750	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	-0.0000300	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	-0.0000120	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	0
ZINC	206.20	0.0000420	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1927982
Report generated: 02/25/2011 13:44

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020571 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	CA	CO	CR	CU	FE
ALUMINUM	308.20	0	-0.000820	0	0	0
ANTIMONY	206.80	0	0	0.00950	0	0.0000560
ARSENIC	189.00	0	0	0.000490	0	-0.0000120
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0.00343	0	0	-0.000619
CADMIUM	228.80	0	-0.00200	0	0	-0.00000800
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0.0000530
COBALT	228.60	0	0	0.000108	0	0
COPPER	224.70	0	0.0000770	0	0	0.000196
IRON	261.20	0	0	0	0	0
LEAD	220.30	0	-0.0000930	-0.000172	0.000809	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	0
MANGANESE	257.60	0	0	-0.0000920	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0.000100	0	0	0.0000320
PHOSPHORUS	214.90	0	0	0	0.00200	0.00120
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0.0000570	0	0	0	0
THALLIUM	190.80	0	0.00397	0.000276	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	-0.00000200
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	-0.0000300

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1927982
Report generated: 02/25/2011 13:44

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020571 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	LI	MG	MN	MO	NA
ALUMINUM	308.20	0	0	0	0.0153	0
ANTIMONY	206.80	0	0	0	0.000670	0
ARSENIC	189.00	0	0	0	0.00109	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	-0.00169	0
CADMIUM	228.80	0	0	0	0.0000220	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0.000160	0	0
COBALT	228.60	0	0	0	-0.000983	0
COPPER	224.70	0	0	0	0.00274	0
IRON	261.20	0	0	0	0	0
LEAD	220.30	0	0	0	-0.00183	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	-0.00190	-0.0110	0
MANGANESE	257.60	0	0.00000900	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	0	0	0	0.00800	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0.000156	0
SILICON	212.40	0	0	0	0.0187	0
SILVER	328.00	0	0	0	-0.0000440	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	-0.000153	0
VANADIUM	292.40	0	0	0	-0.00778	0
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1927982
Report generated: 02/25/2011 13:44

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020571 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	NI	SB	SN	SR	TI
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	0	0	-0.00840	0	-0.000990
ARSENIC	189.00	0	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	-0.000128	0	0	0	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0.0000550
COBALT	228.60	0.000175	0	0	0	0.00188
COPPER	224.70	-0.0120	0	0	0	0.000269
IRON	261.20	0	0	0	0	0
LEAD	220.30	0.000110	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	-0.00290
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	0	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	-0.00620
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	-0.00170
TIN	189.90	0	0	0	0	-0.00220
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	0.000824
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1927982
Report generated: 02/25/2011 13:44

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11020571 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	V	ZN	ZR
ALUMINUM	308.20	0.00300	0	0
ANTIMONY	206.80	-0.00438	0	0
ARSENIC	189.00	0.000107	0	0
BARIUM	455.40	0	0	0
BERYLLIUM	313.00	0	0	0
BORON	249.70	0	0	0
CADMIUM	228.80	0.0000820	0	0
CALCIUM	422.70	0	0	0
CHROMIUM	267.70	0	0	
COBALT	228.60	0.0000200	0	0
COPPER	224.70	0	0	
IRON	261.20	0	0	0
LEAD	220.30	-0.000126	0	0
LITHIUM	670.80	0	0	0
MAGNESIUM	279.10	0	0	0
MANGANESE	257.60	0	0	0
MOLYBDENUM	202.03	-0.000110	0	0
NICKEL	231.60	0	0	0
PHOSPHORUS	214.90	-0.00500	0	0.00200
POTASSIUM	766.40	0	0	0
SELENIUM	196.00	0	0	0
SILICON	212.40	0	0	0
SILVER	328.00	-0.00617	0	0
SODIUM	589.50	0	0	0
STRONTIUM	407.80	0	0	0
THALLIUM	190.80	-0.0282	0	0
TIN	189.90	0	0	0
TITANIUM	337.30	0	0	0
VANADIUM	292.40	0	0	
ZINC	206.20	0	0	0
ZIRCONIUM	339.20	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1927982
Report generated: 02/25/2011 13:44

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L11020571 **Date:** 01/12/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	450.0
Antimony	10.00	45.0
Arsenic	10.00	9.0
Barium	10.00	9.0
Beryllium	10.00	4.5
Boron	10.00	45.0
Cadmium	10.00	9.0
Calcium	10.00	450.0
Chromium	10.00	45.0
Cobalt	10.00	45.0
Copper	10.00	45.0
Iron	10.00	450.0
Lead	10.00	90.0
Lithium	10.00	0.9
Magnesium	10.00	450.0
Manganese	10.00	27.0
Molybdenum	10.00	45.0
Nickel	10.00	45.0
Potassium	10.00	72.0
Selenium	10.00	45.0
Silicon	10.00	36.0
Silver	10.00	9.0
Sodium	10.00	180.0
Strontium	10.00	4.5
Thallium	10.00	45.0
Tin	10.00	45.0
Titanium	10.00	45.0
Vanadium	10.00	45.0
Zinc	10.00	45.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1928264
Report generated: 02/24/2011 09:06

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L11020571 **Date:** 12/13/2010
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	810.0
Antimony	10.00	90.0
Arsenic	10.00	90.0
Barium	10.00	90.0
Beryllium	15.00	4.5
Boron	10.00	90.0
Cadmium	10.00	16.2
Calcium	10.00	900.0
Chromium	10.00	81.0
Cobalt	10.00	90.0
Copper	10.00	180.0
Iron	5.00	900.0
Lead	10.00	180.0
Lithium	10.00	90.0
Magnesium	15.00	900.0
Manganese	15.00	180.0
Molybdenum	10.00	9.0
Nickel	10.00	90.0
Phosphorus	10.00	900.0
Potassium	10.00	315.0
Selenium	10.00	90.0
Silicon	10.00	90.0
Silver	5.00	9.0
Sodium	10.00	315.0
Strontium	10.00	4.5
Thallium	10.00	9.0
Tin	10.00	90.0
Titanium	15.00	90.0
Vanadium	10.00	90.0
Zinc	10.00	45.0
Zirconium	10.00	45.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1927981
Report generated: 02/25/2011 13:44

2.1.1.3 Raw Data

Reprocessing Begun
Logged In Analyst: peicp2 Technique: ICP Continuous

Results Data Set (original): 022311H2
Results Library (original): C:\pe\peicp2\Results\Results.mdb
Results Data Set (reprocessed): 022311HR
Results Library (reprocessed): C:\pe\peicp2\Results\Results.mdb

Sequence No.: 1 Autosampler Location: 1
Sample ID: S0 Date Collected: 2/23/2011 9:17:44 AM
Analyst: Data Type: Reprocessed on 2/23/2011 2:45:43 PM
Logged In Analyst (Original) : peicp2
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: S0

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	4915315.7	54071.43	1.10%		
YRADIAL	283340.1	3177.33	1.12%		
Ga 417.206	1275429.3	9655.61	0.76%		
GaRADIAL	60879.6	751.31	1.23%		
Ag 328.068†	-1458.5	208.35	14.29%	[0.00]	mg/L
Al 396.153†	-201.2	32.00	15.91%	[0.00]	mg/L
As 188.979†	2.8	3.63	127.64%	[0.00]	mg/L
Ba 233.527†	-40.5	4.36	10.76%	[0.00]	mg/L
Be 234.861†	-580.0	19.07	3.29%	[0.00]	mg/L
B 249.677†	949.8	44.26	4.66%	[0.00]	mg/L
Ca 227.546†	-44.3	5.10	11.53%	[0.00]	mg/L
Cd 228.802†	24.3	2.68	11.00%	[0.00]	mg/L
Co 228.616†	-20.3	1.27	6.28%	[0.00]	mg/L
Cr 267.716†	-34.9	10.43	29.88%	[0.00]	mg/L
Cu 327.393†	-1271.2	52.20	4.11%	[0.00]	mg/L
Fe 239.562†	1.3	3.79	283.47%	[0.00]	mg/L
Mg 279.077†	2.4	9.14	377.13%	[0.00]	mg/L
Mn 257.610†	215.5	13.56	6.29%	[0.00]	mg/L
Mo 202.031†	-34.1	7.58	22.25%	[0.00]	mg/L
Ni 231.604†	-0.3	13.22	>999.9%	[0.00]	mg/L
Pb 220.353†	37.4	4.70	12.58%	[0.00]	mg/L
Sb 206.836†	17.1	1.10	6.45%	[0.00]	mg/L
Se 196.026†	9.5	3.91	41.11%	[0.00]	mg/L
Si 251.611†	316.5	6.49	2.05%	[0.00]	mg/L
Sn 189.927†	115.9	3.50	3.02%	[0.00]	mg/L
Ti 334.940†	-491.9	91.19	18.54%	[0.00]	mg/L
Tl 190.801†	-34.0	1.76	5.17%	[0.00]	mg/L
V 290.880†	4152.8	121.39	2.92%	[0.00]	mg/L
Zn 206.200†	330.2	12.24	3.71%	[0.00]	mg/L
K 766.490†	225.3	117.79	52.28%	[0.00]	mg/L
Na 589.592†	887.0	63.26	7.13%	[0.00]	mg/L
Sr 407.771†	-686.7	93.59	13.63%	[0.00]	mg/L
Li 670.784†	167.9	51.40	30.62%	[0.00]	mg/L

Sequence No.: 2 Autosampler Location: 2
Sample ID: S1 Date Collected: 2/23/2011 9:24:21 AM
Analyst: Data Type: Reprocessed on 2/23/2011 2:45:45 PM
Logged In Analyst (Original) : peicp2
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: S1

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Approved: February 24, 2011
Pierre Morris

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	4871784.0	79988.54	1.64%		
YRADIAL	287497.3	3746.04	1.30%		
Ga 417.206	1275556.0	32097.65	2.52%		
GaRADIAL	61454.2	388.93	0.63%		
Ag 328.068†	953.8	96.56	10.12%	[0.0040]	mg/L
Al 396.153†	525.9	51.22	9.74%	[0.10]	mg/L
Ba 233.527†	622.6	9.51	1.53%	[0.010]	mg/L
Be 234.861†	286.8	11.26	3.93%	[0.0005]	mg/L
Cd 228.802†	7.9	3.23	41.15%	[0.00050]	mg/L
Co 228.616†	29.8	2.28	7.63%	[0.0020]	mg/L
Cr 267.716†	602.0	17.85	2.96%	[0.0050]	mg/L
Cu 327.393†	710.1	22.34	3.15%	[0.0050]	mg/L
Fe 239.562†	17.7	1.06	5.96%	[0.040]	mg/L
Mg 279.077†	84.0	4.13	4.92%	[0.10]	mg/L
Mn 257.610†	2414.2	33.56	1.39%	[0.0050]	mg/L
Mo 202.031†	147.3	4.33	2.94%	[0.010]	mg/L
Ni 231.604†	178.2	14.63	8.21%	[0.0050]	mg/L
Pb 220.353†	33.8	9.02	26.66%	[0.0050]	mg/L
Sb 206.836†	19.4	1.00	5.14%	[0.012]	mg/L
Si 251.611†	1794.8	45.21	2.52%	[0.050]	mg/L
Sn 189.927†	50.7	5.70	11.25%	[0.010]	mg/L
Ti 334.940†	7407.2	225.30	3.04%	[0.010]	mg/L
V 290.880†	1717.7	122.96	7.16%	[0.010]	mg/L
Zn 206.200†	355.5	7.77	2.19%	[0.010]	mg/L
K 766.490†	1191.1	43.85	3.68%	[0.50]	mg/L
Na 589.592†	6711.4	279.30	4.16%	[0.50]	mg/L
Sr 407.771†	10822.6	440.20	4.07%	[0.010]	mg/L
Li 670.784†	864.4	77.73	8.99%	[0.010]	mg/L

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S2 **Date Collected: 2/23/2011 9:31:03 AM**
Analyst: **Data Type: Reprocessed on 2/23/2011 2:45:46 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S2

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	4950675.7	45426.71	0.92%		
YRADIAL	289632.4	2632.81	0.91%		
Ga 417.206	1275238.8	6339.96	0.50%		
GaRADIAL	61957.2	1093.11	1.76%		
Ag 328.068†	1640.4	86.98	5.30%	[0.0080]	mg/L
Al 396.153†	990.4	75.00	7.57%	[0.20]	mg/L
As 188.979†	8.4	1.35	16.17%	[0.0080]	mg/L
Ba 233.527†	1205.9	15.69	1.30%	[0.020]	mg/L
Be 234.861†	575.7	6.52	1.13%	[0.0010]	mg/L
B 249.677†	344.1	32.26	9.37%	[0.010]	mg/L
Ca 227.546†	24.6	9.93	40.33%	[0.20]	mg/L
Cd 228.802†	16.1	2.81	17.43%	[0.0010]	mg/L
Co 228.616†	76.9	1.34	1.74%	[0.0040]	mg/L
Cr 267.716†	1200.5	11.85	0.99%	[0.010]	mg/L
Cu 327.393†	1502.7	71.95	4.79%	[0.010]	mg/L
Fe 239.562†	34.9	2.16	6.20%	[0.080]	mg/L
Mg 279.077†	158.9	5.48	3.45%	[0.20]	mg/L
Mn 257.610†	4594.4	75.29	1.64%	[0.010]	mg/L
Mo 202.031†	275.5	1.26	0.46%	[0.020]	mg/L
Ni 231.604†	351.7	9.79	2.78%	[0.010]	mg/L
Pb 220.353†	65.9	4.24	6.43%	[0.010]	mg/L
Sb 206.836†	39.1	2.71	6.92%	[0.024]	mg/L

Approved: February 24, 2011

Pierre Morris

Se 196.026†	5.4	7.28	133.86%	[0.0080]	mg/L
Si 251.611†	3405.3	36.37	1.07%	[0.10]	mg/L
Sn 189.927†	99.6	5.10	5.12%	[0.020]	mg/L
Ti 334.940†	14485.0	149.29	1.03%	[0.020]	mg/L
Tl 190.801†	22.3	3.56	16.01%	[0.010]	mg/L
V 290.880†	3094.7	115.86	3.74%	[0.020]	mg/L
Zn 206.200†	650.2	3.39	0.52%	[0.020]	mg/L
K 766.490†	2416.0	93.70	3.88%	[1.00]	mg/L
Na 589.592†	13127.2	298.59	2.27%	[1.00]	mg/L
Sr 407.771†	20667.4	1214.05	5.87%	[0.020]	mg/L
Li 670.784†	1684.5	78.74	4.67%	[0.020]	mg/L

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: S3 **Date Collected: 2/23/2011 9:37:43 AM**
Analyst: **Data Type: Reprocessed on 2/23/2011 2:45:47 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S3

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	4773762.1	27518.08	0.58%		
YRADIAL	279606.5	2307.80	0.83%		
Ga 417.206	1243004.4	25668.82	2.07%		
GaRADIAL	60038.6	1160.04	1.93%		
Ag 328.068†	79837.5	2289.08	2.87%	[0.40]	mg/L
Al 396.153†	47629.4	702.44	1.47%	[10.00]	mg/L
As 188.979†	434.0	4.87	1.12%	[0.40]	mg/L
Ba 233.527†	58932.7	557.14	0.95%	[1.00]	mg/L
Be 234.861†	28754.9	725.38	2.52%	[0.05]	mg/L
B 249.677†	25900.0	698.64	2.70%	[0.50]	mg/L
Ca 227.546†	1046.3	20.12	1.92%	[10.00]	mg/L
Cd 228.802†	887.5	11.17	1.26%	[0.05]	mg/L
Co 228.616†	3872.5	17.16	0.44%	[0.20]	mg/L
Cr 267.716†	57518.1	602.02	1.05%	[0.50]	mg/L
Cu 327.393†	71808.6	2018.42	2.81%	[0.50]	mg/L
Fe 239.562†	1675.7	32.28	1.93%	[4.00]	mg/L
Mg 279.077†	7769.2	124.77	1.61%	[10.00]	mg/L
Mn 257.610†	224850.8	2592.82	1.15%	[0.50]	mg/L
Mo 202.031†	13513.2	145.04	1.07%	[1.00]	mg/L
Ni 231.604†	17267.6	223.92	1.30%	[0.50]	mg/L
Pb 220.353†	2990.6	14.56	0.49%	[0.50]	mg/L
Sb 206.836†	1916.0	33.45	1.75%	[1.20]	mg/L
Se 196.026†	567.4	12.89	2.27%	[0.40]	mg/L
Si 251.611†	171433.7	4586.58	2.68%	[5.00]	mg/L
Sn 189.927†	5904.8	3.10	0.05%	[1.00]	mg/L
Ti 334.940†	723404.1	3292.98	0.46%	[1.00]	mg/L
Tl 190.801†	861.5	6.52	0.76%	[0.50]	mg/L
V 290.880†	148754.6	1930.39	1.30%	[1.00]	mg/L
Zn 206.200†	33687.8	265.98	0.79%	[1.00]	mg/L
K 766.490†	124020.8	1474.17	1.19%	[50.00]	mg/L
Na 589.592†	646151.5	13486.28	2.09%	[50.00]	mg/L
Sr 407.771†	1007330.0	49797.17	4.94%	[1.00]	mg/L
Li 670.784†	76262.1	1075.76	1.41%	[1.00]	mg/L

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S4 **Date Collected: 2/23/2011 9:44:23 AM**
Analyst: **Data Type: Reprocessed on 2/23/2011 2:45:49 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: S4

Approved: February 24, 2011

Pierre Morris

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: S4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	4657480.1	28772.89	0.62%		
YRADIAL	275821.0	6134.56	2.22%		
Ga 417.206	1229054.9	10848.91	0.88%		
GaRADIAL	60926.0	1783.62	2.93%		
Ag 328.068†	162084.7	2247.45	1.39%	[0.80]	mg/L
Al 396.153†	92876.9	288.20	0.31%	[20.00]	mg/L
As 188.979†	883.4	8.36	0.95%	[0.80]	mg/L
Ba 233.527†	118890.8	697.38	0.59%	[2.00]	mg/L
Be 234.861†	58111.5	615.04	1.06%	[0.10]	mg/L
B 249.677†	53324.4	629.86	1.18%	[1.00]	mg/L
Ca 227.546†	2146.9	24.17	1.13%	[20.00]	mg/L
Cd 228.802†	1789.8	24.14	1.35%	[0.10]	mg/L
Co 228.616†	7853.7	51.07	0.65%	[0.40]	mg/L
Cr 267.716†	116227.8	876.79	0.75%	[1.00]	mg/L
Cu 327.393†	146752.4	2210.54	1.51%	[1.00]	mg/L
Fe 239.562†	3406.4	77.28	2.27%	[8.00]	mg/L
Mg 279.077†	15752.5	314.37	2.00%	[20.00]	mg/L
Mn 257.610†	451800.6	651.58	0.14%	[1.00]	mg/L
Mo 202.031†	27458.2	176.75	0.64%	[2.00]	mg/L
Ni 231.604†	34726.1	185.55	0.53%	[1.00]	mg/L
Pb 220.353†	6045.4	46.33	0.77%	[1.00]	mg/L
Sb 206.836†	3868.4	45.84	1.18%	[2.40]	mg/L
Se 196.026†	1142.9	15.81	1.38%	[0.80]	mg/L
Si 251.611†	350668.3	3853.00	1.10%	[10.00]	mg/L
Sn 189.927†	11986.8	88.04	0.73%	[2.00]	mg/L
Ti 334.940†	1461801.7	4478.73	0.31%	[2.00]	mg/L
Tl 190.801†	1728.0	8.96	0.52%	[1.00]	mg/L
V 290.880†	306009.1	2920.40	0.95%	[2.00]	mg/L
Zn 206.200†	67501.6	259.60	0.38%	[2.00]	mg/L
K 766.490†	245699.7	1096.29	0.45%	[100.00]	mg/L
Na 589.592†	1259257.9	44747.87	3.55%	[100.00]	mg/L
Sr 407.771†	2048296.5	163228.55	7.97%	[2.00]	mg/L
Li 670.784†	149196.5	1768.82	1.19%	[2.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Wt. Lin	140.1	198200	0.00000	0.999059	
Al 396.153	4	Wt. Lin	55.6	4694	0.00000	0.999923	
As 188.979	3	Wt. Lin	-0.4	1095	0.00000	0.999963	
Ba 233.527	4	Wt. Lin	30.2	59090	0.00000	0.999982	
Be 234.861	4	Wt. Lin	-2.3	578100	0.00000	0.999988	
B 249.677	3	Wt. Lin	-184.3	52840	0.00000	0.999917	
Ca 227.546	3	Wt. Lin	3.5	105.7	0.00000	0.999904	
Cd 228.802	4	Wt. Lin	-1.1	17720	0.00000	0.999773	
Co 228.616	4	Wt. Lin	-8.5	19900	0.00000	0.998293	
Cr 267.716	4	Wt. Lin	25.9	116000	0.00000	0.999935	
Cu 327.393	4	Wt. Lin	-10.1	146400	0.00000	0.999600	
Fe 239.562	4	Wt. Lin	0.9	422.7	0.00000	0.999961	
Mg 279.077	4	Wt. Lin	5.6	778.9	0.00000	0.999902	
Mn 257.610	4	Wt. Lin	155.1	449200	0.00000	0.999953	
Mo 202.031	4	Wt. Lin	10.5	13540	0.00000	0.999825	
Ni 231.604	4	Wt. Lin	5.1	34630	0.00000	0.999996	
Pb 220.353	4	Wt. Lin	4.0	6045	0.00000	0.999794	
Sb 206.836	4	Wt. Lin	0.2	1607	0.00000	0.999968	
Se 196.026	3	Wt. Lin	-6.0	1435	0.00000	1.000000	
Si 251.611	4	Wt. Lin	50.3	34440	0.00000	0.999726	
Sn 189.927	4	Wt. Lin	-9.8	5859	0.00000	0.998589	
Ti 334.940	4	Wt. Lin	119.2	725300	0.00000	0.999958	
Tl 190.801	3	Wt. Lin	5.1	1718	0.00000	0.999995	
V 290.880	4	Wt. Lin	198.6	149500	0.00000	0.999583	
Zn 206.200	4	Wt. Lin	14.6	33320	0.00000	0.999322	
K 766.490	4	Non Lin, Calc Int	-49.6	2505	-0.47748	1.000000	
Na 589.592	4	Non Lin, Calc Int	-10.6	13250	-6.61005	1.000000	
Sr 407.771	4	Wt. Lin	642.0	1012000	0.00000	0.999928	

Approved: February 24, 2011

Pierre Morris

Li 670.784 4 Wt. Lin 117.0 75950 0.00000 0.999626

Sequence No.: 6 **Autosampler Location: 9**
Sample ID: ICV 2nd Vendor **Date Collected: 2/23/2011 9:51:11 AM**
Analyst: **Data Type: Reprocessed on 2/23/2011 2:45:50 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICV 2nd Vendor

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: ICV 2nd Vendor

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4783407.8						40196.24	0.84%
YRADIAL	288269.1						5052.65	1.75%
Ga 417.206	1254978.7						11947.26	0.95%
GaRADIAL	61906.5						324.92	0.52%
Ag 328.068†	79760.7	0.403	mg/L	0.0078	0.403	mg/L	0.0078	1.93%
QC value within limits for Ag 328.068 Recovery = 100.71%								
Al 396.153†	47322.8	10.1	mg/L	0.04	10.1	mg/L	0.04	0.38%
QC value within limits for Al 396.153 Recovery = 100.57%								
As 188.979†	429.1	0.389	mg/L	0.0081	0.389	mg/L	0.0081	2.08%
QC value within limits for As 188.979 Recovery = 97.17%								
Ba 233.527†	59428.3	1.01	mg/L	0.015	1.01	mg/L	0.015	1.47%
QC value within limits for Ba 233.527 Recovery = 100.79%								
Be 234.861†	28209.3	0.0495	mg/L	0.00110	0.0495	mg/L	0.00110	2.22%
QC value within limits for Be 234.861 Recovery = 99.08%								
B 249.677†	26175.9	0.505	mg/L	0.0109	0.505	mg/L	0.0109	2.16%
QC value within limits for B 249.677 Recovery = 100.99%								
Ca 227.546†	1055.1	10.3	mg/L	0.15	10.3	mg/L	0.15	1.50%
QC value within limits for Ca 227.546 Recovery = 102.87%								
Cd 228.802†	878.7	0.0492	mg/L	0.00101	0.0492	mg/L	0.00101	2.05%
QC value within limits for Cd 228.802 Recovery = 98.47%								
Co 228.616†	3866.7	0.192	mg/L	0.0029	0.192	mg/L	0.0029	1.49%
QC value within limits for Co 228.616 Recovery = 96.14%								
Cr 267.716†	57783.7	0.498	mg/L	0.0091	0.498	mg/L	0.0091	1.83%
QC value within limits for Cr 267.716 Recovery = 99.63%								
Cu 327.393†	72368.0	0.496	mg/L	0.0091	0.496	mg/L	0.0091	1.84%
QC value within limits for Cu 327.393 Recovery = 99.23%								
Fe 239.562†	1661.6	3.93	mg/L	0.027	3.93	mg/L	0.027	0.69%
QC value within limits for Fe 239.562 Recovery = 98.19%								
Mg 279.077†	7687.7	9.87	mg/L	0.070	9.87	mg/L	0.070	0.71%
QC value within limits for Mg 279.077 Recovery = 98.66%								
Mn 257.610†	229851.0	0.516	mg/L	0.0068	0.516	mg/L	0.0068	1.33%
QC value within limits for Mn 257.610 Recovery = 103.21%								
Mo 202.031†	13284.4	0.981	mg/L	0.0180	0.981	mg/L	0.0180	1.83%
QC value within limits for Mo 202.031 Recovery = 98.08%								
Ni 231.604†	17475.0	0.504	mg/L	0.0077	0.504	mg/L	0.0077	1.52%
QC value within limits for Ni 231.604 Recovery = 100.87%								
Pb 220.353†	2999.7	0.501	mg/L	0.0040	0.501	mg/L	0.0040	0.79%
QC value within limits for Pb 220.353 Recovery = 100.13%								
Sb 206.836†	1945.7	1.21	mg/L	0.024	1.21	mg/L	0.024	1.97%
QC value within limits for Sb 206.836 Recovery = 101.24%								
Se 196.026†	553.8	0.393	mg/L	0.0102	0.393	mg/L	0.0102	2.61%
QC value within limits for Se 196.026 Recovery = 98.26%								
Si 251.611†	176264.5	5.10	mg/L	0.100	5.10	mg/L	0.100	1.97%
QC value within limits for Si 251.611 Recovery = 102.02%								
Sn 189.927†	5985.8	1.02	mg/L	0.015	1.02	mg/L	0.015	1.44%
QC value within limits for Sn 189.927 Recovery = 102.33%								
Ti 334.940†	730420.5	1.01	mg/L	0.001	1.01	mg/L	0.001	0.09%
QC value within limits for Ti 334.940 Recovery = 100.68%								
Tl 190.801†	861.4	0.510	mg/L	0.0057	0.510	mg/L	0.0057	1.12%
QC value within limits for Tl 190.801 Recovery = 101.99%								
V 290.880†	147358.6	0.984	mg/L	0.0143	0.984	mg/L	0.0143	1.45%
QC value within limits for V 290.880 Recovery = 98.37%								
Zn 206.200†	33255.1	1.000	mg/L	0.0136	1.000	mg/L	0.0136	1.36%
QC value within limits for Zn 206.200 Recovery = 99.99%								

Approved: February 24, 2011

Pierre Morris

K 766.490† 122554.8 49.4 mg/L 0.46 49.4 mg/L 0.46 0.93%
QC value within limits for K 766.490 Recovery = 98.71%
Na 589.592† 622838.6 48.2 mg/L 0.46 48.2 mg/L 0.46 0.96%
QC value within limits for Na 589.592 Recovery = 96.30%
Sr 407.771† 1017791.9 1.00 mg/L 0.069 1.00 mg/L 0.069 6.84%
QC value within limits for Sr 407.771 Recovery = 100.42%
Li 670.784† 75706.6 0.995 mg/L 0.0024 0.995 mg/L 0.0024 0.24%
QC value within limits for Li 670.784 Recovery = 99.52%
All analyte(s) passed QC.

Sequence No.: 7 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 2/23/2011 9:57:52 AM**
Analyst: **Data Type: Reprocessed on 2/23/2011 2:45:51 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4986851.7						4616.73	0.09%
YRADIAL	282815.9						553.14	0.20%
Ga 417.206	1294362.8						13687.85	1.06%
GaRADIAL	60704.4						1042.38	1.72%
Ag 328.068†	35.0	-0.00053	mg/L	0.000301	-0.00053	mg/L	0.000301	56.60%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-39.1	-0.0202	mg/L	0.00980	-0.0202	mg/L	0.00980	48.62%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.0	0.00035	mg/L	0.000382	0.00035	mg/L	0.000382	109.22%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	4.5	-0.00044	mg/L	0.000135	-0.00044	mg/L	0.000135	30.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	8.4	0.00002	mg/L	0.000012	0.00002	mg/L	0.000012	72.07%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	423.8	0.0116	mg/L	0.00145	0.0116	mg/L	0.00145	12.52%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	2.0	-0.0134	mg/L	0.06602	-0.0134	mg/L	0.06602	494.31%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	0.4	0.00009	mg/L	0.000075	0.00009	mg/L	0.000075	85.70%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-1.0	0.00038	mg/L	0.000226	0.00038	mg/L	0.000226	59.72%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-11.2	-0.00032	mg/L	0.000078	-0.00032	mg/L	0.000078	24.32%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	47.2	0.00039	mg/L	0.001149	0.00039	mg/L	0.001149	294.34%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	3.1	0.00526	mg/L	0.001007	0.00526	mg/L	0.001007	19.12%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	2.8	-0.00351	mg/L	0.005383	-0.00351	mg/L	0.005383	153.23%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	7.6	-0.00033	mg/L	0.000027	-0.00033	mg/L	0.000027	8.24%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	6.3	-0.00031	mg/L	0.000102	-0.00031	mg/L	0.000102	33.19%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	10.6	0.00016	mg/L	0.000172	0.00016	mg/L	0.000172	107.70%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	3.3	-0.00012	mg/L	0.000884	-0.00012	mg/L	0.000884	759.31%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	0.1	-0.00006	mg/L	0.001424	-0.00006	mg/L	0.001424	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-3.4	0.00185	mg/L	0.001810	0.00185	mg/L	0.001810	97.99%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	0.4	-0.00144	mg/L	0.000470	-0.00144	mg/L	0.000470	32.54%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-14.0	-0.00071	mg/L	0.000211	-0.00071	mg/L	0.000211	29.55%
QC value within limits for Sn 189.927 Recovery = Not calculated								

Approved: February 24, 2011

Pierre Morris

```
Ti 334.940†              1.3    -0.00016 mg/L      0.000098    -0.00016 mg/L      0.000098  60.46%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              0.5    -0.00270 mg/L      0.003309    -0.00270 mg/L      0.003309 122.74%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†              98.4    -0.00067 mg/L      0.000554    -0.00067 mg/L      0.000554  82.64%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†            -37.3    -0.00156 mg/L      0.000207    -0.00156 mg/L      0.000207  13.29%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†              89.3     0.0555 mg/L       0.02919      0.0555 mg/L       0.02919  52.63%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             94.2     0.00791 mg/L      0.006668     0.00791 mg/L      0.006668  84.29%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†            209.1    -0.00043 mg/L      0.000182    -0.00043 mg/L      0.000182  42.43%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†             71.5    -0.00060 mg/L      0.000615    -0.00060 mg/L      0.000615 102.77%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

================================================================================================================
Sequence No.: 8                                    Autosampler Location: 7
Sample ID: ICSA                                    Date Collected: 2/23/2011 10:04:29 AM
Analyst:                                           Data Type: Reprocessed on 2/23/2011 2:46:00 PM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                 Initial Sample Vol:
Dilution:                                          Sample Prep Vol:

----------------------------------------------------------------------------------------------------------------
Nebulizer Parameters: ICSA
Analyte                Back Pressure    Flow
All                   167.0 kPa         0.50 L/min

----------------------------------------------------------------------------------------------------------------
Mean Data: ICSA
                  Mean Corrected          Calib.                              Sample
Analyte              Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029          4568221.8                                                    37012.18   0.81%
YRADIAL             285987.4                                                    10410.69   3.64%
Ga 417.206         1212792.6                                                     7278.69   0.60%
GaRADIAL             63065.9                                                     1879.19   2.98%
Ag 328.068†            804.3    -0.00133 mg/L      0.000796    -0.00133 mg/L      0.000796  59.80%
   QC value within limits for Ag 328.068  Recovery = Not calculated
Al 396.153†        1103961.6         235 mg/L          11.7         235 mg/L          11.7   4.99%
   QC value within limits for Al 396.153  Recovery = 94.07%
As 188.979†             14.0     0.00421 mg/L      0.002478     0.00421 mg/L      0.002478  58.85%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†            119.2    -0.00070 mg/L      0.000222    -0.00070 mg/L      0.000222  31.89%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†            11573.4     0.00000 mg/L      0.001067     0.00000 mg/L      0.001067 >999.9%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†             -9932.5     -0.0108 mg/L       0.01436     -0.0108 mg/L       0.01436 132.88%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†            29261.9         277 mg/L           1.5         277 mg/L           1.5   0.53%
   QC value within limits for Ca 227.546  Recovery = 110.84%
Cd 228.802†              -0.8    -0.00017 mg/L      0.000152    -0.00017 mg/L      0.000152  87.59%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†              22.1    -0.00091 mg/L      0.000342    -0.00091 mg/L      0.000342  37.72%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†             615.8    -0.00072 mg/L      0.000485    -0.00072 mg/L      0.000485  67.41%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†            -1472.8     0.00079 mg/L      0.001049     0.00079 mg/L      0.001049 132.92%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†            39648.6         93.8 mg/L          5.20         93.8 mg/L          5.20   5.54%
   QC value within limits for Fe 239.562  Recovery = 93.79%
Mg 279.077†          187333.9          240 mg/L          13.0          240 mg/L          13.0   5.42%
   QC value within limits for Mg 279.077  Recovery = 96.19%
Mn 257.610†             -193.7    -0.00004 mg/L      0.000051    -0.00004 mg/L      0.000051 137.51%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              -1.9     0.00372 mg/L      0.001002     0.00372 mg/L      0.001002  26.98%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†             -66.6    -0.00212 mg/L      0.000206    -0.00212 mg/L      0.000206   9.73%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†             -91.4     0.00117 mg/L      0.001975     0.00117 mg/L      0.001975 168.54%
   QC value within limits for Pb 220.353  Recovery = Not calculated
```

Approved: February 24, 2011

Pierre Morris

```
Sb 206.836†              25.1      0.0155 mg/L       0.00226      0.0155 mg/L       0.00226  14.58%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†            -111.3     0.00434 mg/L      0.005866     0.00434 mg/L      0.005866 135.02%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†            1100.9      0.0305 mg/L       0.00115      0.0305 mg/L       0.00115   3.78%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -58.0    -0.00823 mg/L      0.000908    -0.00823 mg/L      0.000908  11.04%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†            -2373.6    -0.00067 mg/L      0.000588    -0.00067 mg/L      0.000588  87.60%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†             147.7      0.0581 mg/L       0.00155      0.0581 mg/L       0.00155   2.68%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†             -587.9     0.00194 mg/L      0.001186     0.00194 mg/L      0.001186  61.06%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†             122.4     0.00110 mg/L      0.000463     0.00110 mg/L      0.000463  42.25%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               80.2      0.0518 mg/L       0.01856      0.0518 mg/L       0.01856  35.86%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             573.2      0.0441 mg/L       0.00822      0.0441 mg/L       0.00822  18.65%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†           13482.7     0.00143 mg/L      0.000305     0.00143 mg/L      0.000305  21.38%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†             239.4     0.00161 mg/L      0.002199     0.00161 mg/L      0.002199 136.49%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

================================================================================================================
Sequence No.: 9                                    Autosampler Location: 8
Sample ID: ICSAB                                   Date Collected: 2/23/2011 10:10:11 AM
Analyst:                                           Data Type: Reprocessed on 2/23/2011 2:46:01 PM
Logged In Analyst (Original) : peicp2
Initial Sample Wt:                                 Initial Sample Vol:
Dilution:                                          Sample Prep Vol:

----------------------------------------------------------------------------------------------------------------
Nebulizer Parameters: ICSAB
Analyte                 Back Pressure    Flow
All                    166.0 kPa        0.50 L/min

----------------------------------------------------------------------------------------------------------------
Mean Data: ICSAB
                  Mean Corrected          Calib.                          Sample
Analyte              Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
Y 371.029          4384773.5                                                       31033.96   0.71%
YRADIAL             266581.1                                                        6006.99   2.25%
Ga 417.206         1184108.7                                                       23816.43   2.01%
GaRADIAL             58890.0                                                        1139.01   1.93%
Ag 328.068†          104121.9       0.520 mg/L        0.0123       0.520 mg/L        0.0123   2.36%
   QC value within limits for Ag 328.068  Recovery = 104.04%
Al 396.153†         1165722.5         248 mg/L           6.1         248 mg/L           6.1   2.44%
   QC value within limits for Al 396.153  Recovery = 99.33%
As 188.979†           283.5       0.251 mg/L        0.0039       0.251 mg/L        0.0039   1.54%
   QC value within limits for As 188.979  Recovery = 100.54%
Ba 233.527†          15143.3       0.254 mg/L        0.0022       0.254 mg/L        0.0022   0.85%
   QC value within limits for Ba 233.527  Recovery = 101.60%
Be 234.861†         160639.8       0.257 mg/L        0.0079       0.257 mg/L        0.0079   3.06%
   QC value within limits for Be 234.861  Recovery = 102.83%
B 249.677†           -9921.5     -0.0201 mg/L       0.01355     -0.0201 mg/L       0.01355  67.40%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†          29201.0         277 mg/L           4.3         277 mg/L           4.3   1.56%
   QC value within limits for Ca 227.546  Recovery = 110.76%
Cd 228.802†           8307.2       0.470 mg/L        0.0069       0.470 mg/L        0.0069   1.46%
   QC value within limits for Cd 228.802  Recovery = 93.92%
Co 228.616†           4681.2       0.233 mg/L        0.0020       0.233 mg/L        0.0020   0.87%
   QC value within limits for Co 228.616  Recovery = 93.22%
Cr 267.716†          29763.1       0.250 mg/L        0.0013       0.250 mg/L        0.0013   0.53%
   QC value within limits for Cr 267.716  Recovery = 100.14%
Cu 327.393†          35195.3       0.252 mg/L        0.0057       0.252 mg/L        0.0057   2.25%
   QC value within limits for Cu 327.393  Recovery = 100.62%
Fe 239.562†          41306.6        97.7 mg/L          0.28        97.7 mg/L          0.28   0.28%
   QC value within limits for Fe 239.562  Recovery = 97.71%
Mg 279.077†         195384.8         251 mg/L           0.7         251 mg/L           0.7   0.28%
   QC value within limits for Mg 279.077  Recovery = 100.32%
```

Approved: February 24, 2011

Pierre Morris

Mn 257.610†	113331.4	0.254 mg/L	0.0044	0.254 mg/L	0.0044	1.73%
QC value within limits for Mn 257.610 Recovery = 101.55%						
Mo 202.031†	3.1	0.00435 mg/L	0.000511	0.00435 mg/L	0.000511	11.76%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Ni 231.604†	16558.5	0.478 mg/L	0.0029	0.478 mg/L	0.0029	0.60%
QC value within limits for Ni 231.604 Recovery = 95.56%						
Pb 220.353†	2888.0	0.494 mg/L	0.0042	0.494 mg/L	0.0042	0.85%
QC value within limits for Pb 220.353 Recovery = 98.80%						
Sb 206.836†	843.5	0.523 mg/L	0.0098	0.523 mg/L	0.0098	1.87%
QC value within limits for Sb 206.836 Recovery = 104.63%						
Se 196.026†	241.5	0.250 mg/L	0.0082	0.250 mg/L	0.0082	3.27%
QC value within limits for Se 196.026 Recovery = 100.10%						
Si 251.611†	264.1	0.00621 mg/L	0.001246	0.00621 mg/L	0.001246	20.05%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-60.2	-0.00860 mg/L	0.000506	-0.00860 mg/L	0.000506	5.88%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	-2323.1	-0.00068 mg/L	0.000116	-0.00068 mg/L	0.000116	17.00%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	1016.5	0.564 mg/L	0.0012	0.564 mg/L	0.0012	0.22%
QC value within limits for Tl 190.801 Recovery = 112.75%						
V 290.880†	36945.1	0.253 mg/L	0.0043	0.253 mg/L	0.0043	1.70%
QC value within limits for V 290.880 Recovery = 101.27%						
Zn 206.200†	15927.5	0.477 mg/L	0.0045	0.477 mg/L	0.0045	0.95%
QC value within limits for Zn 206.200 Recovery = 95.33%						
K 766.490†	12995.4	5.21 mg/L	0.027	5.21 mg/L	0.027	0.51%
QC value within limits for K 766.490 Recovery = 104.14%						
Na 589.592†	66439.2	5.03 mg/L	0.027	5.03 mg/L	0.027	0.54%
QC value within limits for Na 589.592 Recovery = 100.53%						
Sr 407.771†	13630.3	0.00110 mg/L	0.000181	0.00110 mg/L	0.000181	16.46%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Li 670.784†	23.5	-0.00123 mg/L	0.000553	-0.00123 mg/L	0.000553	44.90%
QC value within limits for Li 670.784 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 10 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/23/2011 10:15:55 AM**
Analyst: **Data Type: Reprocessed on 2/23/2011 2:46:03 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4805403.4						22232.76	0.46%
YRADIAL	278370.5						4451.82	1.60%
Ga 417.206	1272602.1						13793.89	1.08%
GaRADIAL	60302.4						599.84	0.99%
Ag 328.068†	77901.1	0.393	mg/L	0.0038	0.393	mg/L	0.0038	0.97%
QC value within limits for Ag 328.068 Recovery = 98.36%								
Al 396.153†	47058.5	10.0	mg/L	0.06	10.0	mg/L	0.06	0.59%
QC value within limits for Al 396.153 Recovery = 100.00%								
As 188.979†	423.3	0.383	mg/L	0.0060	0.383	mg/L	0.0060	1.57%
QC value within limits for As 188.979 Recovery = 95.84%								
Ba 233.527†	58267.2	0.988	mg/L	0.0081	0.988	mg/L	0.0081	0.82%
QC value within limits for Ba 233.527 Recovery = 98.82%								
Be 234.861†	28098.5	0.0493	mg/L	0.00060	0.0493	mg/L	0.00060	1.22%
QC value within limits for Be 234.861 Recovery = 98.68%								
B 249.677†	25357.2	0.490	mg/L	0.0029	0.490	mg/L	0.0029	0.60%
QC value within limits for B 249.677 Recovery = 97.96%								
Ca 227.546†	1018.6	9.93	mg/L	0.118	9.93	mg/L	0.118	1.19%
QC value within limits for Ca 227.546 Recovery = 99.31%								
Cd 228.802†	860.3	0.0482	mg/L	0.00039	0.0482	mg/L	0.00039	0.81%
QC value within limits for Cd 228.802 Recovery = 96.42%								
Co 228.616†	3830.2	0.190	mg/L	0.0014	0.190	mg/L	0.0014	0.71%
QC value within limits for Co 228.616 Recovery = 95.25%								

Approved: February 24, 2011

Pierre Morris

Cr 267.716†	56606.9	0.488 mg/L	0.0036	0.488 mg/L	0.0036	0.73%
QC value within limits for Cr 267.716 Recovery = 97.61%							
Cu 327.393†	70051.1	0.480 mg/L	0.0067	0.480 mg/L	0.0067	1.40%
QC value within limits for Cu 327.393 Recovery = 96.07%							
Fe 239.562†	1680.5	3.97 mg/L	0.041	3.97 mg/L	0.041	1.02%
QC value within limits for Fe 239.562 Recovery = 99.31%							
Mg 279.077†	7800.7	10.0 mg/L	0.11	10.0 mg/L	0.11	1.06%
QC value within limits for Mg 279.077 Recovery = 100.11%							
Mn 257.610†	221873.2	0.498 mg/L	0.0053	0.498 mg/L	0.0053	1.07%
QC value within limits for Mn 257.610 Recovery = 99.64%							
Mo 202.031†	13319.2	0.983 mg/L	0.0076	0.983 mg/L	0.0076	0.77%
QC value within limits for Mo 202.031 Recovery = 98.34%							
Ni 231.604†	16978.6	0.490 mg/L	0.0037	0.490 mg/L	0.0037	0.75%
QC value within limits for Ni 231.604 Recovery = 98.00%							
Pb 220.353†	2945.4	0.492 mg/L	0.0043	0.492 mg/L	0.0043	0.88%
QC value within limits for Pb 220.353 Recovery = 98.33%							
Sb 206.836†	1857.1	1.16 mg/L	0.015	1.16 mg/L	0.015	1.30%
QC value within limits for Sb 206.836 Recovery = 96.66%							
Se 196.026†	545.5	0.387 mg/L	0.0068	0.387 mg/L	0.0068	1.76%
QC value within limits for Se 196.026 Recovery = 96.80%							
Si 251.611†	166602.1	4.82 mg/L	0.050	4.82 mg/L	0.050	1.03%
QC value within limits for Si 251.611 Recovery = 96.41%							
Sn 189.927†	5791.8	0.990 mg/L	0.0049	0.990 mg/L	0.0049	0.49%
QC value within limits for Sn 189.927 Recovery = 99.02%							
Ti 334.940†	714703.3	0.985 mg/L	0.0117	0.985 mg/L	0.0117	1.18%
QC value within limits for Ti 334.940 Recovery = 98.52%							
Tl 190.801†	850.8	0.504 mg/L	0.0034	0.504 mg/L	0.0034	0.68%
QC value within limits for Tl 190.801 Recovery = 100.71%							
V 290.880†	147142.4	0.982 mg/L	0.0101	0.982 mg/L	0.0101	1.03%
QC value within limits for V 290.880 Recovery = 98.22%							
Zn 206.200†	33001.0	0.992 mg/L	0.0062	0.992 mg/L	0.0062	0.63%
QC value within limits for Zn 206.200 Recovery = 99.22%							
K 766.490†	122444.3	49.3 mg/L	0.22	49.3 mg/L	0.22	0.44%
QC value within limits for K 766.490 Recovery = 98.62%							
Na 589.592†	635599.6	49.2 mg/L	0.60	49.2 mg/L	0.60	1.22%
QC value within limits for Na 589.592 Recovery = 98.33%							
Sr 407.771†	1004231.9	0.991 mg/L	0.0737	0.991 mg/L	0.0737	7.44%
QC value within limits for Sr 407.771 Recovery = 99.08%							
Li 670.784†	75146.7	0.988 mg/L	0.0085	0.988 mg/L	0.0085	0.86%
QC value within limits for Li 670.784 Recovery = 98.79%							

All analyte(s) passed QC.

Sequence No.: 11 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/23/2011 10:22:34 AM**
Analyst: **Data Type: Reprocessed on 2/23/2011 2:46:04 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	5086218.7						114408.25	2.25%
YRADIAL	289913.4						2111.45	0.73%
Ga 417.206	1323392.9						49043.30	3.71%
GaRADIAL	61971.7						1227.06	1.98%
Ag 328.068†	50.2	-0.00046	mg/L	0.000745	-0.00046	mg/L	0.000745	163.64%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	2.6	-0.0113	mg/L	0.01811	-0.0113	mg/L	0.01811	160.64%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	1.5	0.00171	mg/L	0.002076	0.00171	mg/L	0.002076	121.64%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	3.6	-0.00045	mg/L	0.000074	-0.00045	mg/L	0.000074	16.34%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	17.4	0.00003	mg/L	0.000036	0.00003	mg/L	0.000036	110.38%
QC value within limits for Be 234.861 Recovery = Not calculated								

Approved: February 24, 2011

Pierre Morris

B 249.677†	86.5	0.00515 mg/L	0.001238	0.00515 mg/L	0.001238	24.03%
QC value within limits for B 249.677 Recovery = Not calculated						
Ca 227.546†	0.2	-0.0310 mg/L	0.01850	-0.0310 mg/L	0.01850	59.75%
QC value within limits for Ca 227.546 Recovery = Not calculated						
Cd 228.802†	-2.8	-0.00010 mg/L	0.000166	-0.00010 mg/L	0.000166	161.16%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-1.4	0.00036 mg/L	0.000101	0.00036 mg/L	0.000101	28.22%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-14.9	-0.00035 mg/L	0.000035	-0.00035 mg/L	0.000035	9.87%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	89.6	0.00068 mg/L	0.000434	0.00068 mg/L	0.000434	63.78%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 239.562†	2.0	0.00267 mg/L	0.006111	0.00267 mg/L	0.006111	228.49%
QC value within limits for Fe 239.562 Recovery = Not calculated						
Mg 279.077†	0.4	-0.00661 mg/L	0.008536	-0.00661 mg/L	0.008536	129.22%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	-16.9	-0.00038 mg/L	0.000018	-0.00038 mg/L	0.000018	4.70%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	6.1	-0.00033 mg/L	0.000298	-0.00033 mg/L	0.000298	91.17%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Ni 231.604†	9.2	0.00012 mg/L	0.000095	0.00012 mg/L	0.000095	79.59%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	3.6	-0.00007 mg/L	0.000229	-0.00007 mg/L	0.000229	341.90%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	0.0	-0.00011 mg/L	0.000883	-0.00011 mg/L	0.000883	828.65%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-8.5	-0.00171 mg/L	0.005290	-0.00171 mg/L	0.005290	309.82%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-32.1	-0.00239 mg/L	0.000315	-0.00239 mg/L	0.000315	13.21%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-33.0	-0.00396 mg/L	0.000621	-0.00396 mg/L	0.000621	15.68%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	29.3	-0.00012 mg/L	0.000079	-0.00012 mg/L	0.000079	63.63%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	0.1	-0.00287 mg/L	0.001796	-0.00287 mg/L	0.001796	62.48%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 290.880†	-0.6	-0.00133 mg/L	0.000164	-0.00133 mg/L	0.000164	12.34%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	-40.0	-0.00164 mg/L	0.000211	-0.00164 mg/L	0.000211	12.86%
QC value within limits for Zn 206.200 Recovery = Not calculated						
K 766.490†	42.8	0.0369 mg/L	0.01591	0.0369 mg/L	0.01591	43.12%
QC value within limits for K 766.490 Recovery = Not calculated						
Na 589.592†	113.2	0.00934 mg/L	0.013294	0.00934 mg/L	0.013294	142.31%
QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771†	294.7	-0.00034 mg/L	0.000215	-0.00034 mg/L	0.000215	62.70%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Li 670.784†	21.4	-0.00126 mg/L	0.001039	-0.00126 mg/L	0.001039	82.55%
QC value within limits for Li 670.784 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 12 **Autosampler Location: 38**
Sample ID: PBW 2A WG357153-02 **Date Collected: 2/23/2011 10:29:15 AM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:10 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 2A WG357153-02

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: PBW 2A WG357153-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	4986755.8						63492.58	1.27%
YRADIAL	294248.1						3535.88	1.20%
Ga 417.206	1315835.1						23496.90	1.79%
GaRADIAL	63519.7						1051.84	1.66%
Ag 328.068†	119.3	-0.00010	mg/L	0.000402	-0.00010	mg/L	0.000402	383.07%
Al 396.153†	14.1	-0.00883	mg/L	0.012812	-0.00883	mg/L	0.012812	145.17%

Approved: February 24, 2011

Pierre Morris

As 188.979†	-0.1	0.00028 mg/L	0.001567	0.00028 mg/L	0.001567	563.74%
Ba 233.527†	-0.7	-0.00052 mg/L	0.000022	-0.00052 mg/L	0.000022	4.31%
Be 234.861†	14.9	0.00003 mg/L	0.000056	0.00003 mg/L	0.000056	202.68%
B 249.677†	-58.3	0.00242 mg/L	0.000402	0.00242 mg/L	0.000402	16.62%
Ca 227.546†	2.3	-0.0112 mg/L	0.04427	-0.0112 mg/L	0.04427	396.09%
Cd 228.802†	-1.2	0.00000 mg/L	0.000127	0.00000 mg/L	0.000127	>999.9%
Co 228.616†	-3.3	0.00026 mg/L	0.000240	0.00026 mg/L	0.000240	91.25%
Cr 267.716†	-2.9	-0.00025 mg/L	0.000176	-0.00025 mg/L	0.000176	71.36%
Cu 327.393†	52.4	0.00043 mg/L	0.001034	0.00043 mg/L	0.001034	242.23%
Fe 239.562†	3.4	0.00598 mg/L	0.004393	0.00598 mg/L	0.004393	73.49%
Mg 279.077†	2.0	-0.00460 mg/L	0.006860	-0.00460 mg/L	0.006860	149.21%
Mn 257.610†	-43.8	-0.00044 mg/L	0.000044	-0.00044 mg/L	0.000044	9.90%
Mo 202.031†	5.5	-0.00036 mg/L	0.000288	-0.00036 mg/L	0.000288	78.92%
Ni 231.604†	10.5	0.00016 mg/L	0.000178	0.00016 mg/L	0.000178	113.36%
Pb 220.353†	2.0	-0.00032 mg/L	0.000744	-0.00032 mg/L	0.000744	229.56%
Sb 206.836†	-1.9	-0.00129 mg/L	0.001463	-0.00129 mg/L	0.001463	113.18%
Se 196.026†	-4.6	0.00099 mg/L	0.003967	0.00099 mg/L	0.003967	400.54%
Si 251.611†	19.7	-0.00088 mg/L	0.000353	-0.00088 mg/L	0.000353	39.97%
Sn 189.927†	-42.0	-0.00550 mg/L	0.000791	-0.00550 mg/L	0.000791	14.40%
Ti 334.940†	-49.5	-0.00023 mg/L	0.000120	-0.00023 mg/L	0.000120	51.55%
Tl 190.801†	-0.4	-0.00319 mg/L	0.002869	-0.00319 mg/L	0.002869	89.82%
V 290.880†	187.1	-0.00008 mg/L	0.000475	-0.00008 mg/L	0.000475	619.70%
Zn 206.200†	-19.2	-0.00102 mg/L	0.000145	-0.00102 mg/L	0.000145	14.27%
K 766.490†	-19.1	0.0122 mg/L	0.01521	0.0122 mg/L	0.01521	124.51%
Na 589.592†	-221.1	-0.0159 mg/L	0.01964	-0.0159 mg/L	0.01964	123.67%
Sr 407.771†	126.4	-0.00051 mg/L	0.000219	-0.00051 mg/L	0.000219	42.89%
Li 670.784†	71.4	-0.00060 mg/L	0.000582	-0.00060 mg/L	0.000582	96.87%

Sequence No.: 13 **Autosampler Location: 39**
Sample ID: LCSW 2A WG357153-03 **Date Collected: 2/23/2011 10:35:55 AM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:14 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 2A WG357153-03

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: LCSW 2A WG357153-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4901320.2						23734.71	0.48%
YRADIAL	292375.8						4715.54	1.61%
Ga 417.206	1317412.5						38042.42	2.89%
GaRADIAL	62590.7						1332.15	2.13%
Ag 328.068†	39524.5	0.199	mg/L	0.0079	0.199	mg/L	0.0079	3.98%
Al 396.153†	23630.1	5.02	mg/L	0.028	5.02	mg/L	0.028	0.57%
As 188.979†	211.2	0.191	mg/L	0.0042	0.191	mg/L	0.0042	2.17%
Ba 233.527†	29636.3	0.502	mg/L	0.0054	0.502	mg/L	0.0054	1.07%
Be 234.861†	14063.6	0.0247	mg/L	0.00080	0.0247	mg/L	0.00080	3.25%
B 249.677†	51179.2	0.975	mg/L	0.0336	0.975	mg/L	0.0336	3.45%
Ca 227.546†	504.7	4.91	mg/L	0.102	4.91	mg/L	0.102	2.08%
Cd 228.802†	426.0	0.0239	mg/L	0.00062	0.0239	mg/L	0.00062	2.58%
Co 228.616†	1930.5	0.0962	mg/L	0.00022	0.0962	mg/L	0.00022	0.23%
Cr 267.716†	28625.4	0.247	mg/L	0.0024	0.247	mg/L	0.0024	0.97%
Cu 327.393†	35403.2	0.243	mg/L	0.0107	0.243	mg/L	0.0107	4.42%
Fe 239.562†	815.7	1.93	mg/L	0.036	1.93	mg/L	0.036	1.87%
Mg 279.077†	3849.3	4.94	mg/L	0.084	4.94	mg/L	0.084	1.71%
Mn 257.610†	114393.1	0.257	mg/L	0.0033	0.257	mg/L	0.0033	1.29%
Mo 202.031†	6771.3	0.500	mg/L	0.0094	0.500	mg/L	0.0094	1.88%
Ni 231.604†	8685.7	0.251	mg/L	0.0047	0.251	mg/L	0.0047	1.86%
Pb 220.353†	1484.9	0.248	mg/L	0.0010	0.248	mg/L	0.0010	0.42%
Sb 206.836†	916.8	0.573	mg/L	0.0130	0.573	mg/L	0.0130	2.27%
Se 196.026†	270.0	0.194	mg/L	0.0040	0.194	mg/L	0.0040	2.07%
Si 251.611†	86559.1	2.50	mg/L	0.098	2.50	mg/L	0.098	3.93%
Sn 189.927†	-38.8	-0.00495	mg/L	0.000441	-0.00495	mg/L	0.000441	8.91%
Ti 334.940†	354033.9	0.488	mg/L	0.0020	0.488	mg/L	0.0020	0.41%
Tl 190.801†	429.6	0.253	mg/L	0.0023	0.253	mg/L	0.0023	0.92%
V 290.880†	74651.7	0.498	mg/L	0.0067	0.498	mg/L	0.0067	1.35%

Approved: February 24, 2011

Pierre Morris

Zn 206.200†	16488.6	0.496 mg/L	0.0028	0.496 mg/L	0.0028	0.57%
K 766.490†	60809.6	24.4 mg/L	0.09	24.4 mg/L	0.09	0.37%
Na 589.592†	320790.8	24.5 mg/L	0.32	24.5 mg/L	0.32	1.29%
Sr 407.771†	502496.0	0.495 mg/L	0.0375	0.495 mg/L	0.0375	7.56%
Li 670.784†	37808.3	0.496 mg/L	0.0029	0.496 mg/L	0.0029	0.58%

Sequence No.: 14 **Autosampler Location: 40**
Sample ID: L1102050401 WG357153-01 **Date Collected: 2/23/2011 10:42:39 AM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:15 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102050401 WG357153-01

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102050401 WG357153-01

	Mean Corrected	Calib.		Sample		
Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	4613824.8				54636.80	1.18%
YRADIAL	288336.8				5401.01	1.87%
Ga 417.206	1230392.6				32384.36	2.63%
GaRADIAL	62362.9				1158.23	1.86%
Ag 328.068†	1408.3	0.00508 mg/L	0.001089	0.00508 mg/L	0.001089	21.44%
Al 396.153†	919.2	0.185 mg/L	0.0089	0.185 mg/L	0.0089	4.83%
As 188.979†	20.2	0.0158 mg/L	0.00132	0.0158 mg/L	0.00132	8.34%
Ba 233.527†	17851.2	0.302 mg/L	0.0031	0.302 mg/L	0.0031	1.03%
Be 234.861†	2034.4	0.00029 mg/L	0.000237	0.00029 mg/L	0.000237	82.53%
B 249.677†	67901.2	1.36 mg/L	0.031	1.36 mg/L	0.031	2.28%
Ca 227.546†	27553.4	261 mg/L	5.5	261 mg/L	5.5	2.10%
Cd 228.802†	2.0	0.00008 mg/L	0.000135	0.00008 mg/L	0.000135	171.82%
Co 228.616†	75.8	0.00372 mg/L	0.000658	0.00372 mg/L	0.000658	17.68%
Cr 267.716†	211.1	0.00112 mg/L	0.000023	0.00112 mg/L	0.000023	2.02%
Cu 327.393†	8455.3	0.0596 mg/L	0.00223	0.0596 mg/L	0.00223	3.74%
Fe 239.562†	6696.6	15.8 mg/L	0.41	15.8 mg/L	0.41	2.58%
Mg 279.077†	30267.4	38.8 mg/L	0.85	38.8 mg/L	0.85	2.18%
Mn 257.610†	494426.1	1.11 mg/L	0.009	1.11 mg/L	0.009	0.83%
Mo 202.031†	31.9	0.00259 mg/L	0.000301	0.00259 mg/L	0.000301	11.60%
Ni 231.604†	260.8	0.00733 mg/L	0.000321	0.00733 mg/L	0.000321	4.38%
Pb 220.353†	92.3	0.0263 mg/L	0.00156	0.0263 mg/L	0.00156	5.93%
Sb 206.836†	19.1	0.0118 mg/L	0.00034	0.0118 mg/L	0.00034	2.92%
Se 196.026†	-59.3	0.0333 mg/L	0.00204	0.0333 mg/L	0.00204	6.11%
Si 251.611†	534646.4	15.5 mg/L	0.33	15.5 mg/L	0.33	2.10%
Sn 189.927†	-52.7	-0.00732 mg/L	0.001754	-0.00732 mg/L	0.001754	23.98%
Ti 334.940†	-682.7	0.00150 mg/L	0.000110	0.00150 mg/L	0.000110	7.31%
Tl 190.801†	158.2	0.0673 mg/L	0.00263	0.0673 mg/L	0.00263	3.91%
V 290.880†	-888.3	-0.00607 mg/L	0.001546	-0.00607 mg/L	0.001546	25.47%
Zn 206.200†	220.5	0.00584 mg/L	0.000321	0.00584 mg/L	0.000321	5.50%
K 766.490†	41969.1	16.7 mg/L	0.13	16.7 mg/L	0.13	0.78%
Na 589.592†	1267104.7	101 mg/L	0.2	101 mg/L	0.2	0.17%
Sr 407.771†	1885101.1	1.86 mg/L	0.025	1.86 mg/L	0.025	1.32%
Li 670.784†	2647.2	0.0333 mg/L	0.00154	0.0333 mg/L	0.00154	4.63%

Sequence No.: 15 **Autosampler Location: 41**
Sample ID: L1102050401D WG357153-04 **Date Collected: 2/23/2011 10:48:22 AM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:16 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102050401D WG357153-04

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102050401D WG357153-04

	Mean Corrected	Calib.	Sample

Approved: February 24, 2011

Pierre Morris

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	4567392.0						88651.04	1.94%
YRADIAL	286180.0						3149.12	1.10%
Ga 417.206	1218034.7						26715.12	2.19%
GaRADIAL	62036.5						484.31	0.78%
Ag 328.068†	1431.2	0.00513	mg/L	0.001352	0.00513	mg/L	0.001352	26.37%
Al 396.153†	890.0	0.179	mg/L	0.0045	0.179	mg/L	0.0045	2.50%
As 188.979†	24.3	0.0193	mg/L	0.00155	0.0193	mg/L	0.00155	8.03%
Ba 233.527†	18832.2	0.318	mg/L	0.0049	0.318	mg/L	0.0049	1.56%
Be 234.861†	2121.2	0.00022	mg/L	0.000115	0.00022	mg/L	0.000115	53.19%
B 249.677†	71935.9	1.44	mg/L	0.028	1.44	mg/L	0.028	1.91%
Ca 227.546†	29088.5	275	mg/L	5.3	275	mg/L	5.3	1.94%
Cd 228.802†	2.2	0.00007	mg/L	0.000151	0.00007	mg/L	0.000151	228.95%
Co 228.616†	82.7	0.00403	mg/L	0.000279	0.00403	mg/L	0.000279	6.92%
Cr 267.716†	171.3	0.00076	mg/L	0.000073	0.00076	mg/L	0.000073	9.61%
Cu 327.393†	8663.9	0.0612	mg/L	0.00108	0.0612	mg/L	0.00108	1.76%
Fe 239.562†	7151.5	16.9	mg/L	0.39	16.9	mg/L	0.39	2.31%
Mg 279.077†	31983.3	41.0	mg/L	0.85	41.0	mg/L	0.85	2.07%
Mn 257.610†	522330.4	1.17	mg/L	0.030	1.17	mg/L	0.030	2.54%
Mo 202.031†	42.4	0.00343	mg/L	0.000911	0.00343	mg/L	0.000911	26.53%
Ni 231.604†	276.1	0.00777	mg/L	0.000298	0.00777	mg/L	0.000298	3.83%
Pb 220.353†	107.4	0.0294	mg/L	0.00292	0.0294	mg/L	0.00292	9.93%
Sb 206.836†	19.2	0.0119	mg/L	0.00240	0.0119	mg/L	0.00240	20.24%
Se 196.026†	-54.6	0.0406	mg/L	0.00425	0.0406	mg/L	0.00425	10.45%
Si 251.611†	566061.9	16.4	mg/L	0.49	16.4	mg/L	0.49	2.98%
Sn 189.927†	-41.1	-0.00535	mg/L	0.001152	-0.00535	mg/L	0.001152	21.52%
Ti 334.940†	-661.2	0.00167	mg/L	0.000039	0.00167	mg/L	0.000039	2.36%
Tl 190.801†	170.0	0.0730	mg/L	0.00185	0.0730	mg/L	0.00185	2.54%
V 290.880†	-790.3	-0.00533	mg/L	0.000143	-0.00533	mg/L	0.000143	2.67%
Zn 206.200†	234.7	0.00624	mg/L	0.000435	0.00624	mg/L	0.000435	6.98%
K 766.490†	43792.9	17.5	mg/L	0.01	17.5	mg/L	0.01	0.07%
Na 589.592†	1312039.9	104	mg/L	0.7	104	mg/L	0.7	0.66%
Sr 407.771†	1929154.1	1.90	mg/L	0.030	1.90	mg/L	0.030	1.59%
Li 670.784†	2811.0	0.0355	mg/L	0.00103	0.0355	mg/L	0.00103	2.90%

Sequence No.: 16 **Autosampler Location: 42**
Sample ID: L1102050401S WG357153-05 **Date Collected: 2/23/2011 10:54:09 AM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:17 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102050401S WG357153-05

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102050401S WG357153-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4572478.1						52959.58	1.16%
YRADIAL	285115.4						6431.90	2.26%
Ga 417.206	1229842.2						9447.50	0.77%
GaRADIAL	62156.7						914.86	1.47%
Ag 328.068†	41666.1	0.209	mg/L	0.0031	0.209	mg/L	0.0031	1.48%
Al 396.153†	23308.2	4.95	mg/L	0.158	4.95	mg/L	0.158	3.19%
As 188.979†	236.4	0.211	mg/L	0.0020	0.211	mg/L	0.0020	0.94%
Ba 233.527†	47059.2	0.797	mg/L	0.0082	0.797	mg/L	0.0082	1.02%
Be 234.861†	16885.2	0.0264	mg/L	0.00063	0.0264	mg/L	0.00063	2.38%
B 249.677†	121674.4	2.38	mg/L	0.049	2.38	mg/L	0.049	2.04%
Ca 227.546†	28009.7	265	mg/L	7.0	265	mg/L	7.0	2.64%
Cd 228.802†	429.9	0.0240	mg/L	0.00074	0.0240	mg/L	0.00074	3.08%
Co 228.616†	1958.3	0.0971	mg/L	0.00152	0.0971	mg/L	0.00152	1.57%
Cr 267.716†	28776.0	0.248	mg/L	0.0031	0.248	mg/L	0.0031	1.24%
Cu 327.393†	44157.5	0.304	mg/L	0.0065	0.304	mg/L	0.0065	2.13%
Fe 239.562†	7587.8	17.9	mg/L	0.51	17.9	mg/L	0.51	2.85%
Mg 279.077†	34273.7	44.0	mg/L	0.96	44.0	mg/L	0.96	2.19%
Mn 257.610†	610541.7	1.37	mg/L	0.002	1.37	mg/L	0.002	0.14%
Mo 202.031†	6985.4	0.516	mg/L	0.0075	0.516	mg/L	0.0075	1.45%
Ni 231.604†	8667.2	0.250	mg/L	0.0043	0.250	mg/L	0.0043	1.70%
Pb 220.353†	1551.4	0.270	mg/L	0.0038	0.270	mg/L	0.0038	1.40%

Approved: February 24, 2011

Pierre Morris

Sb 206.836†	983.4	0.614	mg/L	0.0082	0.614	mg/L	0.0082 1.34%
Se 196.026†	227.6	0.235	mg/L	0.0118	0.235	mg/L	0.0118 5.04%
Si 251.611†	623741.9	18.1	mg/L	0.24	18.1	mg/L	0.24 1.31%
Sn 189.927†	-39.7	-0.00510	mg/L	0.001541	-0.00510	mg/L	0.001541 30.20%
Ti 334.940†	371862.5	0.515	mg/L	0.0051	0.515	mg/L	0.0051 0.98%
Tl 190.801†	566.2	0.311	mg/L	0.0031	0.311	mg/L	0.0031 0.99%
V 290.880†	75097.1	0.502	mg/L	0.0072	0.502	mg/L	0.0072 1.44%
Zn 206.200†	16233.9	0.488	mg/L	0.0058	0.488	mg/L	0.0058 1.18%
K 766.490†	103808.1	41.7	mg/L	0.08	41.7	mg/L	0.08 0.18%
Na 589.592†	1582060.9	127	mg/L	0.7	127	mg/L	0.7 0.53%
Sr 407.771†	2364614.9	2.33	mg/L	0.072	2.33	mg/L	0.072 3.10%
Li 670.784†	39064.0	0.513	mg/L	0.0178	0.513	mg/L	0.0178 3.48%

Sequence No.: 17 **Autosampler Location: 43**
Sample ID: L1102052201 **Date Collected: 2/23/2011 10:59:55 AM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:18 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102052201

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102052201

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4857123.2						10916.76	0.22%
YRADIAL	293306.4						6077.08	2.07%
Ga 417.206	1331308.0						27099.70	2.04%
GaRADIAL	62297.5						437.88	0.70%
Ag 328.068†	3460.7	0.0181	mg/L	0.00055	0.0181	mg/L	0.00055	3.02%
Al 396.153†	1543.4	0.317	mg/L	0.0054	0.317	mg/L	0.0054	1.70%
As 188.979†	21.3	0.0202	mg/L	0.00245	0.0202	mg/L	0.00245	12.13%
Ba 233.527†	6338.1	0.109	mg/L	0.0017	0.109	mg/L	0.0017	1.55%
Be 234.861†	696.3	0.00009	mg/L	0.000078	0.00009	mg/L	0.000078	87.05%
B 249.677†	61750.4	1.20	mg/L	0.021	1.20	mg/L	0.021	1.77%
Ca 227.546†	1041.9	9.82	mg/L	0.170	9.82	mg/L	0.170	1.73%
Cd 228.802†	-1.8	-0.00022	mg/L	0.000081	-0.00022	mg/L	0.000081	36.83%
Co 228.616†	22.5	0.00137	mg/L	0.000308	0.00137	mg/L	0.000308	22.39%
Cr 267.716†	239.5	0.00236	mg/L	0.000373	0.00236	mg/L	0.000373	15.80%
Cu 327.393†	30725.3	0.211	mg/L	0.0015	0.211	mg/L	0.0015	0.69%
Fe 239.562†	2256.9	5.34	mg/L	0.027	5.34	mg/L	0.027	0.51%
Mg 279.077†	742.3	0.943	mg/L	0.0053	0.943	mg/L	0.0053	0.56%
Mn 257.610†	34998.7	0.0795	mg/L	0.00111	0.0795	mg/L	0.00111	1.40%
Mo 202.031†	105.7	0.00759	mg/L	0.000248	0.00759	mg/L	0.000248	3.28%
Ni 231.604†	1483.3	0.0427	mg/L	0.00034	0.0427	mg/L	0.00034	0.80%
Pb 220.353†	-2.7	-0.00105	mg/L	0.000599	-0.00105	mg/L	0.000599	57.19%
Sb 206.836†	18.3	0.0113	mg/L	0.00058	0.0113	mg/L	0.00058	5.14%
Se 196.026†	-8.7	0.00259	mg/L	0.003508	0.00259	mg/L	0.003508	135.24%
Si 251.611†	144918.2	4.21	mg/L	0.038	4.21	mg/L	0.038	0.89%
Sn 189.927†	-14.3	-0.00077	mg/L	0.000979	-0.00077	mg/L	0.000979	126.39%
Ti 334.940†	1919.9	0.00258	mg/L	0.000049	0.00258	mg/L	0.000049	1.90%
Tl 190.801†	19.9	0.00923	mg/L	0.003173	0.00923	mg/L	0.003173	34.37%
V 290.880†	146103.5	0.976	mg/L	0.0159	0.976	mg/L	0.0159	1.63%
Zn 206.200†	4704.2	0.141	mg/L	0.0004	0.141	mg/L	0.0004	0.28%
K 766.490†	7200.3	2.82	mg/L	0.043	2.82	mg/L	0.043	1.52%
Na 589.592†	903117.1	70.6	mg/L	0.78	70.6	mg/L	0.78	1.10%
Sr 407.771†	13722.1	0.0123	mg/L	0.00112	0.0123	mg/L	0.00112	9.09%
Li 670.784†	339.6	0.00293	mg/L	0.001391	0.00293	mg/L	0.001391	47.45%

Sequence No.: 18 **Autosampler Location: 44**
Sample ID: L1102052203 **Date Collected: 2/23/2011 11:06:33 AM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:24 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: February 24, 2011

Pierre Morris

Nebulizer Parameters: L1102052203

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102052203

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4794795.8						37940.48	0.79%
YRADIAL	291084.2						6350.98	2.18%
Ga 417.206	1321514.3						23912.96	1.81%
GaRADIAL	62848.4						128.47	0.20%
Ag 328.068†	118.3	-0.00015	mg/L	0.000697	-0.00015	mg/L	0.000697	474.02%
Al 396.153†	15534.6	3.30	mg/L	0.014	3.30	mg/L	0.014	0.41%
As 188.979†	1.0	0.00111	mg/L	0.002290	0.00111	mg/L	0.002290	205.98%
Ba 233.527†	9.1	-0.00037	mg/L	0.000054	-0.00037	mg/L	0.000054	14.61%
Be 234.861†	65.1	-0.00003	mg/L	0.000047	-0.00003	mg/L	0.000047	164.40%
B 249.677†	39204.3	0.745	mg/L	0.0245	0.745	mg/L	0.0245	3.29%
Ca 227.546†	72.1	0.662	mg/L	0.0448	0.662	mg/L	0.0448	6.76%
Cd 228.802†	27.3	0.00162	mg/L	0.000169	0.00162	mg/L	0.000169	10.41%
Co 228.616†	26.2	0.00172	mg/L	0.000223	0.00172	mg/L	0.000223	12.97%
Cr 267.716†	188.6	0.00132	mg/L	0.000053	0.00132	mg/L	0.000053	4.02%
Cu 327.393†	1178.4	0.00821	mg/L	0.000359	0.00821	mg/L	0.000359	4.37%
Fe 239.562†	333.9	0.788	mg/L	0.0116	0.788	mg/L	0.0116	1.47%
Mg 279.077†	311.5	0.392	mg/L	0.0058	0.392	mg/L	0.0058	1.48%
Mn 257.610†	3770.0	0.00988	mg/L	0.000074	0.00988	mg/L	0.000074	0.74%
Mo 202.031†	205.3	0.0144	mg/L	0.00019	0.0144	mg/L	0.00019	1.35%
Ni 231.604†	647.4	0.0186	mg/L	0.00023	0.0186	mg/L	0.00023	1.25%
Pb 220.353†	43.0	0.00663	mg/L	0.001114	0.00663	mg/L	0.001114	16.81%
Sb 206.836†	7.9	0.00489	mg/L	0.001352	0.00489	mg/L	0.001352	27.66%
Se 196.026†	-0.9	0.00365	mg/L	0.003222	0.00365	mg/L	0.003222	88.32%
Si 251.611†	79204.0	2.30	mg/L	0.070	2.30	mg/L	0.070	3.06%
Sn 189.927†	-44.3	-0.00589	mg/L	0.000742	-0.00589	mg/L	0.000742	12.61%
Ti 334.940†	629.6	0.00071	mg/L	0.000825	0.00071	mg/L	0.000825	116.23%
Tl 190.801†	-4.3	-0.00552	mg/L	0.002193	-0.00552	mg/L	0.002193	39.73%
V 290.880†	628.3	0.00293	mg/L	0.000256	0.00293	mg/L	0.000256	8.75%
Zn 206.200†	1379.2	0.0409	mg/L	0.00032	0.0409	mg/L	0.00032	0.78%
K 766.490†	3460.9	1.26	mg/L	0.028	1.26	mg/L	0.028	2.20%
Na 589.592†	1713914.1	139	mg/L	1.4	139	mg/L	1.4	0.98%
Sr 407.771†	526.2	-0.00021	mg/L	0.000244	-0.00021	mg/L	0.000244	117.03%
Li 670.784†	170.6	0.00071	mg/L	0.001076	0.00071	mg/L	0.001076	152.27%

Sequence No.: 19 **Autosampler Location: 45**
Sample ID: L1102052203PS WG357234-01 **Date Collected: 2/23/2011 11:13:29 AM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:29 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102052203PS WG357234-01

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102052203PS WG357234-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4823652.3						18877.69	0.39%
YRADIAL	288438.8						5593.78	1.94%
Ga 417.206	1306220.8						19705.30	1.51%
GaRADIAL	62413.5						105.38	0.17%
Ag 328.068†	39108.8	0.197	mg/L	0.0021	0.197	mg/L	0.0021	1.08%
Al 396.153†	36972.8	7.86	mg/L	0.013	7.86	mg/L	0.013	0.17%
As 188.979†	207.0	0.187	mg/L	0.0067	0.187	mg/L	0.0067	3.58%
Ba 233.527†	29397.3	0.498	mg/L	0.0011	0.498	mg/L	0.0011	0.22%
Be 234.861†	14229.3	0.0249	mg/L	0.00039	0.0249	mg/L	0.00039	1.55%
B 249.677†	87161.6	1.66	mg/L	0.014	1.66	mg/L	0.014	0.86%
Ca 227.546†	568.1	5.52	mg/L	0.071	5.52	mg/L	0.071	1.29%
Cd 228.802†	444.4	0.0250	mg/L	0.00042	0.0250	mg/L	0.00042	1.68%
Co 228.616†	1967.7	0.0981	mg/L	0.00040	0.0981	mg/L	0.00040	0.40%
Cr 267.716†	28733.3	0.248	mg/L	0.0007	0.248	mg/L	0.0007	0.27%

Approved: February 24, 2011

Pierre Morris

Cu 327.393†	36373.1	0.249	mg/L	0.0022	0.249	mg/L	0.0022	0.89%
Fe 239.562†	1126.9	2.66	mg/L	0.009	2.66	mg/L	0.009	0.33%
Mg 279.077†	4148.2	5.32	mg/L	0.036	5.32	mg/L	0.036	0.68%
Mn 257.610†	117994.2	0.266	mg/L	0.0011	0.266	mg/L	0.0011	0.42%
Mo 202.031†	6865.5	0.507	mg/L	0.0044	0.507	mg/L	0.0044	0.86%
Ni 231.604†	9256.7	0.267	mg/L	0.0015	0.267	mg/L	0.0015	0.55%
Pb 220.353†	1504.6	0.251	mg/L	0.0013	0.251	mg/L	0.0013	0.50%
Sb 206.836†	914.1	0.571	mg/L	0.0076	0.571	mg/L	0.0076	1.33%
Se 196.026†	266.1	0.191	mg/L	0.0025	0.191	mg/L	0.0025	1.31%
Si 251.611†	155054.4	4.49	mg/L	0.058	4.49	mg/L	0.058	1.28%
Sn 189.927†	-56.1	-0.00790	mg/L	0.000439	-0.00790	mg/L	0.000439	5.56%
Ti 334.940†	358872.7	0.495	mg/L	0.0024	0.495	mg/L	0.0024	0.48%
Tl 190.801†	427.4	0.251	mg/L	0.0055	0.251	mg/L	0.0055	2.18%
V 290.880†	74993.1	0.500	mg/L	0.0022	0.500	mg/L	0.0022	0.44%
Zn 206.200†	17980.0	0.540	mg/L	0.0023	0.540	mg/L	0.0023	0.43%
K 766.490†	63962.1	25.5	mg/L	0.23	25.5	mg/L	0.23	0.90%
Na 589.592†	1826043.6	149	mg/L	2.5	149	mg/L	2.5	1.69%
Sr 407.771†	505778.5	0.499	mg/L	0.0461	0.499	mg/L	0.0461	9.25%
Li 670.784†	38672.2	0.508	mg/L	0.0050	0.508	mg/L	0.0050	0.98%

Sequence No.: 20 **Autosampler Location: 46**
Sample ID: L1102052203DL WG357234-02 **Date Collected: 2/23/2011 11:20:14 AM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:30 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102052203DL WG357234-02

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102052203DL WG357234-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5040551.0						86376.43	1.71%
YRADIAL	294804.0						7592.97	2.58%
Ga 417.206	1365858.9						39989.75	2.93%
GaRADIAL	63539.0						2342.00	3.69%
Ag 328.068†	247.9	0.00054	mg/L	0.000331	0.00054	mg/L	0.000331	61.89%
Al 396.153†	3188.2	0.667	mg/L	0.0085	0.667	mg/L	0.0085	1.27%
As 188.979†	2.1	0.00228	mg/L	0.002890	0.00228	mg/L	0.002890	126.60%
Ba 233.527†	1.2	-0.00050	mg/L	0.000078	-0.00050	mg/L	0.000078	15.69%
Be 234.861†	63.3	0.00008	mg/L	0.000037	0.00008	mg/L	0.000037	44.67%
B 249.677†	8910.8	0.172	mg/L	0.0059	0.172	mg/L	0.0059	3.44%
Ca 227.546†	22.7	0.184	mg/L	0.0179	0.184	mg/L	0.0179	9.71%
Cd 228.802†	3.9	0.00028	mg/L	0.000062	0.00028	mg/L	0.000062	22.30%
Co 228.616†	3.0	0.00058	mg/L	0.000168	0.00058	mg/L	0.000168	29.13%
Cr 267.716†	29.6	0.00002	mg/L	0.000064	0.00002	mg/L	0.000064	415.06%
Cu 327.393†	358.4	0.00253	mg/L	0.001036	0.00253	mg/L	0.001036	40.90%
Fe 239.562†	67.8	0.158	mg/L	0.0069	0.158	mg/L	0.0069	4.36%
Mg 279.077†	61.0	0.0711	mg/L	0.00108	0.0711	mg/L	0.00108	1.52%
Mn 257.610†	757.9	0.00169	mg/L	0.000035	0.00169	mg/L	0.000035	2.07%
Mo 202.031†	46.7	0.00268	mg/L	0.000432	0.00268	mg/L	0.000432	16.12%
Ni 231.604†	127.0	0.00352	mg/L	0.000150	0.00352	mg/L	0.000150	4.26%
Pb 220.353†	13.6	0.00163	mg/L	0.000660	0.00163	mg/L	0.000660	40.49%
Sb 206.836†	0.6	0.00029	mg/L	0.001550	0.00029	mg/L	0.001550	532.39%
Se 196.026†	0.8	0.00479	mg/L	0.005273	0.00479	mg/L	0.005273	110.13%
Si 251.611†	15469.9	0.448	mg/L	0.0157	0.448	mg/L	0.0157	3.51%
Sn 189.927†	-54.4	-0.00762	mg/L	0.000744	-0.00762	mg/L	0.000744	9.77%
Ti 334.940†	-1.8	-0.00017	mg/L	0.000063	-0.00017	mg/L	0.000063	38.11%
Tl 190.801†	0.2	-0.00285	mg/L	0.000833	-0.00285	mg/L	0.000833	29.19%
V 290.880†	204.0	0.00005	mg/L	0.000849	0.00005	mg/L	0.000849	>999.9%
Zn 206.200†	243.4	0.00686	mg/L	0.000431	0.00686	mg/L	0.000431	6.29%
K 766.490†	656.0	0.256	mg/L	0.0080	0.256	mg/L	0.0080	3.13%
Na 589.592†	342158.3	26.2	mg/L	0.36	26.2	mg/L	0.36	1.36%
Sr 407.771†	164.9	-0.00049	mg/L	0.000160	-0.00049	mg/L	0.000160	32.66%
Li 670.784†	266.1	0.00196	mg/L	0.000584	0.00196	mg/L	0.000584	29.74%

Sequence No.: 21 **Autosampler Location: 47**

Approved: February 24, 2011

Pierre Morris

Sample ID: L1102052311 Date Collected: 2/23/2011 11:26:56 AM
Analyst: PDM Data Type: Reprocessed on 2/23/2011 2:46:31 PM
Logged In Analyst (Original) : peicp2
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: L1102052311

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102052311

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4590256.6						47698.43	1.04%
YRADIAL	275467.0						4300.81	1.56%
Ga 417.206	1238689.4						30260.80	2.44%
GaRADIAL	60814.9						731.54	1.20%
Ag 328.068†	299.9	-0.00033	mg/L	0.000141	-0.00033	mg/L	0.000141	42.87%
Al 396.153†	662.7	0.131	mg/L	0.0027	0.131	mg/L	0.0027	2.03%
As 188.979†	0.5	0.00374	mg/L	0.003504	0.00374	mg/L	0.003504	93.81%
Ba 233.527†	3997.3	0.0672	mg/L	0.00069	0.0672	mg/L	0.00069	1.03%
Be 234.861†	2517.2	-0.00020	mg/L	0.000151	-0.00020	mg/L	0.000151	76.07%
B 249.677†	6818.4	0.233	mg/L	0.0023	0.233	mg/L	0.0023	0.97%
Ca 227.546†	801.9	7.69	mg/L	0.221	7.69	mg/L	0.221	2.87%
Cd 228.802†	-0.3	0.00008	mg/L	0.000104	0.00008	mg/L	0.000104	126.07%
Co 228.616†	20.8	0.00086	mg/L	0.000379	0.00086	mg/L	0.000379	43.93%
Cr 267.716†	2295.9	0.0195	mg/L	0.00051	0.0195	mg/L	0.00051	2.63%
Cu 327.393†	25271.0	0.175	mg/L	0.0014	0.175	mg/L	0.0014	0.82%
Fe 239.562†	9139.5	21.6	mg/L	0.36	21.6	mg/L	0.36	1.69%
Mg 279.077†	216.5	0.259	mg/L	0.0006	0.259	mg/L	0.0006	0.25%
Mn 257.610†	155755.6	0.359	mg/L	0.0028	0.359	mg/L	0.0028	0.79%
Mo 202.031†	114.6	0.00881	mg/L	0.000251	0.00881	mg/L	0.000251	2.85%
Ni 231.604†	4492.1	0.130	mg/L	0.0015	0.130	mg/L	0.0015	1.14%
Pb 220.353†	30.9	0.00374	mg/L	0.000325	0.00374	mg/L	0.000325	8.67%
Sb 206.836†	10.0	0.00603	mg/L	0.001226	0.00603	mg/L	0.001226	20.35%
Se 196.026†	-18.9	0.00075	mg/L	0.004760	0.00075	mg/L	0.004760	630.80%
Si 251.611†	1022204.3	29.7	mg/L	0.32	29.7	mg/L	0.32	1.09%
Sn 189.927†	-39.5	-0.00508	mg/L	0.000822	-0.00508	mg/L	0.000822	16.20%
Ti 334.940†	4381.1	0.00595	mg/L	0.000125	0.00595	mg/L	0.000125	2.11%
Tl 190.801†	13.7	0.00492	mg/L	0.003706	0.00492	mg/L	0.003706	75.31%
V 290.880†	1121.7	0.00783	mg/L	0.000424	0.00783	mg/L	0.000424	5.41%
Zn 206.200†	72479.7	2.17	mg/L	0.033	2.17	mg/L	0.033	1.50%
K 766.490†	460819.8	191	mg/L	5.0	191	mg/L	5.0	2.65%
Na 589.592†	3375683.3	299	mg/L	12.9	299	mg/L	12.9	4.32%
Sr 407.771†	54159.0	0.0503	mg/L	0.00359	0.0503	mg/L	0.00359	7.14%
Li 670.784†	1691.0	0.0207	mg/L	0.00169	0.0207	mg/L	0.00169	8.18%

==========

Sequence No.: 22 Autosampler Location: 6
Sample ID: CCV Date Collected: 2/23/2011 11:33:46 AM
Analyst: Data Type: Reprocessed on 2/23/2011 2:46:32 PM
Logged In Analyst (Original) : peicp2
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4906306.7						64414.16	1.31%
YRADIAL	285669.2						4891.25	1.71%
Ga 417.206	1284026.5						31158.29	2.43%
GaRADIAL	61159.0						2033.40	3.32%
Ag 328.068†	77565.5	0.392	mg/L	0.0113	0.392	mg/L	0.0113	2.90%
QC value within limits for Ag 328.068 Recovery = 97.93%								
Al 396.153†	46915.7	9.97	mg/L	0.266	9.97	mg/L	0.266	2.67%

Approved: February 24, 2011

Pierre Morris

QC value within limits for Al 396.153 Recovery = 99.70%

As 188.979†	421.1	0.381 mg/L	0.0104	0.381 mg/L	0.0104	2.73%
QC value within limits for As 188.979 Recovery = 95.34%						
Ba 233.527†	57296.8	0.972 mg/L	0.0245	0.972 mg/L	0.0245	2.52%
QC value within limits for Ba 233.527 Recovery = 97.18%						
Be 234.861†	28092.7	0.0493 mg/L	0.00135	0.0493 mg/L	0.00135	2.74%
QC value within limits for Be 234.861 Recovery = 98.65%						
B 249.677†	26449.0	0.510 mg/L	0.0156	0.510 mg/L	0.0156	3.06%
QC value within limits for B 249.677 Recovery = 102.00%						
Ca 227.546†	1012.6	9.87 mg/L	0.187	9.87 mg/L	0.187	1.90%
QC value within limits for Ca 227.546 Recovery = 98.70%						
Cd 228.802†	859.8	0.0482 mg/L	0.00108	0.0482 mg/L	0.00108	2.23%
QC value within limits for Cd 228.802 Recovery = 96.31%						
Co 228.616†	3760.9	0.187 mg/L	0.0019	0.187 mg/L	0.0019	1.00%
QC value within limits for Co 228.616 Recovery = 93.52%						
Cr 267.716†	55607.1	0.479 mg/L	0.0102	0.479 mg/L	0.0102	2.13%
QC value within limits for Cr 267.716 Recovery = 95.88%						
Cu 327.393†	69648.5	0.478 mg/L	0.0124	0.478 mg/L	0.0124	2.60%
QC value within limits for Cu 327.393 Recovery = 95.51%						
Fe 239.562†	1638.6	3.87 mg/L	0.139	3.87 mg/L	0.139	3.59%
QC value within limits for Fe 239.562 Recovery = 96.83%						
Mg 279.077†	7602.0	9.76 mg/L	0.319	9.76 mg/L	0.319	3.27%
QC value within limits for Mg 279.077 Recovery = 97.56%						
Mn 257.610†	217802.5	0.489 mg/L	0.0111	0.489 mg/L	0.0111	2.28%
QC value within limits for Mn 257.610 Recovery = 97.83%						
Mo 202.031†	13114.5	0.968 mg/L	0.0229	0.968 mg/L	0.0229	2.37%
QC value within limits for Mo 202.031 Recovery = 96.83%						
Ni 231.604†	16752.9	0.483 mg/L	0.0127	0.483 mg/L	0.0127	2.63%
QC value within limits for Ni 231.604 Recovery = 96.70%						
Pb 220.353†	2895.4	0.483 mg/L	0.0061	0.483 mg/L	0.0061	1.26%
QC value within limits for Pb 220.353 Recovery = 96.66%						
Sb 206.836†	1847.1	1.15 mg/L	0.027	1.15 mg/L	0.027	2.38%
QC value within limits for Sb 206.836 Recovery = 96.13%						
Se 196.026†	542.0	0.385 mg/L	0.0114	0.385 mg/L	0.0114	2.97%
QC value within limits for Se 196.026 Recovery = 96.17%						
Si 251.611†	165995.0	4.80 mg/L	0.140	4.80 mg/L	0.140	2.92%
QC value within limits for Si 251.611 Recovery = 96.06%						
Sn 189.927†	5651.4	0.966 mg/L	0.0100	0.966 mg/L	0.0100	1.04%
QC value within limits for Sn 189.927 Recovery = 96.63%						
Ti 334.940†	706082.2	0.973 mg/L	0.0040	0.973 mg/L	0.0040	0.42%
QC value within limits for Ti 334.940 Recovery = 97.33%						
Tl 190.801†	828.5	0.490 mg/L	0.0072	0.490 mg/L	0.0072	1.47%
QC value within limits for Tl 190.801 Recovery = 98.09%						
V 290.880†	144176.3	0.962 mg/L	0.0208	0.962 mg/L	0.0208	2.16%
QC value within limits for V 290.880 Recovery = 96.24%						
Zn 206.200†	32556.7	0.979 mg/L	0.0231	0.979 mg/L	0.0231	2.36%
QC value within limits for Zn 206.200 Recovery = 97.88%						
K 766.490†	122689.2	49.4 mg/L	0.88	49.4 mg/L	0.88	1.78%
QC value within limits for K 766.490 Recovery = 98.82%						
Na 589.592†	637621.1	49.3 mg/L	1.69	49.3 mg/L	1.69	3.42%
QC value within limits for Na 589.592 Recovery = 98.65%						
Sr 407.771†	992430.3	0.979 mg/L	0.0456	0.979 mg/L	0.0456	4.66%
QC value within limits for Sr 407.771 Recovery = 97.91%						
Li 670.784†	75230.9	0.989 mg/L	0.0237	0.989 mg/L	0.0237	2.39%
QC value within limits for Li 670.784 Recovery = 98.90%						

All analyte(s) passed QC.

==========

Sequence No.: 23 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/23/2011 11:40:29 AM**
Analyst: **Data Type: Reprocessed on 2/23/2011 2:46:38 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCB

	Mean Corrected	Calib.	Sample

Approved: February 24, 2011

Pierre Morris

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	4995746.6						36544.78	0.73%
YRADIAL	295033.5						3714.68	1.26%
Ga 417.206	1291232.7						7104.85	0.55%
GaRADIAL	63176.0						1719.10	2.72%
Ag 328.068†	16.5	-0.00063	mg/L	0.000958	-0.00063	mg/L	0.000958	153.27%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-6.3	-0.0132	mg/L	0.00280	-0.0132	mg/L	0.00280	21.26%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	1.5	0.00174	mg/L	0.001097	0.00174	mg/L	0.001097	63.00%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	3.8	-0.00045	mg/L	0.000111	-0.00045	mg/L	0.000111	24.74%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	3.6	0.00001	mg/L	0.000019	0.00001	mg/L	0.000019	208.76%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	1186.9	0.0260	mg/L	0.00067	0.0260	mg/L	0.00067	2.58%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	6.4	0.0278	mg/L	0.05449	0.0278	mg/L	0.05449	196.33%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-0.8	0.00001	mg/L	0.000218	0.00001	mg/L	0.000218	>999.9%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	0.1	0.00043	mg/L	0.000251	0.00043	mg/L	0.000251	57.90%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-1.2	-0.00023	mg/L	0.000100	-0.00023	mg/L	0.000100	42.73%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-49.1	-0.00027	mg/L	0.001029	-0.00027	mg/L	0.001029	384.94%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	2.2	0.00309	mg/L	0.003037	0.00309	mg/L	0.003037	98.24%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	4.5	-0.00142	mg/L	0.004709	-0.00142	mg/L	0.004709	331.49%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	39.1	-0.00025	mg/L	0.000035	-0.00025	mg/L	0.000035	13.63%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	7.9	-0.00019	mg/L	0.000392	-0.00019	mg/L	0.000392	209.33%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	11.4	0.00019	mg/L	0.000092	0.00019	mg/L	0.000092	49.57%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	3.0	-0.00016	mg/L	0.000895	-0.00016	mg/L	0.000895	575.56%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	0.6	0.00022	mg/L	0.002055	0.00022	mg/L	0.002055	935.65%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-6.9	-0.00062	mg/L	0.002162	-0.00062	mg/L	0.002162	347.78%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	112.6	0.00181	mg/L	0.000637	0.00181	mg/L	0.000637	35.15%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-49.1	-0.00672	mg/L	0.000340	-0.00672	mg/L	0.000340	5.06%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-37.9	-0.00022	mg/L	0.000059	-0.00022	mg/L	0.000059	27.41%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-3.1	-0.00475	mg/L	0.004356	-0.00475	mg/L	0.004356	91.65%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	42.8	-0.00104	mg/L	0.000739	-0.00104	mg/L	0.000739	70.93%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-57.2	-0.00215	mg/L	0.000085	-0.00215	mg/L	0.000085	3.92%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490†	176.7	0.0903	mg/L	0.01687	0.0903	mg/L	0.01687	18.67%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	486.4	0.0375	mg/L	0.02225	0.0375	mg/L	0.02225	59.34%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771†	428.6	-0.00021	mg/L	0.000475	-0.00021	mg/L	0.000475	224.85%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Li 670.784†	148.8	0.00042	mg/L	0.000996	0.00042	mg/L	0.000996	237.47%
QC value within limits for Li 670.784 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 24 **Autosampler Location: 48**
Sample ID: L1102052401 **Date Collected: 2/23/2011 11:47:06 AM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:43 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: February 24, 2011

Pierre Morris

Nebulizer Parameters: L1102052401

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102052401

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4921268.1						8547.06	0.17%
YRADIAL	295981.8						3871.60	1.31%
Ga 417.206	1336222.1						3099.40	0.23%
GaRADIAL	63344.4						998.86	1.58%
Ag 328.068†	210.3	0.00000	mg/L	0.000695	0.00000	mg/L	0.000695	>999.9%
Al 396.153†	73501.2	15.6	mg/L	0.07	15.6	mg/L	0.07	0.44%
As 188.979†	6.2	0.00569	mg/L	0.001808	0.00569	mg/L	0.001808	31.79%
Ba 233.527†	1330.8	0.0219	mg/L	0.00009	0.0219	mg/L	0.00009	0.39%
Be 234.861†	801.0	0.00015	mg/L	0.000063	0.00015	mg/L	0.000063	40.73%
B 249.677†	823.0	0.0296	mg/L	0.00148	0.0296	mg/L	0.00148	5.00%
Ca 227.546†	660.3	6.24	mg/L	0.035	6.24	mg/L	0.035	0.57%
Cd 228.802†	-1.8	-0.00007	mg/L	0.000185	-0.00007	mg/L	0.000185	259.72%
Co 228.616†	12.1	0.00087	mg/L	0.000230	0.00087	mg/L	0.000230	26.50%
Cr 267.716†	510.5	0.00364	mg/L	0.000020	0.00364	mg/L	0.000020	0.55%
Cu 327.393†	5784.5	0.0403	mg/L	0.00087	0.0403	mg/L	0.00087	2.16%
Fe 239.562†	2547.5	6.02	mg/L	0.095	6.02	mg/L	0.095	1.58%
Mg 279.077†	1071.6	1.37	mg/L	0.020	1.37	mg/L	0.020	1.45%
Mn 257.610†	166946.0	0.373	mg/L	0.0038	0.373	mg/L	0.0038	1.03%
Mo 202.031†	28.8	0.00172	mg/L	0.000106	0.00172	mg/L	0.000106	6.17%
Ni 231.604†	444.1	0.0127	mg/L	0.00026	0.0127	mg/L	0.00026	2.08%
Pb 220.353†	1.7	0.00011	mg/L	0.001592	0.00011	mg/L	0.001592	>999.9%
Sb 206.836†	2.8	0.00157	mg/L	0.000337	0.00157	mg/L	0.000337	21.46%
Se 196.026†	-13.1	-0.00303	mg/L	0.006985	-0.00303	mg/L	0.006985	230.31%
Si 251.611†	129244.7	3.75	mg/L	0.023	3.75	mg/L	0.023	0.61%
Sn 189.927†	-47.5	-0.00643	mg/L	0.000471	-0.00643	mg/L	0.000471	7.32%
Ti 334.940†	1847.1	0.00244	mg/L	0.000661	0.00244	mg/L	0.000661	27.07%
Tl 190.801†	13.0	0.00464	mg/L	0.002959	0.00464	mg/L	0.002959	63.81%
V 290.880†	450.5	0.00214	mg/L	0.001093	0.00214	mg/L	0.001093	50.97%
Zn 206.200†	3480.2	0.104	mg/L	0.0003	0.104	mg/L	0.0003	0.28%
K 766.490†	25239.2	10.1	mg/L	0.06	10.1	mg/L	0.06	0.62%
Na 589.592†	754942.2	58.7	mg/L	0.59	58.7	mg/L	0.59	1.00%
Sr 407.771†	28916.5	0.0272	mg/L	0.00263	0.0272	mg/L	0.00263	9.68%
Li 670.784†	345.4	0.00301	mg/L	0.001340	0.00301	mg/L	0.001340	44.55%

==========

Sequence No.: 25 **Autosampler Location: 49**
Sample ID: L1102052402 **Date Collected: 2/23/2011 11:53:52 AM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:44 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102052402

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102052402

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5044156.8						92253.57	1.83%
YRADIAL	294032.9						3815.28	1.30%
Ga 417.206	1375713.5						34305.23	2.49%
GaRADIAL	64074.8						1651.13	2.58%
Ag 328.068†	168.8	0.00013	mg/L	0.000312	0.00013	mg/L	0.000312	242.85%
Al 396.153†	98.8	0.00922	mg/L	0.012636	0.00922	mg/L	0.012636	137.05%
As 188.979†	0.8	0.00118	mg/L	0.001276	0.00118	mg/L	0.001276	108.52%
Ba 233.527†	643.5	0.0104	mg/L	0.00016	0.0104	mg/L	0.00016	1.58%
Be 234.861†	60.0	0.00008	mg/L	0.000020	0.00008	mg/L	0.000020	23.59%
B 249.677†	940.4	0.0217	mg/L	0.00173	0.0217	mg/L	0.00173	7.94%
Ca 227.546†	659.3	6.20	mg/L	0.176	6.20	mg/L	0.176	2.83%
Cd 228.802†	-2.6	0.00002	mg/L	0.000041	0.00002	mg/L	0.000041	236.42%
Co 228.616†	184.5	0.00970	mg/L	0.000161	0.00970	mg/L	0.000161	1.66%

Approved: February 24, 2011

Pierre Morris

Cr 267.716†	2900.1	0.0248	mg/L	0.00047	0.0248	mg/L	0.00047 1.91%
Cu 327.393†	7384.7	0.0505	mg/L	0.00068	0.0505	mg/L	0.00068 1.36%
Fe 239.562†	52.5	0.122	mg/L	0.0012	0.122	mg/L	0.0012 1.01%
Mg 279.077†	1071.6	1.37	mg/L	0.036	1.37	mg/L	0.036 2.60%
Mn 257.610†	838.2	0.00242	mg/L	0.000059	0.00242	mg/L	0.000059 2.45%
Mo 202.031†	2.2	-0.00061	mg/L	0.000288	-0.00061	mg/L	0.000288 47.17%
Ni 231.604†	519.3	0.0148	mg/L	0.00033	0.0148	mg/L	0.00033 2.22%
Pb 220.353†	17.0	0.00241	mg/L	0.001005	0.00241	mg/L	0.001005 41.77%
Sb 206.836†	0.6	0.00010	mg/L	0.002288	0.00010	mg/L	0.002288 >999.9%
Se 196.026†	-6.6	0.00118	mg/L	0.009183	0.00118	mg/L	0.009183 776.18%
Si 251.611†	130645.7	3.79	mg/L	0.084	3.79	mg/L	0.084 2.23%
Sn 189.927†	-49.0	-0.00669	mg/L	0.001243	-0.00669	mg/L	0.001243 18.58%
Ti 334.940†	112.4	0.00005	mg/L	0.000061	0.00005	mg/L	0.000061 134.49%
Tl 190.801†	16.7	0.00617	mg/L	0.000439	0.00617	mg/L	0.000439 7.11%
V 290.880†	116.5	-0.00054	mg/L	0.000162	-0.00054	mg/L	0.000162 29.98%
Zn 206.200†	10450.7	0.313	mg/L	0.0074	0.313	mg/L	0.0074 2.36%
K 766.490†	4346.8	1.74	mg/L	0.058	1.74	mg/L	0.058 3.35%
Na 589.592†	190558.2	14.5	mg/L	0.27	14.5	mg/L	0.27 1.84%
Sr 407.771†	30082.9	0.0291	mg/L	0.00194	0.0291	mg/L	0.00194 6.67%
Li 670.784†	207.0	0.00119	mg/L	0.001849	0.00119	mg/L	0.001849 156.06%

Sequence No.: 26 **Autosampler Location: 50**
Sample ID: L1102052404 **Date Collected: 2/23/2011 12:00:34 PM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:45 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102052404

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102052404

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5048777.2						94738.60	1.88%
YRADIAL	301932.8						8081.70	2.68%
Ga 417.206	1363877.2						42990.08	3.15%
GaRADIAL	65960.7						2152.58	3.26%
Ag 328.068†	538.9	0.00191	mg/L	0.000282	0.00191	mg/L	0.000282	14.79%
Al 396.153†	277.9	0.0474	mg/L	0.00423	0.0474	mg/L	0.00423	8.93%
As 188.979†	-0.4	0.00142	mg/L	0.000483	0.00142	mg/L	0.000483	33.93%
Ba 233.527†	1118.0	0.0184	mg/L	0.00032	0.0184	mg/L	0.00032	1.74%
Be 234.861†	289.4	0.00032	mg/L	0.000039	0.00032	mg/L	0.000039	12.14%
B 249.677†	865.1	0.0233	mg/L	0.00243	0.0233	mg/L	0.00243	10.41%
Ca 227.546†	678.3	6.41	mg/L	0.213	6.41	mg/L	0.213	3.32%
Cd 228.802†	5.0	0.00154	mg/L	0.000185	0.00154	mg/L	0.000185	12.06%
Co 228.616†	2146.1	0.108	mg/L	0.0021	0.108	mg/L	0.0021	1.93%
Cr 267.716†	27487.1	0.237	mg/L	0.0028	0.237	mg/L	0.0028	1.19%
Cu 327.393†	92402.7	0.631	mg/L	0.0177	0.631	mg/L	0.0177	2.81%
Fe 239.562†	412.5	0.973	mg/L	0.0428	0.973	mg/L	0.0428	4.39%
Mg 279.077†	1065.4	1.36	mg/L	0.053	1.36	mg/L	0.053	3.88%
Mn 257.610†	7597.1	0.0179	mg/L	0.00039	0.0179	mg/L	0.00039	2.19%
Mo 202.031†	24.6	0.00108	mg/L	0.000231	0.00108	mg/L	0.000231	21.34%
Ni 231.604†	2567.0	0.0740	mg/L	0.00136	0.0740	mg/L	0.00136	1.84%
Pb 220.353†	53.1	0.00792	mg/L	0.001083	0.00792	mg/L	0.001083	13.67%
Sb 206.836†	6.8	0.00258	mg/L	0.001162	0.00258	mg/L	0.001162	45.03%
Se 196.026†	-7.8	0.00084	mg/L	0.002106	0.00084	mg/L	0.002106	250.49%
Si 251.611†	138661.3	4.02	mg/L	0.067	4.02	mg/L	0.067	1.67%
Sn 189.927†	54.7	0.0110	mg/L	0.00107	0.0110	mg/L	0.00107	9.70%
Ti 334.940†	136.3	0.00002	mg/L	0.000239	0.00002	mg/L	0.000239	>999.9%
Tl 190.801†	16.3	0.00561	mg/L	0.004683	0.00561	mg/L	0.004683	83.50%
V 290.880†	100.3	-0.00058	mg/L	0.001145	-0.00058	mg/L	0.001145	196.21%
Zn 206.200†	138754.6	4.16	mg/L	0.049	4.16	mg/L	0.049	1.19%
K 766.490†	4842.3	1.93	mg/L	0.041	1.93	mg/L	0.041	2.14%
Na 589.592†	250496.7	19.1	mg/L	0.04	19.1	mg/L	0.04	0.19%
Sr 407.771†	30833.1	0.0297	mg/L	0.00233	0.0297	mg/L	0.00233	7.85%
Li 670.784†	-75.9	-0.00254	mg/L	0.001881	-0.00254	mg/L	0.001881	74.05%

Approved: February 24, 2011

Pierre Morris

Sequence No.: 27
Sample ID: CCV
Analyst:
Logged In Analyst (Original) : peicp2
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/23/2011 12:07:12 PM
Data Type: Reprocessed on 2/23/2011 2:46:46 PM
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4732896.9						67308.68	1.42%
YRADIAL	285686.2						6460.15	2.26%
Ga 417.206	1247004.0						25806.84	2.07%
GaRADIAL	61411.4						1457.20	2.37%
Ag 328.068†	79667.3	0.402	mg/L	0.0069	0.402	mg/L	0.0069	1.72%
QC value within limits for Ag 328.068 Recovery = 100.60%								
Al 396.153†	46684.1	9.92	mg/L	0.084	9.92	mg/L	0.084	0.85%
QC value within limits for Al 396.153 Recovery = 99.20%								
As 188.979†	431.1	0.390	mg/L	0.0086	0.390	mg/L	0.0086	2.19%
QC value within limits for As 188.979 Recovery = 97.60%								
Ba 233.527†	59327.3	1.01	mg/L	0.011	1.01	mg/L	0.011	1.12%
QC value within limits for Ba 233.527 Recovery = 100.62%								
Be 234.861†	28725.3	0.0505	mg/L	0.00114	0.0505	mg/L	0.00114	2.26%
QC value within limits for Be 234.861 Recovery = 100.95%								
B 249.677†	26252.5	0.506	mg/L	0.0065	0.506	mg/L	0.0065	1.28%
QC value within limits for B 249.677 Recovery = 101.25%								
Ca 227.546†	1040.4	10.1	mg/L	0.18	10.1	mg/L	0.18	1.79%
QC value within limits for Ca 227.546 Recovery = 101.44%								
Cd 228.802†	884.3	0.0496	mg/L	0.00109	0.0496	mg/L	0.00109	2.19%
QC value within limits for Cd 228.802 Recovery = 99.12%								
Co 228.616†	3902.5	0.194	mg/L	0.0030	0.194	mg/L	0.0030	1.57%
QC value within limits for Co 228.616 Recovery = 97.06%								
Cr 267.716†	57673.3	0.497	mg/L	0.0074	0.497	mg/L	0.0074	1.49%
QC value within limits for Cr 267.716 Recovery = 99.45%								
Cu 327.393†	71902.3	0.493	mg/L	0.0091	0.493	mg/L	0.0091	1.84%
QC value within limits for Cu 327.393 Recovery = 98.60%								
Fe 239.562†	1633.4	3.86	mg/L	0.104	3.86	mg/L	0.104	2.70%
QC value within limits for Fe 239.562 Recovery = 96.53%								
Mg 279.077†	7606.6	9.76	mg/L	0.248	9.76	mg/L	0.248	2.54%
QC value within limits for Mg 279.077 Recovery = 97.62%								
Mn 257.610†	225907.9	0.507	mg/L	0.0063	0.507	mg/L	0.0063	1.25%
QC value within limits for Mn 257.610 Recovery = 101.44%								
Mo 202.031†	13543.7	1.000	mg/L	0.0154	1.000	mg/L	0.0154	1.54%
QC value within limits for Mo 202.031 Recovery = 100.00%								
Ni 231.604†	17373.0	0.501	mg/L	0.0075	0.501	mg/L	0.0075	1.49%
QC value within limits for Ni 231.604 Recovery = 100.28%								
Pb 220.353†	2995.4	0.500	mg/L	0.0069	0.500	mg/L	0.0069	1.38%
QC value within limits for Pb 220.353 Recovery = 100.00%								
Sb 206.836†	1892.9	1.18	mg/L	0.024	1.18	mg/L	0.024	2.01%
QC value within limits for Sb 206.836 Recovery = 98.52%								
Se 196.026†	557.9	0.396	mg/L	0.0029	0.396	mg/L	0.0029	0.73%
QC value within limits for Se 196.026 Recovery = 98.97%								
Si 251.611†	170652.1	4.94	mg/L	0.074	4.94	mg/L	0.074	1.49%
QC value within limits for Si 251.611 Recovery = 98.76%								
Sn 189.927†	5877.3	1.00	mg/L	0.014	1.00	mg/L	0.014	1.38%
QC value within limits for Sn 189.927 Recovery = 100.48%								
Ti 334.940†	720712.2	0.993	mg/L	0.0047	0.993	mg/L	0.0047	0.47%
QC value within limits for Ti 334.940 Recovery = 99.35%								
Tl 190.801†	863.7	0.511	mg/L	0.0071	0.511	mg/L	0.0071	1.39%
QC value within limits for Tl 190.801 Recovery = 102.22%								
V 290.880†	149829.6	1.00	mg/L	0.015	1.00	mg/L	0.015	1.51%
QC value within limits for V 290.880 Recovery = 100.02%								
Zn 206.200†	33613.8	1.01	mg/L	0.009	1.01	mg/L	0.009	0.88%
QC value within limits for Zn 206.200 Recovery = 101.06%								
K 766.490†	121462.4	48.9	mg/L	0.33	48.9	mg/L	0.33	0.67%
QC value within limits for K 766.490 Recovery = 97.82%								
Na 589.592†	630927.8	48.8	mg/L	0.29	48.8	mg/L	0.29	0.58%

Approved: February 24, 2011

Pierre Morris

QC value within limits for Na 589.592 Recovery = 97.58%
Sr 407.771† 993579.9 0.980 mg/L 0.0753 0.980 mg/L 0.0753 7.68%
QC value within limits for Sr 407.771 Recovery = 98.03%
Li 670.784† 74638.9 0.981 mg/L 0.0024 0.981 mg/L 0.0024 0.24%
QC value within limits for Li 670.784 Recovery = 98.12%
All analyte(s) passed QC.

Sequence No.: 28 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/23/2011 12:13:57 PM**
Analyst: **Data Type: Reprocessed on 2/23/2011 2:46:47 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4962538.4						43656.59	0.88%
YRADIAL	291584.4						2445.59	0.84%
Ga 417.206	1281967.3						16854.46	1.31%
GaRADIAL	62441.9						738.37	1.18%
Ag 328.068†	15.0	-0.00063	mg/L	0.000247	-0.00063	mg/L	0.000247	39.03%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	2.0	-0.0114	mg/L	0.01543	-0.0114	mg/L	0.01543	135.35%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.9	-0.00049	mg/L	0.002725	-0.00049	mg/L	0.002725	554.61%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	0.0	-0.00051	mg/L	0.000078	-0.00051	mg/L	0.000078	15.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	15.1	0.00003	mg/L	0.000043	0.00003	mg/L	0.000043	144.71%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	325.0	0.00965	mg/L	0.001577	0.00965	mg/L	0.001577	16.35%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	4.5	0.00933	mg/L	0.081867	0.00933	mg/L	0.081867	877.62%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	0.2	0.00008	mg/L	0.000150	0.00008	mg/L	0.000150	189.50%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-5.5	0.00015	mg/L	0.000185	0.00015	mg/L	0.000185	119.79%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-18.0	-0.00038	mg/L	0.000040	-0.00038	mg/L	0.000040	10.70%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	5.9	0.00011	mg/L	0.001245	0.00011	mg/L	0.001245	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	0.6	-0.00075	mg/L	0.001929	-0.00075	mg/L	0.001929	257.70%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	4.6	-0.00122	mg/L	0.006715	-0.00122	mg/L	0.006715	550.13%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	1.1	-0.00034	mg/L	0.000015	-0.00034	mg/L	0.000015	4.29%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	6.8	-0.00028	mg/L	0.000178	-0.00028	mg/L	0.000178	64.53%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-2.0	-0.00020	mg/L	0.000255	-0.00020	mg/L	0.000255	125.33%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	1.9	-0.00033	mg/L	0.000894	-0.00033	mg/L	0.000894	267.17%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-0.2	-0.00028	mg/L	0.001304	-0.00028	mg/L	0.001304	471.74%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.5	0.00385	mg/L	0.002177	0.00385	mg/L	0.002177	56.50%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	7.9	-0.00123	mg/L	0.000088	-0.00123	mg/L	0.000088	7.15%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-53.8	-0.00752	mg/L	0.000299	-0.00752	mg/L	0.000299	3.97%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	3.9	-0.00016	mg/L	0.000139	-0.00016	mg/L	0.000139	87.27%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	1.1	-0.00230	mg/L	0.001226	-0.00230	mg/L	0.001226	53.26%

Approved: February 24, 2011
Pierre Morris

QC value within limits for Tl 190.801 Recovery = Not calculated

V 290.880†	70.5	-0.00086	mg/L	0.000395	-0.00086	mg/L	0.000395 46.14%

QC value within limits for V 290.880 Recovery = Not calculated

Zn 206.200†	-105.6	-0.00361	mg/L	0.000057	-0.00361	mg/L	0.000057 1.59%

QC value within limits for Zn 206.200 Recovery = Not calculated

K 766.490†	9.7	0.0237	mg/L	0.01109	0.0237	mg/L	0.01109 46.81%

QC value within limits for K 766.490 Recovery = Not calculated

Na 589.592†	40.9	0.00389	mg/L	0.009553	0.00389	mg/L	0.009553 245.66%

QC value within limits for Na 589.592 Recovery = Not calculated

Sr 407.771†	48.9	-0.00059	mg/L	0.000103	-0.00059	mg/L	0.000103 17.59%

QC value within limits for Sr 407.771 Recovery = Not calculated

Li 670.784†	74.8	-0.00056	mg/L	0.002025	-0.00056	mg/L	0.002025 364.30%

QC value within limits for Li 670.784 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 29 **Autosampler Location: 51**
Sample ID: PBW 47 WG357322-02 **Date Collected: 2/23/2011 12:56:22 PM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:58 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 47 WG357322-02

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: PBW 47 WG357322-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5185189.9						43324.78	0.84%
YRADIAL	300158.9						3623.28	1.21%
Ga 417.206	1319495.9						6296.12	0.48%
GaRADIAL	65027.9						1793.40	2.76%
Ag 328.068†	-40.2	-0.00091	mg/L	0.000721	-0.00091	mg/L	0.000721	78.91%
Al 396.153†	49.8	-0.00121	mg/L	0.004853	-0.00121	mg/L	0.004853	400.46%
As 188.979†	-1.0	-0.00053	mg/L	0.001430	-0.00053	mg/L	0.001430	269.85%
Ba 233.527†	-9.3	-0.00067	mg/L	0.000068	-0.00067	mg/L	0.000068	10.05%
Be 234.861†	-80.0	-0.00014	mg/L	0.000007	-0.00014	mg/L	0.000007	5.41%
B 249.677†	-315.3	-0.00244	mg/L	0.000325	-0.00244	mg/L	0.000325	13.29%
Ca 227.546†	2.5	-0.00921	mg/L	0.055685	-0.00921	mg/L	0.055685	604.73%
Cd 228.802†	1.3	0.00014	mg/L	0.000059	0.00014	mg/L	0.000059	40.95%
Co 228.616†	-2.3	0.00032	mg/L	0.000338	0.00032	mg/L	0.000338	107.03%
Cr 267.716†	13.2	-0.00011	mg/L	0.000067	-0.00011	mg/L	0.000067	60.53%
Cu 327.393†	496.8	0.00346	mg/L	0.000626	0.00346	mg/L	0.000626	18.09%
Fe 239.562†	4.4	0.00830	mg/L	0.005513	0.00830	mg/L	0.005513	66.39%
Mg 279.077†	13.1	0.00965	mg/L	0.004165	0.00965	mg/L	0.004165	43.17%
Mn 257.610†	-9.9	-0.00037	mg/L	0.000016	-0.00037	mg/L	0.000016	4.20%
Mo 202.031†	1.7	-0.00065	mg/L	0.000302	-0.00065	mg/L	0.000302	46.72%
Ni 231.604†	12.1	0.00020	mg/L	0.000199	0.00020	mg/L	0.000199	99.28%
Pb 220.353†	3.1	-0.00015	mg/L	0.001094	-0.00015	mg/L	0.001094	747.78%
Sb 206.836†	0.8	0.00034	mg/L	0.004300	0.00034	mg/L	0.004300	>999.9%
Se 196.026†	1.0	0.00494	mg/L	0.002546	0.00494	mg/L	0.002546	51.55%
Si 251.611†	-11.9	-0.00180	mg/L	0.000709	-0.00180	mg/L	0.000709	39.48%
Sn 189.927†	-17.6	-0.00134	mg/L	0.002305	-0.00134	mg/L	0.002305	172.19%
Ti 334.940†	-185.8	-0.00042	mg/L	0.000179	-0.00042	mg/L	0.000179	42.61%
Tl 190.801†	6.4	0.00079	mg/L	0.001946	0.00079	mg/L	0.001946	247.17%
V 290.880†	-146.4	-0.00231	mg/L	0.000113	-0.00231	mg/L	0.000113	4.92%
Zn 206.200†	47.5	0.00099	mg/L	0.000380	0.00099	mg/L	0.000380	38.49%
K 766.490†	-82.5	-0.0131	mg/L	0.02676	-0.0131	mg/L	0.02676	204.04%
Na 589.592†	-60.7	-0.00378	mg/L	0.006460	-0.00378	mg/L	0.006460	170.92%
Sr 407.771†	9.1	-0.00063	mg/L	0.000047	-0.00063	mg/L	0.000047	7.48%
Li 670.784†	-82.8	-0.00263	mg/L	0.001299	-0.00263	mg/L	0.001299	49.38%

Sequence No.: 30 **Autosampler Location: 52**
Sample ID: LCSW 47 WG357322-03 **Date Collected: 2/23/2011 1:03:00 PM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:46:59 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: February 24, 2011

Pierre Morris

Nebulizer Parameters: LCSW 47 WG357322-03

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: LCSW 47 WG357322-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5047538.3						92333.39	1.83%
YRADIAL	289907.5						7166.48	2.47%
Ga 417.206	1303117.3						43564.28	3.34%
GaRADIAL	62676.3						811.56	1.29%
Ag 328.068†	37818.7	0.191	mg/L	0.0073	0.191	mg/L	0.0073	3.85%
Al 396.153†	22764.5	4.83	mg/L	0.118	4.83	mg/L	0.118	2.43%
As 188.979†	194.8	0.177	mg/L	0.0045	0.177	mg/L	0.0045	2.55%
Ba 233.527†	28013.9	0.475	mg/L	0.0103	0.475	mg/L	0.0103	2.17%
Be 234.861†	13103.0	0.0230	mg/L	0.00095	0.0230	mg/L	0.00095	4.11%
B 249.677†	47289.6	0.901	mg/L	0.0393	0.901	mg/L	0.0393	4.36%
Ca 227.546†	478.4	4.65	mg/L	0.165	4.65	mg/L	0.165	3.54%
Cd 228.802†	409.4	0.0230	mg/L	0.00070	0.0230	mg/L	0.00070	3.03%
Co 228.616†	1818.5	0.0906	mg/L	0.00149	0.0906	mg/L	0.00149	1.64%
Cr 267.716†	27282.4	0.235	mg/L	0.0056	0.235	mg/L	0.0056	2.39%
Cu 327.393†	34836.8	0.239	mg/L	0.0104	0.239	mg/L	0.0104	4.34%
Fe 239.562†	791.3	1.87	mg/L	0.040	1.87	mg/L	0.040	2.14%
Mg 279.077†	3740.7	4.80	mg/L	0.111	4.80	mg/L	0.111	2.31%
Mn 257.610†	107687.4	0.242	mg/L	0.0057	0.242	mg/L	0.0057	2.38%
Mo 202.031†	6425.2	0.474	mg/L	0.0126	0.474	mg/L	0.0126	2.67%
Ni 231.604†	8132.9	0.235	mg/L	0.0048	0.235	mg/L	0.0048	2.05%
Pb 220.353†	1388.4	0.231	mg/L	0.0048	0.231	mg/L	0.0048	2.09%
Sb 206.836†	886.7	0.554	mg/L	0.0188	0.554	mg/L	0.0188	3.39%
Se 196.026†	247.3	0.178	mg/L	0.0040	0.178	mg/L	0.0040	2.22%
Si 251.611†	82365.0	2.38	mg/L	0.095	2.38	mg/L	0.095	4.00%
Sn 189.927†	-18.9	-0.00156	mg/L	0.000370	-0.00156	mg/L	0.000370	23.70%
Ti 334.940†	347090.7	0.478	mg/L	0.0057	0.478	mg/L	0.0057	1.18%
Tl 190.801†	400.7	0.236	mg/L	0.0015	0.236	mg/L	0.0015	0.62%
V 290.880†	70698.7	0.471	mg/L	0.0116	0.471	mg/L	0.0116	2.47%
Zn 206.200†	15302.7	0.460	mg/L	0.0108	0.460	mg/L	0.0108	2.35%
K 766.490†	58353.3	23.4	mg/L	0.58	23.4	mg/L	0.58	2.46%
Na 589.592†	308458.1	23.6	mg/L	0.29	23.6	mg/L	0.29	1.23%
Sr 407.771†	490880.7	0.484	mg/L	0.0329	0.484	mg/L	0.0329	6.79%
Li 670.784†	36271.2	0.476	mg/L	0.0104	0.476	mg/L	0.0104	2.19%

Sequence No.: 31 **Autosampler Location: 53**
Sample ID: FBLK WG357257-01 **Date Collected: 2/23/2011 1:09:38 PM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:47:00 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: FBLK WG357257-01

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: FBLK WG357257-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5032587.5						1368.43	0.03%
YRADIAL	283639.8						10566.97	3.73%
Ga 417.206	1311688.7						10022.44	0.76%
GaRADIAL	61375.0						1332.89	2.17%
Ag 328.068†	104.4	-0.00022	mg/L	0.000383	-0.00022	mg/L	0.000383	173.64%
Al 396.153†	1854.2	0.383	mg/L	0.0109	0.383	mg/L	0.0109	2.86%
As 188.979†	-1.0	-0.00044	mg/L	0.000926	-0.00044	mg/L	0.000926	209.17%
Ba 233.527†	161.8	0.00222	mg/L	0.000049	0.00222	mg/L	0.000049	2.20%
Be 234.861†	-9.1	-0.00017	mg/L	0.000127	-0.00017	mg/L	0.000127	73.06%
B 249.677†	-81.0	0.00509	mg/L	0.000780	0.00509	mg/L	0.000780	15.33%
Ca 227.546†	18.9	0.149	mg/L	0.0740	0.149	mg/L	0.0740	49.65%
Cd 228.802†	-0.2	0.00006	mg/L	0.000253	0.00006	mg/L	0.000253	460.36%

Approved: February 24, 2011

Pierre Morris

Co 228.616†	-3.7	0.00020	mg/L	0.000086	0.00020	mg/L	0.000086 43.27%
Cr 267.716†	76.6	0.00042	mg/L	0.000119	0.00042	mg/L	0.000119 28.05%
Cu 327.393†	707.4	0.00500	mg/L	0.000240	0.00500	mg/L	0.000240 4.80%
Fe 239.562†	324.7	0.766	mg/L	0.0154	0.766	mg/L	0.0154 2.01%
Mg 279.077†	108.7	0.132	mg/L	0.0038	0.132	mg/L	0.0038 2.91%
Mn 257.610†	6478.7	0.0155	mg/L	0.00013	0.0155	mg/L	0.00013 0.87%
Mo 202.031†	5.9	-0.00030	mg/L	0.000263	-0.00030	mg/L	0.000263 89.13%
Ni 231.604†	26.7	0.00062	mg/L	0.000133	0.00062	mg/L	0.000133 21.24%
Pb 220.353†	21.0	0.00280	mg/L	0.001631	0.00280	mg/L	0.001631 58.26%
Sb 206.836†	1.5	0.00077	mg/L	0.002677	0.00077	mg/L	0.002677 346.95%
Se 196.026†	-2.1	0.00301	mg/L	0.001732	0.00301	mg/L	0.001732 57.56%
Si 251.611†	11729.7	0.339	mg/L	0.0029	0.339	mg/L	0.0029 0.87%
Sn 189.927†	-52.4	-0.00728	mg/L	0.000310	-0.00728	mg/L	0.000310 4.26%
Ti 334.940†	6931.4	0.00939	mg/L	0.001627	0.00939	mg/L	0.001627 17.33%
Tl 190.801†	1.6	-0.00188	mg/L	0.002102	-0.00188	mg/L	0.002102 112.02%
V 290.880†	205.1	0.00010	mg/L	0.000242	0.00010	mg/L	0.000242 237.27%
Zn 206.200†	272.4	0.00772	mg/L	0.000413	0.00772	mg/L	0.000413 5.35%
K 766.490†	806.3	0.203	mg/L	0.0258	0.203	mg/L	0.0258 12.73%
Na 589.592†	1712642.5	139	mg/L	4.4	139	mg/L	4.4 3.17%
Sr 407.771†	1847.3	0.00110	mg/L	0.000616	0.00110	mg/L	0.000616 56.03%
Li 670.784†	160.9	0.00058	mg/L	0.001100	0.00058	mg/L	0.001100 190.39%

Sequence No.: 32 **Autosampler Location: 54**
Sample ID: L1102054201 WG357322-01 **Date Collected: 2/23/2011 1:16:21 PM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:47:02 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102054201 WG357322-01

Analyte	Back Pressure	Flow
All	165.0 kPa	0.50 L/min

Mean Data: L1102054201 WG357322-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4952155.5						77004.75	1.55%
YRADIAL	291361.6						12069.52	4.14%
Ga 417.206	1284228.1						29130.96	2.27%
GaRADIAL	62075.5						1200.91	1.93%
Ag 328.068†	248.9	0.00053	mg/L	0.000290	0.00053	mg/L	0.000290	55.26%
Al 396.153†	241.8	0.0397	mg/L	0.01746	0.0397	mg/L	0.01746	43.99%
As 188.979†	6.6	0.00500	mg/L	0.003631	0.00500	mg/L	0.003631	72.56%
Ba 233.527†	3181.1	0.0533	mg/L	0.00095	0.0533	mg/L	0.00095	1.78%
Be 234.861†	-53.8	-0.00010	mg/L	0.000056	-0.00010	mg/L	0.000056	56.07%
B 249.677†	1516.3	0.0323	mg/L	0.00134	0.0323	mg/L	0.00134	4.15%
Ca 227.546†	7592.0	71.8	mg/L	1.76	71.8	mg/L	1.76	2.45%
Cd 228.802†	5.8	0.00034	mg/L	0.000219	0.00034	mg/L	0.000219	63.97%
Co 228.616†	-12.9	-0.00024	mg/L	0.000330	-0.00024	mg/L	0.000330	136.24%
Cr 267.716†	63.7	0.00032	mg/L	0.000063	0.00032	mg/L	0.000063	19.36%
Cu 327.393†	1077.7	0.00744	mg/L	0.000242	0.00744	mg/L	0.000242	3.26%
Fe 239.562†	19.2	0.0434	mg/L	0.00666	0.0434	mg/L	0.00666	15.34%
Mg 279.077†	1290.0	1.65	mg/L	0.057	1.65	mg/L	0.057	3.44%
Mn 257.610†	2213.7	0.00609	mg/L	0.000114	0.00609	mg/L	0.000114	1.87%
Mo 202.031†	-7.0	-0.00129	mg/L	0.000190	-0.00129	mg/L	0.000190	14.78%
Ni 231.604†	-4.3	-0.00031	mg/L	0.000060	-0.00031	mg/L	0.000060	19.56%
Pb 220.353†	-5.9	0.00180	mg/L	0.001398	0.00180	mg/L	0.001398	77.53%
Sb 206.836†	15.3	0.00937	mg/L	0.002029	0.00937	mg/L	0.002029	21.65%
Se 196.026†	-32.2	-0.00031	mg/L	0.004211	-0.00031	mg/L	0.004211	>999.9%
Si 251.611†	28277.1	0.819	mg/L	0.0194	0.819	mg/L	0.0194	2.37%
Sn 189.927†	-47.6	-0.00645	mg/L	0.001207	-0.00645	mg/L	0.001207	18.72%
Ti 334.940†	382.7	0.00108	mg/L	0.000073	0.00108	mg/L	0.000073	6.79%
Tl 190.801†	106.7	0.0527	mg/L	0.00231	0.0527	mg/L	0.00231	4.38%
V 290.880†	82.1	-0.00078	mg/L	0.000519	-0.00078	mg/L	0.000519	66.66%
Zn 206.200†	828.5	0.0244	mg/L	0.00037	0.0244	mg/L	0.00037	1.52%
K 766.490†	4402.7	1.64	mg/L	0.098	1.64	mg/L	0.098	5.98%
Na 589.592†	1698071.0	138	mg/L	2.4	138	mg/L	2.4	1.71%
Sr 407.771†	100182.0	0.0983	mg/L	0.00568	0.0983	mg/L	0.00568	5.77%
Li 670.784†	164.8	0.00063	mg/L	0.000691	0.00063	mg/L	0.000691	109.68%

Approved: February 24, 2011

Pierre Morris

Sequence No.: 33 **Autosampler Location: 55**
Sample ID: L1102054201PS WG357379-01 **Date Collected: 2/23/2011 1:23:02 PM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:47:03 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102054201PS WG357379-01

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102054201PS WG357379-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4836882.7						17055.37	0.35%
YRADIAL	293027.2						4584.13	1.56%
Ga 417.206	1267283.3						6954.12	0.55%
GaRADIAL	63843.6						729.69	1.14%
Ag 328.068†	39056.8	0.197	mg/L	0.0035	0.197	mg/L	0.0035	1.76%
Al 396.153†	23137.0	4.91	mg/L	0.025	4.91	mg/L	0.025	0.51%
As 188.979†	217.5	0.196	mg/L	0.0018	0.196	mg/L	0.0018	0.94%
Ba 233.527†	30935.3	0.524	mg/L	0.0042	0.524	mg/L	0.0042	0.80%
Be 234.861†	13711.7	0.0241	mg/L	0.00026	0.0241	mg/L	0.00026	1.08%
B 249.677†	51262.3	0.977	mg/L	0.0144	0.977	mg/L	0.0144	1.48%
Ca 227.546†	7464.9	70.7	mg/L	0.35	70.7	mg/L	0.35	0.50%
Cd 228.802†	429.4	0.0240	mg/L	0.00017	0.0240	mg/L	0.00017	0.70%
Co 228.616†	1869.8	0.0932	mg/L	0.00045	0.0932	mg/L	0.00045	0.48%
Cr 267.716†	27909.9	0.241	mg/L	0.0028	0.241	mg/L	0.0028	1.14%
Cu 327.393†	36173.8	0.248	mg/L	0.0043	0.248	mg/L	0.0043	1.74%
Fe 239.562†	812.3	1.92	mg/L	0.025	1.92	mg/L	0.025	1.30%
Mg 279.077†	4856.1	6.23	mg/L	0.093	6.23	mg/L	0.093	1.50%
Mn 257.610†	110448.7	0.249	mg/L	0.0029	0.249	mg/L	0.0029	1.18%
Mo 202.031†	6797.8	0.502	mg/L	0.0016	0.502	mg/L	0.0016	0.32%
Ni 231.604†	8365.6	0.241	mg/L	0.0007	0.241	mg/L	0.0007	0.29%
Pb 220.353†	1421.6	0.240	mg/L	0.0018	0.240	mg/L	0.0018	0.74%
Sb 206.836†	935.4	0.584	mg/L	0.0036	0.584	mg/L	0.0036	0.61%
Se 196.026†	244.9	0.193	mg/L	0.0082	0.193	mg/L	0.0082	4.23%
Si 251.611†	110895.1	3.21	mg/L	0.050	3.21	mg/L	0.050	1.56%
Sn 189.927†	-43.3	-0.00572	mg/L	0.000486	-0.00572	mg/L	0.000486	8.49%
Ti 334.940†	357003.2	0.493	mg/L	0.0084	0.493	mg/L	0.0084	1.71%
Tl 190.801†	492.3	0.283	mg/L	0.0033	0.283	mg/L	0.0033	1.16%
V 290.880†	73703.6	0.491	mg/L	0.0077	0.491	mg/L	0.0077	1.56%
Zn 206.200†	16636.4	0.500	mg/L	0.0026	0.500	mg/L	0.0026	0.52%
K 766.490†	64603.6	25.8	mg/L	0.13	25.8	mg/L	0.13	0.52%
Na 589.592†	1800065.5	147	mg/L	1.8	147	mg/L	1.8	1.25%
Sr 407.771†	582169.2	0.574	mg/L	0.0513	0.574	mg/L	0.0513	8.93%
Li 670.784†	37141.1	0.487	mg/L	0.0029	0.487	mg/L	0.0029	0.59%

Sequence No.: 34 **Autosampler Location: 56**
Sample ID: L1102054201DL WG357379-02 **Date Collected: 2/23/2011 1:29:45 PM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:47:09 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102054201DL WG357379-02

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102054201DL WG357379-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4899234.2						50380.86	1.03%
YRADIAL	286806.0						2216.65	0.77%
Ga 417.206	1300832.7						39279.20	3.02%
GaRADIAL	61586.9						722.27	1.17%
Ag 328.068†	23.0	-0.00059	mg/L	0.000421	-0.00059	mg/L	0.000421	70.76%

Approved: February 24, 2011

Pierre Morris

Al 396.153†	67.4	0.00253 mg/L	0.011756	0.00253 mg/L	0.011756	464.62%
As 188.979†	1.9	0.00182 mg/L	0.002985	0.00182 mg/L	0.002985	164.31%
Ba 233.527†	656.6	0.0106 mg/L	0.00049	0.0106 mg/L	0.00049	4.65%
Be 234.861†	12.5	0.00002 mg/L	0.000030	0.00002 mg/L	0.000030	132.48%
B 249.677†	419.2	0.0115 mg/L	0.00148	0.0115 mg/L	0.00148	12.89%
Ca 227.546†	1484.3	14.0 mg/L	0.69	14.0 mg/L	0.69	4.96%
Cd 228.802†	-2.3	-0.00008 mg/L	0.000100	-0.00008 mg/L	0.000100	123.45%
Co 228.616†	-5.6	0.00014 mg/L	0.000071	0.00014 mg/L	0.000071	49.95%
Cr 267.716†	24.5	-0.00001 mg/L	0.000065	-0.00001 mg/L	0.000065	568.67%
Cu 327.393†	98.4	0.00074 mg/L	0.000109	0.00074 mg/L	0.000109	14.67%
Fe 239.562†	4.7	0.00898 mg/L	0.007590	0.00898 mg/L	0.007590	84.55%
Mg 279.077†	289.1	0.364 mg/L	0.0078	0.364 mg/L	0.0078	2.13%
Mn 257.610†	583.9	0.00127 mg/L	0.000065	0.00127 mg/L	0.000065	5.14%
Mo 202.031†	3.5	-0.00051 mg/L	0.000127	-0.00051 mg/L	0.000127	24.61%
Ni 231.604†	-4.2	-0.00028 mg/L	0.000261	-0.00028 mg/L	0.000261	93.36%
Pb 220.353†	-1.5	-0.00024 mg/L	0.001073	-0.00024 mg/L	0.001073	453.52%
Sb 206.836†	6.3	0.00380 mg/L	0.002147	0.00380 mg/L	0.002147	56.44%
Se 196.026†	-10.3	0.00055 mg/L	0.003553	0.00055 mg/L	0.003553	650.41%
Si 251.611†	5755.2	0.166 mg/L	0.0110	0.166 mg/L	0.0110	6.62%
Sn 189.927†	-50.7	-0.00698 mg/L	0.000264	-0.00698 mg/L	0.000264	3.78%
Ti 334.940†	10.6	-0.00001 mg/L	0.000258	-0.00001 mg/L	0.000258	>999.9%
Tl 190.801†	33.2	0.0151 mg/L	0.00167	0.0151 mg/L	0.00167	11.03%
V 290.880†	288.1	0.00060 mg/L	0.001131	0.00060 mg/L	0.001131	189.08%
Zn 206.200†	241.9	0.00682 mg/L	0.000291	0.00682 mg/L	0.000291	4.26%
K 766.490†	994.1	0.388 mg/L	0.0582	0.388 mg/L	0.0582	15.01%
Na 589.592†	378488.7	29.0 mg/L	0.53	29.0 mg/L	0.53	1.82%
Sr 407.771†	22646.2	0.0217 mg/L	0.00165	0.0217 mg/L	0.00165	7.60%
Li 670.784†	289.2	0.00227 mg/L	0.000528	0.00227 mg/L	0.000528	23.29%

Sequence No.: 35 **Autosampler Location: 57**
Sample ID: L1102054201S WG357322-04 **Date Collected: 2/23/2011 1:36:28 PM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:47:15 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102054201S WG357322-04

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102054201S WG357322-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4787566.4						23404.67	0.49%
YRADIAL	283176.2						4370.64	1.54%
Ga 417.206	1270252.8						21931.60	1.73%
GaRADIAL	62059.0						639.60	1.03%
Ag 328.068†	36851.5	0.186	mg/L	0.0034	0.186	mg/L	0.0034	1.83%
Al 396.153†	24658.2	5.23	mg/L	0.019	5.23	mg/L	0.019	0.35%
As 188.979†	209.7	0.189	mg/L	0.0036	0.189	mg/L	0.0036	1.91%
Ba 233.527†	30480.6	0.517	mg/L	0.0103	0.517	mg/L	0.0103	1.99%
Be 234.861†	13180.3	0.0229	mg/L	0.00038	0.0229	mg/L	0.00038	1.65%
B 249.677†	49143.7	0.942	mg/L	0.0176	0.942	mg/L	0.0176	1.87%
Ca 227.546†	8010.2	75.9	mg/L	1.05	75.9	mg/L	1.05	1.38%
Cd 228.802†	409.1	0.0229	mg/L	0.00029	0.0229	mg/L	0.00029	1.27%
Co 228.616†	1790.7	0.0892	mg/L	0.00042	0.0892	mg/L	0.00042	0.47%
Cr 267.716†	26843.1	0.231	mg/L	0.0043	0.231	mg/L	0.0043	1.85%
Cu 327.393†	34857.5	0.239	mg/L	0.0033	0.239	mg/L	0.0033	1.39%
Fe 239.562†	1303.3	3.08	mg/L	0.011	3.08	mg/L	0.011	0.35%
Mg 279.077†	5149.4	6.61	mg/L	0.039	6.61	mg/L	0.039	0.60%
Mn 257.610†	113282.9	0.256	mg/L	0.0053	0.256	mg/L	0.0053	2.07%
Mo 202.031†	6506.8	0.480	mg/L	0.0023	0.480	mg/L	0.0023	0.47%
Ni 231.604†	8010.5	0.231	mg/L	0.0011	0.231	mg/L	0.0011	0.48%
Pb 220.353†	1383.1	0.234	mg/L	0.0007	0.234	mg/L	0.0007	0.29%
Sb 206.836†	887.5	0.554	mg/L	0.0089	0.554	mg/L	0.0089	1.60%
Se 196.026†	232.3	0.186	mg/L	0.0007	0.186	mg/L	0.0007	0.36%
Si 251.611†	114592.8	3.32	mg/L	0.060	3.32	mg/L	0.060	1.79%
Sn 189.927†	-34.0	-0.00413	mg/L	0.000957	-0.00413	mg/L	0.000957	23.16%
Ti 334.940†	350837.8	0.484	mg/L	0.0081	0.484	mg/L	0.0081	1.68%
Tl 190.801†	481.8	0.277	mg/L	0.0060	0.277	mg/L	0.0060	2.17%

Approved: February 24, 2011

Pierre Morris

V 290.880†	70939.7	0.473 mg/L	0.0095	0.473 mg/L	0.0095	2.00%
Zn 206.200†	16277.4	0.489 mg/L	0.0093	0.489 mg/L	0.0093	1.89%
K 766.490†	61029.2	24.3 mg/L	0.06	24.3 mg/L	0.06	0.24%
Na 589.592†	1948762.1	160 mg/L	0.5	160 mg/L	0.5	0.30%
Sr 407.771†	581172.1	0.573 mg/L	0.0471	0.573 mg/L	0.0471	8.21%
Li 670.784†	34254.6	0.449 mg/L	0.0026	0.449 mg/L	0.0026	0.57%

==========

Sequence No.: 36 **Autosampler Location: 58**
Sample ID: L1102054201SD WG357322-05 **Date Collected: 2/23/2011 1:43:10 PM**
Analyst: PDM **Data Type: Reprocessed on 2/23/2011 2:47:16 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102054201SD WG357322-05

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102054201SD WG357322-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4823986.5						52728.40	1.09%
YRADIAL	284324.6						3475.87	1.22%
Ga 417.206	1270806.2						4960.62	0.39%
GaRADIAL	62488.5						1414.28	2.26%
Ag 328.068†	37531.9	0.189	mg/L	0.0017	0.189	mg/L	0.0017	0.92%
Al 396.153†	22464.4	4.77	mg/L	0.013	4.77	mg/L	0.013	0.28%
As 188.979†	210.4	0.189	mg/L	0.0027	0.189	mg/L	0.0027	1.42%
Ba 233.527†	30312.8	0.514	mg/L	0.0059	0.514	mg/L	0.0059	1.15%
Be 234.861†	13240.2	0.0233	mg/L	0.00021	0.0233	mg/L	0.00021	0.90%
B 249.677†	50337.8	0.959	mg/L	0.0114	0.959	mg/L	0.0114	1.19%
Ca 227.546†	8158.1	77.3	mg/L	0.33	77.3	mg/L	0.33	0.43%
Cd 228.802†	412.1	0.0231	mg/L	0.00037	0.0231	mg/L	0.00037	1.61%
Co 228.616†	1796.4	0.0895	mg/L	0.00145	0.0895	mg/L	0.00145	1.62%
Cr 267.716†	27120.7	0.234	mg/L	0.0047	0.234	mg/L	0.0047	2.01%
Cu 327.393†	34811.5	0.239	mg/L	0.0032	0.239	mg/L	0.0032	1.32%
Fe 239.562†	799.1	1.89	mg/L	0.039	1.89	mg/L	0.039	2.04%
Mg 279.077†	4930.9	6.33	mg/L	0.119	6.33	mg/L	0.119	1.88%
Mn 257.610†	107167.9	0.242	mg/L	0.0028	0.242	mg/L	0.0028	1.15%
Mo 202.031†	6548.0	0.483	mg/L	0.0066	0.483	mg/L	0.0066	1.36%
Ni 231.604†	8035.5	0.232	mg/L	0.0030	0.232	mg/L	0.0030	1.27%
Pb 220.353†	1368.3	0.232	mg/L	0.0045	0.232	mg/L	0.0045	1.93%
Sb 206.836†	903.8	0.564	mg/L	0.0060	0.564	mg/L	0.0060	1.06%
Se 196.026†	232.8	0.186	mg/L	0.0070	0.186	mg/L	0.0070	3.74%
Si 251.611†	142061.5	4.12	mg/L	0.033	4.12	mg/L	0.033	0.81%
Sn 189.927†	-33.0	-0.00395	mg/L	0.001739	-0.00395	mg/L	0.001739	43.99%
Ti 334.940†	363165.6	0.501	mg/L	0.0053	0.501	mg/L	0.0053	1.05%
Tl 190.801†	478.1	0.275	mg/L	0.0020	0.275	mg/L	0.0020	0.72%
V 290.880†	71521.7	0.477	mg/L	0.0084	0.477	mg/L	0.0084	1.76%
Zn 206.200†	16209.2	0.487	mg/L	0.0025	0.487	mg/L	0.0025	0.51%
K 766.490†	62181.4	24.8	mg/L	0.12	24.8	mg/L	0.12	0.47%
Na 589.592†	1974225.7	162	mg/L	4.1	162	mg/L	4.1	2.51%
Sr 407.771†	586428.6	0.578	mg/L	0.0502	0.578	mg/L	0.0502	8.69%
Li 670.784†	35203.5	0.462	mg/L	0.0033	0.462	mg/L	0.0033	0.72%

==========

Sequence No.: 37 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/23/2011 1:49:54 PM**
Analyst: **Data Type: Reprocessed on 2/23/2011 2:47:17 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCV

Approved: February 24, 2011
Pierre Morris

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4730135.6						31735.17	0.67%
YRADIAL	285045.7						791.24	0.28%
Ga 417.206	1249978.4						17104.13	1.37%
GaRADIAL	61724.7						1080.14	1.75%
Ag 328.068†	79674.1	0.402	mg/L	0.0025	0.402	mg/L	0.0025	0.62%
QC value within limits for Ag 328.068 Recovery = 100.61%								
Al 396.153†	47052.5	10.00	mg/L	0.026	10.00	mg/L	0.026	0.26%
QC value within limits for Al 396.153 Recovery = 99.99%								
As 188.979†	435.4	0.394	mg/L	0.0063	0.394	mg/L	0.0063	1.59%
QC value within limits for As 188.979 Recovery = 98.57%								
Ba 233.527†	59386.6	1.01	mg/L	0.002	1.01	mg/L	0.002	0.23%
QC value within limits for Ba 233.527 Recovery = 100.73%								
Be 234.861†	28650.7	0.0504	mg/L	0.00018	0.0504	mg/L	0.00018	0.35%
QC value within limits for Be 234.861 Recovery = 100.70%								
B 249.677†	26664.2	0.514	mg/L	0.0034	0.514	mg/L	0.0034	0.67%
QC value within limits for B 249.677 Recovery = 102.80%								
Ca 227.546†	1048.0	10.2	mg/L	0.15	10.2	mg/L	0.15	1.50%
QC value within limits for Ca 227.546 Recovery = 102.16%								
Cd 228.802†	889.4	0.0498	mg/L	0.00065	0.0498	mg/L	0.00065	1.31%
QC value within limits for Cd 228.802 Recovery = 99.68%								
Co 228.616†	3932.2	0.196	mg/L	0.0015	0.196	mg/L	0.0015	0.76%
QC value within limits for Co 228.616 Recovery = 97.81%								
Cr 267.716†	57956.6	0.500	mg/L	0.0012	0.500	mg/L	0.0012	0.24%
QC value within limits for Cr 267.716 Recovery = 99.94%								
Cu 327.393†	71885.1	0.493	mg/L	0.0025	0.493	mg/L	0.0025	0.50%
QC value within limits for Cu 327.393 Recovery = 98.57%								
Fe 239.562†	1636.3	3.87	mg/L	0.059	3.87	mg/L	0.059	1.52%
QC value within limits for Fe 239.562 Recovery = 96.70%								
Mg 279.077†	7622.7	9.78	mg/L	0.114	9.78	mg/L	0.114	1.17%
QC value within limits for Mg 279.077 Recovery = 97.83%								
Mn 257.610†	226282.5	0.508	mg/L	0.0021	0.508	mg/L	0.0021	0.41%
QC value within limits for Mn 257.610 Recovery = 101.62%								
Mo 202.031†	13614.5	1.01	mg/L	0.005	1.01	mg/L	0.005	0.49%
QC value within limits for Mo 202.031 Recovery = 100.52%								
Ni 231.604†	17399.3	0.502	mg/L	0.0018	0.502	mg/L	0.0018	0.37%
QC value within limits for Ni 231.604 Recovery = 100.43%								
Pb 220.353†	3034.7	0.507	mg/L	0.0034	0.507	mg/L	0.0034	0.67%
QC value within limits for Pb 220.353 Recovery = 101.31%								
Sb 206.836†	1900.7	1.19	mg/L	0.020	1.19	mg/L	0.020	1.67%
QC value within limits for Sb 206.836 Recovery = 98.93%								
Se 196.026†	557.7	0.396	mg/L	0.0046	0.396	mg/L	0.0046	1.17%
QC value within limits for Se 196.026 Recovery = 98.93%								
Si 251.611†	170284.6	4.93	mg/L	0.016	4.93	mg/L	0.016	0.32%
QC value within limits for Si 251.611 Recovery = 98.54%								
Sn 189.927†	5943.4	1.02	mg/L	0.006	1.02	mg/L	0.006	0.61%
QC value within limits for Sn 189.927 Recovery = 101.61%								
Ti 334.940†	718110.8	0.990	mg/L	0.0055	0.990	mg/L	0.0055	0.56%
QC value within limits for Ti 334.940 Recovery = 98.99%								
Tl 190.801†	869.8	0.515	mg/L	0.0028	0.515	mg/L	0.0028	0.55%
QC value within limits for Tl 190.801 Recovery = 102.93%								
V 290.880†	150470.1	1.00	mg/L	0.003	1.00	mg/L	0.003	0.34%
QC value within limits for V 290.880 Recovery = 100.45%								
Zn 206.200†	33560.1	1.01	mg/L	0.003	1.01	mg/L	0.003	0.30%
QC value within limits for Zn 206.200 Recovery = 100.90%								
K 766.490†	123197.5	49.6	mg/L	0.36	49.6	mg/L	0.36	0.73%
QC value within limits for K 766.490 Recovery = 99.23%								
Na 589.592†	637811.5	49.3	mg/L	0.33	49.3	mg/L	0.33	0.67%
QC value within limits for Na 589.592 Recovery = 98.68%								
Sr 407.771†	1026677.3	1.01	mg/L	0.069	1.01	mg/L	0.069	6.86%
QC value within limits for Sr 407.771 Recovery = 101.29%								
Li 670.784†	75989.7	0.999	mg/L	0.0027	0.999	mg/L	0.0027	0.27%
QC value within limits for Li 670.784 Recovery = 99.90%								

All analyte(s) passed QC.

Sequence No.: 38 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/23/2011 1:56:33 PM**
Analyst: **Data Type: Reprocessed on 2/23/2011 2:47:18 PM**
Logged In Analyst (Original) : peicp2
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: February 24, 2011

Pierre Morris

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5065128.6						23258.24	0.46%
YRADIAL	294874.5						10720.74	3.64%
Ga 417.206	1325965.3						6320.12	0.48%
GaRADIAL	63297.9						1667.33	2.63%
Ag 328.068†	-88.0	-0.00115	mg/L	0.000743	-0.00115	mg/L	0.000743	64.49%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-44.5	-0.0213	mg/L	0.01139	-0.0213	mg/L	0.01139	53.47%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-2.5	-0.00192	mg/L	0.000793	-0.00192	mg/L	0.000793	41.35%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	3.2	-0.00046	mg/L	0.000099	-0.00046	mg/L	0.000099	21.62%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	27.3	0.00005	mg/L	0.000015	0.00005	mg/L	0.000015	29.80%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	673.2	0.0162	mg/L	0.00065	0.0162	mg/L	0.00065	3.97%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	3.9	0.00410	mg/L	0.036008	0.00410	mg/L	0.036008	877.88%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-0.4	0.00005	mg/L	0.000162	0.00005	mg/L	0.000162	296.26%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-6.7	0.00009	mg/L	0.000171	0.00009	mg/L	0.000171	184.00%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-0.9	-0.00023	mg/L	0.000156	-0.00023	mg/L	0.000156	67.47%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	33.5	0.00030	mg/L	0.000440	0.00030	mg/L	0.000440	148.51%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	0.0	-0.00200	mg/L	0.000949	-0.00200	mg/L	0.000949	47.50%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	7.6	0.00262	mg/L	0.007432	0.00262	mg/L	0.007432	283.93%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-4.9	-0.00036	mg/L	0.000043	-0.00036	mg/L	0.000043	12.13%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	8.8	-0.00012	mg/L	0.000319	-0.00012	mg/L	0.000319	256.32%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	13.7	0.00025	mg/L	0.000154	0.00025	mg/L	0.000154	61.95%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	5.7	0.00028	mg/L	0.000631	0.00028	mg/L	0.000631	223.94%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	0.4	0.00011	mg/L	0.001364	0.00011	mg/L	0.001364	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-4.6	0.00098	mg/L	0.003729	0.00098	mg/L	0.003729	380.07%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-25.1	-0.00219	mg/L	0.000234	-0.00219	mg/L	0.000234	10.71%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-61.9	-0.00889	mg/L	0.000935	-0.00889	mg/L	0.000935	10.52%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	40.3	-0.00011	mg/L	0.000212	-0.00011	mg/L	0.000212	195.15%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	3.9	-0.00067	mg/L	0.001617	-0.00067	mg/L	0.001617	242.26%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	70.1	-0.00086	mg/L	0.000179	-0.00086	mg/L	0.000179	20.88%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-115.7	-0.00391	mg/L	0.000073	-0.00391	mg/L	0.000073	1.87%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490†	32.8	0.0328	mg/L	0.01178	0.0328	mg/L	0.01178	35.86%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	634.1	0.0486	mg/L	0.01568	0.0486	mg/L	0.01568	32.23%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771†	432.3	-0.00021	mg/L	0.000491	-0.00021	mg/L	0.000491	237.46%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Li 670.784†	75.6	-0.00054	mg/L	0.002817	-0.00054	mg/L	0.002817	517.51%
QC value within limits for Li 670.784 Recovery = Not calculated								

All analyte(s) passed QC.

Approved: February 24, 2011

Pierre Morris

Sequence No.: 39 Autosampler Location: 59
Sample ID: PBW 81 WG357296-02 Date Collected: 2/23/2011 2:35:00 PM
Analyst: PDM Data Type: Reprocessed on 2/23/2011 2:47:20 PM
Logged In Analyst (Original) : peicp2
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: PBW 81 WG357296-02

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: PBW 81 WG357296-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5150243.3						57428.53	1.12%
YRADIAL	300809.7						9507.11	3.16%
Ga 417.206	1389964.2						22390.64	1.61%
GaRADIAL	64722.3						1947.01	3.01%
Ag 328.068†	-93.2	-0.00118	mg/L	0.000855	-0.00118	mg/L	0.000855	72.45%
Al 396.153†	86.4	0.00658	mg/L	0.003706	0.00658	mg/L	0.003706	56.36%
As 188.979†	0.5	0.00087	mg/L	0.001699	0.00087	mg/L	0.001699	196.02%
Ba 233.527†	20.1	-0.00017	mg/L	0.000043	-0.00017	mg/L	0.000043	24.74%
Be 234.861†	39.5	0.00007	mg/L	0.000028	0.00007	mg/L	0.000028	39.57%
B 249.677†	-240.5	-0.00105	mg/L	0.000308	-0.00105	mg/L	0.000308	29.36%
Ca 227.546†	6.0	0.0244	mg/L	0.05571	0.0244	mg/L	0.05571	228.61%
Cd 228.802†	-2.0	-0.00005	mg/L	0.000059	-0.00005	mg/L	0.000059	112.15%
Co 228.616†	-6.8	0.00008	mg/L	0.000205	0.00008	mg/L	0.000205	243.80%
Cr 267.716†	-17.1	-0.00037	mg/L	0.000115	-0.00037	mg/L	0.000115	30.94%
Cu 327.393†	39.2	0.00034	mg/L	0.000357	0.00034	mg/L	0.000357	106.22%
Fe 239.562†	2.9	0.00475	mg/L	0.001944	0.00475	mg/L	0.001944	40.97%
Mg 279.077†	-1.8	-0.00951	mg/L	0.006026	-0.00951	mg/L	0.006026	63.34%
Mn 257.610†	31.3	-0.00028	mg/L	0.000025	-0.00028	mg/L	0.000025	8.88%
Mo 202.031†	1.5	-0.00067	mg/L	0.000128	-0.00067	mg/L	0.000128	19.24%
Ni 231.604†	4.0	-0.00003	mg/L	0.000220	-0.00003	mg/L	0.000220	679.93%
Pb 220.353†	6.8	0.00047	mg/L	0.001124	0.00047	mg/L	0.001124	237.38%
Sb 206.836†	-0.1	-0.00022	mg/L	0.001115	-0.00022	mg/L	0.001115	517.12%
Se 196.026†	-5.9	0.00012	mg/L	0.002698	0.00012	mg/L	0.002698	>999.9%
Si 251.611†	58.4	0.00025	mg/L	0.000350	0.00025	mg/L	0.000350	142.08%
Sn 189.927†	-77.0	-0.0115	mg/L	0.00068	-0.0115	mg/L	0.00068	5.93%
Ti 334.940†	39.7	-0.00011	mg/L	0.000074	-0.00011	mg/L	0.000074	67.88%
Tl 190.801†	1.5	-0.00211	mg/L	0.002843	-0.00211	mg/L	0.002843	134.99%
V 290.880†	-1.0	-0.00133	mg/L	0.001066	-0.00133	mg/L	0.001066	79.89%
Zn 206.200†	-118.6	-0.00400	mg/L	0.000116	-0.00400	mg/L	0.000116	2.91%
K 766.490†	-66.6	-0.00678	mg/L	0.008622	-0.00678	mg/L	0.008622	127.21%
Na 589.592†	-167.0	-0.0118	mg/L	0.00755	-0.0118	mg/L	0.00755	63.96%
Sr 407.771†	199.4	-0.00044	mg/L	0.000016	-0.00044	mg/L	0.000016	3.72%
Li 670.784†	-76.4	-0.00255	mg/L	0.001509	-0.00255	mg/L	0.001509	59.25%

Approved: February 24, 2011
Pierre Morris

==========

Analysis Begun

Start Time: 2/23/2011 2:48:10 PM **Plasma On Time: 2/23/2011 7:13:52 AM**
Logged In Analyst: peicp2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N4011401 **Autosampler Model: AS-93plus**

Sample Information File: C:\pe\peicp2\Sample Information\WEDNESDAY1.sif
Batch ID:
Results Data Set: 022311HR
Results Library: C:\pe\peicp2\Results\Results.mdb

==========

Method Loaded
Method Name: 200.7-6010 PE-ICP2.1 **Method Last Saved: 2/23/2011 2:45:44 PM**
IEC File: CA227 LiBeMOD.iec **MSF File:**
Method Description: STANDARD

==========

Sequence No.: 1 **Autosampler Location: 60**
Sample ID: LCSW 81 WG357296-03 **Date Collected: 2/23/2011 2:48:14 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 81 WG357296-03

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: LCSW 81 WG357296-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4922688.5						25059.86	0.51%
YRADIAL	291586.2						6718.74	2.30%
Ga 417.206	1320204.7						19755.77	1.50%
GaRADIAL	63655.7						737.96	1.16%
Ag 328.068†	37902.0	0.191	mg/L	0.0058	0.191	mg/L	0.0058	3.06%
Al 396.153†	22423.3	4.76	mg/L	0.017	4.76	mg/L	0.017	0.35%
As 188.979†	201.6	0.183	mg/L	0.0054	0.183	mg/L	0.0054	2.96%
Ba 233.527†	28639.2	0.485	mg/L	0.0077	0.485	mg/L	0.0077	1.59%
Be 234.861†	13529.2	0.0238	mg/L	0.00084	0.0238	mg/L	0.00084	3.54%
B 249.677†	50129.3	0.955	mg/L	0.0342	0.955	mg/L	0.0342	3.58%
Ca 227.546†	493.6	4.80	mg/L	0.062	4.80	mg/L	0.062	1.28%
Cd 228.802†	419.8	0.0236	mg/L	0.00031	0.0236	mg/L	0.00031	1.30%
Co 228.616†	1887.3	0.0941	mg/L	0.00051	0.0941	mg/L	0.00051	0.54%
Cr 267.716†	27625.8	0.238	mg/L	0.0045	0.238	mg/L	0.0045	1.90%
Cu 327.393†	33909.6	0.233	mg/L	0.0088	0.233	mg/L	0.0088	3.80%
Fe 239.562†	786.3	1.86	mg/L	0.026	1.86	mg/L	0.026	1.39%
Mg 279.077†	3722.5	4.77	mg/L	0.073	4.77	mg/L	0.073	1.54%
Mn 257.610†	108910.3	0.244	mg/L	0.0044	0.244	mg/L	0.0044	1.78%
Mo 202.031†	6513.9	0.481	mg/L	0.0125	0.481	mg/L	0.0125	2.59%
Ni 231.604†	8505.6	0.245	mg/L	0.0047	0.245	mg/L	0.0047	1.91%
Pb 220.353†	1445.3	0.241	mg/L	0.0018	0.241	mg/L	0.0018	0.74%
Sb 206.836†	899.2	0.562	mg/L	0.0090	0.562	mg/L	0.0090	1.60%
Se 196.026†	264.5	0.190	mg/L	0.0031	0.190	mg/L	0.0031	1.66%
Si 251.611†	82934.9	2.40	mg/L	0.080	2.40	mg/L	0.080	3.35%
Sn 189.927†	-71.9	-0.0106	mg/L	0.00135	-0.0106	mg/L	0.00135	12.72%
Ti 334.940†	349133.6	0.481	mg/L	0.0121	0.481	mg/L	0.0121	2.52%
Tl 190.801†	425.9	0.250	mg/L	0.0027	0.250	mg/L	0.0027	1.08%
V 290.880†	71937.8	0.480	mg/L	0.0097	0.480	mg/L	0.0097	2.02%
Zn 206.200†	15877.1	0.477	mg/L	0.0051	0.477	mg/L	0.0051	1.08%
K 766.490†	58604.7	23.5	mg/L	0.09	23.5	mg/L	0.09	0.39%
Na 589.592†	308038.3	23.5	mg/L	0.59	23.5	mg/L	0.59	2.52%
Sr 407.771†	513186.2	0.506	mg/L	0.0387	0.506	mg/L	0.0387	7.64%
Li 670.784†	35924.1	0.471	mg/L	0.0025	0.471	mg/L	0.0025	0.53%

User canceled analysis.

Approved: February 24, 2011

Pierre Morris

==========

Analysis Begun

Start Time: 2/23/2011 2:54:25 PM **Plasma On Time: 2/23/2011 7:13:52 AM**
Logged In Analyst: peicp2 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N4011401 **Autosampler Model: AS-93plus**

Sample Information File: C:\pe\peicp2\Sample Information\WEDNESDAY1.sif
Batch ID:
Results Data Set: 022311HR
Results Library: C:\pe\peicp2\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 61**
Sample ID: L1102056201 WG357296-01 **Date Collected: 2/23/2011 2:54:27 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102056201 WG357296-01

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102056201 WG357296-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4825287.4						34186.56	0.71%
YRADIAL	291102.5						8239.11	2.83%
Ga 417.206	1347134.2						9746.16	0.72%
GaRADIAL	64135.1						1263.94	1.97%
Ag 328.068†	686.9	0.00263	mg/L	0.000526	0.00263	mg/L	0.000526	20.01%
Al 396.153†	1785.2	0.369	mg/L	0.0179	0.369	mg/L	0.0179	4.85%
As 188.979†	12.7	0.00899	mg/L	0.001367	0.00899	mg/L	0.001367	15.21%
Ba 233.527†	5957.6	0.100	mg/L	0.0005	0.100	mg/L	0.0005	0.52%
Be 234.861†	203.4	0.00017	mg/L	0.000086	0.00017	mg/L	0.000086	51.45%
B 249.677†	22950.3	0.441	mg/L	0.0099	0.441	mg/L	0.0099	2.25%
Ca 227.546†	16171.0	153	mg/L	0.6	153	mg/L	0.6	0.38%
Cd 228.802†	566.8	0.0320	mg/L	0.00018	0.0320	mg/L	0.00018	0.56%
Co 228.616†	2.1	0.00046	mg/L	0.000291	0.00046	mg/L	0.000291	63.07%
Cr 267.716†	155.5	0.00114	mg/L	0.000235	0.00114	mg/L	0.000235	20.69%
Cu 327.393†	72718.9	0.497	mg/L	0.0109	0.497	mg/L	0.0109	2.19%
Fe 239.562†	395.0	0.932	mg/L	0.0330	0.932	mg/L	0.0330	3.54%
Mg 279.077†	6340.4	8.13	mg/L	0.251	8.13	mg/L	0.251	3.08%
Mn 257.610†	32679.9	0.0748	mg/L	0.00186	0.0748	mg/L	0.00186	2.49%
Mo 202.031†	16.2	0.00048	mg/L	0.000330	0.00048	mg/L	0.000330	68.68%
Ni 231.604†	442.3	0.0126	mg/L	0.00012	0.0126	mg/L	0.00012	0.95%
Pb 220.353†	21.5	0.00984	mg/L	0.000536	0.00984	mg/L	0.000536	5.44%
Sb 206.836†	50.7	0.0314	mg/L	0.00186	0.0314	mg/L	0.00186	5.93%
Se 196.026†	-34.3	0.0188	mg/L	0.00201	0.0188	mg/L	0.00201	10.66%
Si 251.611†	343971.7	9.98	mg/L	0.153	9.98	mg/L	0.153	1.53%
Sn 189.927†	-4.2	0.00096	mg/L	0.001472	0.00096	mg/L	0.001472	152.84%
Ti 334.940†	4136.1	0.00707	mg/L	0.001588	0.00707	mg/L	0.001588	22.47%
Tl 190.801†	129.1	0.0586	mg/L	0.00274	0.0586	mg/L	0.00274	4.68%
V 290.880†	-26.9	-0.00144	mg/L	0.000460	-0.00144	mg/L	0.000460	31.89%
Zn 206.200†	50855.7	1.53	mg/L	0.026	1.53	mg/L	0.026	1.68%
K 766.490†	5847.6	2.33	mg/L	0.096	2.33	mg/L	0.096	4.11%
Na 589.592†	306012.2	23.4	mg/L	0.26	23.4	mg/L	0.26	1.11%
Sr 407.771†	186162.1	0.183	mg/L	0.0114	0.183	mg/L	0.0114	6.23%
Li 670.784†	999.1	0.0116	mg/L	0.00135	0.0116	mg/L	0.00135	11.64%

==========

Sequence No.: 2 **Autosampler Location: 62**
Sample ID: L1102056201D WG357296-04 **Date Collected: 2/23/2011 3:01:16 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102056201D WG357296-04

Analyte	Back Pressure	Flow

Approved: February 24, 2011

Pierre Morris

All 166.0 kPa 0.50 L/min

Mean Data: L1102056201D WG357296-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4846522.5						22413.65	0.46%
YRADIAL	286484.9						3532.29	1.23%
Ga 417.206	1337869.5						32004.21	2.39%
GaRADIAL	63764.9						662.53	1.04%
Ag 328.068†	595.4	0.00217	mg/L	0.000287	0.00217	mg/L	0.000287	13.25%
Al 396.153†	1804.4	0.373	mg/L	0.0243	0.373	mg/L	0.0243	6.53%
As 188.979†	13.4	0.00966	mg/L	0.001640	0.00966	mg/L	0.001640	16.99%
Ba 233.527†	5817.9	0.0979	mg/L	0.00054	0.0979	mg/L	0.00054	0.55%
Be 234.861†	180.0	0.00013	mg/L	0.000222	0.00013	mg/L	0.000222	174.46%
B 249.677†	22649.8	0.435	mg/L	0.0085	0.435	mg/L	0.0085	1.95%
Ca 227.546†	16039.8	152	mg/L	3.3	152	mg/L	3.3	2.18%
Cd 228.802†	543.5	0.0307	mg/L	0.00068	0.0307	mg/L	0.00068	2.23%
Co 228.616†	3.5	0.00054	mg/L	0.000115	0.00054	mg/L	0.000115	21.39%
Cr 267.716†	166.0	0.00123	mg/L	0.000063	0.00123	mg/L	0.000063	5.14%
Cu 327.393†	73398.8	0.502	mg/L	0.0122	0.502	mg/L	0.0122	2.43%
Fe 239.562†	391.8	0.925	mg/L	0.0070	0.925	mg/L	0.0070	0.76%
Mg 279.077†	6295.0	8.07	mg/L	0.071	8.07	mg/L	0.071	0.87%
Mn 257.610†	32219.0	0.0737	mg/L	0.00011	0.0737	mg/L	0.00011	0.15%
Mo 202.031†	10.7	0.00007	mg/L	0.000730	0.00007	mg/L	0.000730	978.41%
Ni 231.604†	432.6	0.0123	mg/L	0.00016	0.0123	mg/L	0.00016	1.29%
Pb 220.353†	30.8	0.0113	mg/L	0.00057	0.0113	mg/L	0.00057	5.05%
Sb 206.836†	44.2	0.0274	mg/L	0.00080	0.0274	mg/L	0.00080	2.93%
Se 196.026†	-31.2	0.0207	mg/L	0.00351	0.0207	mg/L	0.00351	16.99%
Si 251.611†	337070.3	9.78	mg/L	0.212	9.78	mg/L	0.212	2.17%
Sn 189.927†	-2.3	0.00128	mg/L	0.001155	0.00128	mg/L	0.001155	90.53%
Ti 334.940†	2540.0	0.00485	mg/L	0.000188	0.00485	mg/L	0.000188	3.86%
Tl 190.801†	128.0	0.0581	mg/L	0.00050	0.0581	mg/L	0.00050	0.86%
V 290.880†	50.4	-0.00093	mg/L	0.000662	-0.00093	mg/L	0.000662	71.48%
Zn 206.200†	48635.1	1.46	mg/L	0.007	1.46	mg/L	0.007	0.46%
K 766.490†	5664.8	2.26	mg/L	0.050	2.26	mg/L	0.050	2.19%
Na 589.592†	300641.7	22.9	mg/L	0.13	22.9	mg/L	0.13	0.59%
Sr 407.771†	183459.7	0.180	mg/L	0.0139	0.180	mg/L	0.0139	7.70%
Li 670.784†	726.4	0.00802	mg/L	0.001681	0.00802	mg/L	0.001681	20.95%

==========

Sequence No.: 3 **Autosampler Location: 63**
Sample ID: L1102056201S WG357296-05 **Date Collected: 2/23/2011 3:07:55 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102056201S WG357296-05

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102056201S WG357296-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4718697.2						35523.77	0.75%
YRADIAL	285145.7						9967.52	3.50%
Ga 417.206	1327042.9						16846.41	1.27%
GaRADIAL	63378.0						1180.49	1.86%
Ag 328.068†	38143.7	0.192	mg/L	0.0009	0.192	mg/L	0.0009	0.45%
Al 396.153†	24704.7	5.24	mg/L	0.037	5.24	mg/L	0.037	0.70%
As 188.979†	212.0	0.189	mg/L	0.0018	0.189	mg/L	0.0018	0.94%
Ba 233.527†	34708.3	0.588	mg/L	0.0042	0.588	mg/L	0.0042	0.72%
Be 234.861†	13778.6	0.0240	mg/L	0.00024	0.0240	mg/L	0.00024	1.01%
B 249.677†	74557.5	1.42	mg/L	0.008	1.42	mg/L	0.008	0.59%
Ca 227.546†	16753.4	159	mg/L	1.3	159	mg/L	1.3	0.84%
Cd 228.802†	975.0	0.0549	mg/L	0.00036	0.0549	mg/L	0.00036	0.65%
Co 228.616†	1865.3	0.0929	mg/L	0.00092	0.0929	mg/L	0.00092	1.00%
Cr 267.716†	28240.0	0.243	mg/L	0.0017	0.243	mg/L	0.0017	0.70%
Cu 327.393†	107822.7	0.738	mg/L	0.0068	0.738	mg/L	0.0068	0.92%
Fe 239.562†	1193.1	2.82	mg/L	0.071	2.82	mg/L	0.071	2.50%
Mg 279.077†	10143.9	13.0	mg/L	0.33	13.0	mg/L	0.33	2.56%

Approved: February 24, 2011

Pierre Morris

Mn 257.610†	143942.8	0.325	mg/L	0.0013	0.325	mg/L	0.0013	0.41%
Mo 202.031†	6746.1	0.498	mg/L	0.0034	0.498	mg/L	0.0034	0.69%
Ni 231.604†	8724.7	0.252	mg/L	0.0015	0.252	mg/L	0.0015	0.60%
Pb 220.353†	1473.7	0.253	mg/L	0.0033	0.253	mg/L	0.0033	1.31%
Sb 206.836†	941.9	0.588	mg/L	0.0057	0.588	mg/L	0.0057	0.97%
Se 196.026†	232.2	0.206	mg/L	0.0053	0.206	mg/L	0.0053	2.57%
Si 251.611†	444591.2	12.9	mg/L	0.09	12.9	mg/L	0.09	0.72%
Sn 189.927†	0.8	0.00182	mg/L	0.001204	0.00182	mg/L	0.001204	66.33%
Ti 334.940†	359201.8	0.497	mg/L	0.0021	0.497	mg/L	0.0021	0.43%
Tl 190.801†	531.2	0.298	mg/L	0.0085	0.298	mg/L	0.0085	2.84%
V 290.880†	74413.4	0.496	mg/L	0.0035	0.496	mg/L	0.0035	0.71%
Zn 206.200†	70831.0	2.13	mg/L	0.009	2.13	mg/L	0.009	0.44%
K 766.490†	66234.7	26.5	mg/L	0.11	26.5	mg/L	0.11	0.41%
Na 589.592†	624731.4	48.3	mg/L	1.36	48.3	mg/L	1.36	2.81%
Sr 407.771†	706272.9	0.697	mg/L	0.0495	0.697	mg/L	0.0495	7.11%
Li 670.784†	37531.0	0.493	mg/L	0.0018	0.493	mg/L	0.0018	0.37%

Sequence No.: 4 **Autosampler Location: 64**
Sample ID: L1102058601 **Date Collected: 2/23/2011 3:14:39 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102058601

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102058601

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4597427.7						62194.83	1.35%
YRADIAL	279812.2						6730.01	2.41%
Ga 417.206	1253639.4						18426.89	1.47%
GaRADIAL	62107.3						428.25	0.69%
Ag 328.068†	402.7	0.00048	mg/L	0.000262	0.00048	mg/L	0.000262	54.83%
Al 396.153†	4062.6	0.854	mg/L	0.0130	0.854	mg/L	0.0130	1.52%
As 188.979†	17.0	0.0142	mg/L	0.00518	0.0142	mg/L	0.00518	36.40%
Ba 233.527†	3421.6	0.0574	mg/L	0.00082	0.0574	mg/L	0.00082	1.44%
Be 234.861†	449.8	0.00119	mg/L	0.000005	0.00119	mg/L	0.000005	0.40%
B 249.677†	19439.9	0.374	mg/L	0.0084	0.374	mg/L	0.0084	2.24%
Ca 227.546†	9159.1	86.6	mg/L	1.57	86.6	mg/L	1.57	1.81%
Cd 228.802†	5.3	0.00060	mg/L	0.000281	0.00060	mg/L	0.000281	47.01%
Co 228.616†	586.9	0.0299	mg/L	0.00024	0.0299	mg/L	0.00024	0.82%
Cr 267.716†	1898.0	0.0143	mg/L	0.00052	0.0143	mg/L	0.00052	3.60%
Cu 327.393†	395.2	0.00283	mg/L	0.000399	0.00283	mg/L	0.000399	14.14%
Fe 239.562†	307.6	0.723	mg/L	0.0182	0.723	mg/L	0.0182	2.52%
Mg 279.077†	15281.1	19.6	mg/L	0.11	19.6	mg/L	0.11	0.55%
Mn 257.610†	1881257.5	4.20	mg/L	0.023	4.20	mg/L	0.023	0.54%
Mo 202.031†	182.6	0.0136	mg/L	0.00019	0.0136	mg/L	0.00019	1.39%
Ni 231.604†	1834.1	0.0528	mg/L	0.00096	0.0528	mg/L	0.00096	1.82%
Pb 220.353†	9.5	0.00471	mg/L	0.001099	0.00471	mg/L	0.001099	23.35%
Sb 206.836†	22.7	0.0140	mg/L	0.00229	0.0140	mg/L	0.00229	16.35%
Se 196.026†	-28.6	0.00425	mg/L	0.002436	0.00425	mg/L	0.002436	57.35%
Si 251.611†	155016.5	4.50	mg/L	0.074	4.50	mg/L	0.074	1.65%
Sn 189.927†	-74.9	-0.0111	mg/L	0.00123	-0.0111	mg/L	0.00123	11.04%
Ti 334.940†	9032.8	0.0132	mg/L	0.00145	0.0132	mg/L	0.00145	11.06%
Tl 190.801†	108.8	0.0589	mg/L	0.00295	0.0589	mg/L	0.00295	5.00%
V 290.880†	-42.6	-0.00157	mg/L	0.000293	-0.00157	mg/L	0.000293	18.68%
Zn 206.200†	1422.2	0.0423	mg/L	0.00077	0.0423	mg/L	0.00077	1.83%
K 766.490†	15451.2	5.43	mg/L	0.107	5.43	mg/L	0.107	1.98%
Na 589.592†	6266110.3	764	mg/L	23.2	764	mg/L	23.2	3.03%
Sr 407.771†	1337557.9	1.32	mg/L	0.122	1.32	mg/L	0.122	9.22%
Li 670.784†	11808.3	0.154	mg/L	0.0018	0.154	mg/L	0.0018	1.19%

Sequence No.: 5 **Autosampler Location: 65**
Sample ID: L1102058601PS WG357405-01 **Date Collected: 2/23/2011 3:21:23 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: February 24, 2011

Pierre Morris

Nebulizer Parameters: L1102058601PS WG357405-01

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102058601PS WG357405-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4521539.8						47126.38	1.04%
YRADIAL	280356.0						7262.01	2.59%
Ga 417.206	1223988.7						7151.96	0.58%
GaRADIAL	62274.7						1415.26	2.27%
Ag 328.068†	40501.7	0.203	mg/L	0.0040	0.203	mg/L	0.0040	1.95%
Al 396.153†	26764.4	5.68	mg/L	0.014	5.68	mg/L	0.014	0.24%
As 188.979†	233.9	0.210	mg/L	0.0057	0.210	mg/L	0.0057	2.69%
Ba 233.527†	32375.7	0.549	mg/L	0.0147	0.549	mg/L	0.0147	2.68%
Be 234.861†	14760.6	0.0263	mg/L	0.00043	0.0263	mg/L	0.00043	1.62%
B 249.677†	71287.0	1.36	mg/L	0.030	1.36	mg/L	0.030	2.21%
Ca 227.546†	8957.6	84.9	mg/L	0.56	84.9	mg/L	0.56	0.66%
Cd 228.802†	443.1	0.0251	mg/L	0.00037	0.0251	mg/L	0.00037	1.47%
Co 228.616†	2479.5	0.124	mg/L	0.0016	0.124	mg/L	0.0016	1.27%
Cr 267.716†	30130.7	0.258	mg/L	0.0061	0.258	mg/L	0.0061	2.36%
Cu 327.393†	36469.3	0.250	mg/L	0.0042	0.250	mg/L	0.0042	1.67%
Fe 239.562†	1091.2	2.58	mg/L	0.052	2.58	mg/L	0.052	2.04%
Mg 279.077†	17915.4	23.0	mg/L	0.17	23.0	mg/L	0.17	0.72%
Mn 257.610†	1838811.9	4.10	mg/L	0.019	4.10	mg/L	0.019	0.45%
Mo 202.031†	7086.4	0.524	mg/L	0.0064	0.524	mg/L	0.0064	1.23%
Ni 231.604†	10366.3	0.299	mg/L	0.0038	0.299	mg/L	0.0038	1.26%
Pb 220.353†	1474.9	0.249	mg/L	0.0032	0.249	mg/L	0.0032	1.29%
Sb 206.836†	979.5	0.612	mg/L	0.0058	0.612	mg/L	0.0058	0.96%
Se 196.026†	254.1	0.201	mg/L	0.0086	0.201	mg/L	0.0086	4.28%
Si 251.611†	232316.6	6.74	mg/L	0.149	6.74	mg/L	0.149	2.21%
Sn 189.927†	-80.4	-0.0120	mg/L	0.00036	-0.0120	mg/L	0.00036	2.99%
Ti 334.940†	375852.3	0.519	mg/L	0.0169	0.519	mg/L	0.0169	3.25%
Tl 190.801†	503.5	0.295	mg/L	0.0050	0.295	mg/L	0.0050	1.70%
V 290.880†	76302.6	0.509	mg/L	0.0128	0.509	mg/L	0.0128	2.51%
Zn 206.200†	17947.6	0.539	mg/L	0.0134	0.539	mg/L	0.0134	2.48%
K 766.490†	76461.2	30.1	mg/L	0.10	30.1	mg/L	0.10	0.32%
Na 589.592†	5835772.4	655	mg/L	41.6	655	mg/L	41.6	6.35%
Sr 407.771†	1681933.7	1.66	mg/L	0.136	1.66	mg/L	0.136	8.20%
Li 670.784†	48945.3	0.643	mg/L	0.0054	0.643	mg/L	0.0054	0.84%

Sequence No.: 6 **Autosampler Location: 66**
Sample ID: L1102058601DL WG357405-02 **Date Collected: 2/23/2011 3:28:08 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102058601DL WG357405-02

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102058601DL WG357405-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4958628.3						61000.19	1.23%
YRADIAL	288280.4						8412.24	2.92%
Ga 417.206	1333262.0						20623.79	1.55%
GaRADIAL	62749.1						654.85	1.04%
Ag 328.068†	-53.9	-0.00115	mg/L	0.001226	-0.00115	mg/L	0.001226	106.46%
Al 396.153†	715.1	0.140	mg/L	0.0133	0.140	mg/L	0.0133	9.46%
As 188.979†	5.5	0.00506	mg/L	0.001932	0.00506	mg/L	0.001932	38.16%
Ba 233.527†	681.7	0.0110	mg/L	0.00011	0.0110	mg/L	0.00011	1.03%
Be 234.861†	133.4	0.00032	mg/L	0.000030	0.00032	mg/L	0.000030	9.36%
B 249.677†	4612.6	0.0913	mg/L	0.00135	0.0913	mg/L	0.00135	1.48%
Ca 227.546†	1732.7	16.4	mg/L	0.23	16.4	mg/L	0.23	1.39%
Cd 228.802†	0.3	0.00012	mg/L	0.000131	0.00012	mg/L	0.000131	112.89%
Co 228.616†	116.2	0.00625	mg/L	0.000295	0.00625	mg/L	0.000295	4.72%

Approved: February 24, 2011

Pierre Morris

Cr 267.716†	384.7	0.00272 mg/L	0.000071	0.00272 mg/L	0.000071	2.60%
Cu 327.393†	133.7	0.00099 mg/L	0.000447	0.00099 mg/L	0.000447	45.07%
Fe 239.562†	62.5	0.145 mg/L	0.0048	0.145 mg/L	0.0048	3.29%
Mg 279.077†	3132.9	4.02 mg/L	0.095	4.02 mg/L	0.095	2.36%
Mn 257.610†	382109.8	0.852 mg/L	0.0031	0.852 mg/L	0.0031	0.37%
Mo 202.031†	40.6	0.00241 mg/L	0.000322	0.00241 mg/L	0.000322	13.39%
Ni 231.604†	367.0	0.0104 mg/L	0.00017	0.0104 mg/L	0.00017	1.63%
Pb 220.353†	6.9	0.00120 mg/L	0.001458	0.00120 mg/L	0.001458	121.32%
Sb 206.836†	4.1	0.00242 mg/L	0.002347	0.00242 mg/L	0.002347	97.14%
Se 196.026†	-10.5	0.00061 mg/L	0.002983	0.00061 mg/L	0.002983	487.06%
Si 251.611†	30283.1	0.878 mg/L	0.0092	0.878 mg/L	0.0092	1.05%
Sn 189.927†	-75.2	-0.0112 mg/L	0.00095	-0.0112 mg/L	0.00095	8.53%
Ti 334.940†	1528.3	0.00211 mg/L	0.000385	0.00211 mg/L	0.000385	18.27%
Tl 190.801†	39.5	0.0198 mg/L	0.00408	0.0198 mg/L	0.00408	20.61%
V 290.880†	-153.9	-0.00235 mg/L	0.000659	-0.00235 mg/L	0.000659	28.05%
Zn 206.200†	182.7	0.00506 mg/L	0.000305	0.00506 mg/L	0.000305	6.04%
K 766.490†	3050.1	1.14 mg/L	0.033	1.14 mg/L	0.033	2.93%
Na 589.592†	1288911.6	102 mg/L	2.2	102 mg/L	2.2	2.15%
Sr 407.771†	259982.4	0.256 mg/L	0.0175	0.256 mg/L	0.0175	6.83%
Li 670.784†	2582.7	0.0325 mg/L	0.00217	0.0325 mg/L	0.00217	6.69%

Sequence No.: 7 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/23/2011 3:35:45 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4804069.1						21123.30	0.44%
YRADIAL	287791.5						8606.65	2.99%
Ga 417.206	1261436.1						13287.82	1.05%
GaRADIAL	62127.4						1106.72	1.78%
Ag 328.068†	80055.2	0.404	mg/L	0.0071	0.404	mg/L	0.0071	1.77%
QC value within limits for Ag 328.068 Recovery = 101.09%								
Al 396.153†	46544.0	9.89	mg/L	0.214	9.89	mg/L	0.214	2.16%
QC value within limits for Al 396.153 Recovery = 98.90%								
As 188.979†	424.8	0.385	mg/L	0.0036	0.385	mg/L	0.0036	0.92%
QC value within limits for As 188.979 Recovery = 96.16%								
Ba 233.527†	58988.4	1.00	mg/L	0.012	1.00	mg/L	0.012	1.22%
QC value within limits for Ba 233.527 Recovery = 100.05%								
Be 234.861†	28674.9	0.0504	mg/L	0.00082	0.0504	mg/L	0.00082	1.64%
QC value within limits for Be 234.861 Recovery = 100.76%								
B 249.677†	26940.5	0.519	mg/L	0.0100	0.519	mg/L	0.0100	1.92%
QC value within limits for B 249.677 Recovery = 103.87%								
Ca 227.546†	1039.3	10.1	mg/L	0.12	10.1	mg/L	0.12	1.18%
QC value within limits for Ca 227.546 Recovery = 101.31%								
Cd 228.802†	876.3	0.0491	mg/L	0.00066	0.0491	mg/L	0.00066	1.34%
QC value within limits for Cd 228.802 Recovery = 98.23%								
Co 228.616†	3845.3	0.191	mg/L	0.0006	0.191	mg/L	0.0006	0.33%
QC value within limits for Co 228.616 Recovery = 95.62%								
Cr 267.716†	57366.9	0.495	mg/L	0.0048	0.495	mg/L	0.0048	0.97%
QC value within limits for Cr 267.716 Recovery = 98.92%								
Cu 327.393†	72146.3	0.495	mg/L	0.0102	0.495	mg/L	0.0102	2.06%
QC value within limits for Cu 327.393 Recovery = 98.93%								
Fe 239.562†	1633.6	3.86	mg/L	0.121	3.86	mg/L	0.121	3.15%
QC value within limits for Fe 239.562 Recovery = 96.54%								
Mg 279.077†	7591.5	9.74	mg/L	0.293	9.74	mg/L	0.293	3.01%
QC value within limits for Mg 279.077 Recovery = 97.43%								
Mn 257.610†	225213.1	0.506	mg/L	0.0067	0.506	mg/L	0.0067	1.32%
QC value within limits for Mn 257.610 Recovery = 101.13%								
Mo 202.031†	13478.1	0.995	mg/L	0.0079	0.995	mg/L	0.0079	0.79%
QC value within limits for Mo 202.031 Recovery = 99.51%								
Ni 231.604†	17257.2	0.498	mg/L	0.0064	0.498	mg/L	0.0064	1.28%
QC value within limits for Ni 231.604 Recovery = 99.61%								

Approved: February 24, 2011

Pierre Morris

Pb 220.353†	2942.4	0.491 mg/L	0.0046	0.491 mg/L	0.0046	0.93%
QC value within limits for Pb 220.353 Recovery = 98.24%						
Sb 206.836†	1866.7	1.17 mg/L	0.014	1.17 mg/L	0.014	1.21%
QC value within limits for Sb 206.836 Recovery = 97.16%						
Se 196.026†	553.7	0.393 mg/L	0.0069	0.393 mg/L	0.0069	1.76%
QC value within limits for Se 196.026 Recovery = 98.23%						
Si 251.611†	171250.6	4.96 mg/L	0.082	4.96 mg/L	0.082	1.65%
QC value within limits for Si 251.611 Recovery = 99.11%						
Sn 189.927†	5769.0	0.986 mg/L	0.0032	0.986 mg/L	0.0032	0.33%
QC value within limits for Sn 189.927 Recovery = 98.63%						
Ti 334.940†	717813.8	0.989 mg/L	0.0034	0.989 mg/L	0.0034	0.35%
QC value within limits for Ti 334.940 Recovery = 98.95%						
Tl 190.801†	848.2	0.502 mg/L	0.0018	0.502 mg/L	0.0018	0.36%
QC value within limits for Tl 190.801 Recovery = 100.42%						
V 290.880†	149813.3	1.00 mg/L	0.017	1.00 mg/L	0.017	1.68%
QC value within limits for V 290.880 Recovery = 100.01%						
Zn 206.200†	33025.4	0.993 mg/L	0.0053	0.993 mg/L	0.0053	0.54%
QC value within limits for Zn 206.200 Recovery = 99.29%						
K 766.490†	121167.5	48.8 mg/L	1.14	48.8 mg/L	1.14	2.34%
QC value within limits for K 766.490 Recovery = 97.58%						
Na 589.592†	629253.8	48.7 mg/L	0.37	48.7 mg/L	0.37	0.77%
QC value within limits for Na 589.592 Recovery = 97.32%						
Sr 407.771†	1000778.1	0.987 mg/L	0.0913	0.987 mg/L	0.0913	9.25%
QC value within limits for Sr 407.771 Recovery = 98.74%						
Li 670.784†	74595.7	0.981 mg/L	0.0163	0.981 mg/L	0.0163	1.66%
QC value within limits for Li 670.784 Recovery = 98.06%						

All analyte(s) passed QC.

==========

Sequence No.: 8 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/23/2011 3:42:24 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5036856.9						65527.94	1.30%
YRADIAL	294191.5						6503.68	2.21%
Ga 417.206	1337863.4						18603.36	1.39%
GaRADIAL	63126.5						1679.36	2.66%
Ag 328.068†	-66.9	-0.00105	mg/L	0.000789	-0.00105	mg/L	0.000789	75.41%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	2.5	-0.0113	mg/L	0.00804	-0.0113	mg/L	0.00804	71.22%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	0.8	0.00114	mg/L	0.001669	0.00114	mg/L	0.001669	146.41%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-0.8	-0.00053	mg/L	0.000081	-0.00053	mg/L	0.000081	15.33%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	43.1	0.00008	mg/L	0.000035	0.00008	mg/L	0.000035	45.40%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	677.9	0.0163	mg/L	0.00027	0.0163	mg/L	0.00027	1.64%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	1.3	-0.0205	mg/L	0.03696	-0.0205	mg/L	0.03696	180.44%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-4.3	-0.00018	mg/L	0.000028	-0.00018	mg/L	0.000028	15.26%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-0.8	0.00039	mg/L	0.000254	0.00039	mg/L	0.000254	65.61%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	6.7	-0.00017	mg/L	0.000055	-0.00017	mg/L	0.000055	33.30%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	9.0	0.00013	mg/L	0.000330	0.00013	mg/L	0.000330	258.13%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	0.0	-0.00198	mg/L	0.006814	-0.00198	mg/L	0.006814	344.53%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	1.7	-0.00490	mg/L	0.002425	-0.00490	mg/L	0.002425	49.47%

Approved: February 24, 2011

Pierre Morris

	QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	77.0	-0.00017 mg/L	0.000032	-0.00017 mg/L	0.000032	18.72%	
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-2.5	-0.00096 mg/L	0.000308	-0.00096 mg/L	0.000308	32.15%	
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Ni 231.604†	2.6	-0.00007 mg/L	0.000113	-0.00007 mg/L	0.000113	163.16%	
	QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	5.4	0.00023 mg/L	0.001010	0.00023 mg/L	0.001010	438.62%	
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	0.1	-0.00005 mg/L	0.000974	-0.00005 mg/L	0.000974	>999.9%	
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.9	0.00285 mg/L	0.002729	0.00285 mg/L	0.002729	95.72%	
	QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	1.4	-0.00140 mg/L	0.000551	-0.00140 mg/L	0.000551	39.27%	
	QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-74.3	-0.0110 mg/L	0.00060	-0.0110 mg/L	0.00060	5.44%	
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	-149.2	-0.00037 mg/L	0.000156	-0.00037 mg/L	0.000156	42.28%	
	QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-2.9	-0.00466 mg/L	0.001343	-0.00466 mg/L	0.001343	28.81%	
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V 290.880†	29.8	-0.00113 mg/L	0.000479	-0.00113 mg/L	0.000479	42.39%	
	QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	-176.0	-0.00572 mg/L	0.000192	-0.00572 mg/L	0.000192	3.36%	
	QC value within limits for Zn 206.200 Recovery = Not calculated						
K 766.490†	46.4	0.0383 mg/L	0.03406	0.0383 mg/L	0.03406	89.01%	
	QC value within limits for K 766.490 Recovery = Not calculated						
Na 589.592†	1026.6	0.0783 mg/L	0.01201	0.0783 mg/L	0.01201	15.34%	
	QC value within limits for Na 589.592 Recovery = Not calculated						
Sr 407.771†	-40.1	-0.00067 mg/L	0.000059	-0.00067 mg/L	0.000059	8.71%	
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Li 670.784†	38.4	-0.00103 mg/L	0.001054	-0.00103 mg/L	0.001054	101.89%	
	QC value within limits for Li 670.784 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 9 **Autosampler Location: 67**
Sample ID: PBW 66 WG357295-01 **Date Collected: 2/23/2011 3:49:00 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 66 WG357295-01

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: PBW 66 WG357295-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5192781.5						76332.10	1.47%
YRADIAL	289656.5						4449.52	1.54%
Ga 417.206	1318692.4						30381.65	2.30%
GaRADIAL	62821.1						250.30	0.40%
Ag 328.068†	-172.6	-0.00158	mg/L	0.000366	-0.00158	mg/L	0.000366	23.19%
Al 396.153†	87.4	0.00679	mg/L	0.006496	0.00679	mg/L	0.006496	95.61%
As 188.979†	-0.4	0.00004	mg/L	0.001173	0.00004	mg/L	0.001173	>999.9%
Ba 233.527†	-2.8	-0.00056	mg/L	0.000037	-0.00056	mg/L	0.000037	6.61%
Be 234.861†	-49.0	-0.00008	mg/L	0.000041	-0.00008	mg/L	0.000041	49.19%
B 249.677†	730.9	0.0173	mg/L	0.00060	0.0173	mg/L	0.00060	3.48%
Ca 227.546†	4.6	0.0112	mg/L	0.02317	0.0112	mg/L	0.02317	206.62%
Cd 228.802†	1.5	0.00015	mg/L	0.000229	0.00015	mg/L	0.000229	153.50%
Co 228.616†	-5.1	0.00018	mg/L	0.000137	0.00018	mg/L	0.000137	78.02%
Cr 267.716†	33.1	0.00006	mg/L	0.000074	0.00006	mg/L	0.000074	121.28%
Cu 327.393†	194.5	0.00140	mg/L	0.000642	0.00140	mg/L	0.000642	46.03%
Fe 239.562†	2.3	0.00349	mg/L	0.005511	0.00349	mg/L	0.005511	157.92%
Mg 279.077†	41.9	0.0466	mg/L	0.00207	0.0466	mg/L	0.00207	4.43%
Mn 257.610†	53.4	-0.00022	mg/L	0.000114	-0.00022	mg/L	0.000114	50.98%
Mo 202.031†	2.7	-0.00057	mg/L	0.000287	-0.00057	mg/L	0.000287	50.06%
Ni 231.604†	9.4	0.00012	mg/L	0.000295	0.00012	mg/L	0.000295	236.82%
Pb 220.353†	5.5	0.00025	mg/L	0.001285	0.00025	mg/L	0.001285	524.54%
Sb 206.836†	3.6	0.00208	mg/L	0.000592	0.00208	mg/L	0.000592	28.50%

Approved: February 24, 2011

Pierce Morris

Se 196.026†	0.6	0.00463 mg/L	0.001354	0.00463 mg/L	0.001354	29.27%
Si 251.611†	87.4	0.00109 mg/L	0.000372	0.00109 mg/L	0.000372	34.28%
Sn 189.927†	-47.5	-0.00643 mg/L	0.000380	-0.00643 mg/L	0.000380	5.91%
Ti 334.940†	-128.7	-0.00034 mg/L	0.000123	-0.00034 mg/L	0.000123	35.92%
Tl 190.801†	1.7	-0.00196 mg/L	0.005035	-0.00196 mg/L	0.005035	257.25%
V 290.880†	22.7	-0.00118 mg/L	0.000955	-0.00118 mg/L	0.000955	81.19%
Zn 206.200†	-87.3	-0.00306 mg/L	0.000046	-0.00306 mg/L	0.000046	1.51%
K 766.490†	92.6	0.0566 mg/L	0.02188	0.0566 mg/L	0.02188	38.62%
Na 589.592†	1643.5	0.125 mg/L	0.0126	0.125 mg/L	0.0126	10.06%
Sr 407.771†	829.1	0.00018 mg/L	0.000179	0.00018 mg/L	0.000179	97.08%
Li 670.784†	32.5	-0.00111 mg/L	0.001092	-0.00111 mg/L	0.001092	98.09%

Sequence No.: 10 **Autosampler Location: 68**
Sample ID: LCSW 66 WG357295-02 **Date Collected: 2/23/2011 3:55:45 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 66 WG357295-02

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: LCSW 66 WG357295-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5070838.2						65599.52	1.29%
YRADIAL	299934.6						2512.91	0.84%
Ga 417.206	1333057.0						24677.72	1.85%
GaRADIAL	64779.7						551.16	0.85%
Ag 328.068†	36651.9	0.185	mg/L	0.0040	0.185	mg/L	0.0040	2.17%
Al 396.153†	22378.3	4.75	mg/L	0.014	4.75	mg/L	0.014	0.30%
As 188.979†	191.0	0.173	mg/L	0.0031	0.173	mg/L	0.0031	1.81%
Ba 233.527†	27648.9	0.469	mg/L	0.0063	0.469	mg/L	0.0063	1.34%
Be 234.861†	12627.6	0.0222	mg/L	0.00035	0.0222	mg/L	0.00035	1.56%
B 249.677†	46922.3	0.894	mg/L	0.0121	0.894	mg/L	0.0121	1.35%
Ca 227.546†	469.8	4.57	mg/L	0.137	4.57	mg/L	0.137	3.01%
Cd 228.802†	399.3	0.0225	mg/L	0.00033	0.0225	mg/L	0.00033	1.47%
Co 228.616†	1806.3	0.0901	mg/L	0.00109	0.0901	mg/L	0.00109	1.21%
Cr 267.716†	26854.6	0.231	mg/L	0.0024	0.231	mg/L	0.0024	1.02%
Cu 327.393†	33488.3	0.230	mg/L	0.0025	0.230	mg/L	0.0025	1.07%
Fe 239.562†	760.9	1.80	mg/L	0.025	1.80	mg/L	0.025	1.38%
Mg 279.077†	3632.2	4.66	mg/L	0.027	4.66	mg/L	0.027	0.58%
Mn 257.610†	105445.3	0.237	mg/L	0.0031	0.237	mg/L	0.0031	1.32%
Mo 202.031†	6339.3	0.468	mg/L	0.0030	0.468	mg/L	0.0030	0.64%
Ni 231.604†	8044.0	0.232	mg/L	0.0028	0.232	mg/L	0.0028	1.23%
Pb 220.353†	1382.6	0.230	mg/L	0.0037	0.230	mg/L	0.0037	1.60%
Sb 206.836†	861.0	0.538	mg/L	0.0112	0.538	mg/L	0.0112	2.08%
Se 196.026†	252.0	0.181	mg/L	0.0058	0.181	mg/L	0.0058	3.18%
Si 251.611†	79866.9	2.31	mg/L	0.035	2.31	mg/L	0.035	1.53%
Sn 189.927†	-47.0	-0.00635	mg/L	0.000158	-0.00635	mg/L	0.000158	2.49%
Ti 334.940†	340939.2	0.470	mg/L	0.0067	0.470	mg/L	0.0067	1.43%
Tl 190.801†	394.0	0.232	mg/L	0.0048	0.232	mg/L	0.0048	2.05%
V 290.880†	69799.5	0.465	mg/L	0.0038	0.465	mg/L	0.0038	0.83%
Zn 206.200†	15016.4	0.451	mg/L	0.0075	0.451	mg/L	0.0075	1.66%
K 766.490†	57157.9	22.9	mg/L	0.08	22.9	mg/L	0.08	0.37%
Na 589.592†	300283.8	22.9	mg/L	0.22	22.9	mg/L	0.22	0.95%
Sr 407.771†	488788.8	0.482	mg/L	0.0378	0.482	mg/L	0.0378	7.84%
Li 670.784†	35543.2	0.466	mg/L	0.0009	0.466	mg/L	0.0009	0.19%

Sequence No.: 11 **Autosampler Location: 69**
Sample ID: LCSW DUP WG357295-03 **Date Collected: 2/23/2011 4:02:24 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW DUP WG357295-03

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Approved: February 24, 2011

Pierre Morris

Mean Data: LCSW DUP WG357295-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4976413.7						64403.47	1.29%
YRADIAL	292984.8						3041.93	1.04%
Ga 417.206	1283952.9						16170.88	1.26%
GaRADIAL	63386.8						1547.48	2.44%
Ag 328.068†	37546.7	0.189	mg/L	0.0048	0.189	mg/L	0.0048	2.53%
Al 396.153†	22381.5	4.75	mg/L	0.016	4.75	mg/L	0.016	0.34%
As 188.979†	199.0	0.180	mg/L	0.0049	0.180	mg/L	0.0049	2.71%
Ba 233.527†	27856.9	0.472	mg/L	0.0113	0.472	mg/L	0.0113	2.39%
Be 234.861†	13172.7	0.0232	mg/L	0.00038	0.0232	mg/L	0.00038	1.63%
B 249.677†	48315.2	0.921	mg/L	0.0216	0.921	mg/L	0.0216	2.35%
Ca 227.546†	481.7	4.68	mg/L	0.057	4.68	mg/L	0.057	1.21%
Cd 228.802†	414.0	0.0233	mg/L	0.00020	0.0233	mg/L	0.00020	0.86%
Co 228.616†	1838.7	0.0917	mg/L	0.00100	0.0917	mg/L	0.00100	1.09%
Cr 267.716†	27182.2	0.234	mg/L	0.0054	0.234	mg/L	0.0054	2.32%
Cu 327.393†	34161.5	0.234	mg/L	0.0044	0.234	mg/L	0.0044	1.86%
Fe 239.562†	777.7	1.84	mg/L	0.045	1.84	mg/L	0.045	2.44%
Mg 279.077†	3701.1	4.75	mg/L	0.091	4.75	mg/L	0.091	1.91%
Mn 257.610†	107281.7	0.241	mg/L	0.0058	0.241	mg/L	0.0058	2.41%
Mo 202.031†	6372.2	0.470	mg/L	0.0114	0.470	mg/L	0.0114	2.42%
Ni 231.604†	8153.3	0.235	mg/L	0.0068	0.235	mg/L	0.0068	2.91%
Pb 220.353†	1408.5	0.235	mg/L	0.0028	0.235	mg/L	0.0028	1.19%
Sb 206.836†	893.0	0.558	mg/L	0.0063	0.558	mg/L	0.0063	1.13%
Se 196.026†	259.9	0.187	mg/L	0.0014	0.187	mg/L	0.0014	0.77%
Si 251.611†	82332.1	2.38	mg/L	0.054	2.38	mg/L	0.054	2.26%
Sn 189.927†	-48.9	-0.00668	mg/L	0.000427	-0.00668	mg/L	0.000427	6.39%
Ti 334.940†	340057.6	0.469	mg/L	0.0032	0.469	mg/L	0.0032	0.67%
Tl 190.801†	400.6	0.236	mg/L	0.0020	0.236	mg/L	0.0020	0.86%
V 290.880†	70552.6	0.470	mg/L	0.0122	0.470	mg/L	0.0122	2.59%
Zn 206.200†	15297.3	0.460	mg/L	0.0092	0.460	mg/L	0.0092	2.01%
K 766.490†	57406.1	23.0	mg/L	0.19	23.0	mg/L	0.19	0.82%
Na 589.592†	301666.8	23.0	mg/L	0.22	23.0	mg/L	0.22	0.94%
Sr 407.771†	484518.7	0.478	mg/L	0.0311	0.478	mg/L	0.0311	6.52%
Li 670.784†	35319.7	0.463	mg/L	0.0044	0.463	mg/L	0.0044	0.95%

Sequence No.: 12 **Autosampler Location: 70**
Sample ID: L1102043901 **Date Collected: 2/23/2011 4:09:02 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102043901

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102043901

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4914553.5						32838.27	0.67%
YRADIAL	293188.4						7152.09	2.44%
Ga 417.206	1354748.8						12040.72	0.89%
GaRADIAL	64402.8						670.86	1.04%
Ag 328.068†	1081.5	0.00349	mg/L	0.000508	0.00349	mg/L	0.000508	14.57%
Al 396.153†	18382.6	3.90	mg/L	0.014	3.90	mg/L	0.014	0.36%
As 188.979†	12.3	0.00864	mg/L	0.003597	0.00864	mg/L	0.003597	41.64%
Ba 233.527†	20328.6	0.344	mg/L	0.0050	0.344	mg/L	0.0050	1.46%
Be 234.861†	1064.7	0.00141	mg/L	0.000187	0.00141	mg/L	0.000187	13.27%
B 249.677†	544.7	0.0374	mg/L	0.00044	0.0374	mg/L	0.00044	1.18%
Ca 227.546†	19757.8	187	mg/L	4.6	187	mg/L	4.6	2.44%
Cd 228.802†	2.2	0.00018	mg/L	0.000105	0.00018	mg/L	0.000105	58.77%
Co 228.616†	81.9	0.00402	mg/L	0.000206	0.00402	mg/L	0.000206	5.12%
Cr 267.716†	5817.3	0.0471	mg/L	0.00017	0.0471	mg/L	0.00017	0.36%
Cu 327.393†	18918.9	0.130	mg/L	0.0034	0.130	mg/L	0.0034	2.58%
Fe 239.562†	2542.8	6.01	mg/L	0.072	6.01	mg/L	0.072	1.20%
Mg 279.077†	6839.9	8.77	mg/L	0.133	8.77	mg/L	0.133	1.52%
Mn 257.610†	2837680.0	6.32	mg/L	0.010	6.32	mg/L	0.010	0.15%

Approved: February 24, 2011

Pierce Morris

Mo 202.031†	159.6	0.0126 mg/L	0.00058	0.0126 mg/L	0.00058	4.57%
Ni 231.604†	2586.5	0.0745 mg/L	0.00022	0.0745 mg/L	0.00022	0.29%
Pb 220.353†	26.0	0.0118 mg/L	0.00067	0.0118 mg/L	0.00067	5.67%
Sb 206.836†	20.4	0.0123 mg/L	0.00200	0.0123 mg/L	0.00200	16.28%
Se 196.026†	-44.6	0.0188 mg/L	0.00208	0.0188 mg/L	0.00208	11.05%
Si 251.611†	223680.7	6.49 mg/L	0.132	6.49 mg/L	0.132	2.04%
Sn 189.927†	12.2	0.00376 mg/L	0.000833	0.00376 mg/L	0.000833	22.17%
Ti 334.940†	85164.2	0.119 mg/L	0.0024	0.119 mg/L	0.0024	2.01%
Tl 190.801†	131.0	0.0674 mg/L	0.00497	0.0674 mg/L	0.00497	7.38%
V 290.880†	2030.9	0.0127 mg/L	0.00070	0.0127 mg/L	0.00070	5.52%
Zn 206.200†	12531.3	0.376 mg/L	0.0044	0.376 mg/L	0.0044	1.17%
K 766.490†	1533.4	0.626 mg/L	0.0301	0.626 mg/L	0.0301	4.81%
Na 589.592†	79309.0	6.00 mg/L	0.090	6.00 mg/L	0.090	1.49%
Sr 407.771†	775812.7	0.765 mg/L	0.0613	0.765 mg/L	0.0613	8.01%
Li 670.784†	647.1	0.00698 mg/L	0.001010	0.00698 mg/L	0.001010	14.47%

Sequence No.: 13 **Autosampler Location: 71**
Sample ID: L1102043901PS WG357406-01 **Date Collected: 2/23/2011 4:15:46 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102043901PS WG357406-01

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102043901PS WG357406-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4852614.8						51212.95	1.06%
YRADIAL	296936.9						2085.35	0.70%
Ga 417.206	1333298.4						16120.14	1.21%
GaRADIAL	65783.0						945.86	1.44%
Ag 328.068†	38753.2	0.194	mg/L	0.0035	0.194	mg/L	0.0035	1.79%
Al 396.153†	39071.9	8.31	mg/L	0.017	8.31	mg/L	0.017	0.20%
As 188.979†	208.0	0.186	mg/L	0.0033	0.186	mg/L	0.0033	1.78%
Ba 233.527†	46600.9	0.789	mg/L	0.0087	0.789	mg/L	0.0087	1.11%
Be 234.861†	14466.8	0.0250	mg/L	0.00044	0.0250	mg/L	0.00044	1.75%
B 249.677†	49044.3	0.956	mg/L	0.0163	0.956	mg/L	0.0163	1.71%
Ca 227.546†	18569.6	176	mg/L	2.9	176	mg/L	2.9	1.65%
Cd 228.802†	402.8	0.0226	mg/L	0.00026	0.0226	mg/L	0.00026	1.14%
Co 228.616†	1940.1	0.0963	mg/L	0.00175	0.0963	mg/L	0.00175	1.82%
Cr 267.716†	33362.3	0.285	mg/L	0.0015	0.285	mg/L	0.0015	0.54%
Cu 327.393†	51201.9	0.351	mg/L	0.0056	0.351	mg/L	0.0056	1.58%
Fe 239.562†	3074.4	7.27	mg/L	0.067	7.27	mg/L	0.067	0.93%
Mg 279.077†	9790.7	12.6	mg/L	0.06	12.6	mg/L	0.06	0.49%
Mn 257.610†	2682058.1	5.97	mg/L	0.004	5.97	mg/L	0.004	0.07%
Mo 202.031†	6915.7	0.512	mg/L	0.0086	0.512	mg/L	0.0086	1.69%
Ni 231.604†	10741.4	0.310	mg/L	0.0045	0.310	mg/L	0.0045	1.47%
Pb 220.353†	1441.6	0.248	mg/L	0.0058	0.248	mg/L	0.0058	2.34%
Sb 206.836†	911.0	0.569	mg/L	0.0090	0.569	mg/L	0.0090	1.58%
Se 196.026†	213.8	0.196	mg/L	0.0026	0.196	mg/L	0.0026	1.34%
Si 251.611†	315946.5	9.16	mg/L	0.144	9.16	mg/L	0.144	1.57%
Sn 189.927†	1.3	0.00189	mg/L	0.001053	0.00189	mg/L	0.001053	55.83%
Ti 334.940†	432269.2	0.597	mg/L	0.0022	0.597	mg/L	0.0022	0.36%
Tl 190.801†	527.4	0.304	mg/L	0.0081	0.304	mg/L	0.0081	2.68%
V 290.880†	76334.0	0.509	mg/L	0.0039	0.509	mg/L	0.0039	0.77%
Zn 206.200†	27308.8	0.820	mg/L	0.0090	0.820	mg/L	0.0090	1.10%
K 766.490†	61239.6	24.6	mg/L	0.09	24.6	mg/L	0.09	0.36%
Na 589.592†	379428.6	29.0	mg/L	0.46	29.0	mg/L	0.46	1.59%
Sr 407.771†	1199934.6	1.18	mg/L	0.064	1.18	mg/L	0.064	5.44%
Li 670.784†	37096.7	0.487	mg/L	0.0008	0.487	mg/L	0.0008	0.15%

Sequence No.: 14 **Autosampler Location: 72**
Sample ID: L1102043901DL WG357406-02 **Date Collected: 2/23/2011 4:22:30 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: February 24, 2011

Pierre Morris

Nebulizer Parameters: L1102043901DL WG357406-02

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: L1102043901DL WG357406-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5000980.7						50257.53	1.00%
YRADIAL	296420.2						546.87	0.18%
Ga 417.206	1380249.7						32580.08	2.36%
GaRADIAL	64876.5						1231.59	1.90%
Ag 328.068†	254.2	0.00030	mg/L	0.000213	0.00030	mg/L	0.000213	70.50%
Al 396.153†	4301.5	0.905	mg/L	0.0112	0.905	mg/L	0.0112	1.24%
As 188.979†	4.2	0.00370	mg/L	0.001913	0.00370	mg/L	0.001913	51.72%
Ba 233.527†	4072.1	0.0684	mg/L	0.00299	0.0684	mg/L	0.00299	4.38%
Be 234.861†	241.9	0.00030	mg/L	0.000054	0.00030	mg/L	0.000054	17.74%
B 249.677†	651.0	0.0212	mg/L	0.00079	0.0212	mg/L	0.00079	3.72%
Ca 227.546†	3802.4	35.9	mg/L	2.02	35.9	mg/L	2.02	5.62%
Cd 228.802†	-2.5	-0.00009	mg/L	0.000144	-0.00009	mg/L	0.000144	155.34%
Co 228.616†	14.0	0.00102	mg/L	0.000074	0.00102	mg/L	0.000074	7.24%
Cr 267.716†	1193.0	0.00947	mg/L	0.000418	0.00947	mg/L	0.000418	4.42%
Cu 327.393†	3836.5	0.0265	mg/L	0.00214	0.0265	mg/L	0.00214	8.07%
Fe 239.562†	583.8	1.38	mg/L	0.043	1.38	mg/L	0.043	3.09%
Mg 279.077†	1573.1	2.01	mg/L	0.064	2.01	mg/L	0.064	3.17%
Mn 257.610†	593256.1	1.32	mg/L	0.069	1.32	mg/L	0.069	5.24%
Mo 202.031†	34.6	0.00212	mg/L	0.000244	0.00212	mg/L	0.000244	11.51%
Ni 231.604†	521.9	0.0149	mg/L	0.00059	0.0149	mg/L	0.00059	3.97%
Pb 220.353†	4.7	0.00167	mg/L	0.000738	0.00167	mg/L	0.000738	44.07%
Sb 206.836†	9.4	0.00564	mg/L	0.001682	0.00564	mg/L	0.001682	29.82%
Se 196.026†	-28.2	-0.00664	mg/L	0.004418	-0.00664	mg/L	0.004418	66.49%
Si 251.611†	44552.2	1.29	mg/L	0.080	1.29	mg/L	0.080	6.23%
Sn 189.927†	-50.6	-0.00696	mg/L	0.000380	-0.00696	mg/L	0.000380	5.45%
Ti 334.940†	16747.5	0.0233	mg/L	0.00111	0.0233	mg/L	0.00111	4.75%
Tl 190.801†	69.7	0.0366	mg/L	0.00128	0.0366	mg/L	0.00128	3.51%
V 290.880†	503.1	0.00214	mg/L	0.000798	0.00214	mg/L	0.000798	37.36%
Zn 206.200†	2471.6	0.0738	mg/L	0.00363	0.0738	mg/L	0.00363	4.92%
K 766.490†	334.8	0.152	mg/L	0.0236	0.152	mg/L	0.0236	15.49%
Na 589.592†	17873.9	1.35	mg/L	0.014	1.35	mg/L	0.014	1.02%
Sr 407.771†	178929.6	0.176	mg/L	0.0113	0.176	mg/L	0.0113	6.45%
Li 670.784†	79.6	-0.00049	mg/L	0.000685	-0.00049	mg/L	0.000685	138.96%

Sequence No.: 15 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/23/2011 4:29:10 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4823512.2						87760.11	1.82%
YRADIAL	282431.0						6018.78	2.13%
Ga 417.206	1297310.9						32622.34	2.51%
GaRADIAL	62353.4						589.78	0.95%
Ag 328.068†	76773.3	0.388	mg/L	0.0140	0.388	mg/L	0.0140	3.62%
QC value within limits for Ag 328.068 Recovery = 96.94%								
Al 396.153†	46433.0	9.87	mg/L	0.055	9.87	mg/L	0.055	0.55%
QC value within limits for Al 396.153 Recovery = 98.67%								
As 188.979†	412.1	0.373	mg/L	0.0060	0.373	mg/L	0.0060	1.62%
QC value within limits for As 188.979 Recovery = 93.28%								
Ba 233.527†	58397.2	0.990	mg/L	0.0295	0.990	mg/L	0.0295	2.98%
QC value within limits for Ba 233.527 Recovery = 99.05%								
Be 234.861†	27664.6	0.0486	mg/L	0.00191	0.0486	mg/L	0.00191	3.92%
QC value within limits for Be 234.861 Recovery = 97.26%								

Approved: February 24, 2011

Pierre Morris

B 249.677†	25735.0	0.496 mg/L	0.0195	0.496 mg/L	0.0195	3.93%
QC value within limits for B 249.677 Recovery = 99.27%						
Ca 227.546†	998.7	9.75 mg/L	0.239	9.75 mg/L	0.239	2.45%
QC value within limits for Ca 227.546 Recovery = 97.46%						
Cd 228.802†	849.0	0.0476 mg/L	0.00117	0.0476 mg/L	0.00117	2.46%
QC value within limits for Cd 228.802 Recovery = 95.26%						
Co 228.616†	3808.8	0.189 mg/L	0.0036	0.189 mg/L	0.0036	1.88%
QC value within limits for Co 228.616 Recovery = 94.72%						
Cr 267.716†	56661.3	0.489 mg/L	0.0137	0.489 mg/L	0.0137	2.81%
QC value within limits for Cr 267.716 Recovery = 97.70%						
Cu 327.393†	69085.1	0.474 mg/L	0.0198	0.474 mg/L	0.0198	4.17%
QC value within limits for Cu 327.393 Recovery = 94.74%						
Fe 239.562†	1612.8	3.81 mg/L	0.058	3.81 mg/L	0.058	1.53%
QC value within limits for Fe 239.562 Recovery = 95.31%						
Mg 279.077†	7565.8	9.71 mg/L	0.165	9.71 mg/L	0.165	1.69%
QC value within limits for Mg 279.077 Recovery = 97.10%						
Mn 257.610†	222455.6	0.499 mg/L	0.0149	0.499 mg/L	0.0149	2.99%
QC value within limits for Mn 257.610 Recovery = 99.90%						
Mo 202.031†	13362.6	0.987 mg/L	0.0350	0.987 mg/L	0.0350	3.55%
QC value within limits for Mo 202.031 Recovery = 98.66%						
Ni 231.604†	17132.5	0.494 mg/L	0.0144	0.494 mg/L	0.0144	2.91%
QC value within limits for Ni 231.604 Recovery = 98.89%						
Pb 220.353†	2933.6	0.490 mg/L	0.0090	0.490 mg/L	0.0090	1.83%
QC value within limits for Pb 220.353 Recovery = 97.94%						
Sb 206.836†	1815.5	1.13 mg/L	0.025	1.13 mg/L	0.025	2.21%
QC value within limits for Sb 206.836 Recovery = 94.50%						
Se 196.026†	533.0	0.378 mg/L	0.0130	0.378 mg/L	0.0130	3.43%
QC value within limits for Se 196.026 Recovery = 94.59%						
Si 251.611†	165068.9	4.78 mg/L	0.187	4.78 mg/L	0.187	3.91%
QC value within limits for Si 251.611 Recovery = 95.52%						
Sn 189.927†	5749.6	0.983 mg/L	0.0187	0.983 mg/L	0.0187	1.90%
QC value within limits for Sn 189.927 Recovery = 98.30%						
Ti 334.940†	709324.9	0.978 mg/L	0.0079	0.978 mg/L	0.0079	0.80%
QC value within limits for Ti 334.940 Recovery = 97.78%						
Tl 190.801†	840.8	0.498 mg/L	0.0140	0.498 mg/L	0.0140	2.81%
QC value within limits for Tl 190.801 Recovery = 99.53%						
V 290.880†	147656.2	0.986 mg/L	0.0308	0.986 mg/L	0.0308	3.13%
QC value within limits for V 290.880 Recovery = 98.57%						
Zn 206.200†	33021.6	0.993 mg/L	0.0284	0.993 mg/L	0.0284	2.86%
QC value within limits for Zn 206.200 Recovery = 99.28%						
K 766.490†	120973.6	48.7 mg/L	0.15	48.7 mg/L	0.15	0.31%
QC value within limits for K 766.490 Recovery = 97.43%						
Na 589.592†	618655.2	47.8 mg/L	0.21	47.8 mg/L	0.21	0.43%
QC value within limits for Na 589.592 Recovery = 95.64%						
Sr 407.771†	1081106.6	1.07 mg/L	0.033	1.07 mg/L	0.033	3.10%
QC value within limits for Sr 407.771 Recovery = 106.67%						
Li 670.784†	73790.9	0.970 mg/L	0.0076	0.970 mg/L	0.0076	0.78%
QC value within limits for Li 670.784 Recovery = 97.00%						

All analyte(s) passed QC.

Sequence No.: 16 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/23/2011 4:36:16 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	5006151.0						58998.73	1.18%
YRADIAL	294310.9						10925.99	3.71%
Ga 417.206	1312933.2						20201.97	1.54%
GaRADIAL	63347.9						1748.38	2.76%
Ag 328.068†	-34.0	-0.00088	mg/L	0.000527	-0.00088	mg/L	0.000527	60.02%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-23.3	-0.0168	mg/L	0.00095	-0.0168	mg/L	0.00095	5.64%

Approved: February 24, 2011

Pierre Morris

```
   QC value within limits for Al 396.153  Recovery = Not calculated
As 188.979†              -1.4    -0.00087 mg/L      0.003795    -0.00087 mg/L      0.003795 436.46%
   QC value within limits for As 188.979  Recovery = Not calculated
Ba 233.527†               0.0    -0.00051 mg/L      0.000043    -0.00051 mg/L      0.000043   8.47%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 234.861†              26.7     0.00005 mg/L      0.000025     0.00005 mg/L      0.000025  49.72%
   QC value within limits for Be 234.861  Recovery = Not calculated
B 249.677†              636.5      0.0156 mg/L       0.00144      0.0156 mg/L       0.00144   9.23%
   QC value within limits for B 249.677  Recovery = Not calculated
Ca 227.546†               2.6    -0.00858 mg/L      0.018478    -0.00858 mg/L      0.018478 215.39%
   QC value within limits for Ca 227.546  Recovery = Not calculated
Cd 228.802†              -2.4    -0.00006 mg/L      0.000228    -0.00006 mg/L      0.000228 353.70%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†              -6.5     0.00010 mg/L      0.000134     0.00010 mg/L      0.000134 133.26%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               3.0    -0.00020 mg/L      0.000129    -0.00020 mg/L      0.000129  65.32%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 327.393†              58.5     0.00047 mg/L      0.000266     0.00047 mg/L      0.000266  56.85%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 239.562†               1.3     0.00096 mg/L      0.003108     0.00096 mg/L      0.003108 324.46%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Mg 279.077†               3.0    -0.00333 mg/L      0.004882    -0.00333 mg/L      0.004882 146.50%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†             141.7    -0.00003 mg/L      0.000020    -0.00003 mg/L      0.000020  67.50%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†               6.1    -0.00032 mg/L      0.000205    -0.00032 mg/L      0.000205  63.31%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Ni 231.604†               8.6     0.00010 mg/L      0.000382     0.00010 mg/L      0.000382 368.15%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†               4.8     0.00013 mg/L      0.000608     0.00013 mg/L      0.000608 475.61%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               3.5     0.00203 mg/L      0.001492     0.00203 mg/L      0.001492  73.43%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -4.1     0.00137 mg/L      0.003845     0.00137 mg/L      0.003845 280.29%
   QC value within limits for Se 196.026  Recovery = Not calculated
Si 251.611†              69.1     0.00055 mg/L      0.000298     0.00055 mg/L      0.000298  54.12%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -70.8     -0.0104 mg/L       0.00064     -0.0104 mg/L       0.00064   6.16%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 334.940†              41.4    -0.00011 mg/L      0.000135    -0.00011 mg/L      0.000135 125.94%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -0.1    -0.00302 mg/L      0.003606    -0.00302 mg/L      0.003606 119.47%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 290.880†              209.3     0.00007 mg/L      0.000841     0.00007 mg/L      0.000841 >999.9%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†            -165.2    -0.00540 mg/L      0.000130    -0.00540 mg/L      0.000130   2.40%
   QC value within limits for Zn 206.200  Recovery = Not calculated
K 766.490†               44.1      0.0374 mg/L       0.02014      0.0374 mg/L       0.02014  53.86%
   QC value within limits for K 766.490  Recovery = Not calculated
Na 589.592†             215.0      0.0170 mg/L       0.00510      0.0170 mg/L       0.00510  29.94%
   QC value within limits for Na 589.592  Recovery = Not calculated
Sr 407.771†             245.4    -0.00039 mg/L      0.000140    -0.00039 mg/L      0.000140  35.85%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Li 670.784†              -3.8    -0.00159 mg/L      0.001218    -0.00159 mg/L      0.001218  76.58%
   QC value within limits for Li 670.784  Recovery = Not calculated
All analyte(s) passed QC.

================================================================================================================
Sequence No.: 17                                    Autosampler Location: 73
Sample ID: PBW 4A WG357312-03                       Date Collected: 2/23/2011 4:42:59 PM
Analyst: PDM                                        Data Type: Original
Initial Sample Wt:                                  Initial Sample Vol:
Dilution:                                           Sample Prep Vol:

----------------------------------------------------------------------------------------------------------------
Nebulizer Parameters: PBW 4A WG357312-03
Analyte                 Back Pressure    Flow
All                    167.0 kPa         0.50 L/min

----------------------------------------------------------------------------------------------------------------
Mean Data: PBW 4A WG357312-03
                  Mean Corrected          Calib.                          Sample
Analyte              Intensity      Conc. Units      Std.Dev.      Conc. Units      Std.Dev.   RSD
```

Approved: February 24, 2011

Pierre Morris

Y 371.029	5126879.2					7964.65	0.16%
YRADIAL	296688.6					9655.47	3.25%
Ga 417.206	1360909.8					11482.92	0.84%
GaRADIAL	64212.5					950.71	1.48%
Ag 328.068†	-96.9	-0.00120 mg/L	0.000404	-0.00120 mg/L	0.000404	33.76%	
Al 396.153†	16.7	-0.00827 mg/L	0.005327	-0.00827 mg/L	0.005327	64.40%	
As 188.979†	-1.3	-0.00078 mg/L	0.000725	-0.00078 mg/L	0.000725	93.28%	
Ba 233.527†	-2.4	-0.00055 mg/L	0.000051	-0.00055 mg/L	0.000051	9.14%	
Be 234.861†	42.8	0.00008 mg/L	0.000008	0.00008 mg/L	0.000008	10.20%	
B 249.677†	359.6	0.0103 mg/L	0.00084	0.0103 mg/L	0.00084	8.18%	
Ca 227.546†	3.1	-0.00320 mg/L	0.028608	-0.00320 mg/L	0.028608	894.69%	
Cd 228.802†	-1.1	0.00001 mg/L	0.000135	0.00001 mg/L	0.000135	>999.9%	
Co 228.616†	-4.4	0.00021 mg/L	0.000298	0.00021 mg/L	0.000298	143.84%	
Cr 267.716†	-2.0	-0.00024 mg/L	0.000090	-0.00024 mg/L	0.000090	37.55%	
Cu 327.393†	-7.2	0.00002 mg/L	0.001150	0.00002 mg/L	0.001150	>999.9%	
Fe 239.562†	1.0	0.00033 mg/L	0.004228	0.00033 mg/L	0.004228	>999.9%	
Mg 279.077†	4.2	-0.00172 mg/L	0.002827	-0.00172 mg/L	0.002827	164.64%	
Mn 257.610†	44.9	-0.00025 mg/L	0.000013	-0.00025 mg/L	0.000013	5.16%	
Mo 202.031†	3.3	-0.00053 mg/L	0.000175	-0.00053 mg/L	0.000175	32.95%	
Ni 231.604†	2.6	-0.00007 mg/L	0.000034	-0.00007 mg/L	0.000034	48.42%	
Pb 220.353†	3.4	-0.00010 mg/L	0.001444	-0.00010 mg/L	0.001444	>999.9%	
Sb 206.836†	-2.2	-0.00152 mg/L	0.001315	-0.00152 mg/L	0.001315	86.27%	
Se 196.026†	1.0	0.00493 mg/L	0.002204	0.00493 mg/L	0.002204	44.70%	
Si 251.611†	38.4	-0.00034 mg/L	0.000373	-0.00034 mg/L	0.000373	111.03%	
Sn 189.927†	-78.7	-0.0118 mg/L	0.00077	-0.0118 mg/L	0.00077	6.53%	
Ti 334.940†	-126.3	-0.00034 mg/L	0.000102	-0.00034 mg/L	0.000102	30.20%	
Tl 190.801†	2.5	-0.00153 mg/L	0.000885	-0.00153 mg/L	0.000885	57.99%	
V 290.880†	29.3	-0.00113 mg/L	0.000481	-0.00113 mg/L	0.000481	42.50%	
Zn 206.200†	-128.0	-0.00428 mg/L	0.000068	-0.00428 mg/L	0.000068	1.58%	
K 766.490†	-33.4	0.00647 mg/L	0.004952	0.00647 mg/L	0.004952	76.52%	
Na 589.592†	153.0	0.0123 mg/L	0.00907	0.0123 mg/L	0.00907	73.48%	
Sr 407.771†	148.9	-0.00049 mg/L	0.000113	-0.00049 mg/L	0.000113	23.14%	
Li 670.784†	26.9	-0.00119 mg/L	0.000476	-0.00119 mg/L	0.000476	40.15%	

Sequence No.: 18 **Autosampler Location: 74**
Sample ID: LCSW 4A WG357312-04 **Date Collected: 2/23/2011 4:49:40 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 4A WG357312-04

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: LCSW 4A WG357312-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4949399.7						17372.64	0.35%
YRADIAL	289335.0						4324.75	1.49%
Ga 417.206	1335570.8						19131.86	1.43%
GaRADIAL	62667.8						276.64	0.44%
Ag 328.068†	38123.3	0.192	mg/L	0.0016	0.192	mg/L	0.0016	0.82%
Al 396.153†	23297.3	4.94	mg/L	0.022	4.94	mg/L	0.022	0.44%
As 188.979†	200.8	0.182	mg/L	0.0049	0.182	mg/L	0.0049	2.68%
Ba 233.527†	28795.9	0.488	mg/L	0.0043	0.488	mg/L	0.0043	0.88%
Be 234.861†	13512.6	0.0237	mg/L	0.00017	0.0237	mg/L	0.00017	0.73%
B 249.677†	50059.2	0.954	mg/L	0.0159	0.954	mg/L	0.0159	1.67%
Ca 227.546†	500.1	4.86	mg/L	0.095	4.86	mg/L	0.095	1.96%
Cd 228.802†	416.0	0.0234	mg/L	0.00048	0.0234	mg/L	0.00048	2.06%
Co 228.616†	1890.1	0.0942	mg/L	0.00017	0.0942	mg/L	0.00017	0.19%
Cr 267.716†	27888.0	0.240	mg/L	0.0029	0.240	mg/L	0.0029	1.22%
Cu 327.393†	34250.3	0.235	mg/L	0.0025	0.235	mg/L	0.0025	1.05%
Fe 239.562†	811.0	1.92	mg/L	0.001	1.92	mg/L	0.001	0.06%
Mg 279.077†	3830.9	4.91	mg/L	0.029	4.91	mg/L	0.029	0.60%
Mn 257.610†	110246.9	0.247	mg/L	0.0031	0.247	mg/L	0.0031	1.23%
Mo 202.031†	6519.0	0.481	mg/L	0.0056	0.481	mg/L	0.0056	1.16%
Ni 231.604†	8504.5	0.245	mg/L	0.0033	0.245	mg/L	0.0033	1.33%
Pb 220.353†	1455.4	0.243	mg/L	0.0021	0.243	mg/L	0.0021	0.88%
Sb 206.836†	896.7	0.560	mg/L	0.0085	0.560	mg/L	0.0085	1.52%
Se 196.026†	266.0	0.191	mg/L	0.0036	0.191	mg/L	0.0036	1.88%

Approved: February 24, 2011

Pierce Morris

Si 251.611†	83197.5	2.41	mg/L	0.037	2.41	mg/L	0.037	1.52%
Sn 189.927†	2935.8	0.503	mg/L	0.0030	0.503	mg/L	0.0030	0.61%
Ti 334.940†	353521.5	0.487	mg/L	0.0060	0.487	mg/L	0.0060	1.24%
Tl 190.801†	416.8	0.245	mg/L	0.0066	0.245	mg/L	0.0066	2.68%
V 290.880†	72669.2	0.484	mg/L	0.0079	0.484	mg/L	0.0079	1.63%
Zn 206.200†	15880.4	0.477	mg/L	0.0013	0.477	mg/L	0.0013	0.27%
K 766.490†	59991.1	24.1	mg/L	0.09	24.1	mg/L	0.09	0.39%
Na 589.592†	313032.7	23.9	mg/L	0.24	23.9	mg/L	0.24	1.00%
Sr 407.771†	506948.9	0.500	mg/L	0.0342	0.500	mg/L	0.0342	6.83%
Li 670.784†	37017.4	0.486	mg/L	0.0020	0.486	mg/L	0.0020	0.42%

Sequence No.: 19 **Autosampler Location: 75**
Sample ID: L1102056801 WG357312-01 **Date Collected: 2/23/2011 4:56:21 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102056801 WG357312-01

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102056801 WG357312-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4990911.6						38896.95	0.78%
YRADIAL	288983.1						5963.09	2.06%
Ga 417.206	1382126.5						22332.17	1.62%
GaRADIAL	63803.2						636.54	1.00%
Ag 328.068†	285.3	0.00064	mg/L	0.000509	0.00064	mg/L	0.000509	79.62%
Al 396.153†	384.0	0.0700	mg/L	0.01231	0.0700	mg/L	0.01231	17.58%
As 188.979†	6.5	0.00540	mg/L	0.000303	0.00540	mg/L	0.000303	5.61%
Ba 233.527†	1189.4	0.0196	mg/L	0.00008	0.0196	mg/L	0.00008	0.40%
Be 234.861†	132.3	0.00012	mg/L	0.000026	0.00012	mg/L	0.000026	21.51%
B 249.677†	1326.5	0.0314	mg/L	0.00066	0.0314	mg/L	0.00066	2.11%
Ca 227.546†	5419.7	51.2	mg/L	0.85	51.2	mg/L	0.85	1.66%
Cd 228.802†	1.5	0.00011	mg/L	0.000115	0.00011	mg/L	0.000115	103.54%
Co 228.616†	-1.9	0.00031	mg/L	0.000096	0.00031	mg/L	0.000096	31.06%
Cr 267.716†	56.1	0.00019	mg/L	0.000139	0.00019	mg/L	0.000139	74.78%
Cu 327.393†	-122.5	-0.00069	mg/L	0.000759	-0.00069	mg/L	0.000759	109.28%
Fe 239.562†	264.7	0.624	mg/L	0.0059	0.624	mg/L	0.0059	0.95%
Mg 279.077†	6889.8	8.84	mg/L	0.022	8.84	mg/L	0.022	0.24%
Mn 257.610†	75150.7	0.168	mg/L	0.0024	0.168	mg/L	0.0024	1.41%
Mo 202.031†	1.7	-0.00058	mg/L	0.000720	-0.00058	mg/L	0.000720	123.80%
Ni 231.604†	13.2	0.00020	mg/L	0.000481	0.00020	mg/L	0.000481	235.76%
Pb 220.353†	-5.2	0.00089	mg/L	0.000921	0.00089	mg/L	0.000921	103.26%
Sb 206.836†	12.8	0.00781	mg/L	0.000851	0.00781	mg/L	0.000851	10.90%
Se 196.026†	-29.8	-0.00361	mg/L	0.003522	-0.00361	mg/L	0.003522	97.51%
Si 251.611†	115661.1	3.36	mg/L	0.064	3.36	mg/L	0.064	1.92%
Sn 189.927†	-76.1	-0.0113	mg/L	0.00036	-0.0113	mg/L	0.00036	3.16%
Ti 334.940†	665.1	0.00126	mg/L	0.000105	0.00126	mg/L	0.000105	8.30%
Tl 190.801†	88.4	0.0442	mg/L	0.00272	0.0442	mg/L	0.00272	6.16%
V 290.880†	-228.3	-0.00281	mg/L	0.000707	-0.00281	mg/L	0.000707	25.16%
Zn 206.200†	71.9	0.00171	mg/L	0.000183	0.00171	mg/L	0.000183	10.70%
K 766.490†	6840.7	2.74	mg/L	0.023	2.74	mg/L	0.023	0.85%
Na 589.592†	111945.3	8.48	mg/L	0.051	8.48	mg/L	0.051	0.60%
Sr 407.771†	187411.7	0.184	mg/L	0.0111	0.184	mg/L	0.0111	6.01%
Li 670.784†	-67.8	-0.00243	mg/L	0.002816	-0.00243	mg/L	0.002816	115.72%

Sequence No.: 20 **Autosampler Location: 76**
Sample ID: L1102056802S WG357312-05 **Date Collected: 2/23/2011 5:03:00 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102056802S WG357312-05

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Approved: February 24, 2011

Pierre Morris

Mean Data: L1102056802S WG357312-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4880679.2						34641.85	0.71%
YRADIAL	290259.5						453.20	0.16%
Ga 417.206	1324198.4						3529.56	0.27%
GaRADIAL	63739.6						1112.65	1.75%
Ag 328.068†	38795.8	0.196	mg/L	0.0028	0.196	mg/L	0.0028	1.44%
Al 396.153†	23090.5	4.90	mg/L	0.022	4.90	mg/L	0.022	0.44%
As 188.979†	209.1	0.189	mg/L	0.0015	0.189	mg/L	0.0015	0.80%
Ba 233.527†	29885.4	0.507	mg/L	0.0055	0.507	mg/L	0.0055	1.09%
Be 234.861†	13965.9	0.0244	mg/L	0.00021	0.0244	mg/L	0.00021	0.86%
B 249.677†	52239.9	0.998	mg/L	0.0140	0.998	mg/L	0.0140	1.40%
Ca 227.546†	6054.2	57.4	mg/L	0.12	57.4	mg/L	0.12	0.20%
Cd 228.802†	413.3	0.0232	mg/L	0.00005	0.0232	mg/L	0.00005	0.23%
Co 228.616†	1870.5	0.0932	mg/L	0.00063	0.0932	mg/L	0.00063	0.67%
Cr 267.716†	28289.0	0.244	mg/L	0.0037	0.244	mg/L	0.0037	1.52%
Cu 327.393†	34303.3	0.235	mg/L	0.0031	0.235	mg/L	0.0031	1.30%
Fe 239.562†	1053.9	2.49	mg/L	0.025	2.49	mg/L	0.025	1.02%
Mg 279.077†	10391.2	13.3	mg/L	0.10	13.3	mg/L	0.10	0.77%
Mn 257.610†	185735.7	0.416	mg/L	0.0065	0.416	mg/L	0.0065	1.55%
Mo 202.031†	6691.4	0.494	mg/L	0.0032	0.494	mg/L	0.0032	0.65%
Ni 231.604†	8339.8	0.241	mg/L	0.0014	0.241	mg/L	0.0014	0.56%
Pb 220.353†	1437.1	0.242	mg/L	0.0016	0.242	mg/L	0.0016	0.65%
Sb 206.836†	912.2	0.570	mg/L	0.0009	0.570	mg/L	0.0009	0.16%
Se 196.026†	240.8	0.187	mg/L	0.0038	0.187	mg/L	0.0038	2.01%
Si 251.611†	204492.9	5.93	mg/L	0.031	5.93	mg/L	0.031	0.53%
Sn 189.927†	2949.6	0.505	mg/L	0.0028	0.505	mg/L	0.0028	0.55%
Ti 334.940†	360689.7	0.498	mg/L	0.0086	0.498	mg/L	0.0086	1.72%
Tl 190.801†	496.2	0.287	mg/L	0.0019	0.287	mg/L	0.0019	0.65%
V 290.880†	73954.7	0.493	mg/L	0.0083	0.493	mg/L	0.0083	1.68%
Zn 206.200†	15881.9	0.477	mg/L	0.0051	0.477	mg/L	0.0051	1.06%
K 766.490†	66737.0	26.8	mg/L	0.05	26.8	mg/L	0.05	0.19%
Na 589.592†	422400.2	32.4	mg/L	1.05	32.4	mg/L	1.05	3.24%
Sr 407.771†	689762.9	0.680	mg/L	0.0330	0.680	mg/L	0.0330	4.85%
Li 670.784†	36996.9	0.486	mg/L	0.0012	0.486	mg/L	0.0012	0.24%

Sequence No.: 21 **Autosampler Location: 77**
Sample ID: L1102056803SD WG357312-06 **Date Collected: 2/23/2011 5:09:44 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102056803SD WG357312-06

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102056803SD WG357312-06

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4839391.3						13039.95	0.27%
YRADIAL	287835.4						3914.32	1.36%
Ga 417.206	1334258.8						12656.34	0.95%
GaRADIAL	63185.9						1403.20	2.22%
Ag 328.068†	38353.9	0.193	mg/L	0.0019	0.193	mg/L	0.0019	0.99%
Al 396.153†	22964.3	4.87	mg/L	0.016	4.87	mg/L	0.016	0.34%
As 188.979†	207.3	0.187	mg/L	0.0006	0.187	mg/L	0.0006	0.31%
Ba 233.527†	29939.3	0.508	mg/L	0.0026	0.508	mg/L	0.0026	0.52%
Be 234.861†	13870.7	0.0243	mg/L	0.00022	0.0243	mg/L	0.00022	0.92%
B 249.677†	51734.9	0.988	mg/L	0.0090	0.988	mg/L	0.0090	0.91%
Ca 227.546†	5983.3	56.7	mg/L	0.65	56.7	mg/L	0.65	1.15%
Cd 228.802†	407.4	0.0229	mg/L	0.00034	0.0229	mg/L	0.00034	1.47%
Co 228.616†	1886.3	0.0940	mg/L	0.00026	0.0940	mg/L	0.00026	0.27%
Cr 267.716†	28371.7	0.244	mg/L	0.0024	0.244	mg/L	0.0024	0.97%
Cu 327.393†	33928.7	0.233	mg/L	0.0023	0.233	mg/L	0.0023	1.01%
Fe 239.562†	1064.5	2.52	mg/L	0.039	2.52	mg/L	0.039	1.56%
Mg 279.077†	10490.5	13.5	mg/L	0.24	13.5	mg/L	0.24	1.81%
Mn 257.610†	186046.1	0.417	mg/L	0.0027	0.417	mg/L	0.0027	0.64%
Mo 202.031†	6725.9	0.496	mg/L	0.0004	0.496	mg/L	0.0004	0.08%

Approved: February 24, 2011

Pierce Morris

Ni 231.604†	8405.1	0.242 mg/L	0.0007	0.242 mg/L	0.0007	0.27%
Pb 220.353†	1438.6	0.242 mg/L	0.0011	0.242 mg/L	0.0011	0.44%
Sb 206.836†	908.1	0.567 mg/L	0.0038	0.567 mg/L	0.0038	0.67%
Se 196.026†	236.3	0.183 mg/L	0.0040	0.183 mg/L	0.0040	2.20%
Si 251.611†	201392.6	5.84 mg/L	0.068	5.84 mg/L	0.068	1.16%
Sn 189.927†	2999.7	0.514 mg/L	0.0014	0.514 mg/L	0.0014	0.28%
Ti 334.940†	363074.4	0.501 mg/L	0.0063	0.501 mg/L	0.0063	1.25%
Tl 190.801†	494.9	0.286 mg/L	0.0015	0.286 mg/L	0.0015	0.53%
V 290.880†	74180.5	0.495 mg/L	0.0044	0.495 mg/L	0.0044	0.89%
Zn 206.200†	15929.2	0.479 mg/L	0.0013	0.479 mg/L	0.0013	0.27%
K 766.490†	66731.6	26.8 mg/L	0.21	26.8 mg/L	0.21	0.79%
Na 589.592†	421937.9	32.4 mg/L	1.11	32.4 mg/L	1.11	3.43%
Sr 407.771†	704344.8	0.695 mg/L	0.0544	0.695 mg/L	0.0544	7.84%
Li 670.784†	36965.4	0.485 mg/L	0.0016	0.485 mg/L	0.0016	0.33%

Sequence No.: 22 **Autosampler Location: 78**
Sample ID: L1102056901 WG357312-02 **Date Collected: 2/23/2011 5:16:33 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102056901 WG357312-02

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102056901 WG357312-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4988939.6						109820.86	2.20%
YRADIAL	291912.7						6472.47	2.22%
Ga 417.206	1385090.8						30716.77	2.22%
GaRADIAL	64273.1						714.22	1.11%
Ag 328.068†	338.9	0.00092	mg/L	0.000170	0.00092	mg/L	0.000170	18.37%
Al 396.153†	180.6	0.0267	mg/L	0.00717	0.0267	mg/L	0.00717	26.90%
As 188.979†	6.2	0.00486	mg/L	0.002307	0.00486	mg/L	0.002307	47.43%
Ba 233.527†	427.2	0.00670	mg/L	0.000184	0.00670	mg/L	0.000184	2.75%
Be 234.861†	86.9	0.00012	mg/L	0.000033	0.00012	mg/L	0.000033	26.30%
B 249.677†	2281.6	0.0477	mg/L	0.00139	0.0477	mg/L	0.00139	2.91%
Ca 227.546†	6479.5	61.2	mg/L	1.09	61.2	mg/L	1.09	1.77%
Cd 228.802†	-6.0	-0.00031	mg/L	0.000055	-0.00031	mg/L	0.000055	17.55%
Co 228.616†	-6.0	0.00012	mg/L	0.000211	0.00012	mg/L	0.000211	175.97%
Cr 267.716†	88.9	0.00048	mg/L	0.000021	0.00048	mg/L	0.000021	4.43%
Cu 327.393†	-254.5	-0.00165	mg/L	0.000864	-0.00165	mg/L	0.000864	52.48%
Fe 239.562†	94.4	0.221	mg/L	0.0083	0.221	mg/L	0.0083	3.77%
Mg 279.077†	15037.2	19.3	mg/L	0.11	19.3	mg/L	0.11	0.56%
Mn 257.610†	61567.8	0.138	mg/L	0.0027	0.138	mg/L	0.0027	1.95%
Mo 202.031†	4.8	-0.00038	mg/L	0.000131	-0.00038	mg/L	0.000131	34.36%
Ni 231.604†	17.5	0.00032	mg/L	0.000118	0.00032	mg/L	0.000118	36.18%
Pb 220.353†	-9.4	0.00071	mg/L	0.000503	0.00071	mg/L	0.000503	71.33%
Sb 206.836†	13.9	0.00853	mg/L	0.001503	0.00853	mg/L	0.001503	17.62%
Se 196.026†	-32.0	-0.00273	mg/L	0.003850	-0.00273	mg/L	0.003850	141.08%
Si 251.611†	201223.4	5.84	mg/L	0.103	5.84	mg/L	0.103	1.76%
Sn 189.927†	-87.5	-0.0133	mg/L	0.00089	-0.0133	mg/L	0.00089	6.75%
Ti 334.940†	-712.8	-0.00053	mg/L	0.000128	-0.00053	mg/L	0.000128	23.93%
Tl 190.801†	97.9	0.0487	mg/L	0.00252	0.0487	mg/L	0.00252	5.18%
V 290.880†	-656.6	-0.00570	mg/L	0.000527	-0.00570	mg/L	0.000527	9.24%
Zn 206.200†	36.4	0.00065	mg/L	0.000462	0.00065	mg/L	0.000462	70.70%
K 766.490†	3598.3	1.44	mg/L	0.035	1.44	mg/L	0.035	2.41%
Na 589.592†	173550.2	13.2	mg/L	0.10	13.2	mg/L	0.10	0.75%
Sr 407.771†	208429.2	0.205	mg/L	0.0135	0.205	mg/L	0.0135	6.59%
Li 670.784†	81.6	-0.00047	mg/L	0.001742	-0.00047	mg/L	0.001742	373.65%

Sequence No.: 23 **Autosampler Location: 79**
Sample ID: L1102056902S WG357312-07 **Date Collected: 2/23/2011 5:23:12 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: February 24, 2011

Pierre Morris

Nebulizer Parameters: L1102056902S WG357312-07

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102056902S WG357312-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4851830.1						63426.89	1.31%
YRADIAL	280933.0						5696.90	2.03%
Ga 417.206	1333061.5						37460.59	2.81%
GaRADIAL	62039.8						739.21	1.19%
Ag 328.068†	38092.4	0.192	mg/L	0.0059	0.192	mg/L	0.0059	3.07%
Al 396.153†	22821.2	4.84	mg/L	0.018	4.84	mg/L	0.018	0.38%
As 188.979†	210.4	0.189	mg/L	0.0061	0.189	mg/L	0.0061	3.22%
Ba 233.527†	28795.2	0.488	mg/L	0.0077	0.488	mg/L	0.0077	1.57%
Be 234.861†	13716.0	0.0241	mg/L	0.00073	0.0241	mg/L	0.00073	3.02%
B 249.677†	51917.7	0.990	mg/L	0.0266	0.990	mg/L	0.0266	2.69%
Ca 227.546†	7253.7	68.7	mg/L	1.65	68.7	mg/L	1.65	2.40%
Cd 228.802†	406.3	0.0228	mg/L	0.00044	0.0228	mg/L	0.00044	1.94%
Co 228.616†	1860.7	0.0927	mg/L	0.00116	0.0927	mg/L	0.00116	1.25%
Cr 267.716†	28077.6	0.242	mg/L	0.0022	0.242	mg/L	0.0022	0.92%
Cu 327.393†	33153.7	0.227	mg/L	0.0070	0.227	mg/L	0.0070	3.06%
Fe 239.562†	924.7	2.18	mg/L	0.026	2.18	mg/L	0.026	1.18%
Mg 279.077†	19010.2	24.4	mg/L	0.18	24.4	mg/L	0.18	0.76%
Mn 257.610†	173232.5	0.389	mg/L	0.0046	0.389	mg/L	0.0046	1.20%
Mo 202.031†	6740.3	0.497	mg/L	0.0062	0.497	mg/L	0.0062	1.24%
Ni 231.604†	8293.1	0.239	mg/L	0.0026	0.239	mg/L	0.0026	1.10%
Pb 220.353†	1433.3	0.242	mg/L	0.0040	0.242	mg/L	0.0040	1.66%
Sb 206.836†	903.8	0.565	mg/L	0.0134	0.565	mg/L	0.0134	2.37%
Se 196.026†	239.6	0.189	mg/L	0.0042	0.189	mg/L	0.0042	2.25%
Si 251.611†	293158.0	8.50	mg/L	0.244	8.50	mg/L	0.244	2.86%
Sn 189.927†	2955.6	0.506	mg/L	0.0076	0.506	mg/L	0.0076	1.50%
Ti 334.940†	356322.0	0.492	mg/L	0.0064	0.492	mg/L	0.0064	1.30%
Tl 190.801†	501.9	0.289	mg/L	0.0082	0.289	mg/L	0.0082	2.84%
V 290.880†	72808.8	0.485	mg/L	0.0062	0.485	mg/L	0.0062	1.28%
Zn 206.200†	15845.9	0.476	mg/L	0.0058	0.476	mg/L	0.0058	1.22%
K 766.490†	63967.1	25.6	mg/L	0.04	25.6	mg/L	0.04	0.15%
Na 589.592†	493250.7	37.9	mg/L	0.20	37.9	mg/L	0.20	0.53%
Sr 407.771†	714211.3	0.705	mg/L	0.0590	0.705	mg/L	0.0590	8.37%
Li 670.784†	37121.7	0.487	mg/L	0.0044	0.487	mg/L	0.0044	0.90%

Sequence No.: 24 **Autosampler Location: 80**
Sample ID: L1102056903SD WG357312-08 **Date Collected: 2/23/2011 5:29:55 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102056903SD WG357312-08

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102056903SD WG357312-08

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4947276.7						54958.39	1.11%
YRADIAL	290970.4						3371.89	1.16%
Ga 417.206	1344866.2						14998.59	1.12%
GaRADIAL	64126.5						1055.27	1.65%
Ag 328.068†	37767.4	0.190	mg/L	0.0025	0.190	mg/L	0.0025	1.32%
Al 396.153†	22346.4	4.74	mg/L	0.011	4.74	mg/L	0.011	0.24%
As 188.979†	208.2	0.188	mg/L	0.0017	0.188	mg/L	0.0017	0.92%
Ba 233.527†	28291.2	0.480	mg/L	0.0063	0.480	mg/L	0.0063	1.32%
Be 234.861†	13610.4	0.0239	mg/L	0.00028	0.0239	mg/L	0.00028	1.19%
B 249.677†	52065.9	0.993	mg/L	0.0174	0.993	mg/L	0.0174	1.75%
Ca 227.546†	7033.0	66.6	mg/L	0.70	66.6	mg/L	0.70	1.05%
Cd 228.802†	404.4	0.0226	mg/L	0.00024	0.0226	mg/L	0.00024	1.04%
Co 228.616†	1808.1	0.0901	mg/L	0.00083	0.0901	mg/L	0.00083	0.92%
Cr 267.716†	27416.9	0.236	mg/L	0.0037	0.236	mg/L	0.0037	1.56%
Cu 327.393†	33209.1	0.228	mg/L	0.0040	0.228	mg/L	0.0040	1.76%

Approved: February 24, 2011

Pierre Morris

Fe 239.562†	884.8	2.09	mg/L	0.029	2.09	mg/L	0.029 1.38%
Mg 279.077†	18269.1	23.5	mg/L	0.36	23.5	mg/L	0.36 1.54%
Mn 257.610†	168703.1	0.379	mg/L	0.0063	0.379	mg/L	0.0063 1.66%
Mo 202.031†	6551.8	0.483	mg/L	0.0046	0.483	mg/L	0.0046 0.95%
Ni 231.604†	8072.9	0.233	mg/L	0.0021	0.233	mg/L	0.0021 0.91%
Pb 220.353†	1402.4	0.237	mg/L	0.0007	0.237	mg/L	0.0007 0.30%
Sb 206.836†	892.8	0.558	mg/L	0.0049	0.558	mg/L	0.0049 0.87%
Se 196.026†	230.3	0.182	mg/L	0.0069	0.182	mg/L	0.0069 3.80%
Si 251.611†	289283.7	8.39	mg/L	0.128	8.39	mg/L	0.128 1.53%
Sn 189.927†	2875.0	0.492	mg/L	0.0071	0.492	mg/L	0.0071 1.45%
Ti 334.940†	347551.6	0.480	mg/L	0.0046	0.480	mg/L	0.0046 0.97%
Tl 190.801†	495.3	0.285	mg/L	0.0007	0.285	mg/L	0.0007 0.25%
V 290.880†	71553.9	0.477	mg/L	0.0098	0.477	mg/L	0.0098 2.06%
Zn 206.200†	15511.5	0.466	mg/L	0.0081	0.466	mg/L	0.0081 1.74%
K 766.490†	62642.5	25.1	mg/L	0.11	25.1	mg/L	0.11 0.43%
Na 589.592†	484772.2	37.3	mg/L	1.25	37.3	mg/L	1.25 3.36%
Sr 407.771†	715112.6	0.705	mg/L	0.0361	0.705	mg/L	0.0361 5.11%
Li 670.784†	36372.4	0.477	mg/L	0.0041	0.477	mg/L	0.0041 0.85%

Sequence No.: 25 **Autosampler Location: 81**
Sample ID: L1102057101 **Date Collected: 2/23/2011 5:36:40 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102057101

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102057101

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5062853.3						54018.57	1.07%
YRADIAL	289967.8						3358.53	1.16%
Ga 417.206	1361363.5						22628.30	1.66%
GaRADIAL	63003.0						123.11	0.20%
Ag 328.068†	28.7	-0.00056	mg/L	0.000482	-0.00056	mg/L	0.000482	85.67%
Al 396.153†	46.2	-0.00200	mg/L	0.015676	-0.00200	mg/L	0.015676	785.27%
As 188.979†	-1.6	-0.00113	mg/L	0.000989	-0.00113	mg/L	0.000989	87.56%
Ba 233.527†	0.6	-0.00050	mg/L	0.000018	-0.00050	mg/L	0.000018	3.67%
Be 234.861†	48.3	0.00008	mg/L	0.000005	0.00008	mg/L	0.000005	6.20%
B 249.677†	912.6	0.0208	mg/L	0.00074	0.0208	mg/L	0.00074	3.57%
Ca 227.546†	11.5	0.0776	mg/L	0.02201	0.0776	mg/L	0.02201	28.37%
Cd 228.802†	-3.7	-0.00014	mg/L	0.000106	-0.00014	mg/L	0.000106	77.61%
Co 228.616†	-2.9	0.00028	mg/L	0.000133	0.00028	mg/L	0.000133	47.07%
Cr 267.716†	41.0	0.00013	mg/L	0.000056	0.00013	mg/L	0.000056	42.95%
Cu 327.393†	108.2	0.00081	mg/L	0.000173	0.00081	mg/L	0.000173	21.47%
Fe 239.562†	5.0	0.00967	mg/L	0.002622	0.00967	mg/L	0.002622	27.12%
Mg 279.077†	6.9	0.00177	mg/L	0.003070	0.00177	mg/L	0.003070	173.19%
Mn 257.610†	401.8	0.00055	mg/L	0.000008	0.00055	mg/L	0.000008	1.39%
Mo 202.031†	4.8	-0.00042	mg/L	0.000456	-0.00042	mg/L	0.000456	108.35%
Ni 231.604†	75.1	0.00202	mg/L	0.000179	0.00202	mg/L	0.000179	8.86%
Pb 220.353†	2.9	-0.00017	mg/L	0.000485	-0.00017	mg/L	0.000485	278.98%
Sb 206.836†	-1.5	-0.00105	mg/L	0.002189	-0.00105	mg/L	0.002189	207.89%
Se 196.026†	-4.7	0.00094	mg/L	0.001371	0.00094	mg/L	0.001371	145.58%
Si 251.611†	140.9	0.00264	mg/L	0.000968	0.00264	mg/L	0.000968	36.67%
Sn 189.927†	-74.2	-0.0110	mg/L	0.00058	-0.0110	mg/L	0.00058	5.32%
Ti 334.940†	-56.7	-0.00024	mg/L	0.000167	-0.00024	mg/L	0.000167	69.22%
Tl 190.801†	2.3	-0.00161	mg/L	0.002648	-0.00161	mg/L	0.002648	164.26%
V 290.880†	185.8	-0.00008	mg/L	0.001341	-0.00008	mg/L	0.001341	>999.9%
Zn 206.200†	-88.1	-0.00308	mg/L	0.000193	-0.00308	mg/L	0.000193	6.26%
K 766.490†	3.4	0.0211	mg/L	0.02933	0.0211	mg/L	0.02933	138.75%
Na 589.592†	436.5	0.0337	mg/L	0.00751	0.0337	mg/L	0.00751	22.25%
Sr 407.771†	57.4	-0.00058	mg/L	0.000107	-0.00058	mg/L	0.000107	18.58%
Li 670.784†	23.8	-0.00123	mg/L	0.001739	-0.00123	mg/L	0.001739	141.73%

Sequence No.: 26 **Autosampler Location: 82**
Sample ID: L1102057102 **Date Collected: 2/23/2011 5:43:19 PM**
Analyst: PDM **Data Type: Original**

Approved: February 24, 2011

Pierre Morris

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102057102

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102057102

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5024887.9						73471.02	1.46%
YRADIAL	292768.3						1572.79	0.54%
Ga 417.206	1346747.1						21188.61	1.57%
GaRADIAL	63443.1						502.55	0.79%
Ag 328.068†	9.5	-0.00066	mg/L	0.000765	-0.00066	mg/L	0.000765	115.95%
Al 396.153†	53.9	-0.00035	mg/L	0.013571	-0.00035	mg/L	0.013571	>999.9%
As 188.979†	-1.4	-0.00088	mg/L	0.000851	-0.00088	mg/L	0.000851	96.46%
Ba 233.527†	-2.9	-0.00056	mg/L	0.000018	-0.00056	mg/L	0.000018	3.27%
Be 234.861†	28.1	0.00005	mg/L	0.000015	0.00005	mg/L	0.000015	29.91%
B 249.677†	688.0	0.0165	mg/L	0.00052	0.0165	mg/L	0.00052	3.15%
Ca 227.546†	4.0	0.00512	mg/L	0.042730	0.00512	mg/L	0.042730	834.41%
Cd 228.802†	-3.3	-0.00011	mg/L	0.000154	-0.00011	mg/L	0.000154	134.62%
Co 228.616†	-4.8	0.00019	mg/L	0.000350	0.00019	mg/L	0.000350	187.69%
Cr 267.716†	12.8	-0.00011	mg/L	0.000084	-0.00011	mg/L	0.000084	74.92%
Cu 327.393†	74.2	0.00058	mg/L	0.000743	0.00058	mg/L	0.000743	129.01%
Fe 239.562†	1.6	0.00177	mg/L	0.000288	0.00177	mg/L	0.000288	16.24%
Mg 279.077†	0.2	-0.00685	mg/L	0.002788	-0.00685	mg/L	0.002788	40.68%
Mn 257.610†	-17.7	-0.00039	mg/L	0.000007	-0.00039	mg/L	0.000007	1.80%
Mo 202.031†	1.8	-0.00064	mg/L	0.000287	-0.00064	mg/L	0.000287	44.89%
Ni 231.604†	3.5	-0.00004	mg/L	0.000268	-0.00004	mg/L	0.000268	597.49%
Pb 220.353†	-1.8	-0.00096	mg/L	0.000682	-0.00096	mg/L	0.000682	71.07%
Sb 206.836†	0.3	0.00007	mg/L	0.000632	0.00007	mg/L	0.000632	857.04%
Se 196.026†	-7.7	-0.00118	mg/L	0.003384	-0.00118	mg/L	0.003384	286.92%
Si 251.611†	9.4	-0.00118	mg/L	0.000313	-0.00118	mg/L	0.000313	26.61%
Sn 189.927†	-79.7	-0.0119	mg/L	0.00068	-0.0119	mg/L	0.00068	5.69%
Ti 334.940†	-123.7	-0.00033	mg/L	0.000163	-0.00033	mg/L	0.000163	48.59%
Tl 190.801†	0.4	-0.00273	mg/L	0.000568	-0.00273	mg/L	0.000568	20.82%
V 290.880†	148.3	-0.00034	mg/L	0.000879	-0.00034	mg/L	0.000879	262.02%
Zn 206.200†	-137.6	-0.00457	mg/L	0.000135	-0.00457	mg/L	0.000135	2.95%
K 766.490†	1.1	0.0203	mg/L	0.02312	0.0203	mg/L	0.02312	114.05%
Na 589.592†	-178.5	-0.0127	mg/L	0.01700	-0.0127	mg/L	0.01700	134.19%
Sr 407.771†	104.7	-0.00053	mg/L	0.000040	-0.00053	mg/L	0.000040	7.53%
Li 670.784†	-10.7	-0.00168	mg/L	0.001299	-0.00168	mg/L	0.001299	77.22%

==========

Sequence No.: 27 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/23/2011 5:49:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4852953.6						20357.13	0.42%
YRADIAL	287181.7						7063.93	2.46%
Ga 417.206	1270159.8						3429.28	0.27%
GaRADIAL	61936.2						1662.68	2.68%
Ag 328.068†	78647.6	0.397	mg/L	0.0026	0.397	mg/L	0.0026	0.65%
QC value within limits for Ag 328.068 Recovery = 99.31%								
Al 396.153†	46012.6	9.78	mg/L	0.055	9.78	mg/L	0.055	0.56%
QC value within limits for Al 396.153 Recovery = 97.77%								
As 188.979†	419.6	0.380	mg/L	0.0035	0.380	mg/L	0.0035	0.93%
QC value within limits for As 188.979 Recovery = 94.99%								
Ba 233.527†	58068.3	0.985	mg/L	0.0087	0.985	mg/L	0.0087	0.89%

Approved: February 24, 2011

Pierre Morris

QC value within limits for Ba 233.527 Recovery = 98.49%

Be 234.861†	28235.4	0.0496 mg/L	0.00066	0.0496 mg/L	0.00066	1.34%
QC value within limits for Be 234.861 Recovery = 99.25%						
B 249.677†	26270.0	0.506 mg/L	0.0033	0.506 mg/L	0.0033	0.65%
QC value within limits for B 249.677 Recovery = 101.25%						
Ca 227.546†	1023.6	9.98 mg/L	0.089	9.98 mg/L	0.089	0.89%
QC value within limits for Ca 227.546 Recovery = 99.80%						
Cd 228.802†	866.5	0.0486 mg/L	0.00008	0.0486 mg/L	0.00008	0.17%
QC value within limits for Cd 228.802 Recovery = 97.12%						
Co 228.616†	3790.8	0.189 mg/L	0.0014	0.189 mg/L	0.0014	0.73%
QC value within limits for Co 228.616 Recovery = 94.28%						
Cr 267.716†	56582.8	0.488 mg/L	0.0054	0.488 mg/L	0.0054	1.11%
QC value within limits for Cr 267.716 Recovery = 97.56%						
Cu 327.393†	70743.4	0.485 mg/L	0.0012	0.485 mg/L	0.0012	0.25%
QC value within limits for Cu 327.393 Recovery = 97.00%						
Fe 239.562†	1586.6	3.75 mg/L	0.092	3.75 mg/L	0.092	2.46%
QC value within limits for Fe 239.562 Recovery = 93.76%						
Mg 279.077†	7443.2	9.55 mg/L	0.255	9.55 mg/L	0.255	2.66%
QC value within limits for Mg 279.077 Recovery = 95.52%						
Mn 257.610†	221151.4	0.497 mg/L	0.0033	0.497 mg/L	0.0033	0.67%
QC value within limits for Mn 257.610 Recovery = 99.31%						
Mo 202.031†	13326.3	0.984 mg/L	0.0102	0.984 mg/L	0.0102	1.03%
QC value within limits for Mo 202.031 Recovery = 98.39%						
Ni 231.604†	17057.7	0.492 mg/L	0.0042	0.492 mg/L	0.0042	0.85%
QC value within limits for Ni 231.604 Recovery = 98.46%						
Pb 220.353†	2914.9	0.487 mg/L	0.0020	0.487 mg/L	0.0020	0.42%
QC value within limits for Pb 220.353 Recovery = 97.32%						
Sb 206.836†	1854.4	1.16 mg/L	0.005	1.16 mg/L	0.005	0.44%
QC value within limits for Sb 206.836 Recovery = 96.52%						
Se 196.026†	540.5	0.384 mg/L	0.0049	0.384 mg/L	0.0049	1.28%
QC value within limits for Se 196.026 Recovery = 95.92%						
Si 251.611†	167963.9	4.86 mg/L	0.035	4.86 mg/L	0.035	0.71%
QC value within limits for Si 251.611 Recovery = 97.20%						
Sn 189.927†	5697.0	0.974 mg/L	0.0061	0.974 mg/L	0.0061	0.62%
QC value within limits for Sn 189.927 Recovery = 97.40%						
Ti 334.940†	701160.7	0.966 mg/L	0.0022	0.966 mg/L	0.0022	0.22%
QC value within limits for Ti 334.940 Recovery = 96.65%						
Tl 190.801†	838.1	0.496 mg/L	0.0003	0.496 mg/L	0.0003	0.06%
QC value within limits for Tl 190.801 Recovery = 99.19%						
V 290.880†	146691.7	0.979 mg/L	0.0071	0.979 mg/L	0.0071	0.72%
QC value within limits for V 290.880 Recovery = 97.92%						
Zn 206.200†	32758.4	0.985 mg/L	0.0126	0.985 mg/L	0.0126	1.27%
QC value within limits for Zn 206.200 Recovery = 98.49%						
K 766.490†	120321.5	48.4 mg/L	0.37	48.4 mg/L	0.37	0.77%
QC value within limits for K 766.490 Recovery = 96.90%						
Na 589.592†	623899.7	48.2 mg/L	0.42	48.2 mg/L	0.42	0.87%
QC value within limits for Na 589.592 Recovery = 96.47%						
Sr 407.771†	998852.8	0.985 mg/L	0.0566	0.985 mg/L	0.0566	5.75%
QC value within limits for Sr 407.771 Recovery = 98.55%						
Li 670.784†	73536.5	0.967 mg/L	0.0041	0.967 mg/L	0.0041	0.42%
QC value within limits for Li 670.784 Recovery = 96.67%						

All analyte(s) passed QC.

Sequence No.: 28 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/23/2011 5:56:39 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	5027054.7				34031.89	0.68%
YRADIAL	293376.6				6451.65	2.20%
Ga 417.206	1341795.1				17556.00	1.31%
GaRADIAL	63195.2				256.76	0.41%

Approved: February 24, 2011

Pierre Morris

Ag 328.068†	54.2	-0.00044 mg/L	0.000378	-0.00044 mg/L	0.000378	86.96%	
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153†	-7.8	-0.0135 mg/L	0.00396	-0.0135 mg/L	0.00396	29.40%	
QC value within limits for Al 396.153 Recovery = Not calculated							
As 188.979†	-0.2	0.00023 mg/L	0.001133	0.00023 mg/L	0.001133	491.74%	
QC value within limits for As 188.979 Recovery = Not calculated							
Ba 233.527†	5.7	-0.00042 mg/L	0.000130	-0.00042 mg/L	0.000130	31.14%	
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 234.861†	50.0	0.00009 mg/L	0.000023	0.00009 mg/L	0.000023	25.99%	
QC value within limits for Be 234.861 Recovery = Not calculated							
B 249.677†	508.0	0.0131 mg/L	0.00091	0.0131 mg/L	0.00091	6.94%	
QC value within limits for B 249.677 Recovery = Not calculated							
Ca 227.546†	5.3	0.0174 mg/L	0.01711	0.0174 mg/L	0.01711	98.45%	
QC value within limits for Ca 227.546 Recovery = Not calculated							
Cd 228.802†	-3.0	-0.00010 mg/L	0.000152	-0.00010 mg/L	0.000152	147.65%	
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	-5.7	0.00014 mg/L	0.000180	0.00014 mg/L	0.000180	126.52%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-22.4	-0.00042 mg/L	0.000024	-0.00042 mg/L	0.000024	5.74%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	127.3	0.00094 mg/L	0.000411	0.00094 mg/L	0.000411	43.91%	
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 239.562†	0.1	-0.00178 mg/L	0.000853	-0.00178 mg/L	0.000853	47.95%	
QC value within limits for Fe 239.562 Recovery = Not calculated							
Mg 279.077†	2.6	-0.00385 mg/L	0.005596	-0.00385 mg/L	0.005596	145.31%	
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	57.3	-0.00022 mg/L	0.000037	-0.00022 mg/L	0.000037	17.04%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	3.9	-0.00049 mg/L	0.000052	-0.00049 mg/L	0.000052	10.73%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	-0.0	-0.00015 mg/L	0.000132	-0.00015 mg/L	0.000132	89.80%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	0.8	-0.00052 mg/L	0.000803	-0.00052 mg/L	0.000803	153.64%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-2.5	-0.00166 mg/L	0.001216	-0.00166 mg/L	0.001216	73.13%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-6.0	0.00006 mg/L	0.004191	0.00006 mg/L	0.004191	>999.9%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-35.2	-0.00247 mg/L	0.000934	-0.00247 mg/L	0.000934	37.73%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-73.9	-0.0109 mg/L	0.00041	-0.0109 mg/L	0.00041	3.78%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 334.940†	-116.2	-0.00032 mg/L	0.000046	-0.00032 mg/L	0.000046	14.13%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	1.5	-0.00209 mg/L	0.000904	-0.00209 mg/L	0.000904	43.28%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 290.880†	27.4	-0.00115 mg/L	0.000689	-0.00115 mg/L	0.000689	60.17%	
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	-194.5	-0.00628 mg/L	0.000131	-0.00628 mg/L	0.000131	2.09%	
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490†	-5.7	0.0175 mg/L	0.02438	0.0175 mg/L	0.02438	138.93%	
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592†	-126.2	-0.00872 mg/L	0.003783	-0.00872 mg/L	0.003783	43.37%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771†	167.9	-0.00047 mg/L	0.000187	-0.00047 mg/L	0.000187	40.00%	
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li 670.784†	62.7	-0.00071 mg/L	0.000596	-0.00071 mg/L	0.000596	83.43%	
QC value within limits for Li 670.784 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 29 **Autosampler Location: 83**
Sample ID: L1102057401 **Date Collected: 2/23/2011 6:03:22 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102057401

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Approved: February 24, 2011

Pierre Morris

Mean Data: L1102057401

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4939490.8						39048.67	0.79%
YRADIAL	294650.9						5416.46	1.84%
Ga 417.206	1361920.0						15217.12	1.12%
GaRADIAL	63360.0						1008.03	1.59%
Ag 328.068†	403.4	0.00081	mg/L	0.001375	0.00081	mg/L	0.001375	170.47%
Al 396.153†	63115.2	13.4	mg/L	0.04	13.4	mg/L	0.04	0.31%
As 188.979†	5.3	0.00544	mg/L	0.002225	0.00544	mg/L	0.002225	40.89%
Ba 233.527†	2593.4	0.0433	mg/L	0.00054	0.0433	mg/L	0.00054	1.25%
Be 234.861†	1221.7	-0.00005	mg/L	0.000232	-0.00005	mg/L	0.000232	432.16%
B 249.677†	1378.0	0.0626	mg/L	0.00226	0.0626	mg/L	0.00226	3.61%
Ca 227.546†	1779.9	16.8	mg/L	0.13	16.8	mg/L	0.13	0.80%
Cd 228.802†	27.7	0.00162	mg/L	0.000139	0.00162	mg/L	0.000139	8.53%
Co 228.616†	72.2	0.00330	mg/L	0.000368	0.00330	mg/L	0.000368	11.16%
Cr 267.716†	1776.0	0.0147	mg/L	0.00013	0.0147	mg/L	0.00013	0.92%
Cu 327.393†	1528.6	0.0119	mg/L	0.00099	0.0119	mg/L	0.00099	8.29%
Fe 239.562†	4365.5	10.3	mg/L	0.23	10.3	mg/L	0.23	2.24%
Mg 279.077†	7475.3	9.59	mg/L	0.252	9.59	mg/L	0.252	2.62%
Mn 257.610†	106512.5	0.241	mg/L	0.0021	0.241	mg/L	0.0021	0.87%
Mo 202.031†	23.4	0.00152	mg/L	0.000303	0.00152	mg/L	0.000303	19.92%
Ni 231.604†	424.9	0.0121	mg/L	0.00037	0.0121	mg/L	0.00037	3.03%
Pb 220.353†	74.0	0.0124	mg/L	0.00049	0.0124	mg/L	0.00049	4.00%
Sb 206.836†	18.9	0.0116	mg/L	0.00121	0.0116	mg/L	0.00121	10.50%
Se 196.026†	-22.6	-0.00506	mg/L	0.003111	-0.00506	mg/L	0.003111	61.50%
Si 251.611†	551231.6	16.0	mg/L	0.12	16.0	mg/L	0.12	0.77%
Sn 189.927†	-80.7	-0.0121	mg/L	0.00003	-0.0121	mg/L	0.00003	0.21%
Ti 334.940†	155197.2	0.214	mg/L	0.0019	0.214	mg/L	0.0019	0.90%
Tl 190.801†	35.4	0.0191	mg/L	0.00334	0.0191	mg/L	0.00334	17.50%
V 290.880†	3903.8	0.0256	mg/L	0.00155	0.0256	mg/L	0.00155	6.06%
Zn 206.200†	8273.6	0.248	mg/L	0.0020	0.248	mg/L	0.0020	0.82%
K 766.490†	25812.6	10.3	mg/L	0.21	10.3	mg/L	0.21	2.07%
Na 589.592†	487823.7	37.5	mg/L	0.29	37.5	mg/L	0.29	0.76%
Sr 407.771†	89459.0	0.0865	mg/L	0.00226	0.0865	mg/L	0.00226	2.61%
Li 670.784†	873.2	0.00996	mg/L	0.000102	0.00996	mg/L	0.000102	1.03%

==========

Sequence No.: 30 **Autosampler Location: 84**
Sample ID: L1102057401PS WG357407-01 **Date Collected: 2/23/2011 6:09:08 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102057401PS WG357407-01

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102057401PS WG357407-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4749450.1						32167.53	0.68%
YRADIAL	292695.6						12685.01	4.33%
Ga 417.206	1288788.9						17263.89	1.34%
GaRADIAL	62770.7						2459.28	3.92%
Ag 328.068†	40136.4	0.202	mg/L	0.0054	0.202	mg/L	0.0054	2.67%
Al 396.153†	81911.2	17.4	mg/L	0.06	17.4	mg/L	0.06	0.36%
As 188.979†	220.9	0.200	mg/L	0.0037	0.200	mg/L	0.0037	1.86%
Ba 233.527†	32687.4	0.554	mg/L	0.0049	0.554	mg/L	0.0049	0.88%
Be 234.861†	15715.2	0.0256	mg/L	0.00040	0.0256	mg/L	0.00040	1.55%
B 249.677†	53397.5	1.05	mg/L	0.020	1.05	mg/L	0.020	1.90%
Ca 227.546†	2222.4	21.2	mg/L	0.30	21.2	mg/L	0.30	1.43%
Cd 228.802†	457.0	0.0257	mg/L	0.00044	0.0257	mg/L	0.00044	1.73%
Co 228.616†	2061.4	0.102	mg/L	0.0008	0.102	mg/L	0.0008	0.78%
Cr 267.716†	30535.2	0.263	mg/L	0.0026	0.263	mg/L	0.0026	1.00%
Cu 327.393†	37495.7	0.258	mg/L	0.0061	0.258	mg/L	0.0061	2.37%
Fe 239.562†	4868.7	11.5	mg/L	0.65	11.5	mg/L	0.65	5.60%
Mg 279.077†	10770.6	13.8	mg/L	0.76	13.8	mg/L	0.76	5.49%
Mn 257.610†	213582.8	0.481	mg/L	0.0007	0.481	mg/L	0.0007	0.15%
Mo 202.031†	6852.1	0.506	mg/L	0.0058	0.506	mg/L	0.0058	1.16%
Ni 231.604†	9163.1	0.264	mg/L	0.0016	0.264	mg/L	0.0016	0.61%

Approved: February 24, 2011

Pierre Morris

Pb 220.353†	1582.5	0.264	mg/L	0.0021	0.264	mg/L	0.0021	0.79%
Sb 206.836†	971.0	0.606	mg/L	0.0084	0.606	mg/L	0.0084	1.38%
Se 196.026†	249.0	0.185	mg/L	0.0019	0.185	mg/L	0.0019	1.03%
Si 251.611†	620760.7	18.0	mg/L	0.15	18.0	mg/L	0.15	0.84%
Sn 189.927†	-82.9	-0.0125	mg/L	0.00071	-0.0125	mg/L	0.00071	5.66%
Ti 334.940†	515238.4	0.710	mg/L	0.0054	0.710	mg/L	0.0054	0.76%
Tl 190.801†	471.1	0.278	mg/L	0.0031	0.278	mg/L	0.0031	1.12%
V 290.880†	79969.5	0.534	mg/L	0.0032	0.534	mg/L	0.0032	0.60%
Zn 206.200†	24540.0	0.737	mg/L	0.0038	0.737	mg/L	0.0038	0.52%
K 766.490†	85875.7	34.5	mg/L	0.17	34.5	mg/L	0.17	0.49%
Na 589.592†	773320.9	60.2	mg/L	0.03	60.2	mg/L	0.03	0.05%
Sr 407.771†	580647.7	0.571	mg/L	0.0108	0.571	mg/L	0.0108	1.88%
Li 670.784†	40102.7	0.526	mg/L	0.0045	0.526	mg/L	0.0045	0.85%

Sequence No.: 31 **Autosampler Location: 85**
Sample ID: L1102057401DL WG357407-02 **Date Collected: 2/23/2011 6:14:57 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102057401DL WG357407-02

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102057401DL WG357407-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5084258.1						23548.69	0.46%
YRADIAL	293005.9						2487.66	0.85%
Ga 417.206	1418730.2						15219.31	1.07%
GaRADIAL	64426.9						1492.51	2.32%
Ag 328.068†	-71.0	-0.00117	mg/L	0.000243	-0.00117	mg/L	0.000243	20.70%
Al 396.153†	12614.8	2.68	mg/L	0.015	2.68	mg/L	0.015	0.55%
As 188.979†	0.3	0.00074	mg/L	0.001088	0.00074	mg/L	0.001088	147.09%
Ba 233.527†	517.8	0.00824	mg/L	0.000064	0.00824	mg/L	0.000064	0.77%
Be 234.861†	353.5	0.00017	mg/L	0.000026	0.00017	mg/L	0.000026	14.93%
B 249.677†	494.5	0.0196	mg/L	0.00140	0.0196	mg/L	0.00140	7.11%
Ca 227.546†	353.9	3.32	mg/L	0.082	3.32	mg/L	0.082	2.48%
Cd 228.802†	1.2	0.00014	mg/L	0.000168	0.00014	mg/L	0.000168	122.58%
Co 228.616†	13.7	0.00097	mg/L	0.000275	0.00097	mg/L	0.000275	28.49%
Cr 267.716†	377.6	0.00295	mg/L	0.000139	0.00295	mg/L	0.000139	4.70%
Cu 327.393†	371.8	0.00290	mg/L	0.000465	0.00290	mg/L	0.000465	16.03%
Fe 239.562†	890.3	2.10	mg/L	0.042	2.10	mg/L	0.042	2.00%
Mg 279.077†	1543.1	1.97	mg/L	0.023	1.97	mg/L	0.023	1.17%
Mn 257.610†	21397.4	0.0481	mg/L	0.00052	0.0481	mg/L	0.00052	1.09%
Mo 202.031†	6.6	-0.00017	mg/L	0.000409	-0.00017	mg/L	0.000409	241.16%
Ni 231.604†	88.1	0.00239	mg/L	0.000162	0.00239	mg/L	0.000162	6.74%
Pb 220.353†	23.3	0.00335	mg/L	0.000718	0.00335	mg/L	0.000718	21.45%
Sb 206.836†	2.7	0.00152	mg/L	0.001877	0.00152	mg/L	0.001877	123.34%
Se 196.026†	-12.8	-0.00340	mg/L	0.004537	-0.00340	mg/L	0.004537	133.54%
Si 251.611†	109157.7	3.17	mg/L	0.036	3.17	mg/L	0.036	1.12%
Sn 189.927†	-79.4	-0.0119	mg/L	0.00070	-0.0119	mg/L	0.00070	5.93%
Ti 334.940†	30446.3	0.0418	mg/L	0.00057	0.0418	mg/L	0.00057	1.37%
Tl 190.801†	7.3	0.00159	mg/L	0.002363	0.00159	mg/L	0.002363	148.26%
V 290.880†	884.7	0.00475	mg/L	0.000294	0.00475	mg/L	0.000294	6.19%
Zn 206.200†	1573.7	0.0468	mg/L	0.00021	0.0468	mg/L	0.00021	0.44%
K 766.490†	5268.3	2.12	mg/L	0.030	2.12	mg/L	0.030	1.42%
Na 589.592†	97846.8	7.41	mg/L	0.114	7.41	mg/L	0.114	1.53%
Sr 407.771†	19160.9	0.0180	mg/L	0.00090	0.0180	mg/L	0.00090	5.00%
Li 670.784†	128.5	0.00015	mg/L	0.001107	0.00015	mg/L	0.001107	728.38%

Sequence No.: 32 **Autosampler Location: 86**
Sample ID: L1102057901 **Date Collected: 2/23/2011 6:21:36 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102057901

Approved: February 24, 2011

Pierre Morris

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102057901

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4568647.5						76101.61	1.67%
YRADIAL	282689.8						5874.59	2.08%
Ga 417.206	1227296.4						26664.75	2.17%
GaRADIAL	61845.9						1819.80	2.94%
Ag 328.068†	68.9	-0.00055	mg/L	0.000255	-0.00055	mg/L	0.000255	46.74%
Al 396.153†	-77.4	-0.0283	mg/L	0.00524	-0.0283	mg/L	0.00524	18.51%
As 188.979†	3.2	0.00287	mg/L	0.003581	0.00287	mg/L	0.003581	124.97%
Ba 233.527†	6116.0	0.103	mg/L	0.0018	0.103	mg/L	0.0018	1.71%
Be 234.861†	35.4	0.00000	mg/L	0.000029	0.00000	mg/L	0.000029	>999.9%
B 249.677†	4120.1	0.0829	mg/L	0.00141	0.0829	mg/L	0.00141	1.70%
Ca 227.546†	2611.6	24.6	mg/L	0.53	24.6	mg/L	0.53	2.17%
Cd 228.802†	-1.0	-0.00001	mg/L	0.000082	-0.00001	mg/L	0.000082	813.64%
Co 228.616†	0.7	0.00042	mg/L	0.000261	0.00042	mg/L	0.000261	61.47%
Cr 267.716†	282.1	0.00220	mg/L	0.000118	0.00220	mg/L	0.000118	5.36%
Cu 327.393†	-166.5	-0.00104	mg/L	0.000891	-0.00104	mg/L	0.000891	85.38%
Fe 239.562†	128.3	0.301	mg/L	0.0189	0.301	mg/L	0.0189	6.28%
Mg 279.077†	24200.2	31.1	mg/L	1.53	31.1	mg/L	1.53	4.93%
Mn 257.610†	4915.1	0.0183	mg/L	0.00047	0.0183	mg/L	0.00047	2.56%
Mo 202.031†	5.1	-0.00038	mg/L	0.000356	-0.00038	mg/L	0.000356	93.96%
Ni 231.604†	61.5	0.00161	mg/L	0.000058	0.00161	mg/L	0.000058	3.58%
Pb 220.353†	1.3	0.00073	mg/L	0.001351	0.00073	mg/L	0.001351	184.04%
Sb 206.836†	9.9	0.00599	mg/L	0.000876	0.00599	mg/L	0.000876	14.62%
Se 196.026†	-18.4	-0.00236	mg/L	0.005023	-0.00236	mg/L	0.005023	212.52%
Si 251.611†	390936.1	11.3	mg/L	0.06	11.3	mg/L	0.06	0.49%
Sn 189.927†	-77.2	-0.0115	mg/L	0.00045	-0.0115	mg/L	0.00045	3.92%
Ti 334.940†	-356.8	-0.00041	mg/L	0.000231	-0.00041	mg/L	0.000231	56.42%
Tl 190.801†	49.9	0.0238	mg/L	0.00336	0.0238	mg/L	0.00336	14.10%
V 290.880†	-741.5	-0.00627	mg/L	0.001065	-0.00627	mg/L	0.001065	17.00%
Zn 206.200†	10.3	-0.00013	mg/L	0.000261	-0.00013	mg/L	0.000261	204.83%
K 766.490†	6394.4	1.98	mg/L	0.022	1.98	mg/L	0.022	1.10%
Na 589.592†	5540414.3	595	mg/L	35.9	595	mg/L	35.9	6.03%
Sr 407.771†	814628.3	0.804	mg/L	0.0520	0.804	mg/L	0.0520	6.46%
Li 670.784†	2857.3	0.0361	mg/L	0.00121	0.0361	mg/L	0.00121	3.36%

Sequence No.: 33 **Autosampler Location: 87**
Sample ID: L1102057902 **Date Collected: 2/23/2011 6:28:23 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102057902

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102057902

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4663983.6						22135.52	0.47%
YRADIAL	279316.2						3281.06	1.17%
Ga 417.206	1256929.0						15812.15	1.26%
GaRADIAL	61112.7						365.64	0.60%
Ag 328.068†	49.3	-0.00064	mg/L	0.000752	-0.00064	mg/L	0.000752	116.70%
Al 396.153†	-43.7	-0.0211	mg/L	0.01661	-0.0211	mg/L	0.01661	78.71%
As 188.979†	1.7	0.00157	mg/L	0.001387	0.00157	mg/L	0.001387	88.51%
Ba 233.527†	5691.5	0.0958	mg/L	0.00053	0.0958	mg/L	0.00053	0.56%
Be 234.861†	46.3	-0.00001	mg/L	0.000082	-0.00001	mg/L	0.000082	663.88%
B 249.677†	3779.8	0.0772	mg/L	0.00165	0.0772	mg/L	0.00165	2.14%
Ca 227.546†	2415.6	22.8	mg/L	0.31	22.8	mg/L	0.31	1.37%
Cd 228.802†	0.7	0.00009	mg/L	0.000066	0.00009	mg/L	0.000066	73.27%
Co 228.616†	-5.9	0.00009	mg/L	0.000207	0.00009	mg/L	0.000207	229.87%
Cr 267.716†	298.6	0.00235	mg/L	0.000168	0.00235	mg/L	0.000168	7.14%
Cu 327.393†	8.2	0.00017	mg/L	0.000795	0.00017	mg/L	0.000795	473.61%
Fe 239.562†	193.8	0.456	mg/L	0.0055	0.456	mg/L	0.0055	1.20%

Approved: February 24, 2011

Pierre Morris

Mg 279.077†	22871.3	29.4	mg/L	0.15	29.4	mg/L	0.15 0.52%
Mn 257.610†	4389.2	0.0171	mg/L	0.00009	0.0171	mg/L	0.00009 0.55%
Mo 202.031†	6.5	-0.00027	mg/L	0.000571	-0.00027	mg/L	0.000571 209.45%
Ni 231.604†	66.1	0.00174	mg/L	0.000359	0.00174	mg/L	0.000359 20.57%
Pb 220.353†	5.1	0.00125	mg/L	0.001095	0.00125	mg/L	0.001095 87.31%
Sb 206.836†	4.9	0.00292	mg/L	0.000451	0.00292	mg/L	0.000451 15.41%
Se 196.026†	-19.9	-0.00379	mg/L	0.008988	-0.00379	mg/L	0.008988 237.13%
Si 251.611†	385687.0	11.2	mg/L	0.11	11.2	mg/L	0.11 0.96%
Sn 189.927†	-81.1	-0.0122	mg/L	0.00107	-0.0122	mg/L	0.00107 8.77%
Ti 334.940†	-296.4	-0.00035	mg/L	0.000126	-0.00035	mg/L	0.000126 36.40%
Tl 190.801†	48.3	0.0231	mg/L	0.00150	0.0231	mg/L	0.00150 6.47%
V 290.880†	-745.0	-0.00628	mg/L	0.001888	-0.00628	mg/L	0.001888 30.07%
Zn 206.200†	71.8	0.00171	mg/L	0.000154	0.00171	mg/L	0.000154 8.97%
K 766.490†	6085.1	1.86	mg/L	0.086	1.86	mg/L	0.086 4.65%
Na 589.592†	5530550.0	592	mg/L	10.2	592	mg/L	10.2 1.72%
Sr 407.771†	767969.5	0.758	mg/L	0.0488	0.758	mg/L	0.0488 6.44%
Li 670.784†	2824.2	0.0356	mg/L	0.00131	0.0356	mg/L	0.00131 3.69%

Sequence No.: 34 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/23/2011 6:35:12 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	165.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4844304.4						49326.88	1.02%
YRADIAL	280635.2						3690.21	1.31%
Ga 417.206	1270497.9						7963.98	0.63%
GaRADIAL	60874.7						597.93	0.98%
Ag 328.068†	78469.2	0.396	mg/L	0.0039	0.396	mg/L	0.0039	0.98%
QC value within limits for Ag 328.068 Recovery = 99.08%								
Al 396.153†	46624.7	9.91	mg/L	0.085	9.91	mg/L	0.085	0.86%
QC value within limits for Al 396.153 Recovery = 99.08%								
As 188.979†	425.0	0.385	mg/L	0.0056	0.385	mg/L	0.0056	1.45%
QC value within limits for As 188.979 Recovery = 96.22%								
Ba 233.527†	58341.5	0.990	mg/L	0.0060	0.990	mg/L	0.0060	0.60%
QC value within limits for Ba 233.527 Recovery = 98.95%								
Be 234.861†	28379.8	0.0499	mg/L	0.00049	0.0499	mg/L	0.00049	0.99%
QC value within limits for Be 234.861 Recovery = 99.70%								
B 249.677†	25697.4	0.496	mg/L	0.0060	0.496	mg/L	0.0060	1.22%
QC value within limits for B 249.677 Recovery = 99.13%								
Ca 227.546†	1021.3	9.96	mg/L	0.110	9.96	mg/L	0.110	1.11%
QC value within limits for Ca 227.546 Recovery = 99.57%								
Cd 228.802†	868.6	0.0487	mg/L	0.00053	0.0487	mg/L	0.00053	1.09%
QC value within limits for Cd 228.802 Recovery = 97.32%								
Co 228.616†	3806.3	0.189	mg/L	0.0015	0.189	mg/L	0.0015	0.79%
QC value within limits for Co 228.616 Recovery = 94.66%								
Cr 267.716†	56566.7	0.488	mg/L	0.0024	0.488	mg/L	0.0024	0.50%
QC value within limits for Cr 267.716 Recovery = 97.54%								
Cu 327.393†	70589.8	0.484	mg/L	0.0056	0.484	mg/L	0.0056	1.16%
QC value within limits for Cu 327.393 Recovery = 96.80%								
Fe 239.562†	1622.4	3.83	mg/L	0.028	3.83	mg/L	0.028	0.73%
QC value within limits for Fe 239.562 Recovery = 95.87%								
Mg 279.077†	7601.6	9.76	mg/L	0.050	9.76	mg/L	0.050	0.52%
QC value within limits for Mg 279.077 Recovery = 97.56%								
Mn 257.610†	221585.7	0.498	mg/L	0.0021	0.498	mg/L	0.0021	0.42%
QC value within limits for Mn 257.610 Recovery = 99.51%								
Mo 202.031†	13284.7	0.981	mg/L	0.0055	0.981	mg/L	0.0055	0.56%
QC value within limits for Mo 202.031 Recovery = 98.08%								
Ni 231.604†	17032.8	0.492	mg/L	0.0020	0.492	mg/L	0.0020	0.41%
QC value within limits for Ni 231.604 Recovery = 98.31%								
Pb 220.353†	2921.9	0.488	mg/L	0.0049	0.488	mg/L	0.0049	1.01%
QC value within limits for Pb 220.353 Recovery = 97.55%								
Sb 206.836†	1849.0	1.15	mg/L	0.015	1.15	mg/L	0.015	1.26%

Approved: February 24, 2011

Pierre Morris

```
   QC value within limits for Sb 206.836  Recovery = 96.24%
Se 196.026†          548.4       0.389 mg/L        0.0009       0.389 mg/L        0.0009   0.23%
   QC value within limits for Se 196.026  Recovery = 97.29%
Si 251.611†       168111.4        4.86 mg/L         0.056        4.86 mg/L         0.056   1.14%
   QC value within limits for Si 251.611  Recovery = 97.29%
Sn 189.927†         5717.8       0.978 mg/L        0.0086       0.978 mg/L        0.0086   0.88%
   QC value within limits for Sn 189.927  Recovery = 97.76%
Ti 334.940†       709930.6       0.979 mg/L        0.0108       0.979 mg/L        0.0108   1.10%
   QC value within limits for Ti 334.940  Recovery = 97.86%
Tl 190.801†          833.9       0.494 mg/L        0.0070       0.494 mg/L        0.0070   1.43%
   QC value within limits for Tl 190.801  Recovery = 98.72%
V 290.880†        147121.2       0.982 mg/L        0.0054       0.982 mg/L        0.0054   0.55%
   QC value within limits for V 290.880  Recovery = 98.21%
Zn 206.200†        32922.7       0.990 mg/L        0.0086       0.990 mg/L        0.0086   0.87%
   QC value within limits for Zn 206.200  Recovery = 98.98%
K 766.490†        121361.4        48.9 mg/L          0.55        48.9 mg/L          0.55   1.13%
   QC value within limits for K 766.490  Recovery = 97.74%
Na 589.592†       631254.2        48.8 mg/L          0.23        48.8 mg/L          0.23   0.47%
   QC value within limits for Na 589.592  Recovery = 97.64%
Sr 407.771†      1023744.7        1.01 mg/L         0.071        1.01 mg/L         0.071   7.00%
   QC value within limits for Sr 407.771  Recovery = 101.01%
Li 670.784†        74303.3       0.977 mg/L        0.0042       0.977 mg/L        0.0042   0.43%
   QC value within limits for Li 670.784  Recovery = 97.68%
All analyte(s) passed QC.
```

Sequence No.: 35 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/23/2011 6:41:51 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4989548.5						87690.83	1.76%
YRADIAL	295447.3						5250.56	1.78%
Ga 417.206	1317560.3						12531.45	0.95%
GaRADIAL	63761.1						2057.66	3.23%
Ag 328.068†	-131.0	-0.00137	mg/L	0.000699	-0.00137	mg/L	0.000699	51.01%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-2.7	-0.0124	mg/L	0.01392	-0.0124	mg/L	0.01392	112.14%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.5	-0.00004	mg/L	0.002301	-0.00004	mg/L	0.002301	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-3.5	-0.00057	mg/L	0.000072	-0.00057	mg/L	0.000072	12.66%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	40.6	0.00007	mg/L	0.000016	0.00007	mg/L	0.000016	21.78%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	114.0	0.00567	mg/L	0.001237	0.00567	mg/L	0.001237	21.83%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	3.0	-0.00466	mg/L	0.079075	-0.00466	mg/L	0.079075	>999.9%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-3.0	-0.00010	mg/L	0.000117	-0.00010	mg/L	0.000117	115.03%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-2.2	0.00032	mg/L	0.000183	0.00032	mg/L	0.000183	57.39%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-4.4	-0.00026	mg/L	0.000126	-0.00026	mg/L	0.000126	48.11%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	74.3	0.00057	mg/L	0.000854	0.00057	mg/L	0.000854	148.58%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	1.4	0.00124	mg/L	0.005745	0.00124	mg/L	0.005745	462.32%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	5.8	0.00035	mg/L	0.007516	0.00035	mg/L	0.007516	>999.9%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	41.3	-0.00025	mg/L	0.000016	-0.00025	mg/L	0.000016	6.18%
QC value within limits for Mn 257.610 Recovery = Not calculated								

Approved: February 24, 2011

Pierre Morris

Mo 202.031†	6.9	-0.00026	mg/L	0.000353	-0.00026	mg/L	0.000353 134.30%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	9.1	0.00012	mg/L	0.000396	0.00012	mg/L	0.000396 336.01%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	2.4	-0.00025	mg/L	0.000206	-0.00025	mg/L	0.000206 81.45%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	1.2	0.00063	mg/L	0.002542	0.00063	mg/L	0.002542 405.80%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-2.5	0.00247	mg/L	0.007632	0.00247	mg/L	0.007632 308.75%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	24.3	-0.00075	mg/L	0.000679	-0.00075	mg/L	0.000679 90.48%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-76.6	-0.0114	mg/L	0.00025	-0.0114	mg/L	0.00025 2.19%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 334.940†	-42.6	-0.00022	mg/L	0.000165	-0.00022	mg/L	0.000165 73.82%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	1.6	-0.00205	mg/L	0.002641	-0.00205	mg/L	0.002641 128.82%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 290.880†	55.7	-0.00096	mg/L	0.000544	-0.00096	mg/L	0.000544 56.97%
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	-209.1	-0.00671	mg/L	0.000147	-0.00671	mg/L	0.000147 2.19%
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490†	127.9	0.0707	mg/L	0.04706	0.0707	mg/L	0.04706 66.52%
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592†	1403.2	0.107	mg/L	0.0099	0.107	mg/L	0.0099 9.27%
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771†	183.9	-0.00045	mg/L	0.000324	-0.00045	mg/L	0.000324 71.57%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li 670.784†	120.6	0.00005	mg/L	0.000373	0.00005	mg/L	0.000373 780.48%
QC value within limits for Li 670.784 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 36 **Autosampler Location: 88**
Sample ID: PBW 04 WG357204-02 **Date Collected: 2/23/2011 6:48:33 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 04 WG357204-02

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: PBW 04 WG357204-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5182960.4						70862.82	1.37%
YRADIAL	296568.3						1887.33	0.64%
Ga 417.206	1312191.9						20197.06	1.54%
GaRADIAL	64735.3						1061.78	1.64%
Ag 328.068†	-125.6	-0.00134	mg/L	0.000711	-0.00134	mg/L	0.000711	52.94%
Al 396.153†	37.4	-0.00385	mg/L	0.008840	-0.00385	mg/L	0.008840	229.90%
As 188.979†	-1.0	-0.00051	mg/L	0.003414	-0.00051	mg/L	0.003414	665.83%
Ba 233.527†	238.3	0.00352	mg/L	0.000122	0.00352	mg/L	0.000122	3.48%
Be 234.861†	-44.7	-0.00008	mg/L	0.000021	-0.00008	mg/L	0.000021	28.00%
B 249.677†	122.5	0.00583	mg/L	0.000756	0.00583	mg/L	0.000756	12.96%
Ca 227.546†	-3.2	-0.0628	mg/L	0.03276	-0.0628	mg/L	0.03276	52.20%
Cd 228.802†	1.6	0.00016	mg/L	0.000165	0.00016	mg/L	0.000165	103.02%
Co 228.616†	-3.1	0.00027	mg/L	0.000146	0.00027	mg/L	0.000146	53.29%
Cr 267.716†	27.0	0.00001	mg/L	0.000103	0.00001	mg/L	0.000103	>999.9%
Cu 327.393†	171.5	0.00124	mg/L	0.000572	0.00124	mg/L	0.000572	46.17%
Fe 239.562†	3.5	0.00626	mg/L	0.005004	0.00626	mg/L	0.005004	79.97%
Mg 279.077†	4.5	-0.00142	mg/L	0.003414	-0.00142	mg/L	0.003414	240.42%
Mn 257.610†	-4.0	-0.00035	mg/L	0.000018	-0.00035	mg/L	0.000018	5.08%
Mo 202.031†	-2.8	-0.00098	mg/L	0.000189	-0.00098	mg/L	0.000189	19.33%
Ni 231.604†	-1.0	-0.00017	mg/L	0.000323	-0.00017	mg/L	0.000323	186.58%
Pb 220.353†	4.6	0.00009	mg/L	0.000576	0.00009	mg/L	0.000576	620.09%
Sb 206.836†	2.8	0.00158	mg/L	0.002422	0.00158	mg/L	0.002422	153.39%
Se 196.026†	-0.2	0.00408	mg/L	0.003772	0.00408	mg/L	0.003772	92.51%
Si 251.611†	39.9	-0.00029	mg/L	0.000439	-0.00029	mg/L	0.000439	152.81%
Sn 189.927†	-56.4	-0.00796	mg/L	0.000462	-0.00796	mg/L	0.000462	5.80%

Approved: February 24, 2011

Pierre Morris

Ti 334.940†	-55.2	-0.00024 mg/L	0.000161	-0.00024 mg/L	0.000161	66.83%
Tl 190.801†	-2.6	-0.00449 mg/L	0.003157	-0.00449 mg/L	0.003157	70.30%
V 290.880†	-29.8	-0.00153 mg/L	0.000348	-0.00153 mg/L	0.000348	22.78%
Zn 206.200†	-139.6	-0.00463 mg/L	0.000129	-0.00463 mg/L	0.000129	2.80%
K 766.490†	48.0	0.0389 mg/L	0.02252	0.0389 mg/L	0.02252	57.90%
Na 589.592†	898.1	0.0686 mg/L	0.00695	0.0686 mg/L	0.00695	10.14%
Sr 407.771†	75.6	-0.00056 mg/L	0.000112	-0.00056 mg/L	0.000112	20.08%
Li 670.784†	-107.1	-0.00295 mg/L	0.002101	-0.00295 mg/L	0.002101	71.19%

Sequence No.: 37 **Autosampler Location: 89**
Sample ID: LCSW 04 WG357204-03 **Date Collected: 2/23/2011 6:55:13 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 04 WG357204-03

Analyte	Back Pressure	Flow
All	165.0 kPa	0.50 L/min

Mean Data: LCSW 04 WG357204-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4985131.7						15041.26	0.30%
YRADIAL	284305.8						4209.60	1.48%
Ga 417.206	1281517.4						6760.66	0.53%
GaRADIAL	62103.2						1568.42	2.53%
Ag 328.068†	37991.7	0.192	mg/L	0.0016	0.192	mg/L	0.0016	0.86%
Al 396.153†	22578.6	4.79	mg/L	0.026	4.79	mg/L	0.026	0.55%
As 188.979†	200.9	0.182	mg/L	0.0021	0.182	mg/L	0.0021	1.16%
Ba 233.527†	28176.6	0.478	mg/L	0.0016	0.478	mg/L	0.0016	0.33%
Be 234.861†	13211.8	0.0232	mg/L	0.00015	0.0232	mg/L	0.00015	0.64%
B 249.677†	48520.2	0.925	mg/L	0.0071	0.925	mg/L	0.0071	0.77%
Ca 227.546†	479.6	4.66	mg/L	0.065	4.66	mg/L	0.065	1.40%
Cd 228.802†	422.9	0.0238	mg/L	0.00025	0.0238	mg/L	0.00025	1.05%
Co 228.616†	1867.9	0.0931	mg/L	0.00044	0.0931	mg/L	0.00044	0.47%
Cr 267.716†	27526.9	0.237	mg/L	0.0008	0.237	mg/L	0.0008	0.33%
Cu 327.393†	34678.5	0.238	mg/L	0.0009	0.238	mg/L	0.0009	0.38%
Fe 239.562†	806.4	1.91	mg/L	0.050	1.91	mg/L	0.050	2.64%
Mg 279.077†	3795.5	4.87	mg/L	0.124	4.87	mg/L	0.124	2.54%
Mn 257.610†	108833.9	0.244	mg/L	0.0006	0.244	mg/L	0.0006	0.23%
Mo 202.031†	6465.5	0.477	mg/L	0.0000	0.477	mg/L	0.0000	0.01%
Ni 231.604†	8296.9	0.239	mg/L	0.0015	0.239	mg/L	0.0015	0.63%
Pb 220.353†	1433.1	0.239	mg/L	0.0012	0.239	mg/L	0.0012	0.50%
Sb 206.836†	907.2	0.567	mg/L	0.0070	0.567	mg/L	0.0070	1.24%
Se 196.026†	259.4	0.186	mg/L	0.0018	0.186	mg/L	0.0018	0.99%
Si 251.611†	83497.3	2.42	mg/L	0.022	2.42	mg/L	0.022	0.90%
Sn 189.927†	-53.1	-0.00738	mg/L	0.000814	-0.00738	mg/L	0.000814	11.02%
Ti 334.940†	348324.6	0.480	mg/L	0.0032	0.480	mg/L	0.0032	0.66%
Tl 190.801†	406.2	0.239	mg/L	0.0027	0.239	mg/L	0.0027	1.14%
V 290.880†	71558.3	0.477	mg/L	0.0010	0.477	mg/L	0.0010	0.20%
Zn 206.200†	15504.4	0.466	mg/L	0.0012	0.466	mg/L	0.0012	0.26%
K 766.490†	59259.4	23.8	mg/L	0.23	23.8	mg/L	0.23	0.95%
Na 589.592†	315492.6	24.1	mg/L	0.88	24.1	mg/L	0.88	3.65%
Sr 407.771†	515398.3	0.508	mg/L	0.0226	0.508	mg/L	0.0226	4.45%
Li 670.784†	36448.9	0.478	mg/L	0.0052	0.478	mg/L	0.0052	1.09%

Sequence No.: 38 **Autosampler Location: 90**
Sample ID: FBLK WG357124-01 **Date Collected: 2/23/2011 7:01:56 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: FBLK WG357124-01

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: FBLK WG357124-01

Approved: February 24, 2011

Pierre Morris

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4944305.7						57395.27	1.16%
YRADIAL	290411.9						3722.78	1.28%
Ga 417.206	1253405.1						8071.86	0.64%
GaRADIAL	61723.1						571.86	0.93%
Ag 328.068†	-152.2	-0.00148	mg/L	0.000369	-0.00148	mg/L	0.000369	24.89%
Al 396.153†	258.4	0.0432	mg/L	0.00849	0.0432	mg/L	0.00849	19.64%
As 188.979†	-4.2	-0.00344	mg/L	0.001187	-0.00344	mg/L	0.001187	34.47%
Ba 233.527†	185.6	0.00263	mg/L	0.000047	0.00263	mg/L	0.000047	1.80%
Be 234.861†	-52.1	-0.00011	mg/L	0.000019	-0.00011	mg/L	0.000019	16.77%
B 249.677†	356.6	0.0108	mg/L	0.00127	0.0108	mg/L	0.00127	11.78%
Ca 227.546†	9.4	0.0572	mg/L	0.00837	0.0572	mg/L	0.00837	14.65%
Cd 228.802†	-0.1	0.00008	mg/L	0.000132	0.00008	mg/L	0.000132	157.00%
Co 228.616†	-6.6	0.00009	mg/L	0.000275	0.00009	mg/L	0.000275	309.70%
Cr 267.716†	63.7	0.00032	mg/L	0.000112	0.00032	mg/L	0.000112	34.66%
Cu 327.393†	208.9	0.00151	mg/L	0.000593	0.00151	mg/L	0.000593	39.31%
Fe 239.562†	53.6	0.125	mg/L	0.0102	0.125	mg/L	0.0102	8.15%
Mg 279.077†	56.6	0.0654	mg/L	0.00165	0.0654	mg/L	0.00165	2.53%
Mn 257.610†	814.9	0.00280	mg/L	0.000077	0.00280	mg/L	0.000077	2.76%
Mo 202.031†	-1.5	-0.00088	mg/L	0.000366	-0.00088	mg/L	0.000366	41.56%
Ni 231.604†	21.0	0.00046	mg/L	0.000103	0.00046	mg/L	0.000103	22.19%
Pb 220.353†	11.1	0.00117	mg/L	0.000682	0.00117	mg/L	0.000682	58.09%
Sb 206.836†	3.3	0.00192	mg/L	0.001486	0.00192	mg/L	0.001486	77.60%
Se 196.026†	4.5	0.00740	mg/L	0.005641	0.00740	mg/L	0.005641	76.24%
Si 251.611†	2549.3	0.0726	mg/L	0.00063	0.0726	mg/L	0.00063	0.86%
Sn 189.927†	-58.1	-0.00825	mg/L	0.000645	-0.00825	mg/L	0.000645	7.81%
Ti 334.940†	1289.4	0.00161	mg/L	0.000011	0.00161	mg/L	0.000011	0.67%
Tl 190.801†	-0.8	-0.00338	mg/L	0.002981	-0.00338	mg/L	0.002981	88.28%
V 290.880†	184.1	-0.00009	mg/L	0.000562	-0.00009	mg/L	0.000562	648.89%
Zn 206.200†	-28.7	-0.00130	mg/L	0.000130	-0.00130	mg/L	0.000130	9.99%
K 766.490†	528.3	0.0878	mg/L	0.02039	0.0878	mg/L	0.02039	23.23%
Na 589.592†	1759051.7	143	mg/L	1.6	143	mg/L	1.6	1.10%
Sr 407.771†	623.2	-0.00003	mg/L	0.000108	-0.00003	mg/L	0.000108	321.88%
Li 670.784†	168.4	0.00068	mg/L	0.001251	0.00068	mg/L	0.001251	184.97%

Sequence No.: 39 **Autosampler Location: 91**
Sample ID: FBLK WG357124-02 **Date Collected: 2/23/2011 7:08:41 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: FBLK WG357124-02

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: FBLK WG357124-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5190652.7						12978.50	0.25%
YRADIAL	302553.8						5481.96	1.81%
Ga 417.206	1314630.7						2446.88	0.19%
GaRADIAL	65440.3						1048.88	1.60%
Ag 328.068†	-111.4	-0.00128	mg/L	0.000660	-0.00128	mg/L	0.000660	51.49%
Al 396.153†	633.6	0.123	mg/L	0.0198	0.123	mg/L	0.0198	16.07%
As 188.979†	-1.4	-0.00084	mg/L	0.000830	-0.00084	mg/L	0.000830	98.34%
Ba 233.527†	73.5	0.00073	mg/L	0.000040	0.00073	mg/L	0.000040	5.54%
Be 234.861†	-17.9	-0.00007	mg/L	0.000050	-0.00007	mg/L	0.000050	68.60%
B 249.677†	69.9	0.00563	mg/L	0.000062	0.00563	mg/L	0.000062	1.11%
Ca 227.546†	14.6	0.106	mg/L	0.0448	0.106	mg/L	0.0448	42.35%
Cd 228.802†	-0.3	0.00005	mg/L	0.000073	0.00005	mg/L	0.000073	141.81%
Co 228.616†	-8.4	-0.00001	mg/L	0.000220	-0.00001	mg/L	0.000220	>999.9%
Cr 267.716†	66.4	0.00034	mg/L	0.000056	0.00034	mg/L	0.000056	16.32%
Cu 327.393†	220.5	0.00160	mg/L	0.000438	0.00160	mg/L	0.000438	27.37%
Fe 239.562†	87.9	0.206	mg/L	0.0045	0.206	mg/L	0.0045	2.18%
Mg 279.077†	68.6	0.0808	mg/L	0.00385	0.0808	mg/L	0.00385	4.77%
Mn 257.610†	1962.8	0.00404	mg/L	0.000032	0.00404	mg/L	0.000032	0.80%
Mo 202.031†	-5.5	-0.00117	mg/L	0.000048	-0.00117	mg/L	0.000048	4.13%
Ni 231.604†	6.6	0.00005	mg/L	0.000352	0.00005	mg/L	0.000352	736.74%
Pb 220.353†	13.2	0.00151	mg/L	0.001526	0.00151	mg/L	0.001526	100.80%

Approved: February 24, 2011

Pierce Morris

Sb 206.836†	2.1	0.00118	mg/L	0.002644	0.00118	mg/L	0.002644 224.31%
Se 196.026†	2.7	0.00621	mg/L	0.002156	0.00621	mg/L	0.002156 34.73%
Si 251.611†	2092.3	0.0593	mg/L	0.00028	0.0593	mg/L	0.00028 0.47%
Sn 189.927†	-58.8	-0.00837	mg/L	0.001192	-0.00837	mg/L	0.001192 14.25%
Ti 334.940†	2793.6	0.00369	mg/L	0.000086	0.00369	mg/L	0.000086 2.32%
Tl 190.801†	-7.9	-0.00753	mg/L	0.002068	-0.00753	mg/L	0.002068 27.48%
V 290.880†	-80.4	-0.00185	mg/L	0.000743	-0.00185	mg/L	0.000743 40.20%
Zn 206.200†	-26.8	-0.00125	mg/L	0.000076	-0.00125	mg/L	0.000076 6.12%
K 766.490†	46.4	0.0382	mg/L	0.02379	0.0382	mg/L	0.02379 62.22%
Na 589.592†	1238.5	0.0943	mg/L	0.01124	0.0943	mg/L	0.01124 11.92%
Sr 407.771†	362.3	-0.00030	mg/L	0.000064	-0.00030	mg/L	0.000064 21.11%
Li 670.784†	-55.8	-0.00228	mg/L	0.000858	-0.00228	mg/L	0.000858 37.70%

Sequence No.: 40 **Autosampler Location: 92**
Sample ID: L1102049201 **Date Collected: 2/23/2011 7:15:22 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102049201

Analyte	Back Pressure	Flow
All	165.0 kPa	0.50 L/min

Mean Data: L1102049201

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5086040.0						54206.07	1.07%
YRADIAL	291401.5						2676.50	0.92%
Ga 417.206	1333226.0						4051.95	0.30%
GaRADIAL	63785.1						1850.12	2.90%
Ag 328.068†	-194.5	-0.00170	mg/L	0.000239	-0.00170	mg/L	0.000239	14.03%
Al 396.153†	399.0	0.0731	mg/L	0.02033	0.0731	mg/L	0.02033	27.79%
As 188.979†	0.1	0.00045	mg/L	0.000973	0.00045	mg/L	0.000973	214.87%
Ba 233.527†	58.0	0.00047	mg/L	0.000094	0.00047	mg/L	0.000094	20.00%
Be 234.861†	-27.8	-0.00007	mg/L	0.000001	-0.00007	mg/L	0.000001	1.92%
B 249.677†	70.2	0.00543	mg/L	0.001262	0.00543	mg/L	0.001262	23.23%
Ca 227.546†	120.3	1.10	mg/L	0.015	1.10	mg/L	0.015	1.40%
Cd 228.802†	4.6	0.00032	mg/L	0.000126	0.00032	mg/L	0.000126	39.23%
Co 228.616†	-12.2	-0.00021	mg/L	0.000403	-0.00021	mg/L	0.000403	192.24%
Cr 267.716†	129.0	0.00088	mg/L	0.000100	0.00088	mg/L	0.000100	11.39%
Cu 327.393†	943.7	0.00654	mg/L	0.000344	0.00654	mg/L	0.000344	5.26%
Fe 239.562†	64.4	0.150	mg/L	0.0033	0.150	mg/L	0.0033	2.22%
Mg 279.077†	426.7	0.541	mg/L	0.0130	0.541	mg/L	0.0130	2.41%
Mn 257.610†	9428.1	0.0207	mg/L	0.00036	0.0207	mg/L	0.00036	1.72%
Mo 202.031†	53.3	0.00317	mg/L	0.000620	0.00317	mg/L	0.000620	19.57%
Ni 231.604†	11.1	0.00018	mg/L	0.000172	0.00018	mg/L	0.000172	97.36%
Pb 220.353†	11.8	0.00136	mg/L	0.001045	0.00136	mg/L	0.001045	76.83%
Sb 206.836†	8.3	0.00507	mg/L	0.000544	0.00507	mg/L	0.000544	10.72%
Se 196.026†	-10.5	-0.00280	mg/L	0.004666	-0.00280	mg/L	0.004666	166.72%
Si 251.611†	14162.5	0.410	mg/L	0.0059	0.410	mg/L	0.0059	1.45%
Sn 189.927†	-51.4	-0.00710	mg/L	0.000342	-0.00710	mg/L	0.000342	4.81%
Ti 334.940†	7279.9	0.00988	mg/L	0.000212	0.00988	mg/L	0.000212	2.14%
Tl 190.801†	-1.3	-0.00368	mg/L	0.002785	-0.00368	mg/L	0.002785	75.73%
V 290.880†	34.8	-0.00109	mg/L	0.000631	-0.00109	mg/L	0.000631	58.11%
Zn 206.200†	1267.2	0.0376	mg/L	0.00057	0.0376	mg/L	0.00057	1.53%
K 766.490†	1146.1	0.477	mg/L	0.0382	0.477	mg/L	0.0382	8.02%
Na 589.592†	8984.9	0.679	mg/L	0.0196	0.679	mg/L	0.0196	2.89%
Sr 407.771†	3791.5	0.00309	mg/L	0.000228	0.00309	mg/L	0.000228	7.37%
Li 670.784†	-20.9	-0.00182	mg/L	0.001272	-0.00182	mg/L	0.001272	70.05%

Sequence No.: 41 **Autosampler Location: 93**
Sample ID: L1102049201PS WG357223-03 **Date Collected: 2/23/2011 7:22:02 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102049201PS WG357223-03

Analyte	Back Pressure	Flow

Approved: February 24, 2011

Pierre Morris

All 166.0 kPa 0.50 L/min

Mean Data: L1102049201PS WG357223-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5029293.1						56657.47	1.13%
YRADIAL	300901.5						1953.38	0.65%
Ga 417.206	1298590.6						16906.44	1.30%
GaRADIAL	65479.5						831.21	1.27%
Ag 328.068†	38131.5	0.192	mg/L	0.0043	0.192	mg/L	0.0043	2.24%
Al 396.153†	22169.7	4.70	mg/L	0.039	4.70	mg/L	0.039	0.83%
As 188.979†	201.9	0.183	mg/L	0.0015	0.183	mg/L	0.0015	0.83%
Ba 233.527†	28298.6	0.480	mg/L	0.0059	0.480	mg/L	0.0059	1.22%
Be 234.861†	13266.6	0.0233	mg/L	0.00012	0.0233	mg/L	0.00012	0.51%
B 249.677†	48878.2	0.932	mg/L	0.0167	0.932	mg/L	0.0167	1.79%
Ca 227.546†	606.9	5.87	mg/L	0.111	5.87	mg/L	0.111	1.90%
Cd 228.802†	418.3	0.0235	mg/L	0.00039	0.0235	mg/L	0.00039	1.67%
Co 228.616†	1847.6	0.0921	mg/L	0.00119	0.0921	mg/L	0.00119	1.30%
Cr 267.716†	27702.9	0.239	mg/L	0.0026	0.239	mg/L	0.0026	1.09%
Cu 327.393†	35636.5	0.244	mg/L	0.0056	0.244	mg/L	0.0056	2.29%
Fe 239.562†	816.0	1.93	mg/L	0.014	1.93	mg/L	0.014	0.74%
Mg 279.077†	3968.5	5.09	mg/L	0.036	5.09	mg/L	0.036	0.70%
Mn 257.610†	117489.9	0.264	mg/L	0.0030	0.264	mg/L	0.0030	1.14%
Mo 202.031†	6573.0	0.485	mg/L	0.0045	0.485	mg/L	0.0045	0.92%
Ni 231.604†	8272.5	0.239	mg/L	0.0029	0.239	mg/L	0.0029	1.19%
Pb 220.353†	1421.1	0.237	mg/L	0.0033	0.237	mg/L	0.0033	1.41%
Sb 206.836†	910.5	0.569	mg/L	0.0074	0.569	mg/L	0.0074	1.30%
Se 196.026†	254.0	0.183	mg/L	0.0024	0.183	mg/L	0.0024	1.32%
Si 251.611†	96713.1	2.80	mg/L	0.052	2.80	mg/L	0.052	1.85%
Sn 189.927†	-58.8	-0.00837	mg/L	0.000459	-0.00837	mg/L	0.000459	5.49%
Ti 334.940†	345816.9	0.477	mg/L	0.0017	0.477	mg/L	0.0017	0.36%
Tl 190.801†	401.1	0.236	mg/L	0.0049	0.236	mg/L	0.0049	2.08%
V 290.880†	71936.2	0.480	mg/L	0.0054	0.480	mg/L	0.0054	1.12%
Zn 206.200†	16706.9	0.502	mg/L	0.0024	0.502	mg/L	0.0024	0.48%
K 766.490†	58099.0	23.3	mg/L	0.11	23.3	mg/L	0.11	0.46%
Na 589.592†	306173.9	23.4	mg/L	0.27	23.4	mg/L	0.27	1.14%
Sr 407.771†	487491.6	0.481	mg/L	0.0288	0.481	mg/L	0.0288	6.00%
Li 670.784†	35143.9	0.461	mg/L	0.0031	0.461	mg/L	0.0031	0.68%

==========

Sequence No.: 42 **Autosampler Location: 94**
Sample ID: L1102049201DL WG357223-04 **Date Collected: 2/23/2011 7:28:45 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102049201DL WG357223-04

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102049201DL WG357223-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5023350.2						33797.58	0.67%
YRADIAL	292417.6						5121.95	1.75%
Ga 417.206	1294429.5						15809.09	1.22%
GaRADIAL	63177.1						1748.64	2.77%
Ag 328.068†	-96.9	-0.00120	mg/L	0.000508	-0.00120	mg/L	0.000508	42.37%
Al 396.153†	94.7	0.00833	mg/L	0.014209	0.00833	mg/L	0.014209	170.55%
As 188.979†	1.2	0.00151	mg/L	0.001145	0.00151	mg/L	0.001145	76.02%
Ba 233.527†	12.2	-0.00030	mg/L	0.000095	-0.00030	mg/L	0.000095	31.35%
Be 234.861†	-3.8	-0.00001	mg/L	0.000033	-0.00001	mg/L	0.000033	362.77%
B 249.677†	253.1	0.00842	mg/L	0.000523	0.00842	mg/L	0.000523	6.21%
Ca 227.546†	20.1	0.157	mg/L	0.0552	0.157	mg/L	0.0552	35.07%
Cd 228.802†	-1.0	0.00000	mg/L	0.000065	0.00000	mg/L	0.000065	>999.9%
Co 228.616†	-6.5	0.00010	mg/L	0.000321	0.00010	mg/L	0.000321	323.55%
Cr 267.716†	28.2	0.00002	mg/L	0.000143	0.00002	mg/L	0.000143	767.88%
Cu 327.393†	211.3	0.00152	mg/L	0.000660	0.00152	mg/L	0.000660	43.52%
Fe 239.562†	14.4	0.0321	mg/L	0.00611	0.0321	mg/L	0.00611	19.06%
Mg 279.077†	91.1	0.110	mg/L	0.0058	0.110	mg/L	0.0058	5.30%

Approved: February 24, 2011

Pierre Morris

Mn 257.610†	1938.3	0.00399	mg/L	0.000017	0.00399	mg/L	0.000017	0.43%
Mo 202.031†	11.3	0.00006	mg/L	0.000334	0.00006	mg/L	0.000334	550.50%
Ni 231.604†	7.0	0.00005	mg/L	0.000395	0.00005	mg/L	0.000395	728.20%
Pb 220.353†	3.0	-0.00015	mg/L	0.000445	-0.00015	mg/L	0.000445	297.94%
Sb 206.836†	-0.1	-0.00017	mg/L	0.002043	-0.00017	mg/L	0.002043	>999.9%
Se 196.026†	-4.0	0.00145	mg/L	0.001444	0.00145	mg/L	0.001444	99.46%
Si 251.611†	2955.1	0.0843	mg/L	0.00347	0.0843	mg/L	0.00347	4.11%
Sn 189.927†	-65.6	-0.00953	mg/L	0.000260	-0.00953	mg/L	0.000260	2.73%
Ti 334.940†	1386.3	0.00175	mg/L	0.000138	0.00175	mg/L	0.000138	7.87%
Tl 190.801†	4.0	-0.00059	mg/L	0.003577	-0.00059	mg/L	0.003577	606.10%
V 290.880†	127.2	-0.00048	mg/L	0.001655	-0.00048	mg/L	0.001655	348.16%
Zn 206.200†	153.5	0.00417	mg/L	0.000145	0.00417	mg/L	0.000145	3.47%
K 766.490†	173.9	0.0891	mg/L	0.02023	0.0891	mg/L	0.02023	22.72%
Na 589.592†	2268.2	0.172	mg/L	0.0078	0.172	mg/L	0.0078	4.51%
Sr 407.771†	1135.5	0.00048	mg/L	0.000159	0.00048	mg/L	0.000159	32.91%
Li 670.784†	75.1	-0.00055	mg/L	0.000403	-0.00055	mg/L	0.000403	73.18%

Sequence No.: 43 **Autosampler Location: 95**
Sample ID: L1102053501 WG357204-01 **Date Collected: 2/23/2011 7:35:23 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102053501 WG357204-01

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102053501 WG357204-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4893055.3						36665.86	0.75%
YRADIAL	287517.0						3074.40	1.07%
Ga 417.206	1290817.0						6423.19	0.50%
GaRADIAL	62707.2						1166.08	1.86%
Ag 328.068†	781.1	0.00322	mg/L	0.000220	0.00322	mg/L	0.000220	6.85%
Al 396.153†	25.8	-0.00633	mg/L	0.006347	-0.00633	mg/L	0.006347	100.22%
As 188.979†	12.2	0.00748	mg/L	0.000676	0.00748	mg/L	0.000676	9.04%
Ba 233.527†	3227.9	0.0541	mg/L	0.00041	0.0541	mg/L	0.00041	0.76%
Be 234.861†	-30.7	-0.00006	mg/L	0.000018	-0.00006	mg/L	0.000018	28.81%
B 249.677†	1302.9	0.0284	mg/L	0.00010	0.0284	mg/L	0.00010	0.34%
Ca 227.546†	21211.0	201	mg/L	3.3	201	mg/L	3.3	1.65%
Cd 228.802†	-1.8	-0.00012	mg/L	0.000176	-0.00012	mg/L	0.000176	149.73%
Co 228.616†	-11.1	-0.00015	mg/L	0.000132	-0.00015	mg/L	0.000132	86.75%
Cr 267.716†	28.9	0.00002	mg/L	0.000111	0.00002	mg/L	0.000111	452.95%
Cu 327.393†	-606.5	-0.00406	mg/L	0.000831	-0.00406	mg/L	0.000831	20.47%
Fe 239.562†	22.2	0.0504	mg/L	0.00197	0.0504	mg/L	0.00197	3.91%
Mg 279.077†	1467.2	1.88	mg/L	0.023	1.88	mg/L	0.023	1.23%
Mn 257.610†	2450.1	0.00522	mg/L	0.000034	0.00522	mg/L	0.000034	0.64%
Mo 202.031†	-4.6	-0.00111	mg/L	0.000119	-0.00111	mg/L	0.000119	10.73%
Ni 231.604†	25.1	0.00053	mg/L	0.000255	0.00053	mg/L	0.000255	48.01%
Pb 220.353†	-22.5	0.00524	mg/L	0.000821	0.00524	mg/L	0.000821	15.68%
Sb 206.836†	22.0	0.0136	mg/L	0.00333	0.0136	mg/L	0.00333	24.52%
Se 196.026†	-43.3	0.0242	mg/L	0.00081	0.0242	mg/L	0.00081	3.35%
Si 251.611†	10965.7	0.317	mg/L	0.0057	0.317	mg/L	0.0057	1.80%
Sn 189.927†	-65.9	-0.00957	mg/L	0.001061	-0.00957	mg/L	0.001061	11.09%
Ti 334.940†	568.4	0.00263	mg/L	0.000305	0.00263	mg/L	0.000305	11.62%
Tl 190.801†	132.4	0.0561	mg/L	0.00138	0.0561	mg/L	0.00138	2.46%
V 290.880†	54.0	-0.00097	mg/L	0.000300	-0.00097	mg/L	0.000300	31.00%
Zn 206.200†	334.8	0.00961	mg/L	0.000217	0.00961	mg/L	0.000217	2.26%
K 766.490†	530.9	0.230	mg/L	0.0517	0.230	mg/L	0.0517	22.49%
Na 589.592†	21281.9	1.61	mg/L	0.010	1.61	mg/L	0.010	0.62%
Sr 407.771†	68739.1	0.0673	mg/L	0.00451	0.0673	mg/L	0.00451	6.70%
Li 670.784†	33.3	-0.00110	mg/L	0.001001	-0.00110	mg/L	0.001001	90.83%

Sequence No.: 44 **Autosampler Location: 96**
Sample ID: L1102053501S WG357204-04 **Date Collected: 2/23/2011 7:42:02 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: February 24, 2011

Pierre Morris

Nebulizer Parameters: L1102053501S WG357204-04

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102053501S WG357204-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4875605.7						37606.54	0.77%
YRADIAL	285493.4						5604.60	1.96%
Ga 417.206	1311874.9						9888.72	0.75%
GaRADIAL	62883.4						953.49	1.52%
Ag 328.068†	37271.6	0.188	mg/L	0.0021	0.188	mg/L	0.0021	1.12%
Al 396.153†	23082.1	4.90	mg/L	0.040	4.90	mg/L	0.040	0.81%
As 188.979†	205.0	0.182	mg/L	0.0026	0.182	mg/L	0.0026	1.44%
Ba 233.527†	29980.1	0.508	mg/L	0.0061	0.508	mg/L	0.0061	1.21%
Be 234.861†	12778.7	0.0225	mg/L	0.00038	0.0225	mg/L	0.00038	1.68%
B 249.677†	47613.2	0.908	mg/L	0.0155	0.908	mg/L	0.0155	1.71%
Ca 227.546†	20981.7	199	mg/L	3.3	199	mg/L	3.3	1.66%
Cd 228.802†	399.0	0.0224	mg/L	0.00029	0.0224	mg/L	0.00029	1.28%
Co 228.616†	1793.5	0.0894	mg/L	0.00043	0.0894	mg/L	0.00043	0.48%
Cr 267.716†	26691.5	0.230	mg/L	0.0022	0.230	mg/L	0.0022	0.96%
Cu 327.393†	31888.4	0.219	mg/L	0.0033	0.219	mg/L	0.0033	1.53%
Fe 239.562†	832.5	1.97	mg/L	0.027	1.97	mg/L	0.027	1.39%
Mg 279.077†	5111.7	6.56	mg/L	0.088	6.56	mg/L	0.088	1.33%
Mn 257.610†	107530.3	0.241	mg/L	0.0031	0.241	mg/L	0.0031	1.29%
Mo 202.031†	6532.5	0.482	mg/L	0.0039	0.482	mg/L	0.0039	0.82%
Ni 231.604†	8002.8	0.231	mg/L	0.0014	0.231	mg/L	0.0014	0.63%
Pb 220.353†	1351.2	0.235	mg/L	0.0032	0.235	mg/L	0.0032	1.36%
Sb 206.836†	886.7	0.554	mg/L	0.0052	0.554	mg/L	0.0052	0.95%
Se 196.026†	216.8	0.205	mg/L	0.0044	0.205	mg/L	0.0044	2.15%
Si 251.611†	101032.5	2.92	mg/L	0.041	2.92	mg/L	0.041	1.39%
Sn 189.927†	-57.8	-0.00819	mg/L	0.000520	-0.00819	mg/L	0.000520	6.34%
Ti 334.940†	345096.7	0.478	mg/L	0.0057	0.478	mg/L	0.0057	1.20%
Tl 190.801†	514.3	0.284	mg/L	0.0015	0.284	mg/L	0.0015	0.54%
V 290.880†	70694.3	0.471	mg/L	0.0079	0.471	mg/L	0.0079	1.68%
Zn 206.200†	15300.8	0.460	mg/L	0.0080	0.460	mg/L	0.0080	1.74%
K 766.490†	59215.3	23.7	mg/L	0.13	23.7	mg/L	0.13	0.55%
Na 589.592†	325014.0	24.8	mg/L	0.26	24.8	mg/L	0.26	1.03%
Sr 407.771†	556866.8	0.549	mg/L	0.0402	0.549	mg/L	0.0402	7.33%
Li 670.784†	36066.4	0.473	mg/L	0.0070	0.473	mg/L	0.0070	1.49%

Sequence No.: 45 WG357204-05 **Autosampler Location: 97**
Sample ID: L1102053501SD ~~**WG357204-01**~~ **Date Collected: 2/23/2011 7:48:44 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

WG357204-05

Nebulizer Parameters: L1102053501SD ~~**WG357204-01**~~

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

WG357204-05

Mean Data: L1102053501SD ~~**WG357204-01**~~

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4815209.8						55642.88	1.16%
YRADIAL	279414.6						3645.97	1.30%
Ga 417.206	1279424.1						20276.81	1.58%
GaRADIAL	62162.7						661.89	1.06%
Ag 328.068†	38574.1	0.194	mg/L	0.0032	0.194	mg/L	0.0032	1.67%
Al 396.153†	23393.4	4.97	mg/L	0.055	4.97	mg/L	0.055	1.11%
As 188.979†	213.8	0.190	mg/L	0.0046	0.190	mg/L	0.0046	2.42%
Ba 233.527†	30856.6	0.523	mg/L	0.0038	0.523	mg/L	0.0038	0.72%
Be 234.861†	13366.3	0.0234	mg/L	0.00046	0.0234	mg/L	0.00046	1.94%
B 249.677†	49972.8	0.954	mg/L	0.0109	0.954	mg/L	0.0109	1.14%
Ca 227.546†	21900.4	207	mg/L	2.4	207	mg/L	2.4	1.14%
Cd 228.802†	406.9	0.0228	mg/L	0.00048	0.0228	mg/L	0.00048	2.12%
Co 228.616†	1823.3	0.0908	mg/L	0.00167	0.0908	mg/L	0.00167	1.84%

Approved: February 24, 2011

Pierre Morris

Cr 267.716†	27487.4	0.237 mg/L	0.0014	0.237 mg/L	0.0014	0.59%
Cu 327.393†	33663.9	0.231 mg/L	0.0038	0.231 mg/L	0.0038	1.66%
Fe 239.562†	945.8	2.23 mg/L	0.027	2.23 mg/L	0.027	1.22%
Mg 279.077†	5284.0	6.78 mg/L	0.061	6.78 mg/L	0.061	0.90%
Mn 257.610†	111680.3	0.251 mg/L	0.0017	0.251 mg/L	0.0017	0.70%
Mo 202.031†	6630.5	0.489 mg/L	0.0087	0.489 mg/L	0.0087	1.77%
Ni 231.604†	8167.8	0.236 mg/L	0.0037	0.236 mg/L	0.0037	1.55%
Pb 220.353†	1382.7	0.240 mg/L	0.0045	0.240 mg/L	0.0045	1.87%
Sb 206.836†	913.1	0.570 mg/L	0.0139	0.570 mg/L	0.0139	2.44%
Se 196.026†	219.9	0.210 mg/L	0.0041	0.210 mg/L	0.0041	1.97%
Si 251.611†	95439.9	2.76 mg/L	0.037	2.76 mg/L	0.037	1.34%
Sn 189.927†	-68.8	-0.0101 mg/L	0.00027	-0.0101 mg/L	0.00027	2.69%
Ti 334.940†	351907.9	0.487 mg/L	0.0003	0.487 mg/L	0.0003	0.05%
Tl 190.801†	520.0	0.287 mg/L	0.0040	0.287 mg/L	0.0040	1.40%
V 290.880†	72732.4	0.485 mg/L	0.0041	0.485 mg/L	0.0041	0.84%
Zn 206.200†	15633.6	0.470 mg/L	0.0036	0.470 mg/L	0.0036	0.76%
K 766.490†	60322.8	24.2 mg/L	0.12	24.2 mg/L	0.12	0.48%
Na 589.592†	346159.6	26.5 mg/L	0.45	26.5 mg/L	0.45	1.68%
Sr 407.771†	612959.1	0.605 mg/L	0.0495	0.605 mg/L	0.0495	8.20%
Li 670.784†	36220.2	0.475 mg/L	0.0061	0.475 mg/L	0.0061	1.29%

Sequence No.: 46 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/23/2011 7:55:29 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4798492.4						90367.37	1.88%
YRADIAL	286549.2						4208.19	1.47%
Ga 417.206	1265121.6						26332.56	2.08%
GaRADIAL	61912.2						1369.86	2.21%
Ag 328.068†	77614.5	0.392	mg/L	0.0109	0.392	mg/L	0.0109	2.77%
QC value within limits for Ag 328.068 Recovery = 98.00%								
Al 396.153†	46589.3	9.90	mg/L	0.042	9.90	mg/L	0.042	0.43%
QC value within limits for Al 396.153 Recovery = 99.00%								
As 188.979†	423.1	0.383	mg/L	0.0122	0.383	mg/L	0.0122	3.18%
QC value within limits for As 188.979 Recovery = 95.81%								
Ba 233.527†	57959.6	0.983	mg/L	0.0196	0.983	mg/L	0.0196	2.00%
QC value within limits for Ba 233.527 Recovery = 98.30%								
Be 234.861†	27840.2	0.0489	mg/L	0.00135	0.0489	mg/L	0.00135	2.76%
QC value within limits for Be 234.861 Recovery = 97.83%								
B 249.677†	25837.8	0.498	mg/L	0.0140	0.498	mg/L	0.0140	2.81%
QC value within limits for B 249.677 Recovery = 99.64%								
Ca 227.546†	1028.8	10.0	mg/L	0.28	10.0	mg/L	0.28	2.81%
QC value within limits for Ca 227.546 Recovery = 100.28%								
Cd 228.802†	870.8	0.0488	mg/L	0.00113	0.0488	mg/L	0.00113	2.32%
QC value within limits for Cd 228.802 Recovery = 97.59%								
Co 228.616†	3822.0	0.190	mg/L	0.0038	0.190	mg/L	0.0038	2.02%
QC value within limits for Co 228.616 Recovery = 95.06%								
Cr 267.716†	56512.6	0.487	mg/L	0.0090	0.487	mg/L	0.0090	1.85%
QC value within limits for Cr 267.716 Recovery = 97.44%								
Cu 327.393†	69825.3	0.479	mg/L	0.0155	0.479	mg/L	0.0155	3.23%
QC value within limits for Cu 327.393 Recovery = 95.75%								
Fe 239.562†	1610.3	3.81	mg/L	0.084	3.81	mg/L	0.084	2.20%
QC value within limits for Fe 239.562 Recovery = 95.16%								
Mg 279.077†	7498.8	9.62	mg/L	0.151	9.62	mg/L	0.151	1.57%
QC value within limits for Mg 279.077 Recovery = 96.24%								
Mn 257.610†	220360.9	0.495	mg/L	0.0110	0.495	mg/L	0.0110	2.22%
QC value within limits for Mn 257.610 Recovery = 98.97%								
Mo 202.031†	13224.7	0.976	mg/L	0.0148	0.976	mg/L	0.0148	1.51%
QC value within limits for Mo 202.031 Recovery = 97.64%								
Ni 231.604†	17000.7	0.491	mg/L	0.0074	0.491	mg/L	0.0074	1.52%
QC value within limits for Ni 231.604 Recovery = 98.13%								

Approved: February 24, 2011

Pierre Morris

Pb 220.353†	2940.2	0.491 mg/L	0.0114	0.491 mg/L	0.0114	2.33%
QC value within limits for Pb 220.353 Recovery = 98.15%						
Sb 206.836†	1848.1	1.15 mg/L	0.030	1.15 mg/L	0.030	2.58%
QC value within limits for Sb 206.836 Recovery = 96.19%						
Se 196.026†	549.2	0.390 mg/L	0.0128	0.390 mg/L	0.0128	3.29%
QC value within limits for Se 196.026 Recovery = 97.44%						
Si 251.611†	166046.2	4.80 mg/L	0.129	4.80 mg/L	0.129	2.68%
QC value within limits for Si 251.611 Recovery = 96.09%						
Sn 189.927†	5764.3	0.986 mg/L	0.0190	0.986 mg/L	0.0190	1.93%
QC value within limits for Sn 189.927 Recovery = 98.55%						
Ti 334.940†	705060.6	0.972 mg/L	0.0045	0.972 mg/L	0.0045	0.47%
QC value within limits for Ti 334.940 Recovery = 97.19%						
Tl 190.801†	838.7	0.496 mg/L	0.0137	0.496 mg/L	0.0137	2.76%
QC value within limits for Tl 190.801 Recovery = 99.27%						
V 290.880†	146334.8	0.977 mg/L	0.0215	0.977 mg/L	0.0215	2.20%
QC value within limits for V 290.880 Recovery = 97.68%						
Zn 206.200†	32714.3	0.984 mg/L	0.0174	0.984 mg/L	0.0174	1.77%
QC value within limits for Zn 206.200 Recovery = 98.36%						
K 766.490†	121032.3	48.7 mg/L	0.27	48.7 mg/L	0.27	0.55%
QC value within limits for K 766.490 Recovery = 97.47%						
Na 589.592†	629910.3	48.7 mg/L	0.64	48.7 mg/L	0.64	1.31%
QC value within limits for Na 589.592 Recovery = 97.42%						
Sr 407.771†	1031242.8	1.02 mg/L	0.070	1.02 mg/L	0.070	6.92%
QC value within limits for Sr 407.771 Recovery = 101.75%						
Li 670.784†	74500.8	0.979 mg/L	0.0021	0.979 mg/L	0.0021	0.22%
QC value within limits for Li 670.784 Recovery = 97.94%						

All analyte(s) passed QC.

Sequence No.: 47 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/23/2011 8:02:13 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5088294.6						69015.74	1.36%
YRADIAL	291320.9						5396.92	1.85%
Ga 417.206	1338868.4						20447.95	1.53%
GaRADIAL	62905.2						1811.86	2.88%
Ag 328.068†	-104.4	-0.00123	mg/L	0.000060	-0.00123	mg/L	0.000060	4.89%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	10.5	-0.00959	mg/L	0.001719	-0.00959	mg/L	0.001719	17.92%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-2.7	-0.00207	mg/L	0.000331	-0.00207	mg/L	0.000331	15.97%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	1.6	-0.00049	mg/L	0.000028	-0.00049	mg/L	0.000028	5.70%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	39.5	0.00007	mg/L	0.000045	0.00007	mg/L	0.000045	62.73%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	536.3	0.0137	mg/L	0.00051	0.0137	mg/L	0.00051	3.75%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	0.9	-0.0246	mg/L	0.04721	-0.0246	mg/L	0.04721	191.87%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-1.2	0.00001	mg/L	0.000032	0.00001	mg/L	0.000032	301.86%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-5.5	0.00015	mg/L	0.000184	0.00015	mg/L	0.000184	120.35%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	14.5	-0.00010	mg/L	0.000042	-0.00010	mg/L	0.000042	43.24%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-12.3	-0.00002	mg/L	0.000283	-0.00002	mg/L	0.000283	>999.9%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	1.5	0.00157	mg/L	0.002810	0.00157	mg/L	0.002810	178.73%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	1.2	-0.00561	mg/L	0.007465	-0.00561	mg/L	0.007465	133.07%

Approved: February 24, 2011

Pierre Morris

QC value within limits for Mg 279.077 Recovery = Not calculated

Mn 257.610†	32.2	-0.00027 mg/L	0.000008	-0.00027 mg/L	0.000008	2.91%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	3.7	-0.00050 mg/L	0.000326	-0.00050 mg/L	0.000326	65.27%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	1.5	-0.00010 mg/L	0.000152	-0.00010 mg/L	0.000152	150.38%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	3.1	-0.00015 mg/L	0.000168	-0.00015 mg/L	0.000168	115.74%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-0.7	-0.00057 mg/L	0.001910	-0.00057 mg/L	0.001910	333.70%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-3.0	0.00210 mg/L	0.004363	0.00210 mg/L	0.004363	207.37%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-39.6	-0.00260 mg/L	0.000351	-0.00260 mg/L	0.000351	13.48%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-71.5	-0.0105 mg/L	0.00033	-0.0105 mg/L	0.00033	3.09%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 334.940†	-133.1	-0.00035 mg/L	0.000124	-0.00035 mg/L	0.000124	35.51%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-2.6	-0.00446 mg/L	0.003525	-0.00446 mg/L	0.003525	79.09%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 290.880†	79.3	-0.00080 mg/L	0.000458	-0.00080 mg/L	0.000458	57.43%
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	-197.4	-0.00636 mg/L	0.000038	-0.00636 mg/L	0.000038	0.59%
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490†	84.8	0.0536 mg/L	0.02698	0.0536 mg/L	0.02698	50.31%
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592†	201.6	0.0160 mg/L	0.01498	0.0160 mg/L	0.01498	93.56%
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771†	304.3	-0.00033 mg/L	0.000308	-0.00033 mg/L	0.000308	92.38%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li 670.784†	71.1	-0.00060 mg/L	0.000449	-0.00060 mg/L	0.000449	74.33%
QC value within limits for Li 670.784 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 48 **Autosampler Location: 98**
Sample ID: PBW 82 WG357047-02 **Date Collected: 2/23/2011 8:08:50 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: PBW 82 WG357047-02

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: PBW 82 WG357047-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5138099.9						27391.78	0.53%
YRADIAL	299398.2						6288.19	2.10%
Ga 417.206	1394895.1						24961.86	1.79%
GaRADIAL	64916.3						1713.08	2.64%
Ag 328.068†	-76.1	-0.00109	mg/L	0.000423	-0.00109	mg/L	0.000423	38.69%
Al 396.153†	99.7	0.00941	mg/L	0.017179	0.00941	mg/L	0.017179	182.58%
As 188.979†	-0.9	-0.00043	mg/L	0.001824	-0.00043	mg/L	0.001824	422.42%
Ba 233.527†	23.3	-0.00012	mg/L	0.000137	-0.00012	mg/L	0.000137	115.91%
Be 234.861†	63.7	0.00011	mg/L	0.000031	0.00011	mg/L	0.000031	27.99%
B 249.677†	273.2	0.00868	mg/L	0.001218	0.00868	mg/L	0.001218	14.04%
Ca 227.546†	9.3	0.0548	mg/L	0.05379	0.0548	mg/L	0.05379	98.19%
Cd 228.802†	-3.5	-0.00013	mg/L	0.000145	-0.00013	mg/L	0.000145	111.13%
Co 228.616†	-2.9	0.00028	mg/L	0.000157	0.00028	mg/L	0.000157	55.27%
Cr 267.716†	3.2	-0.00020	mg/L	0.000090	-0.00020	mg/L	0.000090	45.69%
Cu 327.393†	83.6	0.00064	mg/L	0.000727	0.00064	mg/L	0.000727	113.74%
Fe 239.562†	3.3	0.00585	mg/L	0.002931	0.00585	mg/L	0.002931	50.12%
Mg 279.077†	8.9	0.00430	mg/L	0.002954	0.00430	mg/L	0.002954	68.67%
Mn 257.610†	67.0	-0.00020	mg/L	0.000018	-0.00020	mg/L	0.000018	9.42%
Mo 202.031†	1.2	-0.00069	mg/L	0.000720	-0.00069	mg/L	0.000720	104.52%
Ni 231.604†	8.1	0.00009	mg/L	0.000041	0.00009	mg/L	0.000041	46.24%
Pb 220.353†	8.7	0.00078	mg/L	0.000645	0.00078	mg/L	0.000645	82.59%
Sb 206.836†	-1.9	-0.00132	mg/L	0.003869	-0.00132	mg/L	0.003869	292.07%

Approved: February 24, 2011

Pierce Morris

Se 196.026†	-4.7	0.00094 mg/L	0.002234	0.00094 mg/L	0.002234	238.74%
Si 251.611†	250.4	0.00582 mg/L	0.000536	0.00582 mg/L	0.000536	9.21%
Sn 189.927†	-79.6	-0.0119 mg/L	0.00015	-0.0119 mg/L	0.00015	1.23%
Ti 334.940†	161.8	0.00006 mg/L	0.000063	0.00006 mg/L	0.000063	106.18%
Tl 190.801†	2.1	-0.00176 mg/L	0.002966	-0.00176 mg/L	0.002966	168.99%
V 290.880†	89.2	-0.00073 mg/L	0.000573	-0.00073 mg/L	0.000573	78.42%
Zn 206.200†	-119.3	-0.00402 mg/L	0.000148	-0.00402 mg/L	0.000148	3.69%
K 766.490†	-66.6	-0.00676 mg/L	0.036373	-0.00676 mg/L	0.036373	537.94%
Na 589.592†	64.9	0.00570 mg/L	0.011680	0.00570 mg/L	0.011680	205.01%
Sr 407.771†	134.6	-0.00050 mg/L	0.000047	-0.00050 mg/L	0.000047	9.38%
Li 670.784†	72.1	-0.00059 mg/L	0.001198	-0.00059 mg/L	0.001198	202.60%

Sequence No.: 49 **Autosampler Location: 99**
Sample ID: LCSW 82 WG357047-03 **Date Collected: 2/23/2011 8:15:32 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: LCSW 82 WG357047-03

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: LCSW 82 WG357047-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4970087.1						3057.09	0.06%
YRADIAL	296481.5						4527.21	1.53%
Ga 417.206	1345079.1						3921.06	0.29%
GaRADIAL	64408.4						753.78	1.17%
Ag 328.068†	38494.1	0.194	mg/L	0.0019	0.194	mg/L	0.0019	0.96%
Al 396.153†	23170.8	4.92	mg/L	0.026	4.92	mg/L	0.026	0.53%
As 188.979†	200.4	0.182	mg/L	0.0008	0.182	mg/L	0.0008	0.43%
Ba 233.527†	29227.9	0.495	mg/L	0.0058	0.495	mg/L	0.0058	1.17%
Be 234.861†	13688.9	0.0241	mg/L	0.00035	0.0241	mg/L	0.00035	1.47%
B 249.677†	52200.5	0.994	mg/L	0.0069	0.994	mg/L	0.0069	0.69%
Ca 227.546†	492.3	4.79	mg/L	0.065	4.79	mg/L	0.065	1.36%
Cd 228.802†	411.6	0.0231	mg/L	0.00005	0.0231	mg/L	0.00005	0.22%
Co 228.616†	1894.7	0.0944	mg/L	0.00019	0.0944	mg/L	0.00019	0.20%
Cr 267.716†	28291.8	0.244	mg/L	0.0021	0.244	mg/L	0.0021	0.88%
Cu 327.393†	34637.5	0.238	mg/L	0.0024	0.238	mg/L	0.0024	0.99%
Fe 239.562†	791.4	1.87	mg/L	0.031	1.87	mg/L	0.031	1.64%
Mg 279.077†	3737.8	4.79	mg/L	0.082	4.79	mg/L	0.082	1.71%
Mn 257.610†	111477.6	0.250	mg/L	0.0025	0.250	mg/L	0.0025	1.01%
Mo 202.031†	6648.6	0.490	mg/L	0.0079	0.490	mg/L	0.0079	1.60%
Ni 231.604†	8655.7	0.250	mg/L	0.0030	0.250	mg/L	0.0030	1.21%
Pb 220.353†	1455.4	0.243	mg/L	0.0009	0.243	mg/L	0.0009	0.36%
Sb 206.836†	893.4	0.558	mg/L	0.0027	0.558	mg/L	0.0027	0.49%
Se 196.026†	261.7	0.188	mg/L	0.0019	0.188	mg/L	0.0019	0.99%
Si 251.611†	84237.3	2.44	mg/L	0.027	2.44	mg/L	0.027	1.11%
Sn 189.927†	2974.0	0.509	mg/L	0.0019	0.509	mg/L	0.0019	0.37%
Ti 334.940†	357867.1	0.493	mg/L	0.0066	0.493	mg/L	0.0066	1.34%
Tl 190.801†	423.5	0.249	mg/L	0.0014	0.249	mg/L	0.0014	0.57%
V 290.880†	73629.0	0.491	mg/L	0.0044	0.491	mg/L	0.0044	0.89%
Zn 206.200†	16155.6	0.486	mg/L	0.0069	0.486	mg/L	0.0069	1.42%
K 766.490†	60386.5	24.2	mg/L	0.08	24.2	mg/L	0.08	0.31%
Na 589.592†	312419.8	23.9	mg/L	0.38	23.9	mg/L	0.38	1.59%
Sr 407.771†	513633.0	0.506	mg/L	0.0335	0.506	mg/L	0.0335	6.62%
Li 670.784†	37298.6	0.490	mg/L	0.0028	0.490	mg/L	0.0028	0.57%

Sequence No.: 50 **Autosampler Location: 100**
Sample ID: L1102048607 WG357047-01 **Date Collected: 2/23/2011 8:22:15 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102048607 WG357047-01

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Approved: February 24, 2011

Pierre Morris

Mean Data: L1102048607 WG357047-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5141914.8						46761.96	0.91%
YRADIAL	296170.4						6430.85	2.17%
Ga 417.206	1404746.1						9026.38	0.64%
GaRADIAL	64889.1						446.01	0.69%
Ag 328.068†	64.5	-0.00042	mg/L	0.000325	-0.00042	mg/L	0.000325	77.84%
Al 396.153†	3081.8	0.645	mg/L	0.0251	0.645	mg/L	0.0251	3.89%
As 188.979†	-0.2	0.00024	mg/L	0.002603	0.00024	mg/L	0.002603	>999.9%
Ba 233.527†	1343.7	0.0222	mg/L	0.00030	0.0222	mg/L	0.00030	1.37%
Be 234.861†	129.9	0.00010	mg/L	0.000034	0.00010	mg/L	0.000034	33.92%
B 249.677†	472.0	0.0146	mg/L	0.00069	0.0146	mg/L	0.00069	4.74%
Ca 227.546†	94.9	0.852	mg/L	0.0696	0.852	mg/L	0.0696	8.17%
Cd 228.802†	-3.0	-0.00010	mg/L	0.000010	-0.00010	mg/L	0.000010	10.14%
Co 228.616†	4.9	0.00064	mg/L	0.000274	0.00064	mg/L	0.000274	43.07%
Cr 267.716†	353.7	0.00280	mg/L	0.000005	0.00280	mg/L	0.000005	0.20%
Cu 327.393†	127.1	0.00101	mg/L	0.000496	0.00101	mg/L	0.000496	49.05%
Fe 239.562†	260.2	0.613	mg/L	0.0088	0.613	mg/L	0.0088	1.43%
Mg 279.077†	517.9	0.657	mg/L	0.0100	0.657	mg/L	0.0100	1.52%
Mn 257.610†	9665.9	0.0224	mg/L	0.00022	0.0224	mg/L	0.00022	0.98%
Mo 202.031†	9.8	-0.00002	mg/L	0.000308	-0.00002	mg/L	0.000308	>999.9%
Ni 231.604†	99.4	0.00272	mg/L	0.000260	0.00272	mg/L	0.000260	9.54%
Pb 220.353†	8.5	0.00079	mg/L	0.001087	0.00079	mg/L	0.001087	137.86%
Sb 206.836†	0.1	-0.00010	mg/L	0.000920	-0.00010	mg/L	0.000920	879.36%
Se 196.026†	-5.9	0.00045	mg/L	0.004843	0.00045	mg/L	0.004843	>999.9%
Si 251.611†	225992.7	6.56	mg/L	0.087	6.56	mg/L	0.087	1.33%
Sn 189.927†	-78.2	-0.0117	mg/L	0.00058	-0.0117	mg/L	0.00058	4.94%
Ti 334.940†	4606.1	0.00619	mg/L	0.000203	0.00619	mg/L	0.000203	3.27%
Tl 190.801†	7.2	0.00127	mg/L	0.001971	0.00127	mg/L	0.001971	155.35%
V 290.880†	83.1	-0.00073	mg/L	0.000939	-0.00073	mg/L	0.000939	129.26%
Zn 206.200†	-0.0	-0.00044	mg/L	0.000033	-0.00044	mg/L	0.000033	7.44%
K 766.490†	1739.9	0.713	mg/L	0.0149	0.713	mg/L	0.0149	2.10%
Na 589.592†	23013.1	1.74	mg/L	0.028	1.74	mg/L	0.028	1.59%
Sr 407.771†	8016.5	0.00721	mg/L	0.000443	0.00721	mg/L	0.000443	6.14%
Li 670.784†	132.5	0.00020	mg/L	0.001319	0.00020	mg/L	0.001319	644.25%

Sequence No.: 51 **Autosampler Location: 101**
Sample ID: L1102048608S WG357047-04 **Date Collected: 2/23/2011 8:28:54 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102048608S WG357047-04

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102048608S WG357047-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4919127.6						53715.14	1.09%
YRADIAL	292788.8						7390.81	2.52%
Ga 417.206	1328288.8						18006.98	1.36%
GaRADIAL	64056.2						1766.37	2.76%
Ag 328.068†	38759.9	0.195	mg/L	0.0041	0.195	mg/L	0.0041	2.10%
Al 396.153†	26484.9	5.62	mg/L	0.058	5.62	mg/L	0.058	1.03%
As 188.979†	209.8	0.190	mg/L	0.0040	0.190	mg/L	0.0040	2.12%
Ba 233.527†	30567.7	0.518	mg/L	0.0037	0.518	mg/L	0.0037	0.72%
Be 234.861†	14024.1	0.0245	mg/L	0.00037	0.0245	mg/L	0.00037	1.52%
B 249.677†	51106.8	0.977	mg/L	0.0189	0.977	mg/L	0.0189	1.94%
Ca 227.546†	597.0	5.77	mg/L	0.116	5.77	mg/L	0.116	2.01%
Cd 228.802†	431.0	0.0242	mg/L	0.00048	0.0242	mg/L	0.00048	1.98%
Co 228.616†	1957.4	0.0975	mg/L	0.00145	0.0975	mg/L	0.00145	1.49%
Cr 267.716†	29048.2	0.250	mg/L	0.0034	0.250	mg/L	0.0034	1.37%
Cu 327.393†	34740.9	0.238	mg/L	0.0054	0.238	mg/L	0.0054	2.25%
Fe 239.562†	1188.3	2.81	mg/L	0.097	2.81	mg/L	0.097	3.45%
Mg 279.077†	4410.4	5.66	mg/L	0.168	5.66	mg/L	0.168	2.96%
Mn 257.610†	126231.1	0.284	mg/L	0.0027	0.284	mg/L	0.0027	0.94%

Approved: February 24, 2011

Pierce Morris

Mo 202.031†	6696.5	0.494 mg/L	0.0082	0.494 mg/L	0.0082	1.65%
Ni 231.604†	8739.0	0.252 mg/L	0.0036	0.252 mg/L	0.0036	1.42%
Pb 220.353†	1489.3	0.248 mg/L	0.0024	0.248 mg/L	0.0024	0.96%
Sb 206.836†	914.4	0.571 mg/L	0.0125	0.571 mg/L	0.0125	2.18%
Se 196.026†	268.1	0.193 mg/L	0.0057	0.193 mg/L	0.0057	2.97%
Si 251.611†	325515.9	9.44 mg/L	0.179	9.44 mg/L	0.179	1.89%
Sn 189.927†	3041.4	0.521 mg/L	0.0047	0.521 mg/L	0.0047	0.90%
Ti 334.940†	361532.2	0.498 mg/L	0.0065	0.498 mg/L	0.0065	1.31%
Tl 190.801†	427.8	0.252 mg/L	0.0055	0.252 mg/L	0.0055	2.19%
V 290.880†	74242.6	0.495 mg/L	0.0056	0.495 mg/L	0.0056	1.13%
Zn 206.200†	16423.3	0.494 mg/L	0.0031	0.494 mg/L	0.0031	0.63%
K 766.490†	62364.1	25.0 mg/L	0.15	25.0 mg/L	0.15	0.59%
Na 589.592†	343777.1	26.3 mg/L	0.92	26.3 mg/L	0.92	3.52%
Sr 407.771†	549818.6	0.542 mg/L	0.0311	0.542 mg/L	0.0311	5.74%
Li 670.784†	37885.6	0.497 mg/L	0.0017	0.497 mg/L	0.0017	0.35%

Sequence No.: 52 **Autosampler Location: 102**
Sample ID: L1102048609SD WG357047-05 **Date Collected: 2/23/2011 8:35:41 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102048609SD WG357047-05

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102048609SD WG357047-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4950376.9						48379.76	0.98%
YRADIAL	290368.7						7626.45	2.63%
Ga 417.206	1330687.9						20763.19	1.56%
GaRADIAL	63153.1						1888.28	2.99%
Ag 328.068†	38643.1	0.195	mg/L	0.0056	0.195	mg/L	0.0056	2.89%
Al 396.153†	27085.6	5.75	mg/L	0.036	5.75	mg/L	0.036	0.63%
As 188.979†	207.4	0.188	mg/L	0.0015	0.188	mg/L	0.0015	0.79%
Ba 233.527†	30352.9	0.514	mg/L	0.0099	0.514	mg/L	0.0099	1.92%
Be 234.861†	13931.0	0.0243	mg/L	0.00044	0.0243	mg/L	0.00044	1.83%
B 249.677†	50991.6	0.975	mg/L	0.0310	0.975	mg/L	0.0310	3.18%
Ca 227.546†	601.4	5.81	mg/L	0.064	5.81	mg/L	0.064	1.11%
Cd 228.802†	423.3	0.0238	mg/L	0.00032	0.0238	mg/L	0.00032	1.36%
Co 228.616†	1946.9	0.0970	mg/L	0.00080	0.0970	mg/L	0.00080	0.83%
Cr 267.716†	28776.8	0.248	mg/L	0.0046	0.248	mg/L	0.0046	1.87%
Cu 327.393†	34586.7	0.237	mg/L	0.0072	0.237	mg/L	0.0072	3.04%
Fe 239.562†	1189.5	2.81	mg/L	0.096	2.81	mg/L	0.096	3.41%
Mg 279.077†	4419.2	5.67	mg/L	0.171	5.67	mg/L	0.171	3.02%
Mn 257.610†	127230.4	0.287	mg/L	0.0056	0.287	mg/L	0.0056	1.95%
Mo 202.031†	6647.3	0.490	mg/L	0.0087	0.490	mg/L	0.0087	1.77%
Ni 231.604†	8722.5	0.252	mg/L	0.0052	0.252	mg/L	0.0052	2.06%
Pb 220.353†	1490.0	0.248	mg/L	0.0028	0.248	mg/L	0.0028	1.14%
Sb 206.836†	912.6	0.570	mg/L	0.0070	0.570	mg/L	0.0070	1.24%
Se 196.026†	265.7	0.191	mg/L	0.0054	0.191	mg/L	0.0054	2.84%
Si 251.611†	326619.0	9.47	mg/L	0.082	9.47	mg/L	0.082	0.87%
Sn 189.927†	3030.5	0.519	mg/L	0.0037	0.519	mg/L	0.0037	0.71%
Ti 334.940†	360120.3	0.496	mg/L	0.0029	0.496	mg/L	0.0029	0.58%
Tl 190.801†	429.1	0.252	mg/L	0.0011	0.252	mg/L	0.0011	0.43%
V 290.880†	73616.2	0.491	mg/L	0.0103	0.491	mg/L	0.0103	2.10%
Zn 206.200†	16331.0	0.491	mg/L	0.0051	0.491	mg/L	0.0051	1.04%
K 766.490†	62450.3	25.0	mg/L	0.12	25.0	mg/L	0.12	0.47%
Na 589.592†	344198.2	26.3	mg/L	0.40	26.3	mg/L	0.40	1.52%
Sr 407.771†	540589.3	0.533	mg/L	0.0329	0.533	mg/L	0.0329	6.17%
Li 670.784†	38383.0	0.504	mg/L	0.0016	0.504	mg/L	0.0016	0.31%

Sequence No.: 53 **Autosampler Location: 103**
Sample ID: L1102047501 **Date Collected: 2/23/2011 8:42:21 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Approved: February 24, 2011
Pierre Morris

Nebulizer Parameters: L1102047501

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102047501

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4967445.1						10422.69	0.21%
YRADIAL	290828.9						2866.38	0.99%
Ga 417.206	1343032.4						11887.18	0.89%
GaRADIAL	63147.8						1433.46	2.27%
Ag 328.068†	-134.1	-0.00138	mg/L	0.000262	-0.00138	mg/L	0.000262	18.95%
Al 396.153†	21.8	-0.00719	mg/L	0.013745	-0.00719	mg/L	0.013745	191.09%
As 188.979†	-0.0	0.00033	mg/L	0.002201	0.00033	mg/L	0.002201	659.24%
Ba 233.527†	5.8	-0.00041	mg/L	0.000082	-0.00041	mg/L	0.000082	19.75%
Be 234.861†	38.6	0.00007	mg/L	0.000047	0.00007	mg/L	0.000047	66.95%
B 249.677†	3023.7	0.0607	mg/L	0.00157	0.0607	mg/L	0.00157	2.58%
Ca 227.546†	9.2	0.0538	mg/L	0.03641	0.0538	mg/L	0.03641	67.63%
Cd 228.802†	-3.4	-0.00013	mg/L	0.000054	-0.00013	mg/L	0.000054	42.45%
Co 228.616†	-4.7	0.00019	mg/L	0.000033	0.00019	mg/L	0.000033	16.74%
Cr 267.716†	15.8	-0.00009	mg/L	0.000127	-0.00009	mg/L	0.000127	147.73%
Cu 327.393†	-4.0	0.00004	mg/L	0.000525	0.00004	mg/L	0.000525	>999.9%
Fe 239.562†	1.5	0.00146	mg/L	0.003760	0.00146	mg/L	0.003760	257.90%
Mg 279.077†	6.2	0.00082	mg/L	0.000578	0.00082	mg/L	0.000578	70.87%
Mn 257.610†	-34.4	-0.00040	mg/L	0.000015	-0.00040	mg/L	0.000015	3.79%
Mo 202.031†	4.0	-0.00048	mg/L	0.000445	-0.00048	mg/L	0.000445	93.64%
Ni 231.604†	6.6	0.00005	mg/L	0.000236	0.00005	mg/L	0.000236	515.46%
Pb 220.353†	3.4	-0.00009	mg/L	0.000604	-0.00009	mg/L	0.000604	688.46%
Sb 206.836†	0.3	0.00008	mg/L	0.000627	0.00008	mg/L	0.000627	743.39%
Se 196.026†	-1.2	0.00337	mg/L	0.002710	0.00337	mg/L	0.002710	80.52%
Si 251.611†	2099.4	0.0595	mg/L	0.00224	0.0595	mg/L	0.00224	3.77%
Sn 189.927†	-78.8	-0.0118	mg/L	0.00048	-0.0118	mg/L	0.00048	4.11%
Ti 334.940†	-42.4	-0.00022	mg/L	0.000120	-0.00022	mg/L	0.000120	54.13%
Tl 190.801†	-1.4	-0.00376	mg/L	0.003042	-0.00376	mg/L	0.003042	80.82%
V 290.880†	172.9	-0.00017	mg/L	0.000239	-0.00017	mg/L	0.000239	139.55%
Zn 206.200†	-148.9	-0.00491	mg/L	0.000121	-0.00491	mg/L	0.000121	2.46%
K 766.490†	-31.1	0.00708	mg/L	0.043582	0.00708	mg/L	0.043582	615.40%
Na 589.592†	4250.8	0.322	mg/L	0.0126	0.322	mg/L	0.0126	3.91%
Sr 407.771†	208.3	-0.00043	mg/L	0.000095	-0.00043	mg/L	0.000095	22.24%
Li 670.784†	22.6	-0.00124	mg/L	0.001880	-0.00124	mg/L	0.001880	151.28%

Sequence No.: 54 **Autosampler Location: 104**
Sample ID: L1102049202 **Date Collected: 2/23/2011 8:49:50 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102049202

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102049202

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5059389.2						66538.58	1.32%
YRADIAL	300908.6						3235.58	1.08%
Ga 417.206	1395428.1						24254.16	1.74%
GaRADIAL	65600.9						644.53	0.98%
Ag 328.068†	78.2	-0.00040	mg/L	0.000932	-0.00040	mg/L	0.000932	234.45%
Al 396.153†	575.6	0.110	mg/L	0.0021	0.110	mg/L	0.0021	1.87%
As 188.979†	9.1	0.00838	mg/L	0.000844	0.00838	mg/L	0.000844	10.07%
Ba 233.527†	539.0	0.00864	mg/L	0.000120	0.00864	mg/L	0.000120	1.39%
Be 234.861†	160.6	0.00018	mg/L	0.000017	0.00018	mg/L	0.000017	9.46%
B 249.677†	1301.4	0.0322	mg/L	0.00082	0.0322	mg/L	0.00082	2.56%
Ca 227.546†	1119.3	10.6	mg/L	0.23	10.6	mg/L	0.23	2.19%
Cd 228.802†	41.6	0.00236	mg/L	0.000046	0.00236	mg/L	0.000046	1.97%
Co 228.616†	11.4	0.00097	mg/L	0.000147	0.00097	mg/L	0.000147	15.13%
Cr 267.716†	900.9	0.00746	mg/L	0.000422	0.00746	mg/L	0.000422	5.66%

Approved: February 24, 2011

Pierce Morris

Cu 327.393†	7366.7	0.0505	mg/L	0.00085	0.0505	mg/L	0.00085	1.68%
Fe 239.562†	382.2	0.902	mg/L	0.0116	0.902	mg/L	0.0116	1.29%
Mg 279.077†	3804.3	4.88	mg/L	0.037	4.88	mg/L	0.037	0.77%
Mn 257.610†	108307.4	0.241	mg/L	0.0030	0.241	mg/L	0.0030	1.26%
Mo 202.031†	579.2	0.0421	mg/L	0.00033	0.0421	mg/L	0.00033	0.80%
Ni 231.604†	63.1	0.00167	mg/L	0.000364	0.00167	mg/L	0.000364	21.83%
Pb 220.353†	38.9	0.00639	mg/L	0.001871	0.00639	mg/L	0.001871	29.25%
Sb 206.836†	43.7	0.0273	mg/L	0.00277	0.0273	mg/L	0.00277	10.15%
Se 196.026†	-13.5	-0.00235	mg/L	0.002316	-0.00235	mg/L	0.002316	98.68%
Si 251.611†	56059.5	1.63	mg/L	0.035	1.63	mg/L	0.035	2.15%
Sn 189.927†	-78.4	-0.0117	mg/L	0.00048	-0.0117	mg/L	0.00048	4.11%
Ti 334.940†	2334.3	0.00316	mg/L	0.000019	0.00316	mg/L	0.000019	0.62%
Tl 190.801†	26.8	0.0120	mg/L	0.00416	0.0120	mg/L	0.00416	34.57%
V 290.880†	677.5	0.00324	mg/L	0.000714	0.00324	mg/L	0.000714	22.01%
Zn 206.200†	14968.1	0.449	mg/L	0.0050	0.449	mg/L	0.0050	1.11%
K 766.490†	11031.1	4.42	mg/L	0.052	4.42	mg/L	0.052	1.18%
Na 589.592†	61125.5	4.62	mg/L	0.035	4.62	mg/L	0.035	0.75%
Sr 407.771†	34202.8	0.0330	mg/L	0.00231	0.0330	mg/L	0.00231	7.00%
Li 670.784†	64.3	-0.00069	mg/L	0.001618	-0.00069	mg/L	0.001618	233.33%

Sequence No.: 55 **Autosampler Location: 105**
Sample ID: L1102049202PS WG357117-03 **Date Collected: 2/23/2011 8:56:34 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102049202PS WG357117-03

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: L1102049202PS WG357117-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4900145.0						46779.10	0.95%
YRADIAL	290611.1						1932.24	0.66%
Ga 417.206	1346541.4						22451.51	1.67%
GaRADIAL	63693.8						938.79	1.47%
Ag 328.068†	37788.2	0.190	mg/L	0.0023	0.190	mg/L	0.0023	1.21%
Al 396.153†	23842.2	5.06	mg/L	0.011	5.06	mg/L	0.011	0.21%
As 188.979†	208.2	0.188	mg/L	0.0030	0.188	mg/L	0.0030	1.61%
Ba 233.527†	29415.9	0.499	mg/L	0.0043	0.499	mg/L	0.0043	0.86%
Be 234.861†	13626.2	0.0239	mg/L	0.00028	0.0239	mg/L	0.00028	1.18%
B 249.677†	50574.6	0.967	mg/L	0.0094	0.967	mg/L	0.0094	0.97%
Ca 227.546†	1538.9	14.7	mg/L	0.36	14.7	mg/L	0.36	2.44%
Cd 228.802†	454.1	0.0255	mg/L	0.00057	0.0255	mg/L	0.00057	2.22%
Co 228.616†	1938.1	0.0966	mg/L	0.00150	0.0966	mg/L	0.00150	1.55%
Cr 267.716†	28909.7	0.249	mg/L	0.0024	0.249	mg/L	0.0024	0.97%
Cu 327.393†	40699.3	0.279	mg/L	0.0038	0.279	mg/L	0.0038	1.38%
Fe 239.562†	1158.5	2.74	mg/L	0.034	2.74	mg/L	0.034	1.23%
Mg 279.077†	7243.2	9.29	mg/L	0.090	9.29	mg/L	0.090	0.97%
Mn 257.610†	206799.4	0.463	mg/L	0.0033	0.463	mg/L	0.0033	0.70%
Mo 202.031†	7163.3	0.529	mg/L	0.0043	0.529	mg/L	0.0043	0.82%
Ni 231.604†	8583.3	0.248	mg/L	0.0012	0.248	mg/L	0.0012	0.49%
Pb 220.353†	1505.2	0.251	mg/L	0.0044	0.251	mg/L	0.0044	1.76%
Sb 206.836†	935.4	0.584	mg/L	0.0127	0.584	mg/L	0.0127	2.17%
Se 196.026†	255.3	0.186	mg/L	0.0045	0.186	mg/L	0.0045	2.44%
Si 251.611†	133782.6	3.87	mg/L	0.058	3.87	mg/L	0.058	1.49%
Sn 189.927†	-88.9	-0.0135	mg/L	0.00076	-0.0135	mg/L	0.00076	5.61%
Ti 334.940†	359240.1	0.495	mg/L	0.0042	0.495	mg/L	0.0042	0.85%
Tl 190.801†	444.8	0.261	mg/L	0.0008	0.261	mg/L	0.0008	0.30%
V 290.880†	73944.4	0.493	mg/L	0.0027	0.493	mg/L	0.0027	0.54%
Zn 206.200†	29826.6	0.896	mg/L	0.0035	0.896	mg/L	0.0035	0.39%
K 766.490†	69688.2	28.0	mg/L	0.12	28.0	mg/L	0.12	0.43%
Na 589.592†	366342.0	28.0	mg/L	0.39	28.0	mg/L	0.39	1.39%
Sr 407.771†	545327.0	0.538	mg/L	0.0439	0.538	mg/L	0.0439	8.16%
Li 670.784†	37323.0	0.490	mg/L	0.0015	0.490	mg/L	0.0015	0.31%

Sequence No.: 56 WG357117-04 **Autosampler Location: 106**
Sample ID: L1102049202DL ~~**WG357047-04**~~ **Date Collected: 2/23/2011 9:03:14 PM**

Approved: February 24, 2011

Pierre Morris

Analyst: PDM
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

WG357117-04

Nebulizer Parameters: L1102049202DL ~~WG357047-04~~

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

WG357117-04

Mean Data: L1102049202DL ~~WG357047-04~~

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	5010862.7						21053.18	0.42%
YRADIAL	289316.3						7858.36	2.72%
Ga 417.206	1345263.6						22610.46	1.68%
GaRADIAL	63075.4						2239.50	3.55%
Ag 328.068†	-176.3	-0.00162	mg/L	0.000440	-0.00162	mg/L	0.000440	27.24%
Al 396.153†	130.0	0.0158	mg/L	0.01278	0.0158	mg/L	0.01278	81.02%
As 188.979†	1.6	0.00177	mg/L	0.001025	0.00177	mg/L	0.001025	57.91%
Ba 233.527†	105.9	0.00128	mg/L	0.000073	0.00128	mg/L	0.000073	5.67%
Be 234.861†	68.9	0.00010	mg/L	0.000033	0.00010	mg/L	0.000033	32.48%
B 249.677†	769.9	0.0189	mg/L	0.00070	0.0189	mg/L	0.00070	3.69%
Ca 227.546†	227.8	2.12	mg/L	0.041	2.12	mg/L	0.041	1.93%
Cd 228.802†	6.1	0.00040	mg/L	0.000251	0.00040	mg/L	0.000251	63.30%
Co 228.616†	-3.8	0.00023	mg/L	0.000148	0.00023	mg/L	0.000148	64.36%
Cr 267.716†	178.3	0.00130	mg/L	0.000071	0.00130	mg/L	0.000071	5.48%
Cu 327.393†	1533.4	0.0106	mg/L	0.00024	0.0106	mg/L	0.00024	2.25%
Fe 239.562†	81.2	0.190	mg/L	0.0080	0.190	mg/L	0.0080	4.20%
Mg 279.077†	808.3	1.03	mg/L	0.036	1.03	mg/L	0.036	3.46%
Mn 257.610†	21535.8	0.0477	mg/L	0.00059	0.0477	mg/L	0.00059	1.23%
Mo 202.031†	116.6	0.00786	mg/L	0.000417	0.00786	mg/L	0.000417	5.31%
Ni 231.604†	25.5	0.00059	mg/L	0.000135	0.00059	mg/L	0.000135	23.01%
Pb 220.353†	12.4	0.00151	mg/L	0.000732	0.00151	mg/L	0.000732	48.34%
Sb 206.836†	10.1	0.00623	mg/L	0.001675	0.00623	mg/L	0.001675	26.88%
Se 196.026†	-11.1	-0.00292	mg/L	0.002149	-0.00292	mg/L	0.002149	73.53%
Si 251.611†	11540.5	0.333	mg/L	0.0073	0.333	mg/L	0.0073	2.18%
Sn 189.927†	-77.2	-0.0115	mg/L	0.00085	-0.0115	mg/L	0.00085	7.37%
Ti 334.940†	496.1	0.00054	mg/L	0.000159	0.00054	mg/L	0.000159	29.39%
Tl 190.801†	4.6	-0.00042	mg/L	0.004892	-0.00042	mg/L	0.004892	>999.9%
V 290.880†	125.0	-0.00048	mg/L	0.000066	-0.00048	mg/L	0.000066	13.71%
Zn 206.200†	2936.6	0.0877	mg/L	0.00018	0.0877	mg/L	0.00018	0.21%
K 766.490†	2232.0	0.910	mg/L	0.0333	0.910	mg/L	0.0333	3.67%
Na 589.592†	12649.1	0.956	mg/L	0.0178	0.956	mg/L	0.0178	1.86%
Sr 407.771†	7266.1	0.00652	mg/L	0.000802	0.00652	mg/L	0.000802	12.30%
Li 670.784†	61.6	-0.00073	mg/L	0.000464	-0.00073	mg/L	0.000464	63.61%

Sequence No.: 57
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/23/2011 9:09:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4758270.1						54463.98	1.14%
YRADIAL	282901.8						6257.05	2.21%
Ga 417.206	1247909.0						15555.55	1.25%
GaRADIAL	61472.1						277.64	0.45%
Ag 328.068†	80185.2	0.405	mg/L	0.0036	0.405	mg/L	0.0036	0.89%
QC value within limits for Ag 328.068 Recovery = 101.25%								
Al 396.153†	47753.1	10.1	mg/L	0.09	10.1	mg/L	0.09	0.85%
QC value within limits for Al 396.153 Recovery = 101.48%								
As 188.979†	436.2	0.395	mg/L	0.0064	0.395	mg/L	0.0064	1.63%
QC value within limits for As 188.979 Recovery = 98.76%								

Approved: February 24, 2011

Pierre Morris

Ba 233.527†	59324.2	1.01 mg/L	0.002	1.01 mg/L	0.002	0.24%
QC value within limits for Ba 233.527 Recovery = 100.62%						
Be 234.861†	28640.3	0.0503 mg/L	0.00029	0.0503 mg/L	0.00029	0.59%
QC value within limits for Be 234.861 Recovery = 100.63%						
B 249.677†	26668.4	0.514 mg/L	0.0037	0.514 mg/L	0.0037	0.72%
QC value within limits for B 249.677 Recovery = 102.81%						
Ca 227.546†	1050.5	10.2 mg/L	0.16	10.2 mg/L	0.16	1.53%
QC value within limits for Ca 227.546 Recovery = 102.38%						
Cd 228.802†	895.7	0.0502 mg/L	0.00044	0.0502 mg/L	0.00044	0.88%
QC value within limits for Cd 228.802 Recovery = 100.35%						
Co 228.616†	3913.9	0.195 mg/L	0.0020	0.195 mg/L	0.0020	1.05%
QC value within limits for Co 228.616 Recovery = 97.33%						
Cr 267.716†	57728.0	0.498 mg/L	0.0016	0.498 mg/L	0.0016	0.31%
QC value within limits for Cr 267.716 Recovery = 99.54%						
Cu 327.393†	72101.9	0.494 mg/L	0.0048	0.494 mg/L	0.0048	0.98%
QC value within limits for Cu 327.393 Recovery = 98.87%						
Fe 239.562†	1649.5	3.90 mg/L	0.039	3.90 mg/L	0.039	1.00%
QC value within limits for Fe 239.562 Recovery = 97.48%						
Mg 279.077†	7675.1	9.85 mg/L	0.149	9.85 mg/L	0.149	1.51%
QC value within limits for Mg 279.077 Recovery = 98.50%						
Mn 257.610†	225766.6	0.507 mg/L	0.0005	0.507 mg/L	0.0005	0.10%
QC value within limits for Mn 257.610 Recovery = 101.40%						
Mo 202.031†	13490.5	0.996 mg/L	0.0058	0.996 mg/L	0.0058	0.58%
QC value within limits for Mo 202.031 Recovery = 99.60%						
Ni 231.604†	17329.9	0.500 mg/L	0.0012	0.500 mg/L	0.0012	0.23%
QC value within limits for Ni 231.604 Recovery = 100.03%						
Pb 220.353†	3001.6	0.501 mg/L	0.0040	0.501 mg/L	0.0040	0.79%
QC value within limits for Pb 220.353 Recovery = 100.20%						
Sb 206.836†	1909.4	1.19 mg/L	0.015	1.19 mg/L	0.015	1.26%
QC value within limits for Sb 206.836 Recovery = 99.37%						
Se 196.026†	568.2	0.403 mg/L	0.0058	0.403 mg/L	0.0058	1.45%
QC value within limits for Se 196.026 Recovery = 100.76%						
Si 251.611†	171777.7	4.97 mg/L	0.026	4.97 mg/L	0.026	0.53%
QC value within limits for Si 251.611 Recovery = 99.41%						
Sn 189.927†	5891.7	1.01 mg/L	0.010	1.01 mg/L	0.010	0.98%
QC value within limits for Sn 189.927 Recovery = 100.73%						
Ti 334.940†	725667.0	1.00 mg/L	0.004	1.00 mg/L	0.004	0.40%
QC value within limits for Ti 334.940 Recovery = 100.03%						
Tl 190.801†	860.1	0.509 mg/L	0.0036	0.509 mg/L	0.0036	0.71%
QC value within limits for Tl 190.801 Recovery = 101.83%						
V 290.880†	150165.4	1.00 mg/L	0.001	1.00 mg/L	0.001	0.12%
QC value within limits for V 290.880 Recovery = 100.24%						
Zn 206.200†	33334.7	1.00 mg/L	0.004	1.00 mg/L	0.004	0.42%
QC value within limits for Zn 206.200 Recovery = 100.22%						
K 766.490†	124175.7	50.0 mg/L	0.61	50.0 mg/L	0.61	1.22%
QC value within limits for K 766.490 Recovery = 100.03%						
Na 589.592†	643625.1	49.8 mg/L	0.37	49.8 mg/L	0.37	0.75%
QC value within limits for Na 589.592 Recovery = 99.60%						
Sr 407.771†	1072730.1	1.06 mg/L	0.078	1.06 mg/L	0.078	7.35%
QC value within limits for Sr 407.771 Recovery = 105.84%						
Li 670.784†	76439.9	1.00 mg/L	0.005	1.00 mg/L	0.005	0.51%
QC value within limits for Li 670.784 Recovery = 100.49%						

All analyte(s) passed QC.

Sequence No.: 58 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/23/2011 9:16:34 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	5021927.7				24881.61	0.50%
YRADIAL	287592.2				10871.16	3.78%
Ga 417.206	1326874.0				21333.48	1.61%

Approved: February 24, 2011

Pierre Morris

GaRADIAL	62465.3					1610.47	2.58%
Ag 328.068†	-180.9	-0.00162 mg/L	0.000371	-0.00162 mg/L	0.000371	22.88%	
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153†	-7.1	-0.0133 mg/L	0.00760	-0.0133 mg/L	0.00760	57.03%	
QC value within limits for Al 396.153 Recovery = Not calculated							
As 188.979†	1.0	0.00133 mg/L	0.001178	0.00133 mg/L	0.001178	88.82%	
QC value within limits for As 188.979 Recovery = Not calculated							
Ba 233.527†	2.0	-0.00048 mg/L	0.000071	-0.00048 mg/L	0.000071	14.88%	
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 234.861†	50.0	0.00009 mg/L	0.000026	0.00009 mg/L	0.000026	29.46%	
QC value within limits for Be 234.861 Recovery = Not calculated							
B 249.677†	540.7	0.0137 mg/L	0.00056	0.0137 mg/L	0.00056	4.08%	
QC value within limits for B 249.677 Recovery = Not calculated							
Ca 227.546†	5.9	0.0228 mg/L	0.02259	0.0228 mg/L	0.02259	98.89%	
QC value within limits for Ca 227.546 Recovery = Not calculated							
Cd 228.802†	-0.2	0.00005 mg/L	0.000088	0.00005 mg/L	0.000088	184.86%	
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	-4.9	0.00018 mg/L	0.000089	0.00018 mg/L	0.000089	49.42%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	18.3	-0.00007 mg/L	0.000066	-0.00007 mg/L	0.000066	100.64%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	75.3	0.00058 mg/L	0.000371	0.00058 mg/L	0.000371	63.81%	
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 239.562†	1.7	0.00195 mg/L	0.003128	0.00195 mg/L	0.003128	160.59%	
QC value within limits for Fe 239.562 Recovery = Not calculated							
Mg 279.077†	-0.2	-0.00737 mg/L	0.007519	-0.00737 mg/L	0.007519	102.04%	
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	19.0	-0.00030 mg/L	0.000023	-0.00030 mg/L	0.000023	7.58%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-5.1	-0.00115 mg/L	0.000181	-0.00115 mg/L	0.000181	15.72%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	4.5	-0.00002 mg/L	0.000258	-0.00002 mg/L	0.000258	>999.9%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	3.5	-0.00009 mg/L	0.001152	-0.00009 mg/L	0.001152	>999.9%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	1.9	0.00104 mg/L	0.001042	0.00104 mg/L	0.001042	100.59%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-8.6	-0.00178 mg/L	0.001448	-0.00178 mg/L	0.001448	81.55%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-50.7	-0.00291 mg/L	0.000394	-0.00291 mg/L	0.000394	13.54%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-74.6	-0.0111 mg/L	0.00029	-0.0111 mg/L	0.00029	2.63%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 334.940†	-10.9	-0.00018 mg/L	0.000289	-0.00018 mg/L	0.000289	161.36%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	4.2	-0.00049 mg/L	0.001746	-0.00049 mg/L	0.001746	355.33%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 290.880†	42.5	-0.00104 mg/L	0.001142	-0.00104 mg/L	0.001142	109.49%	
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	-216.5	-0.00693 mg/L	0.000210	-0.00693 mg/L	0.000210	3.02%	
QC value within limits for Zn 206.200 Recovery = Not calculated							
K 766.490†	-4.2	0.0181 mg/L	0.02625	0.0181 mg/L	0.02625	144.82%	
QC value within limits for K 766.490 Recovery = Not calculated							
Na 589.592†	-47.2	-0.00276 mg/L	0.005493	-0.00276 mg/L	0.005493	199.24%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Sr 407.771†	218.0	-0.00042 mg/L	0.000306	-0.00042 mg/L	0.000306	72.95%	
QC value within limits for Sr 407.771 Recovery = Not calculated							
Li 670.784†	31.9	-0.00112 mg/L	0.000997	-0.00112 mg/L	0.000997	89.03%	
QC value within limits for Li 670.784 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 59 **Autosampler Location: 107**
Sample ID: L1102051701 DL0.2 **Date Collected: 2/23/2011 9:23:11 PM**
Analyst: PDM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: L1102051701 DL0.2

Analyte	**Back Pressure**	**Flow**
All	166.0 kPa	0.50 L/min

Approved: February 24, 2011

Pierre Morris

Mean Data: L1102051701 DL0.2

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4864940.4						48941.96	1.01%
YRADIAL	286943.8						5331.82	1.86%
Ga 417.206	1333046.9						29123.21	2.18%
GaRADIAL	62712.4						1212.86	1.93%
Ag 328.068†	-12.8	-0.00242	mg/L	0.000653	-0.00242	mg/L	0.000653	27.04%
Al 396.153†	66604.4	14.2	mg/L	0.03	14.2	mg/L	0.03	0.21%
As 188.979†	12.9	0.0152	mg/L	0.00119	0.0152	mg/L	0.00119	7.84%
Ba 233.527†	254894.4	4.31	mg/L	0.019	4.31	mg/L	0.019	0.45%
Be 234.861†	4528.9	0.00121	mg/L	0.000090	0.00121	mg/L	0.000090	7.44%
B 249.677†	-2266.0	0.0911	mg/L	0.00162	0.0911	mg/L	0.00162	1.77%
Ca 227.546†	2292.7	21.8	mg/L	0.44	21.8	mg/L	0.44	2.02%
Cd 228.802†	11.5	0.00075	mg/L	0.000145	0.00075	mg/L	0.000145	19.29%
Co 228.616†	268.0	0.0112	mg/L	0.00027	0.0112	mg/L	0.00027	2.43%
Cr 267.716†	3300.9	0.0277	mg/L	0.00086	0.0277	mg/L	0.00086	3.09%
Cu 327.393†	28263.4	0.197	mg/L	0.0057	0.197	mg/L	0.0057	2.90%
Fe 239.562†	13292.5	31.4	mg/L	0.52	31.4	mg/L	0.52	1.66%
Mg 279.077†	2267.7	2.89	mg/L	0.055	2.89	mg/L	0.055	1.90%
Mn 257.610†	266377.9	0.598	mg/L	0.0015	0.598	mg/L	0.0015	0.25%
Mo 202.031†	86.8	0.00731	mg/L	0.000372	0.00731	mg/L	0.000372	5.09%
Ni 231.604†	1318.9	0.0379	mg/L	0.00024	0.0379	mg/L	0.00024	0.65%
Pb 220.353†	1042.0	0.172	mg/L	0.0017	0.172	mg/L	0.0017	1.01%
Sb 206.836†	10.7	0.00638	mg/L	0.002631	0.00638	mg/L	0.002631	41.27%
Se 196.026†	-35.1	-0.00503	mg/L	0.003632	-0.00503	mg/L	0.003632	72.15%
Si 251.611†	466875.9	13.6	mg/L	0.16	13.6	mg/L	0.16	1.20%
Sn 189.927†	-59.6	-0.00851	mg/L	0.000907	-0.00851	mg/L	0.000907	10.66%
Ti 334.940†	150306.2	0.207	mg/L	0.0011	0.207	mg/L	0.0011	0.51%
Tl 190.801†	40.8	0.0222	mg/L	0.00169	0.0222	mg/L	0.00169	7.59%
V 290.880†	4782.4	0.0329	mg/L	0.00122	0.0329	mg/L	0.00122	3.70%
Zn 206.200†	6133.3	0.183	mg/L	0.0014	0.183	mg/L	0.0014	0.78%
K 766.490†	11332.9	4.53	mg/L	0.027	4.53	mg/L	0.027	0.59%
Na 589.592†	227530.4	17.3	mg/L	0.12	17.3	mg/L	0.12	0.70%
Sr 407.771†	194342.3	0.188	mg/L	0.0107	0.188	mg/L	0.0107	5.72%
Li 670.784†	1367.8	0.0165	mg/L	0.00152	0.0165	mg/L	0.00152	9.20%

Sequence No.: 60 **Autosampler Location: 7**
Sample ID: ICSA **Date Collected: 2/23/2011 9:29:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4514516.5						90231.41	2.00%
YRADIAL	275538.3						752.07	0.27%
Ga 417.206	1213135.8						40895.70	3.37%
GaRADIAL	61308.5						661.41	1.08%
Ag 328.068†	586.3	-0.00263	mg/L	0.000846	-0.00263	mg/L	0.000846	32.10%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	1183699.1	252	mg/L	0.7	252	mg/L	0.7	0.28%
QC value within limits for Al 396.153 Recovery = 100.87%								
As 188.979†	7.2	-0.00274	mg/L	0.004211	-0.00274	mg/L	0.004211	153.95%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	135.2	-0.00059	mg/L	0.000303	-0.00059	mg/L	0.000303	51.31%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	11577.9	-0.00085	mg/L	0.000786	-0.00085	mg/L	0.000786	91.92%
QC value less than the lower limit for Be 234.861 Recovery = Not calculated								
B 249.677†	-10278.6	-0.0177	mg/L	0.00624	-0.0177	mg/L	0.00624	35.34%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	29977.0	284	mg/L	8.3	284	mg/L	8.3	2.92%
QC value within limits for Ca 227.546 Recovery = 113.56%								
Cd 228.802†	1.0	-0.00004	mg/L	0.000069	-0.00004	mg/L	0.000069	173.93%

Approved: February 24, 2011

Pierre Morris

QC value within limits for Cd 228.802 Recovery = Not calculated
Co 228.616† 18.0 -0.00122 mg/L 0.000260 -0.00122 mg/L 0.000260 21.27%
QC value within limits for Co 228.616 Recovery = Not calculated
Cr 267.716† 619.1 -0.00111 mg/L 0.000133 -0.00111 mg/L 0.000133 11.97%
QC value within limits for Cr 267.716 Recovery = Not calculated
Cu 327.393† -1594.2 0.00042 mg/L 0.000285 0.00042 mg/L 0.000285 67.64%
QC value within limits for Cu 327.393 Recovery = Not calculated
Fe 239.562† 41347.4 97.8 mg/L 0.25 97.8 mg/L 0.25 0.26%
QC value within limits for Fe 239.562 Recovery = 97.81%
Mg 279.077† 196420.9 252 mg/L 0.9 252 mg/L 0.9 0.36%
QC value within limits for Mg 279.077 Recovery = 100.85%
Mn 257.610† -219.3 -0.00009 mg/L 0.000420 -0.00009 mg/L 0.000420 482.77%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† -15.0 0.00295 mg/L 0.001024 0.00295 mg/L 0.001024 34.71%
QC value within limits for Mo 202.031 Recovery = Not calculated
Ni 231.604† -59.6 -0.00192 mg/L 0.000493 -0.00192 mg/L 0.000493 25.62%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† -83.8 0.00314 mg/L 0.001700 0.00314 mg/L 0.001700 54.22%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 16.0 0.00978 mg/L 0.002396 0.00978 mg/L 0.002396 24.50%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† -113.3 0.00425 mg/L 0.002593 0.00425 mg/L 0.002593 61.01%
QC value within limits for Se 196.026 Recovery = Not calculated
Si 251.611† 1226.3 0.0342 mg/L 0.00173 0.0342 mg/L 0.00173 5.06%
QC value within limits for Si 251.611 Recovery = Not calculated
Sn 189.927† -124.0 -0.0195 mg/L 0.00157 -0.0195 mg/L 0.00157 8.07%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 334.940† -2058.8 -0.00017 mg/L 0.000477 -0.00017 mg/L 0.000477 281.44%
QC value within limits for Ti 334.940 Recovery = Not calculated
Tl 190.801† 155.0 0.0617 mg/L 0.00840 0.0617 mg/L 0.00840 13.61%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 290.880† -876.9 0.00032 mg/L 0.003343 0.00032 mg/L 0.003343 >999.9%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† -53.2 -0.00427 mg/L 0.000363 -0.00427 mg/L 0.000363 8.51%
QC value within limits for Zn 206.200 Recovery = Not calculated
K 766.490† 1.1 0.0202 mg/L 0.01656 0.0202 mg/L 0.01656 81.80%
QC value within limits for K 766.490 Recovery = Not calculated
Na 589.592† 348.2 0.0271 mg/L 0.00526 0.0271 mg/L 0.00526 19.42%
QC value within limits for Na 589.592 Recovery = Not calculated
Sr 407.771† 14720.3 0.00217 mg/L 0.000359 0.00217 mg/L 0.000359 16.58%
QC value within limits for Sr 407.771 Recovery = Not calculated
Li 670.784† 158.9 0.00055 mg/L 0.000307 0.00055 mg/L 0.000307 55.65%
QC value within limits for Li 670.784 Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 61 **Autosampler Location: 8**
Sample ID: ICSAB **Date Collected: 2/23/2011 9:35:40 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	4548963.8						52629.24	1.16%
YRADIAL	269620.9						5769.68	2.14%
Ga 417.206	1215556.0						13179.16	1.08%
GaRADIAL	59719.2						1128.16	1.89%
Ag 328.068†	104761.6	0.524	mg/L	0.0062	0.524	mg/L	0.0062	1.18%
QC value within limits for Ag 328.068 Recovery = 104.71%								
Al 396.153†	1189716.9	253	mg/L	4.9	253	mg/L	4.9	1.93%
QC value within limits for Al 396.153 Recovery = 101.38%								
As 188.979†	281.6	0.249	mg/L	0.0066	0.249	mg/L	0.0066	2.66%
QC value within limits for As 188.979 Recovery = 99.56%								
Ba 233.527†	15001.6	0.252	mg/L	0.0036	0.252	mg/L	0.0036	1.45%
QC value within limits for Ba 233.527 Recovery = 100.62%								

Approved: February 24, 2011

Pierre Morris

Be 234.861†	160489.9	0.257 mg/L	0.0052	0.257 mg/L	0.0052	2.03%
QC value within limits for Be 234.861 Recovery = 102.90%						
B 249.677†	-10266.1	-0.0421 mg/L	0.01346	-0.0421 mg/L	0.01346	31.93%
QC value within limits for B 249.677 Recovery = Not calculated						
Ca 227.546†	29521.6	280 mg/L	1.4	280 mg/L	1.4	0.49%
QC value within limits for Ca 227.546 Recovery = 111.97%						
Cd 228.802†	8451.4	0.478 mg/L	0.0072	0.478 mg/L	0.0072	1.51%
QC value within limits for Cd 228.802 Recovery = 95.55%						
Co 228.616†	4651.6	0.232 mg/L	0.0027	0.232 mg/L	0.0027	1.15%
QC value within limits for Co 228.616 Recovery = 92.65%						
Cr 267.716†	29505.0	0.248 mg/L	0.0032	0.248 mg/L	0.0032	1.29%
QC value within limits for Cr 267.716 Recovery = 99.19%						
Cu 327.393†	35505.2	0.253 mg/L	0.0024	0.253 mg/L	0.0024	0.96%
QC value within limits for Cu 327.393 Recovery = 101.37%						
Fe 239.562†	40435.4	95.6 mg/L	0.35	95.6 mg/L	0.35	0.37%
QC value within limits for Fe 239.562 Recovery = 95.65%						
Mg 279.077†	193206.9	248 mg/L	0.7	248 mg/L	0.7	0.28%
QC value within limits for Mg 279.077 Recovery = 99.20%						
Mn 257.610†	112469.1	0.252 mg/L	0.0027	0.252 mg/L	0.0027	1.06%
QC value within limits for Mn 257.610 Recovery = 100.76%						
Mo 202.031†	-10.4	0.00325 mg/L	0.000569	0.00325 mg/L	0.000569	17.50%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Ni 231.604†	16390.2	0.473 mg/L	0.0059	0.473 mg/L	0.0059	1.25%
QC value within limits for Ni 231.604 Recovery = 94.59%						
Pb 220.353†	2870.2	0.491 mg/L	0.0071	0.491 mg/L	0.0071	1.44%
QC value within limits for Pb 220.353 Recovery = 98.30%						
Sb 206.836†	840.0	0.521 mg/L	0.0048	0.521 mg/L	0.0048	0.91%
QC value within limits for Sb 206.836 Recovery = 104.20%						
Se 196.026†	250.0	0.256 mg/L	0.0085	0.256 mg/L	0.0085	3.34%
QC value within limits for Se 196.026 Recovery = 102.25%						
Si 251.611†	237.4	0.00546 mg/L	0.001126	0.00546 mg/L	0.001126	20.65%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-117.2	-0.0183 mg/L	0.00147	-0.0183 mg/L	0.00147	8.03%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	-2137.2	-0.00039 mg/L	0.000041	-0.00039 mg/L	0.000041	10.48%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	995.9	0.552 mg/L	0.0109	0.552 mg/L	0.0109	1.98%
QC value within limits for Tl 190.801 Recovery = 110.31%						
V 290.880†	36852.1	0.252 mg/L	0.0010	0.252 mg/L	0.0010	0.38%
QC value within limits for V 290.880 Recovery = 100.96%						
Zn 206.200†	15532.3	0.465 mg/L	0.0077	0.465 mg/L	0.0077	1.66%
QC value within limits for Zn 206.200 Recovery = 92.96%						
K 766.490†	13008.1	5.21 mg/L	0.032	5.21 mg/L	0.032	0.61%
QC value within limits for K 766.490 Recovery = 104.25%						
Na 589.592†	66824.0	5.06 mg/L	0.023	5.06 mg/L	0.023	0.45%
QC value within limits for Na 589.592 Recovery = 101.11%						
Sr 407.771†	14333.2	0.00204 mg/L	0.000264	0.00204 mg/L	0.000264	12.93%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Li 670.784†	225.1	0.00142 mg/L	0.001319	0.00142 mg/L	0.001319	92.64%
QC value within limits for Li 670.784 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 62 **Autosampler Location: 6**
Sample ID: CCV **Date Collected: 2/23/2011 9:41:25 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4886068.0						23311.73	0.48%
YRADIAL	279426.7						9619.22	3.44%
Ga 417.206	1283463.3						9807.08	0.76%
GaRADIAL	60921.2						3227.31	5.30%
Ag 328.068†	77849.2	0.393	mg/L	0.0015	0.393	mg/L	0.0015	0.39%

Approved: February 24, 2011

Pierre Morris

QC value within limits for Ag 328.068 Recovery = 98.29%

Al 396.153†	48352.1	10.3 mg/L	0.48	10.3 mg/L	0.48	4.63%
QC value within limits for Al 396.153 Recovery = 102.76%						
As 188.979†	419.1	0.380 mg/L	0.0031	0.380 mg/L	0.0031	0.81%
QC value within limits for As 188.979 Recovery = 94.89%						
Ba 233.527†	57471.0	0.975 mg/L	0.0033	0.975 mg/L	0.0033	0.33%
QC value within limits for Ba 233.527 Recovery = 97.47%						
Be 234.861†	27867.9	0.0489 mg/L	0.00011	0.0489 mg/L	0.00011	0.23%
QC value within limits for Be 234.861 Recovery = 97.85%						
B 249.677†	25350.6	0.489 mg/L	0.0044	0.489 mg/L	0.0044	0.91%
QC value within limits for B 249.677 Recovery = 97.85%						
Ca 227.546†	1037.6	10.1 mg/L	0.11	10.1 mg/L	0.11	1.14%
QC value within limits for Ca 227.546 Recovery = 101.07%						
Cd 228.802†	865.0	0.0485 mg/L	0.00033	0.0485 mg/L	0.00033	0.68%
QC value within limits for Cd 228.802 Recovery = 96.98%						
Co 228.616†	3813.6	0.190 mg/L	0.0012	0.190 mg/L	0.0012	0.64%
QC value within limits for Co 228.616 Recovery = 94.84%						
Cr 267.716†	56070.0	0.483 mg/L	0.0032	0.483 mg/L	0.0032	0.66%
QC value within limits for Cr 267.716 Recovery = 96.68%						
Cu 327.393†	70222.6	0.481 mg/L	0.0032	0.481 mg/L	0.0032	0.65%
QC value within limits for Cu 327.393 Recovery = 96.30%						
Fe 239.562†	1674.0	3.96 mg/L	0.210	3.96 mg/L	0.210	5.30%
QC value within limits for Fe 239.562 Recovery = 98.93%						
Mg 279.077†	7822.8	10.0 mg/L	0.50	10.0 mg/L	0.50	4.97%
QC value within limits for Mg 279.077 Recovery = 100.40%						
Mn 257.610†	219210.0	0.492 mg/L	0.0027	0.492 mg/L	0.0027	0.55%
QC value within limits for Mn 257.610 Recovery = 98.47%						
Mo 202.031†	13144.5	0.970 mg/L	0.0054	0.970 mg/L	0.0054	0.56%
QC value within limits for Mo 202.031 Recovery = 97.05%						
Ni 231.604†	16826.9	0.486 mg/L	0.0007	0.486 mg/L	0.0007	0.15%
QC value within limits for Ni 231.604 Recovery = 97.12%						
Pb 220.353†	2917.6	0.487 mg/L	0.0032	0.487 mg/L	0.0032	0.66%
QC value within limits for Pb 220.353 Recovery = 97.40%						
Sb 206.836†	1854.3	1.16 mg/L	0.011	1.16 mg/L	0.011	0.97%
QC value within limits for Sb 206.836 Recovery = 96.51%						
Se 196.026†	558.5	0.396 mg/L	0.0009	0.396 mg/L	0.0009	0.23%
QC value within limits for Se 196.026 Recovery = 99.07%						
Si 251.611†	166339.5	4.81 mg/L	0.020	4.81 mg/L	0.020	0.42%
QC value within limits for Si 251.611 Recovery = 96.26%						
Sn 189.927†	5713.9	0.977 mg/L	0.0048	0.977 mg/L	0.0048	0.49%
QC value within limits for Sn 189.927 Recovery = 97.69%						
Ti 334.940†	710250.8	0.979 mg/L	0.0039	0.979 mg/L	0.0039	0.40%
QC value within limits for Ti 334.940 Recovery = 97.90%						
Tl 190.801†	841.3	0.498 mg/L	0.0048	0.498 mg/L	0.0048	0.96%
QC value within limits for Tl 190.801 Recovery = 99.58%						
V 290.880†	145964.7	0.974 mg/L	0.0065	0.974 mg/L	0.0065	0.66%
QC value within limits for V 290.880 Recovery = 97.44%						
Zn 206.200†	32285.5	0.971 mg/L	0.0025	0.971 mg/L	0.0025	0.26%
QC value within limits for Zn 206.200 Recovery = 97.07%						
K 766.490†	125406.0	50.5 mg/L	2.03	50.5 mg/L	2.03	4.01%
QC value within limits for K 766.490 Recovery = 101.03%						
Na 589.592†	648208.5	50.2 mg/L	2.91	50.2 mg/L	2.91	5.81%
QC value within limits for Na 589.592 Recovery = 100.33%						
Sr 407.771†	1079231.1	1.06 mg/L	0.027	1.06 mg/L	0.027	2.58%
QC value within limits for Sr 407.771 Recovery = 106.48%						
Li 670.784†	77316.8	1.02 mg/L	0.051	1.02 mg/L	0.051	5.05%
QC value within limits for Li 670.784 Recovery = 101.64%						

All analyte(s) passed QC.

==========

Sequence No.: 63 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/23/2011 9:48:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.50 L/min

Mean Data: CCB

Approved: February 24, 2011

Pierre Morris

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	4962282.1						38397.60	0.77%
YRADIAL	291121.2						10020.66	3.44%
Ga 417.206	1312799.5						4859.76	0.37%
GaRADIAL	62969.2						2205.14	3.50%
Ag 328.068†	-136.8	-0.00140	mg/L	0.000852	-0.00140	mg/L	0.000852	60.89%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-33.4	-0.0189	mg/L	0.00710	-0.0189	mg/L	0.00710	37.47%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-1.3	-0.00082	mg/L	0.002344	-0.00082	mg/L	0.002344	284.17%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-2.2	-0.00055	mg/L	0.000048	-0.00055	mg/L	0.000048	8.68%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 234.861†	48.7	0.00009	mg/L	0.000025	0.00009	mg/L	0.000025	28.67%
QC value within limits for Be 234.861 Recovery = Not calculated								
B 249.677†	81.6	0.00505	mg/L	0.000212	0.00505	mg/L	0.000212	4.20%
QC value within limits for B 249.677 Recovery = Not calculated								
Ca 227.546†	5.0	0.0151	mg/L	0.04225	0.0151	mg/L	0.04225	280.62%
QC value within limits for Ca 227.546 Recovery = Not calculated								
Cd 228.802†	-3.8	-0.00014	mg/L	0.000117	-0.00014	mg/L	0.000117	81.41%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-4.0	0.00023	mg/L	0.000077	0.00023	mg/L	0.000077	33.71%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	6.8	-0.00016	mg/L	0.000024	-0.00016	mg/L	0.000024	14.47%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	65.5	0.00051	mg/L	0.001222	0.00051	mg/L	0.001222	238.01%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 239.562†	0.7	-0.00033	mg/L	0.004435	-0.00033	mg/L	0.004435	>999.9%
QC value within limits for Fe 239.562 Recovery = Not calculated								
Mg 279.077†	2.8	-0.00358	mg/L	0.006050	-0.00358	mg/L	0.006050	168.96%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	46.3	-0.00024	mg/L	0.000011	-0.00024	mg/L	0.000011	4.61%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	0.8	-0.00072	mg/L	0.000213	-0.00072	mg/L	0.000213	29.67%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	8.4	0.00009	mg/L	0.000324	0.00009	mg/L	0.000324	342.93%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	4.4	0.00007	mg/L	0.001138	0.00007	mg/L	0.001138	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	2.4	0.00135	mg/L	0.000479	0.00135	mg/L	0.000479	35.41%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-2.4	0.00257	mg/L	0.005370	0.00257	mg/L	0.005370	208.91%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 251.611†	-24.8	-0.00217	mg/L	0.000746	-0.00217	mg/L	0.000746	34.39%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	-77.9	-0.0116	mg/L	0.00067	-0.0116	mg/L	0.00067	5.75%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-124.3	-0.00034	mg/L	0.000102	-0.00034	mg/L	0.000102	30.26%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	3.9	-0.00068	mg/L	0.002441	-0.00068	mg/L	0.002441	359.77%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	25.0	-0.00116	mg/L	0.000216	-0.00116	mg/L	0.000216	18.64%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-213.3	-0.00684	mg/L	0.000120	-0.00684	mg/L	0.000120	1.75%
QC value within limits for Zn 206.200 Recovery = Not calculated								
K 766.490†	-24.5	0.0100	mg/L	0.02688	0.0100	mg/L	0.02688	267.56%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	-37.0	-0.00199	mg/L	0.014544	-0.00199	mg/L	0.014544	729.76%
QC value within limits for Na 589.592 Recovery = Not calculated								
Sr 407.771†	289.2	-0.00035	mg/L	0.000026	-0.00035	mg/L	0.000026	7.33%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Li 670.784†	162.9	0.00060	mg/L	0.001093	0.00060	mg/L	0.001093	180.93%
QC value within limits for Li 670.784 Recovery = Not calculated								

All analyte(s) passed QC.

Approved: February 24, 2011

Pierre Morris

Sample Name: S0 Acquired: 2/23/2011 9:43:07 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1264) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00106**	**.00834**	**.00001**	**.00025**	**.00294**	**-.00040**	**-.00069**
Stddev	.00003	.00011	.00001	.00002	.00013	.00006	.00006
%RSD	2.5172	1.3660	120.45	9.4439	4.3945	15.706	9.0814
#1	.00104	.00847	.00001	.00026	.00280	-.00035	-.00073
#2	.00109	.00826	.00000	.00027	.00304	-.00038	-.00071
#3	.00106	.00830	.00002	.00023	.00300	-.00047	-.00062

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00004**	**.00000**	**.00033**	**.00009**	**.00002**	**-.00069**	**-.00188**
Stddev	.00001	.0000	.00002	.00002	.00002	.00014	.00008
%RSD	33.920	93.577	4.8521	23.463	114.74	20.850	4.4470
#1	.00003	-.00001	.00032	.00008	.00004	-.00057	-.00184
#2	.00005	.00000	.00034	.00012	.00001	-.00085	-.00183
#3	.00003	.00000	.00035	.00009	.00001	-.00065	-.00198

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00002**	**.00003**	**.00002**	**-.00126**	**-.00018**	**.00005**	**-.00015**
Stddev	.00002	.00003	.00001	.00009	.00002	.00001	.00001
%RSD	95.437	109.84	47.917	7.2460	8.6585	14.706	4.7175
#1	.00000	.00001	.00002	-.00125	-.00016	.00006	-.00014
#2	-.00004	.00006	.00001	-.00135	-.00018	.00005	-.00015
#3	-.00004	.00001	.00002	-.00117	-.00019	.00006	-.00016

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00329**	**-.00001**	**.00009**	**.00007**	**-.00006**	**.00041**	**.00002**
Stddev	.00020	.00000	.00001	.00002	.00002	.00001	.00001
%RSD	6.1858	45.775	11.211	24.916	27.851	2.7632	34.695
#1	-.00351	-.00001	.00010	.00008	-.00005	.00041	.00001
#2	-.00324	-.00002	.00008	.00008	-.00005	.00040	.00002
#3	-.00311	-.00001	.00009	.00005	-.00008	.00042	.00002

Approved: February 24, 2011

Sample Name: S0 Acquired: 2/23/2011 9:43:07 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1264) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00057**	**-.00021**	**-.00005**	**.00011**	**-.00004**	**-.00114**
Stddev	.00011	.00004	.00001	.00002	.00000	.00008
%RSD	19.363	17.273	15.173	19.943	8.0024	6.8469
#1	.00051	-.00017	-.00005	.00010	-.00003	-.00112
#2	.00070	-.00024	-.00004	.00014	-.00004	-.00108
#3	.00051	-.00023	-.00005	.00010	-.00004	-.00123

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86940.**	**64879.**
Stddev	597.	398.
%RSD	.68664	.61378
#1	86672.	64850.
#2	87624.	65290.
#3	86524.	64496.

Approved: February 24, 2011

Sample Name: S1 Acquired: 2/23/2011 9:46:52 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1264) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	Ba4554	Be3131	Ca4226	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00165**	**.01362**	**.00701**	**.00071**	**-.00010**	**.00011**	**.00027**
Stddev	.00007	.00039	.00010	.00002	.00002	.00000	.00002
%RSD	4.0892	2.8652	1.3851	2.9283	23.235	3.4309	7.6645
#1	.00169	.01346	.00702	.00069	-.00013	.00012	.00029
#2	.00170	.01407	.00710	.00073	-.00008	.00011	.00025
#3	.00158	.01334	.00691	.00070	-.00010	.00011	.00026

Elem	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00123**	**.00031**	**.00028**	**.00154**	**-.00074**	**.00015**	**.00038**
Stddev	.00004	.00001	.00003	.00037	.00006	.00000	.00002
%RSD	2.9103	4.1904	11.030	23.914	8.0738	2.8833	5.8026
#1	.00123	.00030	.00026	.00185	-.00071	.00015	.00036
#2	.00127	.00030	.00026	.00113	-.00080	.00014	.00037
#3	.00120	.00032	.00031	.00165	-.00069	.00014	.00040

Elem	Mo2020	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00042**	**.00646**	**-.00002**	**.00005**	**-.00005**	**-.00350**	**.00001**
Stddev	.00000	.00015	.00001	.00001	.00003	.00021	.00000
%RSD	1.0732	2.3264	73.474	18.500	60.451	6.1081	28.913
#1	.00041	.00656	.00000	.00005	-.00004	-.00330	.00001
#2	.00042	.00655	-.00002	.00005	-.00002	-.00372	.00001
#3	.00042	.00629	-.00003	.00006	-.00008	-.00347	.00001

Elem	S_1820	Sb2068	Si2124	Sn1899	Sr4077	Ti3372	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00008**	**.00016**	**.00042**	**.00026**	**.00757**	**.00028**	**.00307**
Stddev	.00000	.00000	.00001	.00000	.00008	.00003	.00018
%RSD	3.7129	2.9039	3.4361	1.3250	1.0311	9.3280	6.0042
#1	.00009	.00016	.00044	.00025	.00765	.00030	.00317
#2	.00008	.00016	.00042	.00026	.00756	.00025	.00318
#3	.00008	.00015	.00041	.00025	.00750	.00028	.00285

Approved: February 24, 2011

Sample Name: S1 Acquired: 2/23/2011 9:46:52 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1264) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062	Zr3391
Units	Cts/S	Cts/S
Avg	**.00134**	**-.00117**
Stddev	.00001	.00017
%RSD	1.0058	14.248
#1	.00136	-.00109
#2	.00134	-.00137
#3	.00133	-.00106

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88284.**	**63645.**
Stddev	1155.	2047.
%RSD	1.3080	3.2155
#1	87082.	63887.
#2	88383.	61489.
#3	89385.	65560.

Approved: February 24, 2011

Sample Name: S2 Acquired: 2/23/2011 9:50:37 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1264) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00232**	**.01856**	**.00007**	**.00096**	**.01114**	**.00183**	**.00051**
Stddev	.00014	.00023	.00002	.00003	.00008	.00006	.00001
%RSD	5.8286	1.2185	26.250	3.3492	.69666	3.4428	2.8471
#1	.00247	.01874	.00005	.00096	.01110	.00190	.00049
#2	.00221	.01831	.00008	.00093	.01122	.00178	.00052
#3	.00228	.01864	.00008	.00099	.01108	.00180	.00051

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00021**	**.00055**	**.00199**	**.00051**	**.00055**	**.00375**	**.00008**
Stddev	.00000	.00000	.00001	.00002	.00001	.00018	.00007
%RSD	2.3121	.46541	.30855	3.8692	2.6499	4.7363	88.550
#1	.00021	.00055	.00200	.00051	.00056	.00387	.00006
#2	.00021	.00055	.00199	.00049	.00056	.00382	.00003
#3	.00022	.00055	.00200	.00053	.00053	.00354	.00016

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00028**	**.00067**	**.00081**	**.01403**	**.00009**	**.00005**	**.00002**
Stddev	.00002	.00002	.00001	.00013	.00000	.00002	.00004
%RSD	7.0983	2.5424	.63194	.90986	4.2834	35.338	225.38
#1	.00029	.00069	.00081	.01389	.00009	.00004	.00006
#2	.00029	.00065	.00080	.01412	.00009	.00008	-.00001
#3	.00026	.00068	.00080	.01410	.00009	.00005	.00000

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00348**	**.00003**	**.00008**	**.00024**	**.00000**	**.00044**	**.00051**
Stddev	.00011	.00000	.00001	.00000	.0000	.00001	.00001
%RSD	3.1381	17.388	6.9606	2.0318	222.71	1.8141	2.2975
#1	-.00346	.00003	.00009	.00025	.00000	.00044	.00051
#2	-.00337	.00003	.00008	.00024	-.00001	.00043	.00052
#3	-.00359	.00002	.00008	.00024	.00000	.00045	.00050

Approved: February 24, 2011

Sample Name: S2 Acquired: 2/23/2011 9:50:37 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1264) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01429**	**.00082**	**.00005**	**.00573**	**.00271**	**-.00130**
Stddev	.00005	.00003	.00000	.00006	.00001	.00002
%RSD	.37130	3.4431	7.9502	1.1017	.35577	1.6005
#1	.01433	.00085	.00005	.00580	.00271	-.00128
#2	.01431	.00080	.00006	.00567	.00272	-.00130
#3	.01423	.00081	.00005	.00572	.00271	-.00132

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86222.**	**63223.**
Stddev	173.	1098.
%RSD	.20101	1.7360
#1	86420.	62802.
#2	86152.	64469.
#3	86096.	62399.

Approved: February 24, 2011

Sample Name: S3 Acquired: 2/23/2011 9:54:23 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1264) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.06562**	**.46501**	**.00295**	**.03250**	**.39931**	**.10772**	**.06049**
Stddev	.00201	.01299	.00002	.00098	.00139	.00286	.00018
%RSD	3.0663	2.7940	.66710	3.0266	.34846	2.6552	.29247
#1	.06764	.47658	.00296	.03343	.39771	.11023	.06040
#2	.06362	.45095	.00293	.03147	.40010	.10461	.06038
#3	.06561	.46748	.00296	.03260	.40014	.10832	.06069

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00867**	**.02771**	**.08178**	**.01955**	**.02578**	**.20731**	**.09920**
Stddev	.00003	.00009	.00236	.00003	.00009	.00037	.00035
%RSD	.32163	.32746	2.8840	.15515	.35403	.17650	.35514
#1	.00864	.02779	.08394	.01957	.02568	.20703	.09880
#2	.00866	.02761	.07927	.01952	.02583	.20717	.09943
#3	.00870	.02771	.08213	.01958	.02585	.20772	.09938

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01464**	**.03258**	**.03957**	**.77357**	**.01273**	**.00005**	**.00772**
Stddev	.00009	.00011	.00003	.00088	.00003	.00001	.00001
%RSD	.60168	.33203	.08773	.11362	.20781	25.072	.13048
#1	.01474	.03249	.03955	.77258	.01276	.00006	.00773
#2	.01460	.03256	.03961	.77389	.01272	.00004	.00771
#3	.01458	.03270	.03955	.77425	.01271	.00004	.00773

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00351**	**.00146**	**.00006**	**.00890**	**.00179**	**.00079**	**.02392**
Stddev	.00017	.00001	.00001	.00002	.00002	.00001	.00005
%RSD	4.9671	.37709	11.488	.26832	1.3224	1.0228	.22727
#1	-.00369	.00146	.00005	.00892	.00177	.00079	.02398
#2	-.00334	.00146	.00006	.00887	.00181	.00079	.02387
#3	-.00349	.00147	.00005	.00890	.00180	.00078	.02391

Approved: February 24, 2011

Sample Name: S3 Acquired: 2/23/2011 9:54:23 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1264) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.67992**	**.04911**	**.00401**	**.27474**	**.13547**	**-.00075**
Stddev	.00225	.00007	.00000	.00783	.00021	.00005
%RSD	.33134	.13652	.07978	2.8490	.15815	6.7987
#1	.67792	.04919	.00401	.28177	.13570	-.00081
#2	.68236	.04908	.00401	.26631	.13528	-.00074
#3	.67948	.04907	.00402	.27615	.13543	-.00071

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86053.**	**63951.**
Stddev	90.	1465.
%RSD	.10497	2.2910
#1	86001.	62400.
#2	86157.	65311.
#3	86001.	64142.

Approved: February 24, 2011

Sample Name: S4 Acquired: 2/23/2011 9:57:54 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1264) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.13188**	**.93429**	**.00594**	**.06631**	**.79840**	**.22235**	**.12170**
Stddev	.00228	.02176	.00003	.00141	.00127	.00395	.00021
%RSD	1.7320	2.3290	.49790	2.1216	.15863	1.7764	.17354
#1	.12943	.91037	.00595	.06474	.79959	.21786	.12148
#2	.13228	.93958	.00591	.06676	.79856	.22394	.12171
#3	.13394	.95292	.00597	.06744	.79707	.22526	.12190

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01736**	**.05477**	**.16502**	**.03874**	**.05166**	**.41600**	**.20144**
Stddev	.00005	.00006	.00240	.00005	.00009	.00049	.00050
%RSD	.26206	.11495	1.4551	.13419	.17443	.11801	.24832
#1	.01738	.05482	.16236	.03877	.05173	.41543	.20090
#2	.01731	.05470	.16567	.03877	.05168	.41634	.20190
#3	.01740	.05480	.16702	.03868	.05156	.41621	.20151

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02961**	**.06486**	**.07897**	**1.5466**	**.02530**	**.00004**	**.01531**
Stddev	.00007	.00004	.00016	.0041	.00007	.00001	.00001
%RSD	.23628	.06369	.20746	.26565	.29586	15.353	.04650
#1	.02956	.06481	.07912	1.5501	.02537	.00005	.01530
#2	.02959	.06489	.07879	1.5478	.02522	.00005	.01532
#3	.02969	.06486	.07900	1.5421	.02532	.00004	.01531

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00356**	**.00283**	**.00004**	**.01771**	**.00368**	**.00114**	**.04727**
Stddev	.00015	.00001	.00000	.00006	.00001	.00001	.00005
%RSD	4.2276	.18660	11.910	.32032	.38927	.71703	.10311
#1	-.00342	.00283	.00003	.01777	.00369	.00115	.04729
#2	-.00356	.00284	.00004	.01765	.00368	.00115	.04731
#3	-.00372	.00283	.00004	.01772	.00366	.00114	.04722

Approved: February 24, 2011

Sample Name: S4 Acquired: 2/23/2011 9:57:54 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1264) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3715**	**.09940**	**.00777**	**.56025**	**.26956**	**-.00062**
Stddev	.0067	.00031	.00001	.00949	.00054	.00006
%RSD	.48662	.31542	.16702	1.6938	.20193	9.1944
#1	1.3760	.09904	.00777	.54960	.26958	-.00060
#2	1.3746	.09959	.00777	.56336	.27009	-.00068
#3	1.3638	.09958	.00775	.56780	.26901	-.00057

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86167.**	**61369.**
Stddev	1073.	256.
%RSD	1.2447	.41651
#1	86535.	61658.
#2	84959.	61173.
#3	87008.	61275.

Approved: February 24, 2011

Sample Name: ICV Acquired: 2/23/2011 10:01:27 Type: QC
Method: ICP-THERMO2_6010_200.7(v1264) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.42200**	**10.170**	**.41235**	**.51458**	**.98919**	F **.05382**	**9.8346**
Stddev	.00217	.057	.00163	.00380	.00216	.00011	.0364
%RSD	.51347	.56018	.39523	.73825	.21841	.20460	.37033
#1	.42037	10.120	.41078	.51046	.99038	.05374	9.8269
#2	.42117	10.158	.41404	.51531	.98670	.05378	9.8742
#3	.42446	10.232	.41223	.51795	.99050	.05395	9.8026
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	.40000					.05000	
Range	5.0000%					5.0000%	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05220**	**.20812**	**.50498**	**.49543**	**3.9572**	**52.006**	**1.0004**
Stddev	.00022	.00020	.00185	.00135	.0207	.050	.0031
%RSD	.41273	.09622	.36645	.27177	.52305	.09673	.30456
#1	.05201	.20790	.50322	.49388	3.9559	52.064	1.0031
#2	.05216	.20815	.50480	.49631	3.9371	51.976	.99711
#3	.05243	.20830	.50691	.49611	3.9784	51.979	1.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.025**	**.49101**	**1.0293**	F **53.249**	**.49585**	F **7.6824**	**.50044**
Stddev	.047	.00158	.0019	.254	.00120	10.384	.00126
%RSD	.46492	.32217	.18832	.47661	.24140	135.16	.25214
#1	10.005	.48980	1.0271	53.242	.49591	2.5528	.49963
#2	9.9917	.49280	1.0298	52.998	.49701	19.632	.49979
#3	10.078	.49043	1.0309	53.506	.49462	.86191	.50189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value				50.000		10.000	
Range				5.0000%		-5.0000%	

Approved: February 24, 2011

Sample Name: ICV Acquired: 2/23/2011 10:01:27 Type: QC
Method: ICP-THERMO2_6010_200.7(v1264) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.5926**	**9.9310**	F **11.052**	**1.1817**	F **.42034**	F **697.73**	**.99181**
Stddev	9.8206	.0262	.992	.0013	.00293	2.04	.00011
%RSD	114.29	.26389	8.9789	.11333	.69820	.29256	.01147
#1	.04515	9.9605	11.616	1.1802	.41718	695.56	.99170
#2	6.4127	9.9105	9.9063	1.1828	.42298	698.01	.99193
#3	19.320	9.9219	11.634	1.1821	.42085	699.61	.99182
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
Value	10.000		10.000		.40000	5.0000	
Range	-5.0000%		5.0000%		5.0000%	5.0000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99178**	**.99746**	**.50245**	**1.0255**	**1.0056**	F **3.0144**
Stddev	.00814	.00158	.00110	.0032	.0016	.3844
%RSD	.82050	.15822	.21915	.31406	.16226	12.752
#1	.99244	.99568	.50138	1.0224	1.0047	3.1064
#2	.98332	.99805	.50238	1.0252	1.0046	2.5923
#3	.99956	.99867	.50358	1.0288	1.0075	3.3444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						5.0000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87273.**	**62235.**
Stddev	307.	703.
%RSD	.35225	1.1302
#1	87010.	62714.
#2	87611.	62564.
#3	87199.	61427.

Approved: February 24, 2011

Sample Name: ICB Acquired: 2/23/2011 10:05:00 Type: QC
Method: ICP-THERMO2_6010_200.7(v1264) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00822**	**.00013**	**.00187**	**.00067**	**-.00001**	**-.00399**
Stddev	.00025	.00180	.00276	.00064	.00015	.00002	.01380
%RSD	77.485	21.909	2144.2	34.250	22.198	250.02	346.25
#1	-.00026	.00758	.00331	.00179	.00085	.00001	-.00798
#2	-.00011	.00682	-.00168	.00127	.00058	-.00004	-.01535
#3	-.00060	.01025	-.00124	.00254	.00059	.00000	.01137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00010**	**.00013**	**.00064**	**.00207**	**.13544**	**-.00153**
Stddev	.00010	.00016	.00026	.00027	.00376	.00691	.00146
%RSD	250.36	150.34	197.35	42.025	181.26	5.1004	95.730
#1	-.00007	-.00025	-.00008	.00060	.00073	.12930	-.00130
#2	.00007	-.00012	.00042	.00092	-.00083	.14292	-.00019
#3	-.00011	.00006	.00006	.00039	.00632	.13410	-.00309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01765**	**.00054**	**.00077**	**-.00067**	**.00026**	F **21.600**	**-.00004**
Stddev	.01826	.00023	.00008	.00835	.00038	8.506	.00086
%RSD	103.48	42.308	9.8082	1242.2	146.81	39.379	2144.6
#1	.03244	.00057	.00086	.00696	.00058	30.621	.00002
#2	.02326	.00075	.00073	.00061	.00034	20.453	-.00093
#3	-.00276	.00030	.00073	-.00959	-.00015	13.725	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.1000	
Low Limit						-1.0000	

Approved: February 24, 2011

Sample Name: ICB Acquired: 2/23/2011 10:05:00 Type: QC
Method: ICP-THERMO2_6010_200.7(v1264) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **5.2880**	**.07374**	**.69186**	**.00060**	**.00331**	**.53347**	**.00038**
Stddev	.5675	.04836	2.0561	.00074	.00040	.04459	.00026
%RSD	10.731	65.582	297.18	124.51	12.156	8.3578	66.992
#1	4.7614	.09055	3.0014	.00057	.00333	.58483	.00010
#2	5.2137	.11146	.01338	.00135	.00289	.51087	.00060
#3	5.8890	.01922	-.93925	-.00013	.00369	.50471	.00045
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0400						
Low Limit	-1.2000						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00026**	**.00058**	**.00017**	**.00081**	F **-.16897**
Stddev	.00002	.00157	.00030	.00031	.00008	.23982
%RSD	58.149	613.28	52.089	182.19	9.8546	141.93
#1	.00003	.00062	.00092	-.00013	.00090	-.44071
#2	.00005	-.00207	.00038	.00048	.00076	-.07928
#3	.00002	.00068	.00043	.00016	.00077	.01308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86633.**	**62913.**
Stddev	377.	391.
%RSD	.43558	.62203
#1	86198.	63218.
#2	86874.	63050.
#3	86827.	62472.

Approved: February 24, 2011

Sample Name: ICSA Acquired: 2/23/2011 10:08:43 Type: QC
Method: ICP-THERMO2_6010_200.7(v1264) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**225.95**	**.00256**	**-.00507**	**.00161**	**.00006**	**246.66**
Stddev	.00059	4.19	.00246	.00247	.00047	.00000	.70
%RSD	64.848	1.8534	96.131	48.613	28.948	4.6687	.28539
#1	-.00051	229.26	.00382	-.00589	.00135	.00006	247.44
#2	-.00158	227.35	.00414	-.00703	.00215	.00006	246.06
#3	-.00063	221.24	-.00028	-.00230	.00133	.00006	246.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.00168**	**-.00005**	**-.00093**	F **.00556**	**96.817**	**.03972**	**.00674**
Stddev	.00013	.00009	.00043	.00037	.295	.01772	.00236
%RSD	7.6851	168.66	45.478	6.6900	.30484	44.612	35.045
#1	.00158	.00000	-.00124	.00527	97.157	.05315	.00708
#2	.00164	-.00016	-.00112	.00598	96.659	.04638	.00422
#3	.00183	.00000	-.00045	.00543	96.634	.01964	.00891
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.00050			.00500			
Low Limit	-.00050			-.00500			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**250.91**	**-.00155**	**-.00062**	**.00373**	**.00052**	F **803.85**	**-.00419**
Stddev	1.24	.00032	.00023	.01867	.00023	21.13	.00108
%RSD	.49527	20.948	36.468	499.83	44.997	2.6287	25.820
#1	252.26	-.00182	-.00036	.01155	.00079	781.10	-.00375
#2	250.68	-.00163	-.00072	-.01757	.00043	807.60	-.00339
#3	249.80	-.00119	-.00077	.01722	.00035	822.86	-.00542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.50000	
Low Limit						-.50000	

Approved: February 24, 2011

Sample Name: ICSA Acquired: 2/23/2011 10:08:43 Type: QC
Method: ICP-THERMO2_6010_200.7(v1264) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **5.1296**	F **233.41**	F **8.4082**	**.00460**	**.00012**	**.97113**	**.00061**
Stddev	3.5454	.39	3.6341	.00049	.00505	.10551	.00066
%RSD	69.116	.16585	43.221	10.625	4305.0	10.865	108.54
#1	8.2313	233.31	5.7896	.00468	.00271	1.0439	-.00013
#2	5.8928	233.83	12.557	.00503	-.00570	.85012	.00116
#3	1.2648	233.08	6.8778	.00407	.00334	1.0193	.00080
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.04000	.04000	.04000				
Low Limit	-.04000	-.04000	-.04000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**-.00330**	**.00291**	**.00206**	**-.00612**	F **-11.737**
Stddev	.00015	.00137	.00094	.00013	.00016	.354
%RSD	48.504	41.443	32.264	6.5024	2.5734	3.0169
#1	-.00041	-.00267	.00379	.00196	-.00625	-11.663
#2	-.00038	-.00487	.00303	.00200	-.00617	-12.122
#3	-.00014	-.00236	.00192	.00221	-.00594	-11.426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81362.**	**60480.**
Stddev	296.	1007.
%RSD	.36395	1.6648
#1	81703.	60178.
#2	81218.	59658.
#3	81165.	61603.

Approved: February 24, 2011

Sample Name: ICSAB Acquired: 2/23/2011 10:12:28 Type: QC
Method: ICP-THERMO2_6010_200.7(v1264) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50344**	**231.29**	**.24788**	**-.00713**	**.25211**	**.26300**	**247.54**
Stddev	.01853	7.00	.00321	.00318	.00033	.00875	.76
%RSD	3.6809	3.0271	1.2968	44.574	.12920	3.3265	.30877
#1	.51255	235.11	.24621	-.00901	.25210	.26773	247.85
#2	.51565	235.56	.25158	-.00893	.25244	.26836	248.11
#3	.48212	223.21	.24584	-.00346	.25178	.25290	246.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48643**	**.24207**	**.24135**	**.21352**	**97.461**	**5.2467**	**.00571**
Stddev	.00005	.00030	.00819	.00056	.224	.0143	.00069
%RSD	.01056	.12245	3.3936	.26323	.23033	.27286	12.096
#1	.48638	.24238	.24571	.21406	97.643	5.2406	.00528
#2	.48648	.24206	.24644	.21356	97.529	5.2630	.00533
#3	.48643	.24179	.23190	.21293	97.210	5.2364	.00650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**252.62**	**.24153**	**-.00045**	**5.1568**	**.47987**	F **812.64**	**.47303**
Stddev	.43	.00135	.00008	.0256	.00059	13.48	.00095
%RSD	.16927	.55882	18.102	.49678	.12262	1.6584	.19999
#1	252.97	.24299	-.00036	5.1788	.47950	802.93	.47201
#2	252.76	.24127	-.00045	5.1287	.48055	828.03	.47323
#3	252.15	.24033	-.00052	5.1629	.47957	806.96	.47387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.50000	
Low Limit						-.50000	

Approved: February 24, 2011

Sample Name: ICSAB Acquired: 2/23/2011 10:12:28 Type: QC
Method: ICP-THERMO2_6010_200.7(v1264) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.31027**	F **232.50**	F **8.2434**	**.49812**	**.24511**	**.87688**	**.00025**
Stddev	7.2706	.48	3.7840	.00492	.00154	.14776	.00032
%RSD	2343.4	.20847	45.903	.98830	.62653	16.851	130.24
#1	6.4130	232.96	12.531	.49671	.24365	.70626	-.00007
#2	.68250	232.55	5.3703	.49405	.24671	.96175	.00023
#3	-8.0263	231.99	6.8291	.50359	.24498	.96263	.00058
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.60000	.60000	.60000				
Low Limit	.40000	.40000	.40000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00387**	**.45166**	**.25012**	**.47249**	F **-11.838**
Stddev	.00005	.00073	.00045	.00829	.00049	.588
%RSD	67.809	18.869	.10043	3.3136	.10356	4.9635
#1	.00006	-.00374	.45205	.25445	.47292	-11.918
#2	.00012	-.00466	.45176	.25534	.47258	-12.382
#3	.00003	-.00321	.45116	.24056	.47196	-11.215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82718.**	**61205.**
Stddev	232.	1747.
%RSD	.28063	2.8544
#1	82470.	59876.
#2	82753.	60555.
#3	82930.	63184.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 10:16:08 Type: QC
Method: ICP-THERMO2_6010_200.7(v1264) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40020**	**10.149**	**.39647**	**.49986**	**.98865**	**.04987**	**9.8880**
Stddev	.00131	.047	.00055	.00273	.00111	.00027	.0340
%RSD	.32710	.46449	.13991	.54701	.11198	.54297	.34363
#1	.39874	10.142	.39588	.49684	.98912	.04982	9.9252
#2	.40126	10.199	.39698	.50218	.98944	.05016	9.8802
#3	.40061	10.106	.39654	.50055	.98738	.04963	9.8586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04993**	**.20076**	**.49981**	**.49911**	**3.9795**	**49.682**	**.99946**
Stddev	.00000	.00036	.00313	.00087	.0097	.017	.00155
%RSD	.00772	.17895	.62667	.17513	.24364	.03424	.15550
#1	.04993	.20063	.49697	.49940	3.9868	49.695	.99789
#2	.04992	.20117	.50317	.49981	3.9685	49.687	.99950
#3	.04993	.20050	.49929	.49813	3.9832	49.662	1.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.017**	**.49661**	**.99945**	**49.854**	**.50013**	F **6.8086**	**.50184**
Stddev	.041	.00082	.00086	.039	.00026	35.211	.00105
%RSD	.40996	.16523	.08585	.07876	.05114	517.16	.20881
#1	10.045	.49688	.99891	49.867	.49985	43.782	.50260
#2	10.036	.49569	1.0004	49.885	.50021	2.9687	.50064
#3	9.9699	.49726	.99900	49.810	.50034	-26.325	.50227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 10:16:08 Type: QC
Method: ICP-THERMO2_6010_200.7(v1264) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **3.2514**	**10.043**	F **11.765**	**1.1968**	**.39557**	F **4.2739**	**1.0042**
Stddev	2.4583	.031	1.727	.0040	.00374	.0748	.0018
%RSD	75.607	.31023	14.676	.33485	.94508	1.7510	.17795
#1	4.1415	10.040	10.765	1.1988	.39549	4.3183	1.0033
#2	.47208	10.076	13.759	1.1994	.39187	4.3159	1.0062
#3	5.1407	10.013	10.771	1.1922	.39935	4.1875	1.0030
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99463**	**1.0031**	**.50824**	**.99510**	**.99488**	F **.87296**
Stddev	.00064	.0004	.00244	.00618	.00051	.41764
%RSD	.06423	.03721	.47911	.62071	.05164	47.842
#1	.99526	1.0031	.50877	.98814	.99428	.52195
#2	.99398	1.0034	.51036	.99994	.99518	1.3349
#3	.99465	1.0027	.50558	.99722	.99516	.76208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86177.**	**63199.**
Stddev	200.	430.
%RSD	.23184	.68029
#1	86321.	63577.
#2	86261.	62731.
#3	85949.	63289.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 10:19:40 Type: QC
Method: ICP-THERMO2_6010_200.7(v1264) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.01610**	**-.00056**	**.00121**	**.00066**	**.00000**	**-.00905**
Stddev	.00129	.00182	.00133	.00023	.00055	.0000	.02704
%RSD	404.34	11.313	236.29	19.194	84.116	473.66	298.90
#1	-.00001	.01469	-.00208	.00095	.00042	.00000	-.02021
#2	.00174	.01816	.00004	.00131	.00129	-.00003	.02179
#3	-.00077	.01545	.00036	.00138	.00027	.00001	-.02872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00008**	**.00031**	**.00009**	**.00620**	**.06487**	**-.00228**
Stddev	.00011	.00019	.00015	.00022	.00578	.07999	.00154
%RSD	432.00	222.63	47.447	239.30	93.299	123.30	67.597
#1	-.00008	-.00006	.00019	.00014	.00663	.01976	-.00284
#2	.00002	.00030	.00027	-.00014	.01175	.15722	-.00054
#3	.00014	.00001	.00048	.00028	.00021	.01763	-.00345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**-.00036**	**.00080**	**-.00366**	**.00084**	F **29.696**	**-.00050**
Stddev	.01710	.00024	.00015	.01469	.00057	8.548	.00152
%RSD	1171.7	67.449	18.682	401.13	68.343	28.786	305.45
#1	-.01866	-.00063	.00091	.01118	.00019	37.262	-.00083
#2	.01553	-.00027	.00063	-.00398	.00104	31.404	.00116
#3	-.00124	-.00017	.00087	-.01819	.00129	20.423	-.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 10:19:40 Type: QC
Method: ICP-THERMO2_6010_200.7(v1264) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **17.806**	**.03744**	F **2.7676**	**-.00126**	**.00531**	**-.16001**	**.00026**
Stddev	5.917	.01777	3.5344	.00172	.00174	.04816	.00017
%RSD	33.232	47.471	127.71	136.69	32.815	30.099	65.577
#1	11.036	.03958	-.35437	.00053	.00713	-.14695	.00017
#2	20.393	.01869	2.0523	-.00140	.00367	-.11973	.00046
#3	21.989	.05404	6.6050	-.00290	.00512	-.21336	.00015
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00086**	**.00083**	**.00020**	**.00001**	F **-.76337**
Stddev	.00020	.00026	.00019	.00043	.00005	.49542
%RSD	147.80	29.891	22.636	211.26	748.13	64.899
#1	.00007	-.00058	.00087	.00069	-.00004	-.70404
#2	.00037	-.00108	.00100	-.00010	.00001	-1.2858
#3	-.00002	-.00091	.00063	.00002	.00006	-.30029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89005.**	**61181.**
Stddev	1452.	576.
%RSD	1.6317	.94140
#1	87461.	61794.
#2	89208.	60651.
#3	90345.	61098.

Approved: February 24, 2011

Sample Name: PBS 89 Acquired: 2/23/2011 10:30:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357236-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.01513**	**-.00189**	**.00063**	**.00110**	**.00002**	**.01338**
Stddev	.00053	.00129	.00139	.00117	.00012	.00001	.00806
%RSD	188.26	8.5580	73.635	187.52	11.022	24.145	60.268
#1	.00031	.01625	-.00073	-.00065	.00096	.00002	.01037
#2	-.00071	.01542	-.00343	.00166	.00114	.00003	.02251
#3	-.00044	.01371	-.00151	.00087	.00119	.00002	.00725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00045**	**.00074**	**.00100**	**.01629**	**.03883**	**-.00249**
Stddev	.00014	.00015	.00033	.00106	.00488	.01549	.00244
%RSD	70.546	33.651	44.393	105.94	29.951	39.892	97.906
#1	.00004	-.00055	.00108	.00210	.01553	.05485	-.00530
#2	.00024	-.00027	.00043	.00090	.01184	.02393	-.00083
#3	.00031	-.00052	.00070	-.00001	.02151	.03771	-.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01239**	**.00016**	**.00050**	**-.02514**	**.00141**	**76.617**	**-.00001**
Stddev	.02919	.00023	.00008	.01126	.00093	19.097	.00105
%RSD	235.67	147.90	15.995	44.782	66.279	24.926	10918.
#1	-.01409	.00016	.00041	-.02368	.00224	95.413	.00119
#2	-.04069	-.00007	.00056	-.01468	.00158	77.207	-.00078
#3	.01762	.00039	.00053	-.03705	.00040	57.231	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 24, 2011

Sample Name: PBS 89 Acquired: 2/23/2011 10:30:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357236-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **13.229**	**.04329**	**2.6498**	**.00278**	**.00481**	**2.6478**	**.00058**
Stddev	1.980	.03576	4.1342	.00107	.00118	.5600	.00028
%RSD	14.967	82.590	156.02	38.522	24.415	21.151	47.127
#1	15.463	.01181	7.2419	.00155	.00532	2.1015	.00039
#2	12.537	.03590	-.77578	.00346	.00347	3.2206	.00090
#3	11.689	.08217	1.4833	.00334	.00565	2.6212	.00047
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00014**	**.00025**	**.00016**	**.00477**	F **-.64498**
Stddev	.00006	.00090	.00137	.00020	.00003	.84856
%RSD	503.49	665.59	540.41	122.74	.54532	131.56
#1	.00000	.00088	.00167	.00038	.00479	-.17200
#2	.00008	-.00083	.00017	.00000	.00474	-1.6246
#3	-.00004	-.00046	-.00107	.00010	.00478	-.13833
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84210.**	**58968.**
Stddev	1616.	257.
%RSD	1.9196	.43534
#1	86037.	58888.
#2	83629.	58760.
#3	82965.	59255.

Approved: February 24, 2011

Sample Name: LCSS 89 Acquired: 2/23/2011 10:34:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357236-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19521**	**.00970**	**.18351**	**.00147**	**.00048**	**.00000**	**.00190**
Stddev	.00181	.00242	.00266	.00143	.00015	.0000	.00199
%RSD	.92794	24.892	1.4478	97.679	30.577	1557.6	104.72
#1	.19518	.00968	.18323	.00198	.00058	-.00002	.00353
#2	.19704	.01213	.18630	.00257	.00054	-.00002	-.00032
#3	.19341	.00730	.18101	-.00015	.00031	.00003	.00249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02392**	**-.00042**	**.00077**	**.24804**	**.00501**	**.04395**	**-.00041**
Stddev	.00006	.00006	.00029	.00136	.00151	.03624	.00111
%RSD	.24792	13.447	37.672	.54998	30.106	82.455	273.94
#1	.02387	-.00049	.00071	.24765	.00655	.07881	.00003
#2	.02392	-.00041	.00051	.24955	.00354	.00647	-.00167
#3	.02399	-.00038	.00108	.24691	.00492	.04657	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**.25433**	**.00023**	**-.01612**	**.00159**	**62.296**	**.25422**
Stddev	.02812	.00292	.00038	.00874	.00028	23.251	.00075
%RSD	4139.7	1.1489	165.60	54.188	17.536	37.323	.29364
#1	-.00478	.25269	.00054	-.01561	.00190	55.278	.25433
#2	.03113	.25259	-.00020	-.02510	.00146	43.363	.25491
#3	-.02431	.25770	.00036	-.00765	.00139	88.248	.25342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 24, 2011

Sample Name: LCSS 89 Acquired: 2/23/2011 10:34:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357236-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.248**	F **-.01281**	**4.3246**	**.00187**	**.00651**	**1.7328**	**.00040**
Stddev	3.642	.03405	.9420	.00161	.00113	.1900	.00025
%RSD	32.381	265.82	21.783	85.645	17.297	10.964	62.350
#1	7.5577	-.04787	5.1888	.00368	.00749	1.7494	.00013
#2	14.840	-.01068	4.4648	.00061	.00528	1.9139	.00062
#3	11.346	.02013	3.3204	.00133	.00675	1.5351	.00044
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000					
Low Limit	-.00400	-.00400					

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00046**	**-.00079**	**.00024**	**.00156**	F **-1.3203**
Stddev	.00017	.00170	.00059	.00016	.00005	.6232
%RSD	73.682	369.63	74.406	66.163	3.5016	47.203
#1	.00013	.00079	-.00136	.00022	.00154	-.83120
#2	.00042	-.00240	-.00019	.00041	.00162	-2.0220
#3	.00014	.00023	-.00082	.00009	.00151	-1.1077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85273.**	**61036.**
Stddev	2040.	583.
%RSD	2.3924	.95467
#1	84560.	61238.
#2	83686.	60380.
#3	87574.	61492.

Approved: February 24, 2011

Sample Name: L1102041622 Acquired: 2/23/2011 10:38:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357236-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00146**	**105.71**	**.08923**	**.02015**	**2.4493**	**.00962**	**846.66**
Stddev	.00157	5.51	.00042	.00448	.0106	.00048	22.56
%RSD	107.54	5.2126	.47188	22.215	.43449	4.9831	2.6643
#1	.00153	99.665	.08900	.02401	2.4377	.00913	820.77
#2	-.00014	107.00	.08971	.02120	2.4514	.00964	862.07
#3	.00300	110.46	.08896	.01524	2.4587	.01009	857.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00640**	**.09257**	**.19034**	**.40472**	**194.72**	**23.126**	**.19608**
Stddev	.00008	.00051	.00957	.00546	1.63	.165	.00242
%RSD	1.2443	.55618	5.0292	1.3495	.83597	.71231	1.2335
#1	.00632	.09302	.18068	.41004	192.92	22.936	.19744
#2	.00647	.09269	.19052	.40497	195.17	23.230	.19329
#3	.00642	.09201	.19982	.39913	196.08	23.213	.19751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**85.337**	**3.8430**	**.01056**	**6.0894**	**.19136**	F **-46495.**	**.41956**
Stddev	.833	.0359	.00033	.0270	.00085	99.	.00313
%RSD	.97646	.93480	3.1062	.44366	.44633	.21357	.74719
#1	84.393	3.8024	.01085	6.0593	.19232	-46589.	.42308
#2	85.649	3.8561	.01020	6.0972	.19070	-46506.	.41854
#3	85.970	3.8706	.01063	6.1116	.19105	-46391.	.41706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041622 Acquired: 2/23/2011 10:38:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357236-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-7.1449**	F **927.13**	F **-5362.2**	**.01298**	**.00679**	F **298.89**	**.01749**
Stddev	6.1368	6.01	14.7	.00238	.00273	1.89	.00021
%RSD	85.891	.64837	.27348	18.362	40.279	.63396	1.2208
#1	-13.086	932.41	-5364.7	.01143	.00365	300.58	.01732
#2	-7.5189	928.40	-5346.5	.01177	.00867	299.25	.01773
#3	-.8296	920.59	-5375.5	.01572	.00805	296.84	.01744
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9231**	**.44342**	**.00841**	**.31260**	**.96113**	F **212.16**
Stddev	.0070	.00417	.00023	.01477	.00625	8.62
%RSD	.36292	.93978	2.7513	4.7246	.65029	4.0643
#1	1.9165	.43866	.00861	.29776	.96576	203.68
#2	1.9224	.44523	.00845	.31276	.96360	211.89
#3	1.9304	.44638	.00816	.32729	.95402	220.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80748.**	**63386.**
Stddev	939.	2272.
%RSD	1.1626	3.5845
#1	80210.	65793.
#2	80202.	63087.
#3	81832.	61279.

Approved: February 24, 2011

Sample Name: L1102041622S Acquired: 2/23/2011 10:42:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357236-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17394**	**108.68**	**.26525**	**.01897**	**2.4833**	**.00971**	**819.59**
Stddev	.00705	5.86	.00084	.00216	.0032	.00035	38.25
%RSD	4.0511	5.3931	.31754	11.390	.12818	3.6231	4.6666
#1	.18172	115.22	.26512	.01653	2.4869	.01011	860.96
#2	.16798	103.91	.26615	.02066	2.4823	.00945	785.52
#3	.17213	106.90	.26449	.01971	2.4808	.00956	812.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05087**	**.09171**	**.19384**	**.57685**	**195.50**	**23.675**	**.19748**
Stddev	.00014	.00018	.00743	.00121	1.12	.125	.00215
%RSD	.28063	.19292	3.8336	.21061	.57531	.52933	1.0867
#1	.05101	.09183	.20230	.57646	196.77	23.766	.19958
#2	.05088	.09151	.18836	.57587	195.12	23.532	.19529
#3	.05073	.09179	.19086	.57821	194.62	23.727	.19759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**85.960**	**4.0488**	**.00795**	**6.0468**	**.18366**	F **-45749.**	**.60663**
Stddev	.872	.0187	.00032	.0318	.00056	66.	.00226
%RSD	1.0141	.46168	3.9811	.52524	.30385	.14425	.37225
#1	86.950	4.0701	.00761	6.0804	.18316	-45764.	.60615
#2	85.621	4.0413	.00801	6.0428	.18355	-45806.	.60908
#3	85.309	4.0350	.00824	6.0172	.18426	-45677.	.60464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041622S Acquired: 2/23/2011 10:42:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357236-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-7.8607**	F **926.27**	F **-5346.8**	**.01458**	**.00692**	F **316.52**	**.01997**
Stddev	5.9281	2.40	22.8	.00142	.00077	2.53	.00036
%RSD	75.414	.25891	.42567	9.7433	11.110	.79963	1.8043
#1	-1.5376	926.31	-5352.4	.01589	.00630	317.45	.02018
#2	-8.7516	923.86	-5366.3	.01307	.00668	318.46	.02018
#3	-13.293	928.65	-5321.8	.01478	.00778	313.66	.01956
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9404**	**.47225**	**.00910**	**.32713**	**.83894**	F **218.58**
Stddev	.0059	.00252	.00209	.01275	.00241	8.61
%RSD	.30307	.53371	22.956	3.8965	.28743	3.9409
#1	1.9420	.47508	.01149	.34146	.84085	228.14
#2	1.9452	.47023	.00763	.31704	.83623	211.43
#3	1.9338	.47146	.00817	.32291	.83973	216.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82391.**	**64128.**
Stddev	667.	2836.
%RSD	.80945	4.4221
#1	82091.	60873.
#2	83155.	65450.
#3	81926.	66061.

Approved: February 24, 2011

Sample Name: L1102041622SD Acquired: 2/23/2011 10:45:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357236-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17764**	**125.00**	**.27592**	**.02331**	**2.6438**	**.01031**	**857.29**
Stddev	.00187	1.87	.00317	.00137	.0137	.00013	5.26
%RSD	1.0549	1.4971	1.1474	5.8841	.51735	1.2872	.61382
#1	.17569	124.01	.27227	.02442	2.6590	.01020	851.99
#2	.17782	123.83	.27789	.02178	2.6398	.01027	857.38
#3	.17942	127.16	.27760	.02375	2.6326	.01046	862.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03037**	**.09973**	**.22349**	**.60712**	**226.92**	**28.141**	**.21870**
Stddev	.00003	.00044	.00251	.00362	.91	.125	.00199
%RSD	.10625	.44202	1.1253	.59632	.40215	.44302	.90888
#1	.03041	.09939	.22088	.60331	227.97	28.285	.21925
#2	.03036	.09957	.22368	.60755	226.50	28.069	.21650
#3	.03035	.10022	.22590	.61051	226.29	28.069	.22036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**95.109**	**4.3168**	**.00795**	**6.3928**	**.20563**	F **-48542.**	**.62484**
Stddev	.165	.0109	.00026	.0267	.00140	195.	.00066
%RSD	.17320	.25142	3.3139	.41758	.67917	.40070	.10584
#1	95.205	4.3289	.00824	6.4231	.20448	-48443.	.62418
#2	95.203	4.3133	.00772	6.3729	.20522	-48417.	.62551
#3	94.919	4.3081	.00791	6.3822	.20718	-48766.	.62484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041622SD Acquired: 2/23/2011 10:45:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357236-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-11.979**	F **953.93**	F **-5505.0**	**.01440**	**.00944**	F **359.48**	**.01778**
Stddev	2.664	3.57	29.2	.00229	.00251	.94	.00081
%RSD	22.243	.37419	.52999	15.869	26.559	.26163	4.5789
#1	-9.1872	951.55	-5497.9	.01651	.00658	358.46	.01734
#2	-14.495	952.20	-5480.0	.01471	.01050	360.32	.01728
#3	-12.255	958.03	-5537.1	.01198	.01125	359.64	.01872
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9865**	**.57123**	**.01056**	**.36661**	**1.1257**	F **241.92**
Stddev	.0154	.00403	.00186	.00473	.0026	2.94
%RSD	.77596	.70537	17.593	1.2892	.23127	1.2142
#1	2.0039	.57305	.01261	.36193	1.1236	238.88
#2	1.9812	.57403	.00899	.36652	1.1249	242.16
#3	1.9745	.56662	.01007	.37138	1.1286	244.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79573.**	**63060.**
Stddev	87.	670.
%RSD	.10882	1.0628
#1	79473.	63398.
#2	79629.	63494.
#3	79617.	62288.

Approved: February 24, 2011

Sample Name: L1102054131 Acquired: 2/23/2011 10:49:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00423**	**24.794**	**.03226**	**.00193**	**2.3147**	**.00432**	**34.788**
Stddev	.00092	.571	.00100	.00036	.0100	.00012	.184
%RSD	21.628	2.3009	3.1030	18.690	.43297	2.6708	.52802
#1	.00529	24.268	.03116	.00231	2.3032	.00421	34.610
#2	.00366	24.714	.03311	.00190	2.3198	.00431	34.776
#3	.00375	25.400	.03253	.00159	2.3211	.00444	34.977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01826**	**.03168**	**.08016**	**1.1906**	**64.397**	**6.8234**	**.02674**
Stddev	.00005	.00018	.00218	.0041	.471	.0752	.00250
%RSD	.29535	.58403	2.7165	.34081	.73173	1.1021	9.3403
#1	.01820	.03186	.07784	1.1861	63.871	6.8115	.02414
#2	.01830	.03167	.08050	1.1917	64.537	6.9038	.02913
#3	.01829	.03149	.08216	1.1940	64.782	6.7548	.02696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.8533**	**7.7299**	**.00731**	**.19076**	**.04064**	F **-57817.**	**6.3180**
Stddev	.0107	.0464	.00031	.00481	.00105	200.	.0182
%RSD	.15597	.59975	4.1724	2.5202	2.5758	.34578	.28861
#1	6.8436	7.6822	.00765	.19125	.03973	-57604.	6.3025
#2	6.8515	7.7329	.00707	.18573	.04041	-57846.	6.3135
#3	6.8647	7.7748	.00720	.19531	.04178	-58001.	6.3381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054131 Acquired: 2/23/2011 10:49:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.7808**	F **121.04**	F **-5200.6**	**.00876**	**.00919**	**73.402**	**.10148**
Stddev	3.5788	.30	27.5	.00209	.00379	.664	.00089
%RSD	40.757	.24866	.52794	23.834	41.214	.90433	.87284
#1	6.2660	120.70	-5174.0	.00692	.00595	73.358	.10130
#2	7.1985	121.17	-5198.8	.01103	.00827	74.087	.10244
#3	12.878	121.25	-5228.9	.00832	.01335	72.762	.10070
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13144**	**.09397**	**.00664**	**.05048**	**5.5771**	**9.9335**
Stddev	.00041	.00058	.00022	.00109	.0065	.3615
%RSD	.31482	.61293	3.3836	2.1500	.11587	3.6394
#1	.13102	.09331	.00687	.04931	5.5697	9.5200
#2	.13184	.09424	.00643	.05066	5.5817	10.091
#3	.13148	.09436	.00662	.05146	5.5799	10.190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89097.**	**63565.**
Stddev	501.	1779.
%RSD	.56255	2.7985
#1	88749.	65349.
#2	88872.	63556.
#3	89672.	61791.

Approved: February 24, 2011

Sample Name: L1102054131PS Acquired: 2/23/2011 10:53:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357319-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21559**	**29.766**	**.23173**	**1.0537**	**2.8842**	**.03030**	**40.348**
Stddev	.00410	.303	.00133	.0147	.0037	.00035	.044
%RSD	1.9032	1.0179	.57360	1.3915	.12854	1.1692	.10973
#1	.21799	29.886	.23040	1.0634	2.8836	.03045	40.374
#2	.21793	29.990	.23172	1.0609	2.8881	.03056	40.297
#3	.21085	29.421	.23306	1.0369	2.8807	.02990	40.373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04378**	**.13252**	**.33381**	**1.4377**	**67.893**	**32.134**	**.52834**
Stddev	.00009	.00031	.00454	.0016	.107	.078	.00045
%RSD	.20131	.23063	1.3592	.11085	.15824	.24269	.08488
#1	.04382	.13218	.33526	1.4359	67.926	32.047	.52854
#2	.04384	.13276	.33744	1.4388	67.979	32.196	.52783
#3	.04368	.13263	.32872	1.4385	67.772	32.159	.52866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.992**	**8.1038**	**.51925**	**25.982**	**.29008**	F **-59366.**	**6.5396**
Stddev	.036	.0072	.00031	.058	.00111	146.	.0100
%RSD	.29651	.08922	.05920	.22156	.38389	.24545	.15326
#1	11.983	8.1057	.51900	26.017	.28927	-59419.	6.5287
#2	12.031	8.0958	.51917	26.014	.29135	-59477.	6.5485
#3	11.961	8.1099	.51960	25.916	.28961	-59201.	6.5414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054131PS Acquired: 2/23/2011 10:53:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357319-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **13.040**	F **127.24**	F **-5341.5**	**.60284**	**.21395**	F **433.31**	**.10482**
Stddev	1.635	.22	7.6	.00192	.00268	.69	.00017
%RSD	12.541	.17654	.14198	.31837	1.2516	.15841	.16169
#1	14.639	127.01	-5345.6	.60102	.21313	432.78	.10462
#2	11.370	127.46	-5332.8	.60265	.21694	434.08	.10490
#3	13.110	127.26	-5346.2	.60484	.21178	433.05	.10493
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.62730**	**.59394**	**.26129**	**.56642**	**6.1256**	**11.253**
Stddev	.00099	.00087	.00092	.00927	.0134	.991
%RSD	.15823	.14577	.35196	1.6360	.21806	8.8085
#1	.62690	.59370	.26084	.57234	6.1109	10.110
#2	.62843	.59322	.26069	.57118	6.1370	11.773
#3	.62657	.59490	.26235	.55574	6.1289	11.876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87042.**	**63174.**
Stddev	283.	465.
%RSD	.32483	.73579
#1	87273.	63164.
#2	86727.	62715.
#3	87126.	63645.

Approved: February 24, 2011

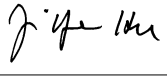
Sample Name: L1102054131SDL Acquired: 2/23/2011 10:56:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357319-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**5.3096**	**.00756**	**.00185**	**.46364**	**.00086**	**6.9663**
Stddev	.00019	.0561	.00069	.00054	.00056	.00004	.0155
%RSD	632.90	1.0566	9.1831	29.319	.12160	4.4439	.22190
#1	-.00022	5.2835	.00825	.00141	.46324	.00089	6.9579
#2	-.00002	5.2712	.00757	.00169	.46339	.00086	6.9842
#3	.00015	5.3740	.00686	.00246	.46428	.00082	6.9569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00371**	**.00665**	**.01658**	**.24434**	**13.089**	**1.4543**	**.00577**
Stddev	.00013	.00026	.00071	.00157	.010	.0612	.00274
%RSD	3.5563	3.8761	4.2839	.64063	.07325	4.2107	47.588
#1	.00377	.00694	.01728	.24294	13.095	1.5013	.00524
#2	.00356	.00655	.01661	.24404	13.095	1.4765	.00874
#3	.00380	.00645	.01586	.24603	13.078	1.3851	.00333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3669**	**1.5636**	**.00157**	**.01626**	**.00808**	F **-11802.**	**1.3024**
Stddev	.0069	.0036	.00006	.01623	.00039	51.	.0087
%RSD	.50526	.23194	3.9410	99.803	4.8118	.43372	.66649
#1	1.3634	1.5595	.00158	-.00246	.00828	-11745.	1.2938
#2	1.3749	1.5662	.00150	.02634	.00833	-11818.	1.3022
#3	1.3624	1.5652	.00162	.02491	.00763	-11843.	1.3112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011



Sample Name: L1102054131SDL Acquired: 2/23/2011 10:56:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357319-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **18.168**	F **24.809**	F **-1060.9**	**.00089**	**.00303**	**14.557**	**.01850**
Stddev	3.839	.084	5.6	.00183	.00161	.440	.00038
%RSD	21.129	.33791	.52607	205.87	53.040	3.0191	2.0374
#1	20.373	24.885	-1061.5	.00197	.00118	14.332	.01862
#2	13.736	24.719	-1055.0	-.00122	.00379	14.276	.01880
#3	20.396	24.824	-1066.1	.00191	.00412	15.064	.01808
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02673**	**.01670**	**.00295**	**.01040**	**1.1463**	**.15841**
Stddev	.00011	.00135	.00030	.00030	.0057	.30171
%RSD	.42083	8.0951	10.278	2.9030	.49702	190.46
#1	.02667	.01780	.00313	.01015	1.1404	.50607
#2	.02666	.01712	.00313	.01073	1.1467	-.03490
#3	.02686	.01519	.00260	.01032	1.1518	.00406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87837.**	**62149.**
Stddev	1082.	410.
%RSD	1.2315	.66040
#1	88879.	62189.
#2	87913.	62539.
#3	86720.	61721.

Approved: February 24, 2011

Sample Name: L1102054131SDL Acquired: 2/23/2011 11:00:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357319-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**1.0844**	**.00171**	**.00122**	**.09085**	**.00014**	**1.3293**
Stddev	.00040	.0101	.00093	.00076	.00076	.00003	.0157
%RSD	52.434	.93063	54.699	62.548	.83554	22.664	1.1840
#1	.00034	1.0750	.00129	.00085	.09156	.00018	1.3466
#2	.00083	1.0832	.00105	.00071	.09095	.00012	1.3159
#3	.00114	1.0951	.00278	.00209	.09005	.00013	1.3254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00167**	**.00341**	**.04750**	**2.5071**	**.24422**	**-.00152**
Stddev	.00003	.00011	.00027	.00017	.0201	.00796	.00181
%RSD	4.7821	6.6347	7.8109	.36797	.80293	3.2578	119.01
#1	.00060	.00172	.00313	.04734	2.5260	.25205	-.00295
#2	.00057	.00155	.00344	.04748	2.5095	.24447	-.00214
#3	.00063	.00175	.00367	.04769	2.4859	.23614	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27278**	**.30368**	**.00016**	**.00302**	**.00073**	F **-2259.3**	**.25760**
Stddev	.01843	.00052	.00025	.00899	.00017	23.1	.00239
%RSD	6.7554	.17235	158.74	297.91	22.548	1.0233	.92971
#1	.25789	.30418	.00014	.00968	.00061	-2285.8	.25484
#2	.26708	.30314	-.00008	-.00721	.00092	-2243.3	.25880
#3	.29339	.30373	.00041	.00658	.00067	-2248.8	.25916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054131SDL Acquired: 2/23/2011 11:00:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357319-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **18.631**	**4.8137**	F **-202.22**	**-.00027**	**.00078**	**2.1195**	**.00218**
Stddev	5.792	.0136	.92	.00149	.00065	.1398	.00070
%RSD	31.087	.28340	.45277	560.69	82.871	6.5947	32.010
#1	13.337	4.8278	-203.22	-.00198	.00071	2.2506	.00294
#2	17.738	4.8125	-201.42	.00071	.00017	2.1355	.00204
#3	24.817	4.8006	-202.01	.00047	.00146	1.9724	.00156
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00529**	**.00337**	**.00192**	**.00205**	**.22709**	F **-.53345**
Stddev	.00016	.00150	.00093	.00013	.00108	.35801
%RSD	3.0391	44.381	48.287	6.5306	.47754	67.112
#1	.00546	.00464	.00088	.00217	.22616	-.53958
#2	.00514	.00172	.00265	.00208	.22682	-.88836
#3	.00528	.00376	.00224	.00190	.22828	-.17242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86860.**	**60683.**
Stddev	162.	799.
%RSD	.18633	1.3159
#1	87042.	61521.
#2	86808.	60597.
#3	86731.	59931.

Approved: February 24, 2011

Sample Name: L1102054132 Acquired: 2/23/2011 11:03:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**24.008**	**.03632**	**-.00024**	**2.1024**	**.00573**	**23.363**
Stddev	.00061	.248	.00076	.00108	.0045	.00005	.154
%RSD	12.080	1.0325	2.1011	455.36	.21470	.84170	.66049
#1	.00444	23.861	.03561	-.00103	2.0973	.00573	23.206
#2	.00565	23.868	.03622	.00100	2.1056	.00567	23.369
#3	.00494	24.294	.03713	-.00068	2.1044	.00577	23.514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01670**	**.03996**	**.07756**	**1.4787**	**66.383**	**6.3677**	**.02690**
Stddev	.00013	.00022	.00074	.0114	.109	.0341	.00056
%RSD	.77884	.54424	.95982	.76909	.16393	.53560	2.0634
#1	.01660	.03973	.07742	1.4667	66.260	6.3776	.02627
#2	.01666	.04001	.07690	1.4800	66.424	6.3297	.02734
#3	.01685	.04016	.07837	1.4893	66.465	6.3957	.02709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.2099**	**10.657**	**.00559**	**.21361**	**.03953**	F **-45925.**	**6.0198**
Stddev	.0863	.034	.00013	.00200	.00042	250.	.0386
%RSD	1.3896	.32243	2.3755	.93677	1.0644	.54417	.64153
#1	6.3095	10.627	.00557	.21205	.03905	-45642.	5.9804
#2	6.1579	10.649	.00573	.21291	.03968	-46020.	6.0214
#3	6.1622	10.695	.00547	.21587	.03985	-46114.	6.0576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054132 Acquired: 2/23/2011 11:03:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.6314**	F **77.825**	F **-3260.9**	**.01268**	**.01207**	**75.935**	**.27056**
Stddev	4.9269	.656	13.7	.00104	.00265	.513	.00218
%RSD	74.296	.84333	.41909	8.1916	21.939	.67552	.80732
#1	1.4598	77.089	-3248.3	.01222	.01407	75.902	.26864
#2	11.270	78.035	-3258.8	.01195	.00906	76.463	.27294
#3	7.1640	78.351	-3275.4	.01387	.01306	75.439	.27011
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11178**	**.10506**	**.00847**	**.04718**	**5.3907**	**10.297**
Stddev	.00072	.00178	.00065	.00049	.0448	.697
%RSD	.64661	1.6958	7.6991	1.0451	.83121	6.7690
#1	.11229	.10493	.00827	.04682	5.3406	9.6464
#2	.11210	.10335	.00795	.04697	5.4046	10.213
#3	.11095	.10691	.00920	.04774	5.4269	11.033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88246.**	**63340.**
Stddev	388.	267.
%RSD	.43997	.42218
#1	88572.	63035.
#2	87816.	63534.
#3	88350.	63450.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 11:07:24 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40147**	**10.154**	**.39421**	**.49953**	**.98193**	**.04904**	**9.8540**
Stddev	.00276	.057	.00162	.00322	.00047	.00025	.0170
%RSD	.68790	.56459	.41140	.64433	.04775	.50524	.17302
#1	.40465	10.219	.39448	.50319	.98172	.04932	9.8586
#2	.40014	10.133	.39247	.49827	.98160	.04895	9.8682
#3	.39963	10.110	.39568	.49714	.98246	.04884	9.8351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04942**	**.19922**	**.49668**	**.49456**	**3.9760**	**49.620**	**.98558**
Stddev	.00011	.00018	.00226	.00052	.0163	.083	.00157
%RSD	.21285	.08980	.45416	.10460	.41039	.16800	.15927
#1	.04931	.19916	.49903	.49429	3.9880	49.524	.98679
#2	.04942	.19908	.49453	.49422	3.9574	49.668	.98381
#3	.04952	.19943	.49648	.49515	3.9825	49.669	.98615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.8747**	**.49345**	**.98877**	**49.339**	**.49734**	F **-73.634**	**.49695**
Stddev	.0299	.00155	.00085	.031	.00077	38.644	.00061
%RSD	.30258	.31484	.08606	.06299	.15490	52.481	.12315
#1	9.8404	.49523	.98905	49.359	.49653	-29.746	.49642
#2	9.8949	.49272	.98944	49.354	.49806	-102.56	.49682
#3	9.8888	.49239	.98781	49.303	.49743	-88.598	.49762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 11:07:24 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.213**	**10.121**	F **7.2229**	**1.1880**	**.39503**	F **4.2184**	**1.0021**
Stddev	4.768	.068	2.7511	.0029	.00505	.2299	.0014
%RSD	42.523	.67360	38.089	.24675	1.2780	5.4505	.14138
#1	12.395	10.103	8.9884	1.1904	.39701	4.1239	1.0006
#2	5.9652	10.065	4.0530	1.1890	.39879	4.4805	1.0023
#3	15.279	10.197	8.6273	1.1848	.38930	4.0507	1.0034
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		-10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97629**	**.99012**	**.50703**	**.99043**	**.99287**	F **1.4023**
Stddev	.00136	.00063	.00078	.00384	.00130	.2347
%RSD	.13940	.06344	.15455	.38801	.13049	16.736
#1	.97753	.99058	.50783	.99483	.99329	1.6731
#2	.97483	.98940	.50626	.98875	.99141	1.2778
#3	.97650	.99037	.50700	.98771	.99390	1.2561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85734.**	**62959.**
Stddev	318.	188.
%RSD	.37124	.29812
#1	85487.	62781.
#2	86093.	63155.
#3	85622.	62940.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 11:10:56 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00160**	**.02051**	**.00095**	**.00304**	**.00103**	**.00000**	**-.04337**
Stddev	.00018	.00070	.00131	.00107	.00027	.0000	.01808
%RSD	10.914	3.3962	137.81	35.200	26.223	1258.4	41.695
#1	-.00141	.02062	-.00027	.00201	.00126	-.00001	-.06307
#2	-.00176	.02114	.00234	.00414	.00073	.00000	-.03950
#3	-.00164	.01976	.00078	.00295	.00110	.00000	-.02753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00010**	**.00033**	**.00033**	**.00730**	**.08463**	**-.00222**
Stddev	.00004	.00017	.00042	.00065	.00283	.01239	.00161
%RSD	69.577	174.27	127.27	198.09	38.729	14.640	72.219
#1	-.00003	.00006	.00076	-.00041	.01004	.07033	-.00037
#2	-.00003	-.00007	-.00008	.00056	.00747	.09167	-.00323
#3	-.00010	-.00027	.00030	.00084	.00439	.09190	-.00307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00924**	**.00015**	**.00077**	**-.02313**	**-.00016**	F **-11.496**	**.00126**
Stddev	.01809	.00041	.00026	.01452	.00044	29.375	.00153
%RSD	195.67	281.21	33.320	62.773	279.96	255.53	121.60
#1	.01423	.00050	.00064	-.03944	-.00008	-9.3471	-.00017
#2	-.01081	-.00031	.00106	-.01162	-.00063	-41.887	.00107
#3	.02431	.00025	.00060	-.01833	.00024	16.746	.00287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 11:10:56 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.426**	**.03260**	F **1.5861**	**.00100**	**.00004**	**.91853**	**.00076**
Stddev	.468	.01990	1.7714	.00088	.00094	.94674	.00040
%RSD	2.1857	61.047	111.68	87.620	2522.1	103.07	52.114
#1	21.083	.02212	.14571	.00197	-.00097	.35421	.00061
#2	21.235	.02013	3.5640	.00027	.00089	.38983	.00046
#3	21.959	.05556	1.0487	.00076	.00019	2.0115	.00122
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00060**	**.00062**	**.00025**	**-.00002**	F **-1.0165**
Stddev	.00014	.00123	.00112	.00038	.00003	.3585
%RSD	426.09	204.11	181.11	150.52	124.24	35.274
#1	-.00008	-.00132	.00166	-.00015	-.00004	-.68119
#2	.00012	.00082	-.00057	.00060	-.00004	-1.3945
#3	-.00015	-.00130	.00077	.00030	.00001	-.97379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82789.**	**59004.**
Stddev	998.	257.
%RSD	1.2056	.43588
#1	83296.	59201.
#2	83432.	59098.
#3	81639.	58713.

Approved: February 24, 2011

Sample Name: L1102054133 Acquired: 2/23/2011 11:14:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00243**	**23.974**	**.02792**	**.00113**	**.77638**	**.00202**	**60.875**
Stddev	.00027	.153	.00076	.00116	.00347	.00002	.341
%RSD	11.315	.63695	2.7257	102.99	.44752	1.2309	.55957
#1	.00223	24.019	.02720	-.00019	.77308	.00200	60.530
#2	.00274	23.804	.02783	.00157	.77605	.00205	60.886
#3	.00231	24.100	.02872	.00200	.78001	.00201	61.211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00729**	**.02523**	**.03663**	**1.0322**	**91.511**	**5.7564**	**.02410**
Stddev	.00011	.00039	.00029	.0127	.386	.0501	.00104
%RSD	1.5398	1.5344	.78795	1.2267	.42132	.87089	4.3245
#1	.00719	.02486	.03658	1.0191	91.170	5.7110	.02295
#2	.00727	.02519	.03694	1.0331	91.433	5.7481	.02499
#3	.00741	.02563	.03637	1.0444	91.929	5.8102	.02435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.680**	**1.5831**	**.00282**	**.50878**	**.03219**	F **-43720.**	**2.0332**
Stddev	.082	.0101	.00027	.01287	.00069	507.	.0281
%RSD	.64735	.63896	9.4795	2.5294	2.1351	1.1591	1.3826
#1	12.587	1.5728	.00304	.49821	.03244	-43249.	2.0027
#2	12.709	1.5833	.00252	.50501	.03141	-43657.	2.0389
#3	12.744	1.5931	.00290	.52311	.03272	-44256.	2.0581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054133 Acquired: 2/23/2011 11:14:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.0577**	F **253.64**	F **-11727.**	**.00215**	**.00876**	F **136.93**	**.02747**
Stddev	1.5214	2.56	136.	.00238	.00155	.53	.00013
%RSD	16.797	1.0089	1.1618	110.52	17.743	.38496	.46267
#1	10.809	251.54	-11583.	.00159	.00744	136.50	.02733
#2	8.2961	252.89	-11744.	.00476	.01047	137.52	.02753
#3	8.0674	256.49	-11854.	.00010	.00837	136.77	.02756
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28808**	**.11268**	**.00435**	**.06627**	**1.9905**	**24.288**
Stddev	.00085	.00115	.00045	.00054	.0266	.457
%RSD	.29608	1.0183	10.441	.81422	1.3363	1.8820
#1	.28779	.11382	.00411	.06575	1.9632	24.196
#2	.28741	.11269	.00407	.06623	1.9921	23.884
#3	.28904	.11153	.00488	.06683	2.0163	24.784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89716.**	**64792.**
Stddev	353.	194.
%RSD	.39326	.29971
#1	90119.	64854.
#2	89461.	64947.
#3	89569.	64574.

Approved: February 24, 2011

Sample Name: L1102054134 Acquired: 2/23/2011 11:18:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00286**	**22.689**	**.03639**	**-.00367**	**.67924**	**.00262**	**24.737**
Stddev	.00030	.386	.00181	.00130	.00732	.00004	.294
%RSD	10.620	1.7008	4.9766	35.552	1.0777	1.4269	1.1875
#1	.00311	22.270	.03441	-.00346	.67240	.00260	24.488
#2	.00295	23.030	.03680	-.00506	.67836	.00266	24.663
#3	.00252	22.768	.03796	-.00248	.68696	.00260	25.061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01210**	**.01879**	**.04215**	**1.5565**	**123.13**	**7.3925**	**.02450**
Stddev	.00022	.00027	.00078	.0301	1.42	.0737	.00245
%RSD	1.8486	1.4409	1.8477	1.9322	1.1550	.99696	10.016
#1	.01196	.01851	.04129	1.5257	121.75	7.3531	.02546
#2	.01197	.01883	.04281	1.5580	123.05	7.3468	.02171
#3	.01236	.01905	.04234	1.5858	124.59	7.4775	.02633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.4898**	**1.5557**	**.00535**	**.35622**	**.04489**	F **-35921.**	**3.2898**
Stddev	.0902	.0176	.00013	.00790	.00143	586.	.0604
%RSD	1.2046	1.1280	2.3712	2.2191	3.1942	1.6302	1.8348
#1	7.3867	1.5385	.00521	.34713	.04338	-35316.	3.2269
#2	7.5281	1.5548	.00544	.36005	.04507	-35965.	3.2953
#3	7.5545	1.5736	.00541	.36147	.04623	-36484.	3.3472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054134 Acquired: 2/23/2011 11:18:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.92683**	F **301.46**	F **-17264.**	**.00673**	**.01110**	**86.269**	**.05159**
Stddev	4.3183	4.44	242.	.00182	.00279	.547	.00080
%RSD	465.93	1.4732	1.3993	27.049	25.124	.63352	1.5496
#1	-.23786	296.81	-17016.	.00542	.01420	85.642	.05075
#2	3.0056	301.92	-17278.	.00597	.00881	86.524	.05169
#3	-5.5482	305.66	-17499.	.00881	.01028	86.642	.05234
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11294**	**.07873**	**.00379**	**.03901**	**2.4529**	**10.502**
Stddev	.00112	.00222	.00022	.00028	.0516	.522
%RSD	.98857	2.8143	5.7914	.72233	2.1022	4.9681
#1	.11182	.07803	.00368	.03868	2.3994	10.033
#2	.11296	.07694	.00405	.03921	2.4569	11.064
#3	.11405	.08121	.00365	.03912	2.5023	10.409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88344.**	**65950.**
Stddev	1096.	281.
%RSD	1.2401	.42597
#1	89582.	66166.
#2	87954.	65633.
#3	87498.	66052.

Approved: February 24, 2011

Sample Name: L1102054135 Acquired: 2/23/2011 11:21:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00422**	**25.871**	**.03113**	**.01078**	**1.7336**	**.00215**	**57.859**
Stddev	.00063	.293	.00213	.00169	.0100	.00001	.291
%RSD	14.936	1.1343	6.8454	15.640	.57534	.62045	.50245
#1	.00478	26.210	.03078	.00899	1.7232	.00216	57.609
#2	.00354	25.695	.02919	.01102	1.7345	.00213	57.789
#3	.00435	25.709	.03341	.01233	1.7431	.00215	58.178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00928**	**.02088**	**.06313**	**1.1544**	**118.35**	**7.6150**	**.03116**
Stddev	.00016	.00038	.00075	.0173	.69	.0198	.00141
%RSD	1.7056	1.8209	1.1922	1.4981	.58574	.26024	4.5277
#1	.00910	.02047	.06383	1.1371	117.70	7.5976	.03114
#2	.00934	.02095	.06233	1.1546	118.29	7.6366	.02977
#3	.00940	.02122	.06324	1.1717	119.08	7.6107	.03259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.368**	**1.3285**	**.00656**	**1.0267**	**.04357**	F **-59185.**	**5.3725**
Stddev	.080	.0065	.00035	.0158	.00080	911.	.0874
%RSD	.76690	.48950	5.3802	1.5397	1.8439	1.5398	1.6272
#1	10.291	1.3227	.00681	1.0091	.04341	-58249.	5.2850
#2	10.364	1.3273	.00615	1.0313	.04286	-59236.	5.3727
#3	10.450	1.3355	.00671	1.0397	.04444	-60070.	5.4598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054135 Acquired: 2/23/2011 11:21:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.7670**	F **360.23**	F **-18674.**	**.00615**	**.00989**	**89.603**	**.04183**
Stddev	.8064	4.61	301.	.00223	.00172	.879	.00068
%RSD	45.636	1.2805	1.6138	36.265	17.439	.98083	1.6317
#1	-1.1241	355.83	-18384.	.00868	.01062	89.079	.04106
#2	-1.5051	359.82	-18653.	.00447	.01113	90.618	.04209
#3	-2.6718	365.03	-18986.	.00531	.00792	89.113	.04234
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41968**	**.12252**	**.00316**	**.05333**	**3.1788**	**12.065**
Stddev	.00346	.00154	.00103	.00019	.0408	.173
%RSD	.82516	1.2529	32.527	.35995	1.2850	1.4323
#1	.41602	.12104	.00434	.05334	3.1388	12.067
#2	.42013	.12410	.00272	.05314	3.1773	12.238
#3	.42290	.12243	.00243	.05353	3.2205	11.892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89623.**	**65578.**
Stddev	434.	742.
%RSD	.48437	1.1315
#1	89134.	64728.
#2	89771.	65907.
#3	89964.	66099.

Approved: February 24, 2011

Sample Name: L1102054136 Acquired: 2/23/2011 11:25:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00382**	**22.221**	**.03046**	**.00068**	**1.6938**	**.00203**	**53.052**
Stddev	.00064	.272	.00107	.00211	.0038	.00002	.214
%RSD	16.732	1.2237	3.5154	311.51	.22216	.77907	.40260
#1	.00334	21.996	.02995	.00121	1.6909	.00204	52.899
#2	.00357	22.523	.03169	-.00165	1.6925	.00202	52.962
#3	.00455	22.143	.02974	.00247	1.6981	.00205	53.296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01037**	**.01536**	**.04869**	**1.2371**	**135.62**	**6.8486**	**.02166**
Stddev	.00020	.00036	.00090	.0170	.27	.0177	.00119
%RSD	1.9063	2.3736	1.8557	1.3728	.19778	.25796	5.4719
#1	.01019	.01505	.04838	1.2205	135.46	6.8554	.02122
#2	.01035	.01528	.04971	1.2362	135.47	6.8285	.02076
#3	.01058	.01576	.04798	1.2545	135.93	6.8618	.02300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.4198**	**1.0682**	**.00557**	**.84492**	**.03493**	F **-43542.**	**6.1148**
Stddev	.0061	.0051	.00009	.00403	.00071	416.	.0707
%RSD	.08204	.47525	1.5859	.47658	2.0417	.95645	1.1563
#1	7.4267	1.0634	.00556	.84957	.03418	-43163.	6.0491
#2	7.4177	1.0678	.00549	.84236	.03502	-43474.	6.1057
#3	7.4150	1.0735	.00566	.84285	.03559	-43988.	6.1896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054136 Acquired: 2/23/2011 11:25:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.32864**	F **357.74**	F **-19122.**	**.00336**	**.01033**	F **110.87**	**.05022**
Stddev	4.8483	4.83	233.	.00281	.00324	.75	.00049
%RSD	1475.3	1.3491	1.2166	83.611	31.368	.67400	.97921
#1	-.84525	353.01	-18892.	.00281	.01122	110.60	.04968
#2	4.7573	357.55	-19117.	.00640	.00674	111.71	.05035
#3	-4.8980	362.65	-19358.	.00087	.01303	110.29	.05064
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28580**	**.10058**	**.00453**	**.03837**	**3.9256**	F **-.83740**
Stddev	.00031	.00219	.00116	.00020	.0448	.16956
%RSD	.10836	2.1740	25.594	.52581	1.1411	20.248
#1	.28610	.09896	.00565	.03860	3.8837	-.89697
#2	.28582	.09971	.00460	.03831	3.9203	-.96915
#3	.28548	.10307	.00334	.03821	3.9728	-.64610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90222.**	**65490.**
Stddev	557.	783.
%RSD	.61707	1.1959
#1	89585.	65015.
#2	90466.	65061.
#3	90616.	66394.

Approved: February 24, 2011

Sample Name: L1102054137 Acquired: 2/23/2011 11:28:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00295**	**21.986**	**.03421**	**-.00396**	**.68463**	**.00256**	**26.523**
Stddev	.00065	.078	.00211	.00181	.00062	.00004	.033
%RSD	21.916	.35643	6.1813	45.764	.09049	1.4241	.12409
#1	.00231	22.063	.03286	-.00511	.68469	.00256	26.485
#2	.00295	21.906	.03311	-.00187	.68398	.00253	26.537
#3	.00360	21.988	.03664	-.00489	.68521	.00260	26.546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01117**	**.01754**	**.04036**	**1.3784**	**121.80**	**7.2628**	**.02190**
Stddev	.00006	.00005	.00025	.0021	.16	.0368	.00136
%RSD	.57906	.28476	.61499	.14886	.13195	.50660	6.2291
#1	.01116	.01749	.04008	1.3804	121.69	7.2842	.02060
#2	.01124	.01753	.04042	1.3763	121.73	7.2839	.02332
#3	.01112	.01759	.04057	1.3784	121.99	7.2203	.02177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.6376**	**1.4980**	**.00399**	**.36892**	**.03795**	F **-32925.**	**2.9976**
Stddev	.0671	.0024	.00017	.00844	.00022	59.	.0057
%RSD	.87809	.16219	4.2587	2.2874	.58628	.17788	.18898
#1	7.6917	1.4961	.00414	.36035	.03800	-32863.	3.0003
#2	7.6587	1.4973	.00403	.36919	.03771	-32933.	3.0015
#3	7.5626	1.5007	.00381	.37722	.03814	-32979.	2.9911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054137 Acquired: 2/23/2011 11:28:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.0156**	F **283.76**	F **-15970.**	**.00737**	**.00813**	**80.636**	**.04733**
Stddev	4.4881	1.62	3.	.00165	.00316	.422	.00037
%RSD	63.973	.56949	.01854	22.365	38.929	.52379	.78379
#1	11.479	282.89	-15974.	.00733	.01164	80.915	.04698
#2	2.5027	282.77	-15968.	.00574	.00550	80.842	.04772
#3	7.0656	285.63	-15969.	.00904	.00725	80.150	.04727
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11552**	**.07748**	**.00425**	**.04026**	**2.2819**	**11.111**
Stddev	.00039	.00033	.00019	.00052	.0022	.173
%RSD	.33810	.42852	4.4883	1.2891	.09631	1.5591
#1	.11569	.07778	.00423	.04077	2.2840	10.913
#2	.11507	.07754	.00446	.04028	2.2820	11.183
#3	.11579	.07712	.00408	.03974	2.2796	11.237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88617.**	**64436.**
Stddev	569.	133.
%RSD	.64224	.20702
#1	88135.	64328.
#2	88471.	64394.
#3	89245.	64585.

Approved: February 24, 2011

Sample Name: L1102054138 Acquired: 2/23/2011 11:32:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00257**	**14.351**	**.01502**	**.03067**	**.83340**	**.00094**	**92.005**
Stddev	.00063	.184	.00080	.00086	.00233	.00002	.452
%RSD	24.531	1.2847	5.3021	2.8124	.27926	2.1861	.49103
#1	.00248	14.139	.01535	.03154	.83104	.00092	91.572
#2	.00325	14.462	.01411	.03065	.83349	.00094	91.969
#3	.00199	14.454	.01559	.02982	.83569	.00096	92.474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00237**	**.01496**	**.03916**	**.26805**	**30.721**	**3.9083**	**.02086**
Stddev	.00010	.00016	.00062	.00389	.111	.0429	.00061
%RSD	4.0863	1.0518	1.5742	1.4495	.36250	1.0965	2.9454
#1	.00226	.01488	.03859	.26429	30.606	3.8657	.02134
#2	.00241	.01514	.03981	.26780	30.728	3.9076	.02017
#3	.00245	.01486	.03906	.27205	30.828	3.9514	.02108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.063**	**1.1408**	**.00374**	**1.1569**	**.03153**	F **-60314.**	**.37185**
Stddev	.039	.0052	.00004	.0099	.00041	680.	.00512
%RSD	.32327	.45600	1.0198	.85249	1.2990	1.1278	1.3773
#1	12.020	1.1355	.00372	1.1473	.03132	-59643.	.36794
#2	12.074	1.1412	.00378	1.1670	.03200	-60298.	.36997
#3	12.096	1.1459	.00372	1.1564	.03127	-61003.	.37765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054138 Acquired: 2/23/2011 11:32:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.4424**	F **267.28**	F **-10613.**	**.00104**	**.01042**	**57.110**	**.06298**
Stddev	5.3664	2.28	121.	.00036	.00128	.579	.00016
%RSD	372.05	.85419	1.1385	34.635	12.330	1.0143	.24679
#1	-6.4635	265.16	-10486.	.00088	.00904	56.731	.06280
#2	4.2130	266.98	-10625.	.00078	.01063	57.777	.06310
#3	-2.0767	269.69	-10727.	.00145	.01158	56.822	.06303
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.60033**	**.15660**	**.00284**	**.04598**	**.54794**	**13.092**
Stddev	.00095	.00151	.00159	.00058	.00630	.282
%RSD	.15810	.96550	56.098	1.2693	1.1495	2.1578
#1	.59928	.15627	.00160	.04531	.54184	12.769
#2	.60112	.15528	.00463	.04628	.54757	13.294
#3	.60060	.15825	.00228	.04636	.55442	13.214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89451.**	**66141.**
Stddev	218.	566.
%RSD	.24364	.85541
#1	89204.	66703.
#2	89532.	65571.
#3	89617.	66148.

Approved: February 24, 2011

Sample Name: L1102054139 Acquired: 2/23/2011 11:35:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00233**	**18.851**	**.02517**	**.02238**	**.88748**	**.00166**	**178.05**
Stddev	.00106	.341	.00205	.00086	.00527	.00002	.62
%RSD	45.408	1.8075	8.1535	3.8499	.59353	1.0208	.34734
#1	.00276	18.772	.02291	.02275	.88190	.00166	177.35
#2	.00309	19.225	.02568	.02299	.88818	.00168	178.31
#3	.00112	18.557	.02692	.02139	.89236	.00165	178.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00418**	**.01824**	**.04606**	**.52621**	**57.859**	**4.7663**	**.02478**
Stddev	.00010	.00038	.00092	.00788	.279	.0373	.00261
%RSD	2.4162	2.0737	2.0028	1.4972	.48201	.78275	10.528
#1	.00407	.01789	.04545	.51822	57.538	4.7515	.02687
#2	.00420	.01818	.04713	.52644	58.032	4.8087	.02185
#3	.00427	.01864	.04561	.53397	58.008	4.7386	.02561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.144**	**1.9880**	**.00404**	**1.2582**	**.05556**	F **-53323.**	**.86437**
Stddev	.191	.0086	.00011	.0086	.00041	750.	.01182
%RSD	1.1149	.43232	2.6539	.68561	.74449	1.4072	1.3669
#1	16.927	1.9783	.00417	1.2486	.05510	-52579.	.85280
#2	17.222	1.9908	.00400	1.2607	.05590	-53311.	.86390
#3	17.285	1.9948	.00397	1.2653	.05567	-54079.	.87641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054139 Acquired: 2/23/2011 11:35:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.2671**	F **427.18**	F **-14933.**	**.00229**	**.00975**	**68.363**	**.17780**
Stddev	6.0068	6.05	190.	.00075	.00339	.402	.00215
%RSD	95.847	1.4167	1.2698	32.825	34.743	.58803	1.2093
#1	4.8803	420.83	-14740.	.00314	.01301	67.899	.17548
#2	12.846	427.82	-14938.	.00169	.00999	68.597	.17819
#3	1.0750	432.88	-15119.	.00205	.00625	68.593	.17973
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.59937**	**.13251**	**.00379**	**.05085**	**.96687**	**16.196**
Stddev	.00512	.00323	.00125	.00128	.01462	.805
%RSD	.85374	2.4390	32.980	2.5222	1.5120	4.9697
#1	.59445	.12953	.00356	.05028	.95213	15.338
#2	.59900	.13206	.00267	.05232	.96711	16.934
#3	.60466	.13594	.00514	.04995	.98136	16.317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88358.**	**65645.**
Stddev	168.	1210.
%RSD	.18964	1.8430
#1	88550.	65550.
#2	88276.	64486.
#3	88246.	66900.

Approved: February 24, 2011

Sample Name: L1102041612 Acquired: 2/23/2011 11:39:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00175**	**120.43**	**.09385**	**.02234**	**2.6950**	**.01022**	F **951.88**
Stddev	.00050	3.38	.00237	.00149	.0110	.00011	10.39
%RSD	28.296	2.8097	2.5287	6.6474	.40661	1.0522	1.0918
#1	.00166	117.27	.09656	.02097	2.6943	.01016	944.56
#2	.00229	120.02	.09212	.02392	2.6844	.01015	947.31
#3	.00131	124.00	.09287	.02214	2.7063	.01034	963.78
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00540**	**.09728**	**.21477**	**.46094**	**205.76**	**28.142**	**.20783**
Stddev	.00013	.00086	.00205	.00546	1.08	.167	.00110
%RSD	2.3790	.88593	.95575	1.1837	.52371	.59195	.53106
#1	.00548	.09826	.21275	.46547	205.59	28.045	.20875
#2	.00526	.09694	.21470	.46245	204.78	28.047	.20812
#3	.00547	.09665	.21685	.45488	206.92	28.335	.20661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**93.656**	**4.0314**	**.00833**	**5.8417**	**.20157**	F **-59785.**	**.23234**
Stddev	.896	.0279	.00026	.0398	.00160	465.	.00117
%RSD	.95710	.69171	3.0861	.68129	.79147	.77766	.50199
#1	92.969	4.0175	.00803	5.8617	.20261	-60252.	.23260
#2	93.329	4.0132	.00850	5.7959	.20236	-59780.	.23336
#3	94.670	4.0635	.00845	5.8676	.19973	-59322.	.23107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041612 Acquired: 2/23/2011 11:39:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-7.1479**	F **1093.0**	F **-6366.6**	**.01164**	**.00714**	F **323.92**	**.01148**
Stddev	3.7511	7.2	24.9	.00094	.00318	4.70	.00028
%RSD	52.478	.66255	.39033	8.0384	44.579	1.4521	2.4817
#1	-2.9546	1100.0	-6394.9	.01212	.00385	328.16	.01133
#2	-8.3047	1093.5	-6356.4	.01223	.00737	324.75	.01129
#3	-10.184	1085.5	-6348.4	.01056	.01021	318.86	.01180
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0912**	**.51614**	**.00940**	**.33383**	**.63122**	F **211.22**
Stddev	.0057	.00432	.00133	.00183	.00406	1.47
%RSD	.27058	.83648	14.145	.54769	.64357	.69540
#1	2.0910	.51208	.00979	.33212	.63510	210.32
#2	2.0856	.51566	.01049	.33360	.63158	210.43
#3	2.0970	.52068	.00792	.33576	.62700	212.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80943.**	**62892.**
Stddev	312.	205.
%RSD	.38544	.32586
#1	80609.	62828.
#2	80993.	63121.
#3	81227.	62727.

Approved: February 24, 2011

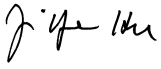
Sample Name: L1102041613 Acquired: 2/23/2011 11:43:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00131**	**124.77**	**.08225**	**.05154**	**2.0746**	**.01009**	**628.21**
Stddev	.00026	1.29	.00141	.00024	.0017	.00007	4.76
%RSD	19.960	1.0369	1.7154	.45737	.08350	.65099	.75812
#1	.00105	125.15	.08241	.05130	2.0734	.01005	633.16
#2	.00158	125.83	.08357	.05155	2.0766	.01017	627.82
#3	.00131	123.33	.08076	.05177	2.0738	.01006	623.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02601**	**.09716**	**.21294**	**1.2863**	**212.12**	**43.970**	**.18189**
Stddev	.00009	.00029	.00067	.0051	.22	.116	.00173
%RSD	.35209	.29820	.31477	.39748	.10433	.26424	.94911
#1	.02594	.09743	.21223	1.2888	211.93	43.881	.18172
#2	.02611	.09720	.21357	1.2897	212.36	43.929	.18025
#3	.02597	.09686	.21301	1.2804	212.06	44.102	.18369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**90.802**	**4.1408**	**.01101**	**8.9056**	**.21993**	F **-49427.**	**1.2870**
Stddev	.325	.0045	.00026	.0369	.00124	91.	.0017
%RSD	.35764	.10848	2.3488	.41465	.56217	.18339	.13366
#1	90.562	4.1440	.01117	8.8734	.22048	-49464.	1.2859
#2	90.673	4.1428	.01071	8.9459	.22080	-49493.	1.2890
#3	91.172	4.1357	.01115	8.8973	.21852	-49323.	1.2862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011



Sample Name: L1102041613 Acquired: 2/23/2011 11:43:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-16.151**	F **778.42**	F **-9759.7**	**.02186**	**.00573**	F **294.42**	**.03765**
Stddev	3.380	2.78	7.2	.00172	.00101	2.70	.00023
%RSD	20.928	.35758	.07344	7.8489	17.602	.91860	.61621
#1	-16.095	778.81	-9754.7	.02350	.00477	296.78	.03771
#2	-12.799	780.99	-9767.9	.02201	.00564	295.02	.03784
#3	-19.558	775.47	-9756.6	.02007	.00678	291.47	.03739
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1453**	**.44796**	**.00843**	**.23943**	**1.9762**	F **271.05**
Stddev	.0036	.00209	.00085	.00086	.0054	1.80
%RSD	.31184	.46711	10.106	.35752	.27132	.66364
#1	1.1413	.44706	.00768	.23851	1.9782	271.21
#2	1.1481	.44646	.00826	.24019	1.9802	272.76
#3	1.1466	.45035	.00936	.23961	1.9701	269.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82491.**	**64434.**
Stddev	119.	248.
%RSD	.14475	.38453
#1	82429.	64340.
#2	82416.	64248.
#3	82629.	64715.

Approved: February 24, 2011

Sample Name: L1102041614 Acquired: 2/23/2011 11:46:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**123.24**	**.08135**	**.03406**	**2.3534**	**.01003**	F **973.60**
Stddev	.00041	1.25	.00326	.00136	.0051	.00012	13.92
%RSD	20.302	1.0104	4.0042	3.9911	.21774	1.1888	1.4295
#1	.00173	123.68	.08509	.03456	2.3492	.01013	987.72
#2	.00247	124.21	.07979	.03252	2.3591	.01006	973.20
#3	.00181	121.84	.07916	.03510	2.3519	.00990	959.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00761**	**.09059**	**.23621**	**.81089**	**206.81**	**35.175**	**.22798**
Stddev	.00019	.00208	.00302	.02188	.36	.096	.00106
%RSD	2.5287	2.2908	1.2766	2.6983	.17546	.27174	.46503
#1	.00781	.09191	.23962	.82425	206.48	35.066	.22877
#2	.00760	.09165	.23516	.82277	207.20	35.246	.22838
#3	.00743	.08819	.23387	.78563	206.76	35.212	.22677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**96.763**	**3.6519**	**.00727**	**12.210**	**.20184**	F **-43189.**	**.41266**
Stddev	.387	.0027	.00038	.031	.00445	967.	.00986
%RSD	.40034	.07501	5.2136	.25219	2.2057	2.2395	2.3895
#1	96.450	3.6542	.00763	12.189	.20516	-43821.	.41768
#2	97.196	3.6527	.00731	12.245	.20359	-43670.	.41901
#3	96.644	3.6489	.00687	12.195	.19678	-42075.	.40130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041614 Acquired: 2/23/2011 11:46:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-16.550**	F **1119.6**	F **-7853.4**	**.01595**	**.00435**	F **295.22**	**.01881**
Stddev	7.448	24.1	151.5	.00182	.00366	8.86	.00021
%RSD	45.002	2.1537	1.9287	11.393	84.062	3.0016	1.1184
#1	-8.7575	1134.3	-7954.0	.01801	.00846	301.42	.01894
#2	-23.597	1132.7	-7927.0	.01527	.00147	299.17	.01892
#3	-17.297	1091.8	-7679.2	.01457	.00312	285.07	.01857
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0147**	**.59431**	**.00983**	**.31029**	**.74862**	F **270.19**
Stddev	.0092	.00087	.00167	.00253	.01638	3.89
%RSD	.45657	.14587	17.033	.81476	2.1883	1.4399
#1	2.0055	.59332	.00993	.31197	.75818	273.95
#2	2.0239	.59487	.00811	.31152	.75798	270.44
#3	2.0147	.59476	.01145	.30738	.72970	266.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82726.**	**64271.**
Stddev	1097.	597.
%RSD	1.3254	.92903
#1	82071.	63891.
#2	82114.	63963.
#3	83991.	64959.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 11:50:34 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40085**	**10.175**	**.39073**	**.49906**	**.97752**	**.04955**	**9.8800**
Stddev	.00062	.052	.00052	.00053	.00152	.00021	.0175
%RSD	.15591	.51594	.13352	.10683	.15567	.42855	.17707
#1	.40125	10.114	.39109	.49967	.97579	.04943	9.8841
#2	.40013	10.198	.39096	.49872	.97810	.04943	9.8608
#3	.40116	10.211	.39013	.49878	.97866	.04980	9.8951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04913**	**.19772**	**.49846**	**.49197**	**3.9127**	**49.775**	**.98227**
Stddev	.00012	.00053	.00174	.00026	.0042	.037	.00242
%RSD	.24825	.27018	.34816	.05197	.10802	.07374	.24661
#1	.04914	.19742	.49875	.49186	3.9078	49.741	.98000
#2	.04901	.19834	.49660	.49226	3.9149	49.770	.98482
#3	.04925	.19740	.50004	.49179	3.9153	49.814	.98201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.8486**	**.48994**	**.98400**	**49.328**	**.49436**	F **11.233**	**.49609**
Stddev	.0316	.00115	.00064	.052	.00130	15.426	.00060
%RSD	.32061	.23542	.06495	.10559	.26369	137.33	.12073
#1	9.8569	.49119	.98366	49.335	.49290	-5.8383	.49551
#2	9.8753	.48891	.98360	49.376	.49539	15.366	.49604
#3	9.8138	.48973	.98473	49.273	.49481	24.171	.49670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 11:50:34 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.9113**	**9.9951**	F **8.8573**	**1.1860**	**.39229**	F **4.0915**	**.99298**
Stddev	9.4298	.0242	1.3451	.0015	.00369	.0669	.00212
%RSD	192.00	.24176	15.187	.12777	.94032	1.6358	.21355
#1	-2.8640	9.9722	7.7169	1.1845	.38895	4.0769	.99283
#2	15.400	10.020	10.341	1.1859	.39166	4.1645	.99517
#3	2.1974	9.9928	8.5144	1.1875	.39625	4.0331	.99094
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		-10.000%			-10.000%	

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97259**	**.98734**	**.50382**	**.99480**	**.98610**	F **5.8117**
Stddev	.00175	.00170	.00175	.00223	.00129	.5728
%RSD	.18019	.17253	.34689	.22453	.13057	9.8558
#1	.97160	.98552	.50304	.99484	.98506	5.1525
#2	.97462	.98758	.50260	.99255	.98754	6.0950
#3	.97156	.98890	.50582	.99702	.98569	6.1877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88423.**	**64357.**
Stddev	147.	94.
%RSD	.16600	.14546
#1	88435.	64417.
#2	88270.	64405.
#3	88563.	64249.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 11:54:05 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.01297**	**.00087**	**.00084**	**-.00004**	**.00003**	**-.00128**
Stddev	.00046	.00127	.00229	.00022	.00016	.00000	.00691
%RSD	267.89	9.7579	263.50	25.987	440.01	15.904	538.43
#1	-.00069	.01199	.00351	.00066	.00006	.00002	.00494
#2	.00019	.01440	-.00066	.00076	.00005	.00003	-.00871
#3	-.00002	.01252	-.00024	.00108	-.00023	.00003	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00014**	**.00030**	**.00015**	**.00261**	**.07452**	**-.00133**
Stddev	.00005	.00016	.00033	.00009	.00382	.04223	.00274
%RSD	364.14	108.86	110.43	60.497	146.35	56.668	205.79
#1	-.00002	-.00014	.00006	.00024	.00573	.05399	.00083
#2	-.00001	.00001	.00068	.00013	-.00165	.12309	-.00441
#3	.00007	-.00030	.00017	.00006	.00375	.04649	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01299**	**-.00038**	**.00061**	**-.00245**	**.00096**	F **-2.2259**	**.00090**
Stddev	.01649	.00050	.00008	.01387	.00022	11.457	.00031
%RSD	126.98	131.97	12.476	565.20	22.513	514.71	34.333
#1	.02238	-.00096	.00053	-.00348	.00094	-13.149	.00057
#2	.02265	-.00004	.00063	-.01579	.00119	9.6997	.00118
#3	-.00606	-.00014	.00068	.01190	.00075	-3.2288	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 11:54:05 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.4266**	**.07824**	F **5.4333**	**.00114**	**.00434**	**.38879**	**.00050**
Stddev	1.6717	.09879	2.0659	.00163	.00149	1.0090	.00023
%RSD	17.734	126.26	38.022	142.95	34.463	259.52	46.446
#1	10.400	.07024	6.1034	.00178	.00504	-.16006	.00023
#2	10.384	-.01631	7.0809	.00236	.00535	-.22681	.00061
#3	7.4963	.18078	3.1156	-.00071	.00262	1.5532	.00066
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00026**	**.00043**	**.00025**	**.00001**	F **-.53389**
Stddev	.00009	.00031	.00056	.00027	.00006	.53689
%RSD	113.40	119.88	129.60	110.52	458.65	100.56
#1	-.00001	-.00053	.00030	.00033	.00001	.06048
#2	-.00005	.00008	.00105	-.00006	.00008	-.67845
#3	-.00017	-.00034	-.00005	.00047	-.00005	-.98371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89193.**	**64185.**
Stddev	1087.	352.
%RSD	1.2187	.54900
#1	89940.	64549.
#2	89694.	63845.
#3	87946.	64161.

Approved: February 24, 2011

Sample Name: L1102041615 Acquired: 2/23/2011 11:57:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**120.86**	**.12802**	**.03126**	**2.5279**	**.01105**	**793.62**
Stddev	.00083	.97	.00140	.00184	.0075	.00013	7.66
%RSD	193.51	.80244	1.0957	5.8871	.29657	1.1943	.96551
#1	.00137	121.98	.12900	.02967	2.5241	.01118	793.26
#2	.00005	120.20	.12642	.03084	2.5232	.01106	786.14
#3	-.00015	120.42	.12865	.03328	2.5366	.01092	801.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05479**	**.11117**	**.22045**	**1.7938**	**226.24**	**34.646**	**.22145**
Stddev	.00040	.00077	.00329	.0166	.56	.102	.00105
%RSD	.73276	.68890	1.4913	.92372	.24835	.29319	.47323
#1	.05514	.11205	.22358	1.8082	226.11	34.616	.22029
#2	.05487	.11080	.22075	1.7975	225.75	34.563	.22172
#3	.05435	.11066	.21703	1.7757	226.85	34.759	.22233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**99.884**	**4.7654**	**.01900**	**6.4108**	**.56739**	F **-84170.**	**1.6967**
Stddev	.240	.0076	.00024	.0130	.00419	737.	.0105
%RSD	.23989	.15878	1.2492	.20324	.73762	.87571	.61689
#1	99.644	4.7661	.01924	6.3996	.57109	-84945.	1.7082
#2	99.883	4.7576	.01877	6.4077	.56822	-84087.	1.6942
#3	100.12	4.7726	.01898	6.4251	.56285	-83477.	1.6877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041615 Acquired: 2/23/2011 11:57:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-14.869**	F **913.49**	F **-7221.5**	**.02591**	**.00808**	F **257.86**	**.03664**
Stddev	5.817	5.82	60.7	.00151	.00294	3.06	.00030
%RSD	39.124	.63709	.84096	5.8152	36.394	1.1874	.80698
#1	-11.246	919.50	-7291.6	.02687	.01146	261.17	.03679
#2	-11.783	913.10	-7188.3	.02670	.00610	257.29	.03630
#3	-21.580	907.88	-7184.7	.02418	.00668	255.12	.03684
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8413**	**.40135**	**.00865**	**.33588**	**2.5610**	F **228.52**
Stddev	.0076	.00307	.00133	.00339	.0161	2.82
%RSD	.41122	.76519	15.396	1.0090	.62712	1.2359
#1	1.8367	.39783	.00730	.33884	2.5761	230.92
#2	1.8372	.40275	.00870	.33663	2.5627	229.25
#3	1.8500	.40348	.00997	.33218	2.5441	225.41
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81907.**	**65003.**
Stddev	337.	201.
%RSD	.41094	.30990
#1	81559.	64776.
#2	81930.	65160.
#3	82231.	65074.

Approved: February 24, 2011

Sample Name: L1102041616 Acquired: 2/23/2011 12:01:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**115.81**	**.12797**	**.02812**	**2.5977**	**.01160**	F **1146.0**
Stddev	.00034	.93	.00151	.00149	.0026	.00010	7.2
%RSD	33.262	.80073	1.1800	5.2902	.09852	.85606	.62671
#1	.00122	114.89	.12628	.02832	2.5950	.01154	1144.0
#2	.00062	116.75	.12917	.02654	2.5981	.01171	1140.1
#3	.00119	115.79	.12848	.02950	2.6000	.01153	1154.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01303**	**.10175**	**.22927**	**.84454**	**200.24**	**30.445**	**.23356**
Stddev	.00004	.00096	.00269	.00778	.28	.081	.00128
%RSD	.30811	.94714	1.1749	.92143	.13798	.26677	.54719
#1	.01305	.10261	.22779	.85181	200.14	30.381	.23223
#2	.01306	.10194	.23238	.84548	200.56	30.418	.23366
#3	.01299	.10071	.22765	.83633	200.03	30.536	.23478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**99.587**	**4.0362**	**.01271**	**7.3407**	**.22952**	F **-70910.**	**.64711**
Stddev	.306	.0076	.00013	.0114	.00332	534.	.00761
%RSD	.30759	.18904	1.0601	.15541	1.4473	.75253	1.1763
#1	99.242	4.0330	.01259	7.3322	.23258	-71349.	.65357
#2	99.829	4.0449	.01286	7.3362	.22999	-71066.	.64905
#3	99.688	4.0307	.01268	7.3537	.22598	-70316.	.63872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041616 Acquired: 2/23/2011 12:01:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-13.074**	F **1368.3**	F **-7630.7**	**.02012**	**.00544**	F **326.09**	**.02318**
Stddev	4.881	10.0	48.1	.00042	.00294	4.58	.00034
%RSD	37.330	.73332	.63043	2.0896	54.132	1.4032	1.4689
#1	-17.571	1377.7	-7675.1	.02055	.00236	330.08	.02300
#2	-7.8842	1369.5	-7637.4	.01971	.00823	327.08	.02357
#3	-13.768	1357.8	-7579.6	.02010	.00572	321.10	.02296
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.4135**	**.39085**	**.00980**	**.37770**	**1.2202**	F **229.64**
Stddev	.0046	.00270	.00125	.00254	.0096	2.10
%RSD	.18988	.69087	12.734	.67158	.78955	.91294
#1	2.4084	.38782	.00995	.37734	1.2289	230.33
#2	2.4173	.39301	.01097	.38040	1.2219	231.31
#3	2.4147	.39172	.00848	.37537	1.2098	227.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81542.**	**64328.**
Stddev	372.	327.
%RSD	.45623	.50822
#1	81117.	64418.
#2	81696.	63966.
#3	81812.	64601.

Approved: February 24, 2011

Sample Name: L1102041617 Acquired: 2/23/2011 12:05:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**95.856**	**.08001**	**.02713**	**1.7900**	**.00862**	**497.19**
Stddev	.00030	.443	.00222	.00129	.0034	.00006	7.13
%RSD	32.584	.46163	2.7701	4.7583	.18751	.70682	1.4349
#1	.00087	96.036	.08001	.02599	1.7880	.00864	501.21
#2	.00124	95.352	.07780	.02688	1.7939	.00868	501.42
#3	.00064	96.180	.08223	.02853	1.7882	.00856	488.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01549**	**.08550**	**.18784**	**1.0233**	**182.32**	**35.189**	**.15905**
Stddev	.00005	.00014	.00195	.0002	.33	.041	.00236
%RSD	.32371	.16463	1.0389	.02263	.17926	.11773	1.4816
#1	.01543	.08565	.18874	1.0235	182.09	35.144	.15637
#2	.01552	.08537	.18918	1.0232	182.69	35.226	.15998
#3	.01552	.08549	.18560	1.0231	182.17	35.197	.16081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**75.634**	**3.9015**	**.01196**	**6.1433**	**.19226**	F **-85337.**	**.80864**
Stddev	.225	.0028	.00020	.0224	.00058	118.	.00285
%RSD	.29756	.07208	1.6651	.36485	.30244	.13807	.35237
#1	75.486	3.8992	.01218	6.1402	.19254	-85298.	.80761
#2	75.523	3.9007	.01180	6.1671	.19159	-85470.	.81187
#3	75.893	3.9047	.01189	6.1226	.19264	-85244.	.80646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041617 Acquired: 2/23/2011 12:05:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-16.465**	F **563.02**	F **-5038.5**	**.02190**	**.00972**	F **273.57**	**.05138**
Stddev	1.020	.38	12.9	.00299	.00048	1.30	.00015
%RSD	6.1959	.06747	.25629	13.662	4.9549	.47552	.28729
#1	-15.339	562.60	-5028.6	.02051	.00918	273.38	.05121
#2	-16.730	563.13	-5053.1	.01986	.01010	274.96	.05144
#3	-17.327	563.33	-5033.8	.02534	.00988	272.38	.05149
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1828**	**.39721**	**.00728**	**.23796**	**1.5615**	F **234.93**
Stddev	.0048	.00229	.00192	.00221	.0015	3.76
%RSD	.40868	.57580	26.442	.92826	.09344	1.6017
#1	1.1788	.39488	.00808	.23971	1.5598	237.73
#2	1.1882	.39728	.00508	.23870	1.5625	236.41
#3	1.1816	.39946	.00867	.23548	1.5622	230.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84143.**	**64798.**
Stddev	205.	494.
%RSD	.24352	.76307
#1	84062.	64340.
#2	84376.	64731.
#3	83991.	65322.

Approved: February 24, 2011

Sample Name: L1102041618 Acquired: 2/23/2011 12:09:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00192**	**127.16**	**.09201**	**.02032**	**2.2065**	**.01063**	**729.03**
Stddev	.00048	1.87	.00064	.00216	.0308	.00032	9.18
%RSD	24.838	1.4743	.69730	10.626	1.3940	2.9903	1.2592
#1	.00223	128.96	.09257	.01783	2.2414	.01100	739.03
#2	.00216	127.31	.09214	.02159	2.1949	.01044	727.07
#3	.00137	125.22	.09131	.02155	2.1832	.01046	720.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00627**	**.09403**	**.24019**	**.61177**	**214.29**	**33.644**	**.24353**
Stddev	.00008	.00031	.00616	.00262	2.99	.435	.00275
%RSD	1.1967	.33491	2.5635	.42845	1.3954	1.2922	1.1301
#1	.00635	.09418	.24728	.60956	217.66	34.124	.24345
#2	.00622	.09424	.23614	.61467	213.26	33.531	.24632
#3	.00623	.09367	.23716	.61109	211.95	33.276	.24082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**97.253**	**4.1363**	**.00724**	**19.715**	**.20379**	F **-47000.**	**.35634**
Stddev	1.322	.0555	.00019	.237	.00084	139.	.00222
%RSD	1.3598	1.3412	2.6165	1.2020	.41283	.29656	.62246
#1	98.769	4.1989	.00710	19.981	.20354	-47042.	.35548
#2	96.657	4.1170	.00745	19.639	.20472	-47114.	.35886
#3	96.334	4.0931	.00716	19.526	.20309	-46845.	.35468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041618 Acquired: 2/23/2011 12:09:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-14.111**	F **925.11**	F **-12545.**	**.01440**	**.00275**	F **317.21**	**.01967**
Stddev	4.002	1.58	48.	.00092	.00253	3.63	.00058
%RSD	28.362	.17042	.38157	6.3904	91.938	1.1442	2.9577
#1	-10.558	925.14	-12599.	.01418	.00146	319.66	.01971
#2	-13.328	926.68	-12527.	.01541	.00113	318.92	.02023
#3	-18.447	923.52	-12509.	.01361	.00567	313.04	.01907
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8232**	**.50381**	**.00980**	**.35368**	**.94589**	F **277.97**
Stddev	.0259	.00736	.00212	.00935	.00303	7.59
%RSD	1.4186	1.4612	21.658	2.6433	.32052	2.7294
#1	1.8527	.51137	.01003	.36447	.94639	286.73
#2	1.8128	.50340	.01180	.34827	.94865	273.69
#3	1.8042	.49667	.00758	.34829	.94265	273.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81921.**	**63634.**
Stddev	637.	1256.
%RSD	.77797	1.9733
#1	82629.	62192.
#2	81392.	64482.
#3	81742.	64228.

Approved: February 24, 2011

Sample Name: L1102041619 Acquired: 2/23/2011 12:12:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**103.38**	**.07811**	**.02699**	**1.7586**	**.00832**	**598.80**
Stddev	.00050	1.47	.00078	.00166	.0033	.00006	7.35
%RSD	24.041	1.4206	1.0012	6.1418	.18962	.72538	1.2272
#1	.00226	104.99	.07756	.02670	1.7548	.00831	601.71
#2	.00245	103.04	.07900	.02549	1.7599	.00838	604.26
#3	.00151	102.12	.07775	.02877	1.7611	.00826	590.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01648**	**.08614**	**.20010**	**.75400**	**193.48**	**39.638**	**.17244**
Stddev	.00008	.00041	.00140	.00240	.37	.048	.00049
%RSD	.50087	.47956	.70135	.31852	.19176	.12003	.28656
#1	.01657	.08658	.19981	.75660	193.07	39.597	.17258
#2	.01645	.08608	.20162	.75354	193.56	39.627	.17189
#3	.01642	.08576	.19886	.75186	193.80	39.690	.17285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**79.608**	**3.9018**	**.00830**	**12.803**	**.20266**	F **-68908.**	**1.1209**
Stddev	.124	.0088	.00024	.055	.00121	217.	.0028
%RSD	.15520	.22531	2.8426	.42876	.59856	.31463	.25300
#1	79.637	3.8938	.00808	12.740	.20402	-69075.	1.1240
#2	79.714	3.9004	.00826	12.830	.20227	-68986.	1.1202
#3	79.472	3.9112	.00855	12.840	.20169	-68663.	1.1184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041619 Acquired: 2/23/2011 12:12:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-12.331**	F **702.41**	F **-7054.6**	**.01623**	**.00576**	F **279.24**	**.02927**
Stddev	4.154	1.27	19.4	.00250	.00156	1.36	.00053
%RSD	33.687	.18046	.27483	15.391	27.092	.48693	1.8229
#1	-16.007	703.84	-7043.6	.01562	.00488	279.80	.02984
#2	-7.8244	701.91	-7076.9	.01408	.00757	280.23	.02918
#3	-13.161	701.46	-7043.1	.01897	.00484	277.69	.02878
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2239**	**.47762**	**.00808**	**.27195**	**2.1212**	F **238.31**
Stddev	.0034	.00108	.00028	.00204	.0072	2.58
%RSD	.27777	.22543	3.4207	.75003	.33915	1.0839
#1	1.2203	.47694	.00792	.27232	2.1282	239.82
#2	1.2270	.47886	.00840	.27378	2.1215	239.77
#3	1.2245	.47707	.00792	.26975	2.1138	235.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83395.**	**62856.**
Stddev	398.	341.
%RSD	.47723	.54210
#1	82951.	62519.
#2	83720.	62849.
#3	83515.	63201.

Approved: February 24, 2011

Sample Name: L1102041620 Acquired: 2/23/2011 12:16:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00246**	**92.669**	**.08769**	**.01537**	**1.8472**	**.00806**	**724.67**
Stddev	.00085	.784	.00187	.00106	.0025	.00010	9.60
%RSD	34.765	.84562	2.1303	6.8960	.13333	1.2109	1.3248
#1	.00342	92.664	.08554	.01659	1.8476	.00807	728.46
#2	.00180	91.888	.08868	.01470	1.8446	.00796	713.76
#3	.00214	93.455	.08886	.01481	1.8494	.00816	731.80
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00500**	**.08006**	**.18202**	**.26602**	**173.97**	**29.354**	**.19675**
Stddev	.00005	.00044	.00199	.00407	.36	.102	.00077
%RSD	.90998	.54977	1.0910	1.5301	.20970	.34772	.39218
#1	.00504	.08020	.18194	.26792	173.81	29.283	.19597
#2	.00499	.08042	.18009	.26880	173.71	29.308	.19676
#3	.00495	.07957	.18405	.26135	174.38	29.471	.19752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**76.983**	**3.5060**	**.00592**	**11.359**	**.17103**	F **-58510.**	**.28808**
Stddev	.481	.0101	.00041	.032	.00098	243.	.00216
%RSD	.62516	.28909	6.8755	.28431	.57414	.41561	.74947
#1	76.571	3.4970	.00622	11.350	.17208	-58689.	.28934
#2	76.867	3.5041	.00608	11.333	.17088	-58608.	.28931
#3	77.512	3.5170	.00546	11.395	.17013	-58233.	.28558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041620 Acquired: 2/23/2011 12:16:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-9.0045**	F **815.83**	F **-5592.2**	**.01146**	**.00816**	F **328.98**	**.01838**
Stddev	4.6733	4.97	9.8	.00380	.00121	3.09	.00026
%RSD	51.900	.60958	.17592	33.190	14.780	.93879	1.4049
#1	-14.090	818.75	-5603.4	.01584	.00923	330.48	.01843
#2	-8.0248	818.65	-5588.1	.00963	.00686	331.02	.01811
#3	-4.8987	810.09	-5585.0	.00892	.00840	325.42	.01862
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.5771**	**.47916**	**.01100**	**.37231**	**.57363**	F **221.22**
Stddev	.0027	.00109	.00088	.00541	.00350	3.21
%RSD	.17438	.22802	7.9886	1.4537	.61032	1.4490
#1	1.5796	.47793	.01201	.36909	.57607	219.24
#2	1.5741	.47954	.01063	.36928	.57519	219.51
#3	1.5776	.48002	.01037	.37856	.56961	224.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81950.**	**63204.**
Stddev	360.	720.
%RSD	.43948	1.1395
#1	81604.	63281.
#2	81923.	63883.
#3	82323.	62449.

Approved: February 24, 2011

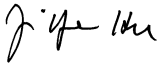
Sample Name: L1102041621 Acquired: 2/23/2011 12:20:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00512**	**100.11**	**.08976**	**.05538**	**2.0877**	**.00900**	**596.84**
Stddev	.00028	1.51	.00293	.00033	.0088	.00007	11.73
%RSD	5.4047	1.5122	3.2672	.59830	.42058	.79703	1.9660
#1	.00542	101.85	.09267	.05543	2.0956	.00906	610.12
#2	.00505	99.135	.08680	.05503	2.0782	.00892	592.50
#3	.00488	99.341	.08981	.05569	2.0893	.00901	587.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08276**	**.09234**	**.19501**	**1.3485**	**205.80**	**26.467**	**.18263**
Stddev	.00027	.00043	.00148	.0044	.89	.121	.00136
%RSD	.33205	.46635	.76017	.32923	.43144	.45750	.74425
#1	.08305	.09248	.19658	1.3499	206.57	26.557	.18113
#2	.08273	.09269	.19363	1.3521	204.82	26.329	.18298
#3	.08250	.09186	.19481	1.3435	206.00	26.514	.18377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**80.855**	**4.0675**	**.01225**	**5.4230**	**.21430**	F **-57822.**	**2.0947**
Stddev	.424	.0172	.00017	.0179	.00139	204.	.0043
%RSD	.52446	.42320	1.3577	.32981	.64900	.35333	.20361
#1	81.076	4.0832	.01206	5.4412	.21485	-58042.	2.0991
#2	80.366	4.0491	.01236	5.4054	.21533	-57785.	2.0944
#3	81.123	4.0702	.01233	5.4224	.21272	-57638.	2.0906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011



Sample Name: L1102041621 Acquired: 2/23/2011 12:20:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-13.518**	F **678.58**	F **-5841.8**	**.03093**	**.00790**	F **308.41**	**.14644**
Stddev	4.581	.65	20.2	.00208	.00292	2.66	.00087
%RSD	33.892	.09628	.34615	6.7277	37.021	.86115	.59475
#1	-9.4250	678.10	-5864.7	.02946	.01078	310.48	.14725
#2	-12.661	679.33	-5834.4	.03331	.00493	309.32	.14654
#3	-18.467	678.32	-5826.3	.03001	.00798	305.42	.14552
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2893**	**.40062**	**.00738**	**.26653**	**2.9641**	F **245.69**
Stddev	.0060	.00139	.00059	.00235	.0037	1.94
%RSD	.46440	.34653	7.9617	.88336	.12300	.79077
#1	1.2936	.39990	.00675	.26906	2.9624	247.27
#2	1.2824	.39975	.00748	.26441	2.9683	243.52
#3	1.2917	.40222	.00791	.26611	2.9616	246.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84021.**	**64267.**
Stddev	463.	734.
%RSD	.55106	1.1420
#1	84477.	63483.
#2	84035.	64937.
#3	83552.	64381.

Approved: February 24, 2011

Sample Name: L1102050217 Acquired: 2/23/2011 12:24:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00692**	**20.975**	**.11825**	**-.00077**	**.21693**	F **-.00055**	**8.6161**
Stddev	.00037	.126	.00095	.00047	.00028	.00002	.0026
%RSD	5.3400	.59957	.80325	60.500	.13130	3.6484	.02972
#1	.00650	20.885	.11818	-.00058	.21675	-.00058	8.6190
#2	.00707	21.119	.11924	-.00044	.21679	-.00054	8.6152
#3	.00720	20.921	.11734	-.00131	.21726	-.00055	8.6141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						4.5000	
Low Limit						-.00050	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**.01705**	**.02522**	**.02531**	**40.831**	**6.9116**	**.04852**
Stddev	.00004	.00006	.00037	.00016	.023	.0356	.00124
%RSD	3.0297	.34278	1.4821	.61991	.05636	.51532	2.5592
#1	.00118	.01700	.02566	.02515	40.806	6.8918	.04995
#2	.00124	.01705	.02503	.02533	40.838	6.8902	.04772
#3	.00124	.01712	.02499	.02546	40.850	6.9527	.04788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.8270**	**.90764**	**.00324**	**.44517**	**.01804**	F **-14453.**	**.01532**
Stddev	.0897	.00102	.00026	.01524	.00057	63.	.00047
%RSD	1.0161	.11214	7.9451	3.4229	3.1600	.43667	3.0970
#1	8.8001	.90671	.00296	.45023	.01778	-14391.	.01483
#2	8.9271	.90873	.00328	.42805	.01870	-14452.	.01578
#3	8.7539	.90750	.00347	.45724	.01765	-14517.	.01535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102050217 Acquired: 2/23/2011 12:24:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-5.1559**	F **13.057**	F **-242.03**	**-.00031**	**.00617**	F **274.08**	**.01630**
Stddev	6.1140	.027	2.06	.00197	.00337	.21	.00008
%RSD	118.58	.20323	.85208	638.04	54.627	.07617	.47274
#1	1.3421	13.030	-244.15	.00112	.00461	273.96	.01626
#2	-6.0149	13.056	-240.04	.00051	.00386	274.32	.01639
#3	-10.795	13.083	-241.90	-.00256	.01004	273.96	.01626
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08381**	**1.0816**	**.00643**	**.09286**	**.09560**	**12.456**
Stddev	.00009	.0036	.00096	.00061	.00034	.520
%RSD	.11138	.33670	14.894	.65884	.35915	4.1736
#1	.08375	1.0845	.00686	.09223	.09539	11.878
#2	.08392	1.0829	.00709	.09345	.09542	12.606
#3	.08377	1.0775	.00533	.09290	.09600	12.884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90127.**	**64790.**
Stddev	907.	329.
%RSD	1.0067	.50856
#1	90969.	64573.
#2	90246.	64628.
#3	89166.	65169.

Approved: February 24, 2011

Sample Name: L1102053843 Acquired: 2/23/2011 12:27:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**82.789**	**.04652**	**-.00760**	**1.0341**	**.00534**	**12.113**
Stddev	.00053	1.098	.00255	.00094	.0008	.00007	.036
%RSD	12.525	1.3258	5.4921	12.319	.07459	1.3289	.29386
#1	.00364	81.656	.04360	-.00717	1.0332	.00530	12.085
#2	.00469	82.863	.04837	-.00696	1.0346	.00542	12.101
#3	.00425	83.847	.04758	-.00867	1.0345	.00531	12.153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**.04950**	**.10288**	**.98745**	**169.97**	**16.153**	**.08287**
Stddev	.00012	.00012	.00055	.00182	.04	.046	.00097
%RSD	2.6869	.24217	.53443	.18382	.02114	.28385	1.1704
#1	.00425	.04936	.10266	.98555	169.93	16.116	.08246
#2	.00431	.04958	.10350	.98917	169.99	16.138	.08397
#3	.00448	.04956	.10246	.98762	169.98	16.204	.08217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3920**	**5.0112**	**.00694**	**.61367**	**.07167**	F **-13153.**	**.68942**
Stddev	.0327	.0055	.00019	.00768	.00041	24.	.00251
%RSD	.34775	.10973	2.7250	1.2508	.56795	.18597	.36464
#1	9.4284	5.0063	.00711	.62074	.07171	-13124.	.68701
#2	9.3820	5.0102	.00674	.61477	.07125	-13164.	.69202
#3	9.3654	5.0172	.00698	.60550	.07206	-13169.	.68923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102053843 Acquired: 2/23/2011 12:27:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-10.334**	F **107.52**	F **-5825.3**	**.00694**	**.00942**	F **119.83**	**.01230**
Stddev	5.092	.04	28.7	.00242	.00244	.98	.00011
%RSD	49.272	.03267	.49197	34.913	25.889	.81506	.92943
#1	-13.287	107.49	-5796.5	.00738	.00677	120.25	.01219
#2	-4.4546	107.56	-5825.6	.00911	.01156	120.53	.01229
#3	-13.260	107.50	-5853.9	.00432	.00993	118.71	.01242
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10436**	**.61262**	**.01049**	**.15239**	**1.0736**	F **72.086**
Stddev	.00035	.00112	.00098	.00051	.0014	.367
%RSD	.33914	.18330	9.3333	.33399	.12764	.50952
#1	.10472	.61377	.00954	.15186	1.0722	71.679
#2	.10435	.61255	.01043	.15287	1.0736	72.187
#3	.10401	.61153	.01149	.15245	1.0749	72.393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90067.**	**65745.**
Stddev	100.	195.
%RSD	.11117	.29732
#1	90106.	65900.
#2	90142.	65526.
#3	89953.	65811.

Approved: February 24, 2011

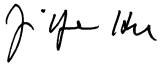
Sample Name: CCV Acquired: 2/23/2011 12:31:30 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40823**	**10.275**	**.39712**	**.50263**	**.98610**	**.04952**	**9.9586**
Stddev	.00221	.076	.00158	.00274	.00105	.00037	.0282
%RSD	.54123	.74146	.39721	.54593	.10658	.74142	.28311
#1	.41026	10.284	.39884	.50358	.98637	.04953	9.9474
#2	.40587	10.194	.39678	.49954	.98699	.04914	9.9906
#3	.40857	10.346	.39575	.50478	.98494	.04988	9.9377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04970**	**.20094**	**.50482**	**.49660**	**3.9251**	**50.051**	**.99216**
Stddev	.00006	.00030	.00218	.00088	.0116	.065	.00147
%RSD	.11428	.14905	.43126	.17653	.29501	.12989	.14850
#1	.04973	.20064	.50581	.49628	3.9366	50.012	.99292
#2	.04963	.20094	.50233	.49759	3.9134	50.016	.99046
#3	.04973	.20124	.50633	.49593	3.9253	50.126	.99310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7580**	**.49047**	**.99523**	**49.870**	**.50152**	F **4.4617**	**.50026**
Stddev	.0360	.00082	.00020	.026	.00080	34.249	.00124
%RSD	.36925	.16654	.02044	.05284	.16010	767.63	.24700
#1	9.7649	.49133	.99499	49.900	.50245	-16.015	.49952
#2	9.7190	.48971	.99536	49.860	.50109	44.001	.49957
#3	9.7900	.49038	.99533	49.850	.50102	-14.601	.50168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011



Sample Name: CCV Acquired: 2/23/2011 12:31:30 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **3.1594**	**10.123**	**10.373**	**1.2045**	**.39681**	F **4.0717**	**1.0071**
Stddev	4.8577	.060	2.485	.0034	.00378	.0550	.0015
%RSD	153.76	.59191	23.960	.28555	.95192	1.3510	.15408
#1	3.2709	10.190	10.894	1.2021	.39734	4.0930	1.0053
#2	-1.7531	10.103	12.556	1.2085	.39280	4.0092	1.0077
#3	7.9604	10.075	7.6682	1.2029	.40030	4.1128	1.0082
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000					5.0000	
Range	-10.000%					-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97348**	**.98761**	**.50855**	**1.0048**	**.99564**	F **3.8898**
Stddev	.00239	.00170	.00123	.0055	.00073	.7369
%RSD	.24579	.17254	.24233	.54509	.07373	18.944
#1	.97624	.98945	.50925	1.0070	.99616	3.5540
#2	.97227	.98728	.50713	.99859	.99480	3.3806
#3	.97195	.98609	.50927	1.0089	.99596	4.7347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86614.**	**63383.**
Stddev	261.	414.
%RSD	.30082	.65251
#1	86689.	63371.
#2	86829.	63802.
#3	86324.	62976.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 12:35:02 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00109**	**.01811**	**.00076**	**.00147**	**.00069**	**.00003**	**-.01976**
Stddev	.00149	.00325	.00206	.00073	.00022	.00004	.00613
%RSD	136.11	17.947	271.65	49.185	32.197	132.29	31.033
#1	-.00214	.01689	.00106	.00074	.00073	.00007	-.02614
#2	-.00174	.01565	.00266	.00219	.00045	.00000	-.01392
#3	.00061	.02180	-.00144	.00150	.00088	.00002	-.01921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00011**	**.00003**	**.00013**	**.00207**	**.03408**	**.00124**
Stddev	.00007	.00023	.00025	.00010	.00922	.02151	.00177
%RSD	270.04	215.20	920.52	82.440	444.95	63.127	143.04
#1	-.00001	-.00024	.00008	.00025	-.00813	.01053	-.00076
#2	.00003	.00016	-.00025	.00006	.00454	.05271	.00184
#3	-.00009	-.00023	.00025	.00007	.00981	.03900	.00262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00993**	**-.00009**	**.00059**	**.01153**	**.00049**	F **9.2912**	**.00029**
Stddev	.02322	.00049	.00021	.01500	.00036	17.929	.00113
%RSD	233.80	572.44	35.093	130.13	73.408	192.96	396.25
#1	.03528	-.00060	.00062	.02675	.00015	22.436	.00094
#2	.00484	-.00004	.00077	.01110	.00086	16.570	-.00102
#3	-.01032	.00038	.00036	-.00325	.00045	-11.132	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 12:35:02 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.7782**	**-.00778**	F **5.6850**	**-.00141**	**.00606**	**-.25910**	**.00002**
Stddev	5.0808	.05748	.1888	.00165	.00268	.14569	.00004
%RSD	51.961	738.47	3.3202	117.02	44.267	56.227	217.39
#1	4.8950	.04859	5.5086	-.00329	.00457	-.21937	.00006
#2	9.4039	-.00563	5.6622	-.00023	.00916	-.42053	-.00001
#3	15.036	-.06631	5.8841	-.00070	.00445	-.13741	.00000
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00030**	**.00165**	**.00040**	**.00000**	F **-.39635**
Stddev	.00012	.00049	.00044	.00029	.0001	.07689
%RSD	373.44	166.01	26.436	72.715	1526.0	19.399
#1	-.00004	.00083	.00156	.00010	-.00007	-.43626
#2	.00017	-.00014	.00212	.00067	-.00001	-.30771
#3	-.00003	.00020	.00126	.00043	.00007	-.44507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89990.**	**62023.**
Stddev	358.	1514.
%RSD	.39764	2.4410
#1	90379.	62792.
#2	89918.	62997.
#3	89674.	60278.

Approved: February 24, 2011

Sample Name: L1102053845 Acquired: 2/23/2011 12:38:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00473**	**83.516**	**.04423**	**-.00552**	**1.1611**	**.00611**	**10.848**
Stddev	.00088	.448	.00110	.00147	.0009	.00003	.029
%RSD	18.530	.53677	2.4907	26.676	.07720	.43338	.26584
#1	.00461	83.675	.04550	-.00611	1.1604	.00613	10.822
#2	.00391	83.010	.04362	-.00661	1.1621	.00611	10.844
#3	.00565	83.863	.04356	-.00385	1.1608	.00608	10.879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00573**	**.06336**	**.10120**	**1.2648**	**174.26**	**15.938**	**.08255**
Stddev	.00012	.00075	.00098	.0200	.15	.041	.00080
%RSD	2.1045	1.1900	.96759	1.5785	.08652	.25581	.96950
#1	.00570	.06365	.10202	1.2700	174.10	15.933	.08250
#2	.00586	.06250	.10011	1.2428	174.27	15.900	.08337
#3	.00563	.06393	.10145	1.2817	174.40	15.981	.08177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.262**	**6.8788**	**.00636**	**.46240**	**.09022**	F **-13405.**	**.76519**
Stddev	.038	.0079	.00016	.00940	.00068	233.	.01165
%RSD	.37509	.11420	2.5058	2.0324	.75841	1.7391	1.5222
#1	10.299	6.8754	.00620	.45159	.09088	-13526.	.76895
#2	10.266	6.8732	.00636	.46697	.08951	-13136.	.75213
#3	10.222	6.8878	.00652	.46863	.09029	-13552.	.77449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102053845 Acquired: 2/23/2011 12:38:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-10.945**	F **54.406**	F **-2659.6**	**.00660**	**.00889**	F **116.88**	**.01519**
Stddev	3.737	.687	39.9	.00265	.00208	1.79	.00026
%RSD	34.148	1.2633	1.4989	40.152	23.412	1.5346	1.6867
#1	-7.6192	54.416	-2679.7	.00727	.01094	118.40	.01524
#2	-10.226	53.714	-2613.7	.00367	.00896	114.90	.01491
#3	-14.989	55.088	-2685.5	.00884	.00678	117.35	.01541
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10382**	**.61974**	**.01165**	**.13959**	**1.3928**	F **76.352**
Stddev	.00019	.00128	.00064	.00070	.0189	.358
%RSD	.17843	.20593	5.4999	.50428	1.3591	.46860
#1	.10382	.62007	.01238	.14034	1.3972	76.063
#2	.10400	.62081	.01117	.13894	1.3721	76.241
#3	.10363	.61833	.01140	.13950	1.4092	76.752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88758.**	**64972.**
Stddev	1077.	88.
%RSD	1.2137	.13602
#1	88914.	64871.
#2	89749.	65034.
#3	87612.	65012.

Approved: February 24, 2011

Sample Name: L1102054001 Acquired: 2/23/2011 12:42:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00566**	**69.572**	**.18074**	**-.00518**	**1.9726**	**.00650**	**310.37**
Stddev	.00039	.562	.00160	.00135	.0035	.00004	.52
%RSD	6.9668	.80803	.88414	26.028	.17577	.60485	.16615
#1	.00521	69.468	.18233	-.00641	1.9698	.00649	309.98
#2	.00587	70.179	.17913	-.00539	1.9715	.00655	310.18
#3	.00591	69.069	.18076	-.00374	1.9765	.00647	310.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02071**	**.04716**	**.11721**	**3.1623**	**173.31**	**15.439**	**.08669**
Stddev	.00006	.00028	.00212	.0076	.39	.044	.00212
%RSD	.29437	.59275	1.8127	.23859	.22744	.28319	2.4408
#1	.02078	.04748	.11594	3.1678	172.91	15.392	.08780
#2	.02068	.04703	.11966	3.1654	173.30	15.449	.08425
#3	.02067	.04697	.11603	3.1537	173.70	15.478	.08802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**62.230**	**8.3171**	**.01218**	**.53201**	**.09651**	F **-22407.**	**2.1003**
Stddev	.460	.0186	.00051	.00784	.00051	35.	.0033
%RSD	.73851	.22375	4.1594	1.4733	.52399	.15628	.15654
#1	61.729	8.2964	.01223	.53565	.09699	-22415.	2.1037
#2	62.632	8.3223	.01165	.53737	.09655	-22437.	2.1002
#3	62.329	8.3325	.01266	.52302	.09598	-22368.	2.0971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054001 Acquired: 2/23/2011 12:42:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-7.9286**	F **577.22**	F **-16987.**	**.00861**	**.01748**	F **132.35**	**.01700**
Stddev	7.4654	.97	90.	.00290	.00333	1.85	.00037
%RSD	94.158	.16767	.52696	33.630	19.074	1.3952	2.1718
#1	-14.632	576.23	-17089.	.00825	.01380	134.12	.01667
#2	-9.2700	578.16	-16945.	.01167	.02030	132.48	.01740
#3	.1166	577.26	-16925.	.00591	.01833	130.44	.01693
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23486**	**.27964**	**.01001**	**.14157**	**3.4158**	F **55.535**
Stddev	.00074	.00202	.00066	.00173	.0038	.948
%RSD	.31341	.72376	6.5575	1.2246	.11180	1.7072
#1	.23415	.27733	.01005	.14100	3.4176	54.446
#2	.23562	.28109	.00933	.14352	3.4183	55.986
#3	.23481	.28050	.01064	.14019	3.4114	56.174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84868.**	**64295.**
Stddev	212.	228.
%RSD	.24923	.35490
#1	85078.	64526.
#2	84655.	64070.
#3	84870.	64289.

Approved: February 24, 2011

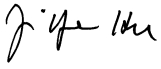
Sample Name: L1102054001PS Acquired: 2/23/2011 12:45:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment: WG357244-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20920**	**73.347**	**.38186**	**.95918**	**2.4664**	**.03140**	**315.17**
Stddev	.00095	.911	.00336	.00300	.0053	.00016	.44
%RSD	.45571	1.2427	.87872	.31271	.21670	.49562	.14105
#1	.20953	72.325	.37869	.95672	2.4608	.03123	314.71
#2	.20995	74.075	.38151	.96252	2.4667	.03154	315.21
#3	.20813	73.642	.38537	.95831	2.4715	.03143	315.59
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04577**	**.14461**	**.36029**	**3.4027**	**175.28**	**40.560**	**.58990**
Stddev	.00008	.00012	.00209	.0039	.35	.059	.00360
%RSD	.17709	.08397	.57992	.11587	.20226	.14622	.60969
#1	.04568	.14451	.35790	3.3985	174.87	40.495	.58955
#2	.04577	.14458	.36174	3.4064	175.43	40.572	.58650
#3	.04585	.14475	.36124	3.4031	175.53	40.612	.59366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**67.055**	**8.5587**	**.52254**	**26.364**	**.33633**	F **-22671.**	**2.3298**
Stddev	.300	.0107	.00071	.041	.00053	42.	.0045
%RSD	.44768	.12439	.13521	.15588	.15648	.18625	.19160
#1	66.777	8.5469	.52172	26.317	.33584	-22637.	2.3253
#2	67.013	8.5614	.52290	26.388	.33689	-22658.	2.3300
#3	67.373	8.5677	.52299	26.388	.33626	-22718.	2.3342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011



Sample Name: L1102054001PS Acquired: 2/23/2011 12:45:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment: WG357244-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-8.7105**	F **585.14**	F **-17110.**	**.59667**	**.21038**	F **489.07**	**.01979**
Stddev	5.7795	1.09	19.	.00159	.00123	.76	.00060
%RSD	66.351	.18622	.10978	.26662	.58310	.15444	3.0437
#1	-4.4307	583.90	-17089.	.59846	.20927	489.62	.01962
#2	-6.4158	585.91	-17124.	.59612	.21017	489.38	.01930
#3	-15.285	585.63	-17118.	.59542	.21170	488.21	.02046
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.71829**	**.76446**	**.24481**	**.63960**	**3.9070**	F **59.615**
Stddev	.00200	.00152	.00205	.00226	.0063	.263
%RSD	.27909	.19891	.83854	.35331	.16262	.44089
#1	.71654	.76302	.24248	.63803	3.9011	59.474
#2	.71785	.76605	.24559	.64219	3.9137	59.452
#3	.72047	.76431	.24635	.63859	3.9061	59.918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83350.**	**62682.**
Stddev	223.	251.
%RSD	.26726	.40057
#1	83421.	62969.
#2	83100.	62571.
#3	83528.	62504.

Approved: February 24, 2011

Sample Name: L1102054001SDL Acquired: 2/23/2011 12:49:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 10 Custom ID2: Custom ID3:
Comment: WG357244-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**16.515**	**.03769**	**-.00196**	**.39331**	**.00138**	**63.151**
Stddev	.00046	.342	.00131	.00076	.00156	.00004	.060
%RSD	60.346	2.0718	3.4684	38.832	.39730	2.7235	.09554
#1	.00084	16.910	.03687	-.00110	.39154	.00140	63.151
#2	.00026	16.326	.03920	-.00254	.39389	.00140	63.092
#3	.00117	16.310	.03701	-.00225	.39449	.00133	63.212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00422**	**.01000**	**.02567**	**.65900**	**35.167**	**3.1065**	**.02172**
Stddev	.00002	.00005	.00077	.00116	.107	.0428	.00172
%RSD	.57263	.48431	2.9861	.17603	.30394	1.3782	7.9006
#1	.00419	.01004	.02638	.65786	35.043	3.1514	.02290
#2	.00424	.01003	.02486	.66018	35.230	3.0662	.01975
#3	.00422	.00995	.02578	.65896	35.227	3.1019	.02251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.957**	**1.7058**	**.00230**	**.12449**	**.02102**	F **-4693.5**	**.45307**
Stddev	.054	.0018	.00008	.00241	.00009	14.1	.00077
%RSD	.41722	.10391	3.6515	1.9352	.43524	.30086	.16974
#1	12.973	1.7061	.00233	.12218	.02091	-4677.3	.45304
#2	12.897	1.7039	.00236	.12431	.02108	-4703.5	.45232
#3	13.002	1.7074	.00220	.12699	.02106	-4699.5	.45386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054001SDL Acquired: 2/23/2011 12:49:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 10 Custom ID2: Custom ID3:
Comment: WG357244-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-4.3056**	F **123.99**	F **-3541.6**	**.00068**	**.00395**	**26.730**	**.00312**
Stddev	4.3298	.19	18.1	.00089	.00021	.388	.00031
%RSD	100.56	.15142	.51109	131.56	5.2536	1.4502	9.9210
#1	-2.2870	124.10	-3524.3	-.00034	.00373	26.851	.00276
#2	-9.2761	124.09	-3540.1	.00104	.00399	27.043	.00328
#3	-1.3536	123.77	-3560.4	.00133	.00414	26.296	.00332
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04719**	**.05488**	**.00376**	**.03031**	**.71397**	**9.9271**
Stddev	.00021	.00037	.00053	.00055	.00093	1.1234
%RSD	.45469	.67191	14.148	1.8251	.12970	11.316
#1	.04696	.05527	.00424	.03093	.71309	9.7783
#2	.04722	.05453	.00385	.02987	.71494	11.118
#3	.04739	.05485	.00319	.03012	.71389	8.8856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91085.**	**65800.**
Stddev	57.	1392.
%RSD	.06298	2.1158
#1	91114.	64193.
#2	91018.	66585.
#3	91121.	66623.

Approved: February 24, 2011

Sample Name: L1102054001SDL Acquired: 2/23/2011 12:53:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG357244-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**3.3286**	**.00905**	**-.00023**	**.07856**	**.00027**	**12.565**
Stddev	.00052	.0085	.00032	.00127	.00007	.00002	.030
%RSD	1729.0	.25485	3.4955	546.52	.08582	7.8751	.23491
#1	.00044	3.3333	.00895	-.00165	.07860	.00030	12.533
#2	.00005	3.3188	.00879	.00080	.07848	.00026	12.570
#3	-.00058	3.3337	.00940	.00015	.07859	.00026	12.591
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.00231**	**.00528**	**.13510**	**7.1013**	**.62025**	**.00362**
Stddev	.00007	.00013	.00046	.00062	.0248	.04131	.00344
%RSD	8.3226	5.4407	8.7300	.46066	.34851	6.6596	94.952
#1	.00078	.00246	.00486	.13438	7.1160	.62432	-.00028
#2	.00089	.00225	.00578	.13546	7.1152	.65937	.00495
#3	.00076	.00223	.00521	.13546	7.0727	.57706	.00619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.6281**	**.34426**	**.00024**	**.03502**	**.00425**	F **-972.19**	**.09488**
Stddev	.0357	.00131	.00013	.01111	.00038	9.20	.00166
%RSD	1.3570	.38044	55.305	31.714	9.0068	.94682	1.7506
#1	2.5897	.34577	.00009	.02488	.00447	-961.71	.09518
#2	2.6345	.34349	.00032	.04689	.00381	-978.95	.09637
#3	2.6601	.34351	.00031	.03330	.00446	-975.91	.09309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054001SDL Acquired: 2/23/2011 12:53:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG357244-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-6.4705**	F **25.703**	F **-711.30**	**-.00173**	**.00152**	**4.5461**	**.00049**
Stddev	3.6078	.215	1.47	.00060	.00142	.2728	.00038
%RSD	55.758	.83590	.20735	34.785	93.603	6.0000	77.373
#1	-2.7116	25.458	-709.60	-.00243	-.00003	4.5786	.00093
#2	-9.9054	25.858	-712.27	-.00136	.00182	4.8011	.00023
#3	-6.7946	25.794	-712.02	-.00141	.00276	4.2585	.00032
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00947**	**.01109**	**.00211**	**.00618**	**.14730**	**1.0049**
Stddev	.00011	.00101	.00044	.00009	.00050	.2909
%RSD	1.1228	9.1393	21.129	1.5214	.33882	28.950
#1	.00954	.01024	.00262	.00628	.14673	1.1240
#2	.00935	.01221	.00185	.00610	.14755	1.2173
#3	.00953	.01080	.00184	.00616	.14763	.67329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92278.**	**67215.**
Stddev	301.	202.
%RSD	.32667	.30120
#1	91961.	67184.
#2	92314.	67431.
#3	92560.	67030.

Approved: February 24, 2011

Sample Name: L1102054041 Acquired: 2/23/2011 12:56:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00243**	**68.558**	**.04072**	**-.00958**	**1.1951**	**.00559**	**20.495**
Stddev	.00028	.313	.00080	.00054	.0044	.00003	.040
%RSD	11.467	.45694	1.9629	5.6557	.37183	.61190	.19391
#1	.00246	68.894	.04157	-.00941	1.1901	.00560	20.451
#2	.00270	68.273	.04062	-.01019	1.1970	.00555	20.528
#3	.00214	68.507	.03998	-.00915	1.1984	.00561	20.506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00395**	**.05265**	**.08678**	**.89965**	**168.57**	**15.764**	**.06897**
Stddev	.00004	.00007	.00099	.00185	.45	.077	.00137
%RSD	1.0598	.13464	1.1353	.20515	.26772	.49103	1.9815
#1	.00398	.05273	.08791	.90176	168.06	15.696	.06769
#2	.00390	.05261	.08630	.89883	168.74	15.748	.06881
#3	.00397	.05260	.08613	.89835	168.92	15.848	.07041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.017**	**5.4413**	**.00618**	**.68563**	**.06649**	F **-10133.**	**.77355**
Stddev	.111	.0121	.00015	.00157	.00037	20.	.00159
%RSD	1.1094	.22210	2.3588	.22867	.55752	.19394	.20550
#1	9.9124	5.4273	.00626	.68448	.06673	-10140.	.77329
#2	10.004	5.4481	.00627	.68500	.06606	-10148.	.77525
#3	10.134	5.4484	.00601	.68742	.06668	-10111.	.77211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054041 Acquired: 2/23/2011 12:56:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-22.054**	F **158.52**	F **-8495.4**	**.00614**	**.00722**	F **168.32**	**.02192**
Stddev	5.800	.06	1.9	.00170	.00156	1.94	.00004
%RSD	26.297	.03685	.02281	27.687	21.611	1.1523	.16515
#1	-15.613	158.56	-8494.1	.00801	.00894	168.81	.02195
#2	-23.689	158.45	-8497.6	.00573	.00683	169.97	.02188
#3	-26.861	158.54	-8494.4	.00469	.00590	166.18	.02193
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14275**	**.42171**	**.00961**	**.12811**	**1.0553**	F **80.301**
Stddev	.00082	.00278	.00106	.00099	.0003	.544
%RSD	.57164	.65871	11.013	.77352	.02467	.67803
#1	.14195	.41864	.00852	.12926	1.0556	80.418
#2	.14273	.42243	.00967	.12753	1.0551	80.777
#3	.14358	.42405	.01063	.12755	1.0552	79.708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90202.**	**68899.**
Stddev	212.	487.
%RSD	.23448	.70651
#1	90338.	68641.
#2	90311.	69461.
#3	89959.	68596.

Approved: February 24, 2011

Sample Name: L1102054117 Acquired: 2/23/2011 13:00:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00365**	**70.554**	**.03755**	**-.00847**	**.88499**	**.00486**	**10.085**
Stddev	.00029	.571	.00118	.00082	.00276	.00001	.050
%RSD	7.9005	.80950	3.1368	9.7410	.31168	.16962	.49518
#1	.00376	69.897	.03714	-.00805	.88268	.00486	10.037
#2	.00388	70.936	.03888	-.00794	.88425	.00485	10.082
#3	.00333	70.829	.03663	-.00942	.88804	.00487	10.136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00317**	**.04315**	**.08348**	**.79853**	**154.05**	**14.568**	**.05896**
Stddev	.00010	.00022	.00037	.00269	.45	.014	.00213
%RSD	3.0720	.50312	.44594	.33717	.29305	.09318	3.6044
#1	.00319	.04315	.08372	.79544	153.66	14.553	.05657
#2	.00325	.04293	.08366	.79974	153.94	14.572	.05967
#3	.00306	.04337	.08305	.80040	154.55	14.580	.06064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.0345**	**4.3845**	**.00663**	**.38600**	**.05740**	F **-12615.**	**.69220**
Stddev	.0192	.0203	.00036	.01008	.00047	31.	.00284
%RSD	.23854	.46256	5.4437	2.6127	.82151	.24366	.41083
#1	8.0391	4.3636	.00621	.37810	.05767	-12629.	.68893
#2	8.0135	4.3860	.00686	.38254	.05685	-12636.	.69412
#3	8.0510	4.4041	.00682	.39736	.05767	-12580.	.69355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054117 Acquired: 2/23/2011 13:00:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-18.017**	F **56.094**	F **-2785.2**	**.00759**	**.00837**	F **109.01**	**.01315**
Stddev	2.528	.205	4.9	.00133	.00300	1.05	.00024
%RSD	14.029	.36516	.17558	17.525	35.884	.95928	1.7884
#1	-17.616	56.071	-2790.8	.00663	.00586	109.42	.01330
#2	-20.721	55.902	-2783.0	.00703	.00756	109.78	.01288
#3	-15.713	56.310	-2781.8	.00911	.01170	107.82	.01328
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08904**	**.48097**	**.00842**	**.13364**	**.93294**	F **65.036**
Stddev	.00020	.00155	.00008	.00034	.00481	.792
%RSD	.22514	.32237	.98152	.25673	.51596	1.2179
#1	.08917	.48192	.00848	.13393	.92804	64.249
#2	.08914	.47918	.00833	.13373	.93310	65.833
#3	.08881	.48180	.00847	.13326	.93767	65.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92408.**	**69457.**
Stddev	608.	370.
%RSD	.65786	.53272
#1	92907.	69097.
#2	92585.	69436.
#3	91731.	69836.

Approved: February 24, 2011

Sample Name: L1102054105 Acquired: 2/23/2011 13:04:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00351**	**74.875**	**.03715**	**-.01028**	**.90299**	**.00508**	**10.110**
Stddev	.00053	1.285	.00193	.00048	.00825	.00012	.099
%RSD	15.114	1.7169	5.1966	4.6475	.91349	2.3233	.97894
#1	.00402	76.352	.03495	-.01041	.91214	.00520	10.224
#2	.00296	74.004	.03796	-.01067	.89612	.00497	10.042
#3	.00356	74.270	.03854	-.00975	.90070	.00508	10.064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00364**	**.04058**	**.10252**	**.76923**	**162.50**	**14.558**	**.06413**
Stddev	.00010	.00011	.00189	.00513	1.60	.091	.00280
%RSD	2.7891	.27987	1.8414	.66692	.98700	.62606	4.3667
#1	.00376	.04046	.10470	.76391	164.24	14.652	.06553
#2	.00357	.04061	.10140	.76962	161.07	14.470	.06091
#3	.00360	.04068	.10147	.77415	162.20	14.552	.06596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.1205**	**4.3532**	**.00699**	**.38372**	**.06402**	F **-13221.**	**.67276**
Stddev	.1247	.0461	.00033	.00138	.00111	83.	.00578
%RSD	1.5353	1.0594	4.7876	.35955	1.7345	.62686	.85910
#1	8.2630	4.4047	.00660	.38213	.06315	-13149.	.66850
#2	8.0667	4.3157	.00720	.38445	.06364	-13202.	.67043
#3	8.0317	4.3393	.00716	.38458	.06527	-13312.	.67934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102054105 Acquired: 2/23/2011 13:04:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-17.158**	F **56.026**	F **-2773.0**	**.00555**	**.00807**	F **111.92**	**.01423**
Stddev	5.617	.231	18.6	.00275	.00136	1.16	.00049
%RSD	32.740	.41197	.66901	49.556	16.870	1.0373	3.4486
#1	-21.183	55.778	-2759.3	.00862	.00683	111.05	.01374
#2	-10.740	56.067	-2765.6	.00469	.00785	113.24	.01472
#3	-19.550	56.234	-2794.1	.00333	.00953	111.46	.01423
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09463**	**.48298**	**.00911**	**.14119**	**.91652**	F **67.230**
Stddev	.00123	.00508	.00094	.00244	.00514	2.070
%RSD	1.3044	1.0521	10.279	1.7288	.56136	3.0796
#1	.09605	.48860	.01011	.14396	.91267	69.618
#2	.09378	.47871	.00895	.13933	.91453	65.939
#3	.09406	.48164	.00826	.14030	.92236	66.133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90154.**	**67095.**
Stddev	243.	1197.
%RSD	.26935	1.7837
#1	90195.	65790.
#2	90374.	68142.
#3	89893.	67351.

Approved: February 24, 2011

Sample Name: L1102054138 Acquired: 2/23/2011 13:07:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00657**	**32.101**	**.03477**	**.07068**	**2.1760**	**.00229**
Stddev	.00055	.236	.00107	.00061	.0026	.00001
%RSD	8.3400	.73431	3.0840	.86081	.11797	.62392
#1	.00647	32.134	.03419	.07066	2.1737	.00230
#2	.00716	31.850	.03600	.07008	2.1787	.00227
#3	.00607	32.318	.03411	.07130	2.1756	.00230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**237.35**	**.00579**	**.03667**	**.09486**	**.62301**	**74.852**
Stddev	.28	.00008	.00016	.00047	.00053	.086
%RSD	.11669	1.4110	.43825	.49352	.08551	.11524
#1	237.10	.00570	.03686	.09450	.62343	74.819
#2	237.30	.00586	.03656	.09468	.62319	74.788
#3	237.65	.00580	.03660	.09539	.62241	74.950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.8848**	**.05774**	**29.875**	**2.8597**	**.00923**	**3.0559**
Stddev	.0133	.00076	.135	.0063	.00023	.0135
%RSD	.13500	1.3106	.45101	.22057	2.4504	.44070
#1	9.8714	.05850	29.775	2.8544	.00899	3.0501
#2	9.8980	.05699	29.821	2.8579	.00944	3.0713
#3	9.8850	.05773	30.028	2.8667	.00924	3.0463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102054138 Acquired: 2/23/2011 13:07:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07761**	F **-145620.**	**.79319**	F **-17.753**	F **643.00**	F **-25227.**
Stddev	.00082	49.	.00181	4.258	2.10	5.
%RSD	1.0603	.03363	.22858	23.987	.32617	.01828
#1	.07705	-145610.	.79110	-13.877	644.75	-25224.
#2	.07723	-145580.	.79411	-22.311	643.58	-25233.
#3	.07856	-145680.	.79435	-17.070	640.68	-25226.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**.01745**	F **145.11**	**.15486**	**1.5762**	**.40333**
Stddev	.00156	.00259	.14	.00044	.0007	.00195
%RSD	34.750	14.865	.09603	.28151	.04394	.48415
#1	.00391	.01544	144.95	.15491	1.5755	.40395
#2	.00624	.02037	145.20	.15439	1.5763	.40115
#3	.00329	.01653	145.18	.15526	1.5769	.40491
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.00149**	**.11439**	**1.2839**	**35.755**
Stddev	.00119	.00097	.0001	1.411
%RSD	80.250	.85200	.00862	3.9470
#1	.00167	.11432	1.2839	35.182
#2	.00258	.11346	1.2840	34.722
#3	.00021	.11540	1.2838	37.363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: February 24, 2011

Sample Name: L1102054138 Acquired: 2/23/2011 13:07:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86758.**	**66554.**
Stddev	165.	567.
%RSD	.19062	.85126
#1	86717.	66476.
#2	86617.	67156.
#3	86940.	66031.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 13:11:14 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40559**	**10.142**	**.39714**	**.50022**	**.98215**	**.04901**	**9.8900**
Stddev	.00377	.087	.00080	.00635	.00095	.00028	.0080
%RSD	.92932	.86269	.20054	1.2704	.09692	.56508	.08093
#1	.40948	10.238	.39732	.50717	.98115	.04930	9.8821
#2	.40196	10.068	.39784	.49470	.98225	.04874	9.8898
#3	.40533	10.118	.39627	.49879	.98305	.04899	9.8981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04954**	**.20043**	**.49929**	**.49338**	**3.8673**	**49.637**	**.98825**
Stddev	.00027	.00039	.00352	.00211	.0159	.041	.00131
%RSD	.55206	.19234	.70531	.42712	.41046	.08193	.13233
#1	.04934	.20038	.50328	.49203	3.8843	49.628	.98859
#2	.04985	.20084	.49660	.49581	3.8528	49.602	.98680
#3	.04943	.20007	.49800	.49230	3.8648	49.682	.98935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5810**	**.48510**	**.99435**	**49.771**	**.50139**	F **-21.262**	**.49271**
Stddev	.0336	.00197	.00251	.019	.00145	17.057	.00243
%RSD	.35070	.40574	.25235	.03814	.28896	80.222	.49255
#1	9.5465	.48283	.99325	49.793	.49998	-18.699	.49095
#2	9.6137	.48638	.99723	49.762	.50287	-39.456	.49548
#3	9.5827	.48608	.99259	49.758	.50133	-5.6319	.49169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 13:11:14 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **3.6890**	**10.138**	F **7.3967**	**1.2040**	**.39723**	F **4.1785**	**1.0026**
Stddev	2.1697	.067	1.7024	.0032	.00194	.2312	.0028
%RSD	58.816	.66344	23.016	.26525	.48785	5.5341	.27662
#1	6.1248	10.072	6.1914	1.2018	.39736	3.9307	1.0000
#2	1.9633	10.206	9.3442	1.2077	.39910	4.3885	1.0055
#3	2.9789	10.136	6.6545	1.2026	.39523	4.2164	1.0023
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		-10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97144**	**.97674**	**.50596**	**.99802**	**.98723**	F **1.1961**
Stddev	.00200	.00121	.00101	.00843	.00328	.0429
%RSD	.20590	.12394	.19934	.84480	.33204	3.5878
#1	.97002	.97640	.50541	1.0056	.98433	1.1468
#2	.97373	.97574	.50713	.98896	.99079	1.2162
#3	.97056	.97808	.50535	.99947	.98658	1.2253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88160.**	**64528.**
Stddev	295.	511.
%RSD	.33461	.79149
#1	88339.	63983.
#2	87819.	64996.
#3	88320.	64605.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 13:14:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00137**	**.00838**	**-.00111**	**.00131**	**-.00015**	**.00004**	**-.01434**
Stddev	.00035	.00349	.00067	.00084	.00029	.00002	.00353
%RSD	25.859	41.709	60.551	64.549	187.13	58.397	24.584
#1	-.00177	.00529	-.00187	.00103	-.00025	.00002	-.01715
#2	-.00110	.01217	-.00063	.00226	.00017	.00006	-.01548
#3	-.00124	.00767	-.00081	.00064	-.00039	.00003	-.01039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00009**	**-.00002**	**-.00016**	**.00453**	**.04613**	**.00125**
Stddev	.00005	.00010	.00034	.00035	.00480	.05670	.00146
%RSD	220.48	101.28	1976.2	215.42	105.82	122.93	116.88
#1	-.00008	.00001	.00036	.00007	.00023	.04358	.00287
#2	.00001	-.00012	-.00031	.00001	.00971	-.00926	.00004
#3	.00000	-.00017	-.00010	-.00056	.00366	.10406	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01435**	**.00046**	**.00069**	**.01778**	**.00081**	**.27881**	**.00127**
Stddev	.03371	.00047	.00006	.01108	.00030	7.9465	.00048
%RSD	234.92	103.86	9.4323	62.316	37.737	2850.1	37.447
#1	-.01700	.00030	.00071	.02338	.00054	.55886	.00123
#2	.02061	.00099	.00073	.02494	.00075	8.0816	.00177
#3	-.04665	.00008	.00061	.00502	.00114	-7.8040	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 13:14:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.0242**	**.03087**	F **3.6867**	**.00000**	**.00393**	**-.22723**	**.00028**
Stddev	.8022	.03086	2.5029	.0001	.00140	.17059	.00012
%RSD	19.934	99.958	67.891	6798.3	35.776	75.072	43.668
#1	3.7109	.06542	6.5362	-.00016	.00553	-.41684	.00034
#2	3.4259	.00604	2.6798	.00013	.00332	-.17867	.00036
#3	4.9357	.02116	1.8441	.00002	.00292	-.08619	.00014
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00049**	**.00175**	**.00016**	**.00004**	F **-.14265**
Stddev	.00009	.00045	.00158	.00023	.00004	.21571
%RSD	572.30	91.610	90.181	137.83	83.223	151.22
#1	.00004	-.00075	.00352	.00033	.00002	-.38582
#2	.00010	.00003	.00122	-.00009	.00009	-.06778
#3	-.00009	-.00074	.00051	.00025	.00003	.02565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90203.**	**65004.**
Stddev	179.	283.
%RSD	.19797	.43510
#1	90011.	65324.
#2	90365.	64786.
#3	90233.	64903.

Approved: February 24, 2011

Sample Name: PBS 50 Acquired: 2/23/2011 13:18:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357349-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**-.00117**	**-.00049**	**.00037**	**-.00007**	**.00001**	**.00135**
Stddev	.00021	.00251	.00226	.00100	.00013	.00001	.01066
%RSD	23.908	213.93	461.58	270.80	188.06	103.70	791.18
#1	-.00081	-.00025	-.00060	-.00065	-.00023	.00000	.01334
#2	-.00108	-.00401	-.00270	.00135	-.00002	.00002	-.00704
#3	-.00068	.00074	.00183	.00041	.00003	.00001	-.00225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00038**	**.00043**	**.00068**	**.00547**	**.06548**	**.00108**
Stddev	.00003	.00009	.00014	.00018	.00042	.03499	.00205
%RSD	29.978	23.888	32.029	25.625	7.7155	53.433	190.22
#1	.00011	-.00029	.00059	.00058	.00577	.10588	-.00105
#2	.00008	-.00037	.00036	.00089	.00565	.04492	.00303
#3	.00015	-.00047	.00035	.00058	.00499	.04565	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00677**	**.00032**	**.00050**	**.01168**	**.00169**	**88.831**	**.00221**
Stddev	.00592	.00043	.00011	.00221	.00018	18.141	.00197
%RSD	87.459	133.74	22.773	18.902	10.412	20.422	89.399
#1	-.00271	-.00017	.00047	.01295	.00187	90.952	.00014
#2	-.01356	.00055	.00041	.00913	.00169	105.82	.00242
#3	-.00403	.00059	.00063	.01295	.00151	69.723	.00407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 24, 2011

Sample Name: PBS 50 Acquired: 2/23/2011 13:18:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357349-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.80193**	**.06278**	**6.3805**	**.00062**	**.00440**	**1.6324**	**.00060**
Stddev	1.1811	.03437	.6258	.00176	.00151	.1798	.00007
%RSD	147.28	54.745	9.8088	282.81	34.424	11.015	10.881
#1	-1.4597	.06209	5.9893	-.00141	.00519	1.8359	.00065
#2	.56158	.09750	6.0498	.00174	.00265	1.4950	.00061
#3	-1.5076	.02877	7.1023	.00154	.00536	1.5662	.00053
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00047**	**.00007**	**.00037**	**.00138**	F **-.15110**
Stddev	.00017	.00153	.00023	.00011	.00009	.59638
%RSD	557.75	326.77	336.86	29.636	6.2199	394.68
#1	.00017	-.00063	.00026	.00040	.00133	.49640
#2	.00009	.00222	.00013	.00047	.00133	-.67788
#3	-.00016	-.00018	-.00019	.00025	.00148	-.27184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88610.**	**64794.**
Stddev	325.	135.
%RSD	.36683	.20874
#1	88481.	64711.
#2	88370.	64950.
#3	88980.	64722.

Approved: February 24, 2011

Sample Name: LCSS 50 Acquired: 2/23/2011 13:22:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357349-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19279**	**.00166**	**.19020**	**.00039**	**-.00016**	**.00001**	**.01588**
Stddev	.00212	.00539	.00131	.00078	.00019	.00004	.00675
%RSD	1.0974	325.10	.68988	200.17	112.96	541.18	42.525
#1	.19421	.00784	.19171	.00124	-.00034	-.00001	.02364
#2	.19380	-.00083	.18958	.00022	-.00019	.00005	.01139
#3	.19036	-.00204	.18931	-.00029	.00003	-.00002	.01260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02426**	**-.00051**	**.00088**	**.25036**	**.00788**	**-.05319**	**.00266**
Stddev	.00004	.00002	.00039	.00051	.00139	.01409	.00116
%RSD	.16177	4.9173	44.991	.20305	17.591	26.494	43.756
#1	.02425	-.00048	.00068	.25077	.00884	-.04654	.00171
#2	.02423	-.00050	.00133	.24979	.00851	-.06938	.00395
#3	.02431	-.00053	.00062	.25052	.00629	-.04365	.00231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00405**	**.25220**	**.00023**	**.02209**	**.00264**	**73.186**	**.25369**
Stddev	.01040	.00091	.00012	.01304	.00066	32.831	.00126
%RSD	257.06	.36163	51.046	59.028	24.868	44.859	.49535
#1	-.01381	.25178	.00032	.01189	.00253	72.897	.25510
#2	.00690	.25158	.00010	.03679	.00205	106.16	.25268
#3	-.00523	.25325	.00029	.01760	.00335	40.501	.25330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 24, 2011

Sample Name: LCSS 50 Acquired: 2/23/2011 13:22:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357349-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-6.2140**	**.04142**	**4.3284**	**.00003**	**.00517**	**1.5907**	**.00032**
Stddev	1.7773	.03146	3.1826	.00148	.00291	.2321	.00010
%RSD	28.601	75.953	73.527	4437.1	56.226	14.588	32.499
#1	-8.2105	.00578	1.2247	.00112	.00184	1.3566	.00022
#2	-4.8045	.06532	4.1762	.00064	.00717	1.5950	.00042
#3	-5.6270	.05315	7.5844	-.00165	.00650	1.8206	.00031
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00143**	**.00009**	**-.00008**	**.00166**	F **-.49726**
Stddev	.00012	.00050	.00067	.00038	.00002	.57343
%RSD	204.81	35.158	728.33	471.46	.92228	115.32
#1	-.00008	.00192	.00086	.00035	.00167	-1.1541
#2	.00012	.00092	-.00040	-.00034	.00167	-.09671
#3	.00014	.00143	-.00019	-.00026	.00164	-.24094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89836.**	**65892.**
Stddev	217.	467.
%RSD	.24107	.70926
#1	89999.	65472.
#2	89918.	65809.
#3	89590.	66395.

Approved: February 24, 2011

Sample Name: L1102044901 Acquired: 2/23/2011 13:25:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**44.098**	**.23224**	**.01152**	**.51300**	**.00293**	**46.664**
Stddev	.00038	.108	.00171	.00034	.00429	.00003	.349
%RSD	58.973	.24393	.73557	2.9098	.83625	.85632	.74879
#1	.00093	44.218	.23033	.01184	.51787	.00291	47.066
#2	.00021	44.065	.23360	.01117	.50980	.00296	46.496
#3	.00080	44.011	.23281	.01155	.51132	.00294	46.431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00426**	**.01623**	**.05681**	**.34645**	**64.129**	**10.999**	**.03868**
Stddev	.00005	.00006	.00019	.00113	.516	.115	.00074
%RSD	1.1430	.35259	.32808	.32565	.80462	1.0424	1.9189
#1	.00431	.01629	.05659	.34564	64.724	11.131	.03930
#2	.00425	.01619	.05694	.34598	63.800	10.943	.03786
#3	.00421	.01621	.05689	.34774	63.865	10.923	.03887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.8606**	**1.6764**	**.00351**	**.67500**	**.03647**	F **-16638.**	**.49536**
Stddev	.0925	.0149	.00012	.01678	.00013	43.	.00248
%RSD	1.1771	.88983	3.4892	2.4855	.36309	.26059	.49967
#1	7.9675	1.6936	.00346	.69195	.03662	-16636.	.49324
#2	7.8067	1.6682	.00342	.67464	.03643	-16595.	.49477
#3	7.8077	1.6673	.00365	.65840	.03636	-16682.	.49808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102044901 Acquired: 2/23/2011 13:25:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-14.632**	F **93.198**	F **-2773.4**	**.00569**	**.00562**	**60.334**	**.01699**
Stddev	1.037	.551	6.1	.00184	.00179	2.440	.00034
%RSD	7.0876	.59098	.21962	32.287	31.928	4.0442	2.0061
#1	-15.460	92.606	-2768.7	.00757	.00674	61.276	.01669
#2	-14.967	93.295	-2780.3	.00560	.00355	62.162	.01736
#3	-13.469	93.695	-2771.1	.00390	.00656	57.563	.01691
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11296**	**.14524**	**.00492**	**.07934**	**.73886**	**40.357**
Stddev	.00105	.00113	.00047	.00015	.00179	1.448
%RSD	.93156	.78013	9.6506	.19124	.24265	3.5886
#1	.11411	.14517	.00453	.07924	.73697	42.020
#2	.11205	.14414	.00545	.07926	.73908	39.672
#3	.11272	.14640	.00477	.07951	.74053	39.378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93509.**	**68668.**
Stddev	313.	110.
%RSD	.33481	.16045
#1	93856.	68542.
#2	93424.	68746.
#3	93247.	68716.

Approved: February 24, 2011

Sample Name: L1102044902 Acquired: 2/23/2011 13:29:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01069**	**51.176**	**.08752**	**.02969**	**1.0488**	**.00433**
Stddev	.00048	.293	.00041	.00136	.0019	.00003
%RSD	4.4629	.57197	.46571	4.5942	.18267	.67956
#1	.01025	51.094	.08725	.03118	1.0468	.00434
#2	.01063	50.933	.08799	.02850	1.0490	.00430
#3	.01120	51.501	.08732	.02939	1.0507	.00436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**293.21**	**.01548**	**.03033**	**.10728**	**3.8436**	**117.87**
Stddev	.62	.00011	.00008	.00065	.0078	.15
%RSD	.21039	.73196	.27766	.60324	.20199	.12718
#1	292.76	.01554	.03024	.10781	3.8361	117.74
#2	292.96	.01535	.03041	.10656	3.8432	117.83
#3	293.91	.01555	.03034	.10746	3.8516	118.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.4125**	**.10707**	**54.189**	**9.8139**	**.00573**	**.78248**
Stddev	.0320	.00120	.117	.0143	.00019	.01535
%RSD	.38059	1.1203	.21573	.14572	3.3734	1.9624
#1	8.4452	.10578	54.202	9.7999	.00582	.77529
#2	8.3813	.10815	54.066	9.8133	.00586	.80010
#3	8.4110	.10728	54.298	9.8285	.00551	.77203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102044902 Acquired: 2/23/2011 13:29:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06441**	F **-45834.**	**4.0193**	F **-7.6056**	F **2108.3**	F **-111700.**
Stddev	.00061	110.	.0179	2.4250	2.6	442.
%RSD	.94631	.24022	.44469	31.884	.12553	.39537
#1	.06397	-45722.	4.0011	-5.5552	2111.3	-111250.
#2	.06511	-45838.	4.0200	-10.282	2106.9	-111730.
#3	.06416	-45943.	4.0368	-6.9794	2106.6	-112130.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04226**	**.01483**	**86.018**	**.08831**	**.75638**	**.55811**
Stddev	.00072	.00181	1.836	.00041	.00113	.00211
%RSD	1.7005	12.175	2.1345	.46154	.14972	.37756
#1	.04150	.01290	87.289	.08878	.75630	.55989
#2	.04292	.01510	86.852	.08804	.75756	.55866
#3	.04236	.01648	83.913	.08811	.75530	.55578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.01035**	**.07580**	**3.1239**	F **50.100**
Stddev	.00101	.00035	.0048	.722
%RSD	9.7513	.46526	.15296	1.4417
#1	.01130	.07606	3.1211	50.934
#2	.00929	.07540	3.1213	49.660
#3	.01047	.07593	3.1294	49.707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102044902 Acquired: 2/23/2011 13:29:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90004.**	**68228.**
Stddev	145.	533.
%RSD	.16082	.78189
#1	90039.	67891.
#2	90128.	68843.
#3	89845.	67949.

Approved: February 24, 2011

Sample Name: L1102044903 Acquired: 2/23/2011 13:32:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01244**	**35.547**	**.06299**	**.00991**	**1.8853**	**.00344**	**190.80**
Stddev	.00053	.498	.00103	.00102	.0057	.00007	.27
%RSD	4.2983	1.4016	1.6375	10.257	.30126	2.0602	.14282
#1	.01184	35.228	.06264	.01108	1.8790	.00340	190.66
#2	.01259	35.291	.06218	.00944	1.8870	.00340	190.62
#3	.01287	36.121	.06415	.00921	1.8899	.00352	191.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02073**	**.03720**	**.08827**	**3.5189**	**116.13**	**10.101**	**.05537**
Stddev	.00030	.00028	.00195	.0440	.38	.049	.00063
%RSD	1.4411	.74325	2.2078	1.2500	.32355	.48521	1.1464
#1	.02046	.03691	.08675	3.4859	115.72	10.056	.05586
#2	.02068	.03724	.08759	3.5018	116.22	10.093	.05559
#3	.02105	.03745	.09047	3.5688	116.45	10.153	.05465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.466**	**3.0483**	**.00564**	**.78635**	**.05756**	F **-40184.**	**3.3392**
Stddev	.036	.0027	.00019	.01549	.00035	564.	.0522
%RSD	.23284	.08679	3.3971	1.9695	.61619	1.4043	1.5632
#1	15.427	3.0460	.00548	.79741	.05729	-39781.	3.3000
#2	15.498	3.0477	.00559	.79298	.05742	-39942.	3.3193
#3	15.473	3.0512	.00585	.76865	.05796	-40829.	3.3985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102044903 Acquired: 2/23/2011 13:32:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-10.304**	F **1229.2**	F **-63027.**	**.01826**	**.01607**	F **94.588**	**.23188**
Stddev	8.139	12.8	1001.	.00124	.00130	1.306	.00245
%RSD	78.995	1.0392	1.5887	6.8138	8.0967	1.3803	1.0580
#1	-18.673	1221.0	-62222.	.01727	.01458	94.437	.23069
#2	-9.8210	1222.6	-62712.	.01785	.01694	95.962	.23026
#3	-2.4163	1243.9	-64148.	.01966	.01669	93.364	.23471
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.81862**	**.08914**	**.00599**	**.05471**	**3.5557**	**22.886**
Stddev	.00326	.00154	.00055	.00063	.0375	.115
%RSD	.39818	1.7314	9.1001	1.1559	1.0550	.50122
#1	.81486	.08774	.00626	.05446	3.5327	22.754
#2	.82051	.08890	.00537	.05424	3.5354	22.941
#3	.82050	.09080	.00635	.05543	3.5990	22.962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89149.**	**67711.**
Stddev	641.	826.
%RSD	.71851	1.2204
#1	89543.	68470.
#2	89493.	67832.
#3	88410.	66830.

Approved: February 24, 2011

Sample Name: L1102041835 Acquired: 2/23/2011 13:36:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00782**	**222.61**	**.15120**	**.01260**	**1.9667**	**.01308**	**111.12**
Stddev	.00065	9.90	.00281	.01034	.1615	.00065	9.19
%RSD	8.2887	4.4468	1.8612	82.084	8.2134	4.9319	8.2708
#1	.00810	221.27	.14921	.01062	1.9855	.01321	111.53
#2	.00707	213.45	.15442	.00339	1.7965	.01238	101.73
#3	.00827	233.11	.14997	.02379	2.1179	.01365	120.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00683**	**.13933**	**.47013**	**3.1259**	**353.90**	**74.963**	**.25881**
Stddev	.00026	.00046	.02168	.0316	28.58	6.092	.01837
%RSD	3.7590	.32701	4.6112	1.0093	8.0750	8.1273	7.0991
#1	.00683	.13967	.47481	3.1355	356.50	75.429	.25851
#2	.00657	.13950	.44649	3.1516	324.11	68.650	.24059
#3	.00709	.13881	.48908	3.0907	381.09	80.808	.27733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**110.33**	**5.1782**	**.01262**	**1.4002**	**.35002**	F **-50985.**	**.44289**
Stddev	8.87	.4277	.00039	.1019	.00160	251.	.00460
%RSD	8.0393	8.2596	3.0741	7.2772	.45706	.49288	1.0392
#1	110.81	5.1989	.01219	1.4135	.35138	-51251.	.44671
#2	101.23	4.7405	.01295	1.2924	.35042	-50952.	.44418
#3	118.96	5.5951	.01273	1.4949	.34826	-50752.	.43778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041835 Acquired: 2/23/2011 13:36:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-29.815**	F **180.34**	F **-4621.3**	**.01912**	**.00465**	F **301.36**	**.03501**
Stddev	.131	.70	7.2	.00396	.00228	1.33	.00070
%RSD	.44054	.38869	.15669	20.680	48.925	.44229	1.9915
#1	-29.965	181.08	-4620.8	.01760	.00524	302.88	.03467
#2	-29.761	180.25	-4628.8	.02362	.00658	300.39	.03454
#3	-29.719	179.69	-4614.4	.01616	.00214	300.81	.03581
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.75162**	**1.3511**	**.01599**	**.46702**	**1.0483**	F **362.57**
Stddev	.05982	.1086	.00201	.02177	.0038	15.25
%RSD	7.9587	8.0347	12.594	4.6616	.35838	4.2062
#1	.76117	1.3627	.01496	.46971	1.0520	365.86
#2	.68760	1.2373	.01470	.44403	1.0484	345.94
#3	.80608	1.4535	.01831	.48733	1.0445	375.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86001.**	**67779.**
Stddev	625.	3249.
%RSD	.72623	4.7938
#1	85445.	67428.
#2	85883.	71190.
#3	86677.	64720.

Approved: February 24, 2011

Sample Name: L1102041835PS Acquired: 2/23/2011 13:40:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357370-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20190**	**216.26**	**.32614**	**.90673**	**2.2913**	**.03662**	**106.62**
Stddev	.00086	.74	.00182	.00112	.0038	.00009	.20
%RSD	.42708	.34429	.55686	.12323	.16651	.23973	.18774
#1	.20221	216.20	.32819	.90628	2.2870	.03656	106.58
#2	.20257	215.55	.32551	.90800	2.2942	.03658	106.45
#3	.20093	217.04	.32472	.90590	2.2928	.03672	106.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03023**	**.21942**	**.67746**	**3.0301**	**326.34**	**93.805**	**.73722**
Stddev	.00018	.00040	.00272	.0041	.78	.234	.00154
%RSD	.58891	.18162	.40188	.13564	.23930	.24992	.20878
#1	.03016	.21983	.67438	3.0349	325.44	93.551	.73794
#2	.03043	.21903	.67846	3.0276	326.74	93.851	.73827
#3	.03010	.21940	.67954	3.0279	326.85	94.013	.73546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**106.95**	**4.9749**	**.51451**	**26.972**	**.54809**	F **-45966.**	**.61843**
Stddev	.47	.0113	.00149	.079	.00083	48.	.00217
%RSD	.43689	.22653	.28984	.29421	.15076	.10334	.35034
#1	106.42	4.9655	.51604	26.903	.54897	-45912.	.61872
#2	107.14	4.9719	.51442	27.058	.54732	-45995.	.62044
#3	107.30	4.9874	.51306	26.954	.54799	-45992.	.61613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041835PS Acquired: 2/23/2011 13:40:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357370-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-21.722**	F **166.79**	F **-4176.2**	**.58407**	**.19494**	F **608.88**	**.03186**
Stddev	2.885	.49	12.8	.00613	.00188	4.13	.00054
%RSD	13.283	.29118	.30737	1.0501	.96191	.67781	1.6796
#1	-22.220	167.22	-4162.1	.59087	.19301	613.40	.03247
#2	-18.620	166.26	-4187.3	.57897	.19676	607.90	.03163
#3	-24.327	166.88	-4179.1	.58236	.19506	605.33	.03147
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1758**	**1.7245**	**.23795**	**.92463**	**1.4123**	F **346.74**
Stddev	.0051	.0034	.00187	.00384	.0034	1.21
%RSD	.43434	.19539	.78536	.41518	.24286	.34886
#1	1.1706	1.7219	.23982	.92020	1.4163	345.49
#2	1.1808	1.7232	.23608	.92700	1.4105	346.82
#3	1.1761	1.7283	.23794	.92669	1.4101	347.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86714.**	**65209.**
Stddev	349.	133.
%RSD	.40199	.20346
#1	86331.	65341.
#2	87012.	65210.
#3	86799.	65076.

Approved: February 24, 2011

Sample Name: L1102041835SDL Acquired: 2/23/2011 13:43:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357370-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**57.771**	**.03298**	**.00359**	**.39303**	**.00282**	**22.349**
Stddev	.00044	.689	.00206	.00105	.00032	.00002	.040
%RSD	44.604	1.1926	6.2526	29.243	.08197	.64654	.17877
#1	.00068	57.008	.03135	.00294	.39271	.00282	22.394
#2	.00151	57.960	.03530	.00303	.39336	.00280	22.337
#3	.00081	58.347	.03229	.00480	.39302	.00283	22.317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00142**	**.02936**	**.10320**	**.65447**	**72.660**	**15.333**	**.05598**
Stddev	.00005	.00011	.00127	.00027	.090	.051	.00215
%RSD	3.4314	.39139	1.2282	.04199	.12348	.33276	3.8413
#1	.00140	.02943	.10174	.65451	72.607	15.392	.05595
#2	.00147	.02943	.10401	.65472	72.609	15.308	.05385
#3	.00138	.02923	.10385	.65418	72.763	15.299	.05815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.416**	**1.0664**	**.00237**	**.33932**	**.07327**	F **-10815.**	**.09332**
Stddev	.043	.0008	.00012	.01263	.00032	12.	.00165
%RSD	.18508	.07964	4.9865	3.7216	.43223	.10641	1.7658
#1	23.457	1.0674	.00248	.34628	.07341	-10801.	.09516
#2	23.371	1.0662	.00237	.34695	.07291	-10821.	.09283
#3	23.420	1.0657	.00224	.32475	.07350	-10821.	.09198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041835SDL Acquired: 2/23/2011 13:43:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357370-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-11.834**	F **39.088**	F **-956.18**	**.00227**	**.00139**	**62.276**	**.00715**
Stddev	4.719	.060	3.93	.00355	.00098	.416	.00009
%RSD	39.878	.15241	.41145	156.72	70.675	.66800	1.2727
#1	-9.1256	39.019	-960.15	.00181	.00244	62.695	.00709
#2	-9.0933	39.124	-952.29	.00602	.00120	62.268	.00725
#3	-17.283	39.120	-956.09	-.00103	.00051	61.863	.00710
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15201**	**.27265**	**.00624**	**.10041**	**.22090**	F **72.973**
Stddev	.00009	.00034	.00050	.00096	.00017	.912
%RSD	.06234	.12551	7.9409	.95184	.07833	1.2492
#1	.15193	.27241	.00643	.09932	.22082	72.647
#2	.15212	.27304	.00662	.10085	.22077	74.003
#3	.15199	.27249	.00568	.10107	.22109	72.270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91475.**	**66784.**
Stddev	412.	748.
%RSD	.45009	1.1197
#1	91949.	67511.
#2	91265.	66822.
#3	91210.	66017.

Approved: February 24, 2011

Sample Name: L1102041835SDL Acquired: 2/23/2011 13:47:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357370-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**12.501**	**.00833**	**.00074**	**.07999**	**.00057**	**4.6033**
Stddev	.00034	.059	.00138	.00007	.00020	.00002	.0080
%RSD	43.933	.47349	16.603	9.5559	.25624	3.3746	.17272
#1	-.00038	12.542	.00681	.00071	.07990	.00057	4.6046
#2	-.00096	12.528	.00865	.00069	.07984	.00055	4.5948
#3	-.00098	12.433	.00952	.00083	.08022	.00059	4.6106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00630**	**.02060**	**.13789**	**14.948**	**3.1987**	**.01390**
Stddev	.00012	.00011	.00007	.00052	.013	.0372	.00159
%RSD	42.101	1.7070	.34175	.37728	.08393	1.1632	11.423
#1	.00044	.00626	.02052	.13758	14.935	3.1571	.01329
#2	.00021	.00642	.02062	.13849	14.949	3.2288	.01271
#3	.00024	.00621	.02066	.13760	14.960	3.2101	.01570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.8068**	**.22210**	**.00027**	**.07033**	**.01590**	F **-2279.4**	**.01968**
Stddev	.0151	.00077	.00007	.00604	.00069	35.5	.00186
%RSD	.31475	.34640	24.649	8.5885	4.3131	1.5590	9.4320
#1	4.8237	.22282	.00034	.07683	.01527	-2293.2	.02062
#2	4.8022	.22218	.00027	.06926	.01663	-2306.0	.02087
#3	4.7945	.22129	.00021	.06489	.01579	-2239.1	.01754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041835SDL Acquired: 2/23/2011 13:47:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357370-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-5.1413**	**8.4024**	F **-194.93**	**-.00089**	**.00380**	**12.108**	**.00093**
Stddev	6.0856	.0224	1.69	.00082	.00237	.557	.00024
%RSD	118.37	.26668	.86719	92.384	62.470	4.5975	25.463
#1	-10.432	8.3963	-196.52	-.00116	.00230	12.310	.00117
#2	1.5090	8.4273	-193.15	.00003	.00255	12.535	.00091
#3	-6.5004	8.3838	-195.13	-.00154	.00653	11.478	.00070
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03088**	**.05504**	**.00407**	**.02085**	**.04659**	**10.437**
Stddev	.00018	.00020	.00017	.00032	.00005	.653
%RSD	.59185	.35700	4.2860	1.5249	.09814	6.2540
#1	.03077	.05513	.00413	.02059	.04655	11.060
#2	.03109	.05481	.00387	.02076	.04657	10.492
#3	.03078	.05518	.00420	.02120	.04664	9.7579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93448.**	**67388.**
Stddev	358.	409.
%RSD	.38337	.60698
#1	93704.	67036.
#2	93602.	67293.
#3	93039.	67837.

Approved: February 24, 2011

Sample Name: L1102041836 Acquired: 2/23/2011 13:50:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01194**	**296.57**	**.15326**	**.02493**	**2.4614**	**.01601**	**178.42**
Stddev	.00081	1.95	.00125	.00164	.0026	.00011	.47
%RSD	6.8056	.65853	.81497	6.5930	.10445	.68107	.26316
#1	.01255	295.80	.15364	.02656	2.4606	.01588	177.89
#2	.01226	295.12	.15427	.02327	2.4643	.01604	178.79
#3	.01102	298.79	.15186	.02495	2.4593	.01610	178.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00612**	**.16071**	**.50574**	**2.3478**	**409.73**	**90.111**	**.32407**
Stddev	.00019	.00336	.00491	.0546	.78	.165	.00151
%RSD	3.0570	2.0928	.97035	2.3273	.19046	.18290	.46485
#1	.00630	.16325	.50011	2.3868	408.83	89.987	.32242
#2	.00612	.16198	.50803	2.3712	410.19	90.298	.32443
#3	.00593	.15690	.50909	2.2853	410.17	90.049	.32536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**133.84**	**5.3209**	**.01196**	**2.4517**	**.38567**	F **-56115.**	**.41049**
Stddev	.66	.0130	.00025	.0164	.00892	1106.	.01262
%RSD	.49129	.24423	2.0753	.67006	2.3118	1.9707	3.0746
#1	133.26	5.3060	.01225	2.4537	.39211	-56847.	.42088
#2	134.56	5.3294	.01179	2.4343	.38941	-56655.	.41414
#3	133.71	5.3274	.01186	2.4670	.37549	-54843.	.39645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041836 Acquired: 2/23/2011 13:50:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-26.655**	F **237.97**	F **-4489.4**	**.02022**	**.00116**	F **409.76**	**.02844**
Stddev	3.729	4.59	97.7	.00288	.00095	20.31	.00062
%RSD	13.991	1.9306	2.1760	14.254	82.218	4.9568	2.1931
#1	-23.617	241.13	-4550.5	.01912	.00156	430.22	.02893
#2	-30.817	240.07	-4541.0	.02349	.00007	409.46	.02866
#3	-25.531	232.70	-4376.8	.01806	.00184	389.61	.02774
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0570**	**2.1936**	**.01983**	**.58442**	**.93574**	F **388.63**
Stddev	.0008	.0104	.00185	.00438	.01848	2.39
%RSD	.08025	.47485	9.3100	.74874	1.9751	.61406
#1	1.0574	2.1898	.01798	.57939	.94892	385.88
#2	1.0575	2.2054	.01984	.58735	.94370	390.17
#3	1.0560	2.1857	.02167	.58652	.91462	389.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85518.**	**65968.**
Stddev	1518.	201.
%RSD	1.7752	.30508
#1	84227.	66147.
#2	85136.	66008.
#3	87190.	65750.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 13:54:20 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40272**	**10.034**	**.39753**	**.49698**	**.98147**	**.04870**	**9.9305**
Stddev	.00109	.028	.00059	.00041	.00087	.00004	.0180
%RSD	.26976	.27929	.14809	.08287	.08829	.08558	.18078
#1	.40176	10.024	.39775	.49665	.98202	.04874	9.9111
#2	.40250	10.065	.39686	.49685	.98047	.04872	9.9337
#3	.40390	10.012	.39797	.49744	.98193	.04866	9.9466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04954**	**.20051**	**.49916**	**.49340**	**3.8837**	**49.711**	**.98592**
Stddev	.00007	.00013	.00046	.00065	.0115	.110	.00412
%RSD	.14892	.06303	.09231	.13096	.29532	.22070	.41814
#1	.04952	.20042	.49921	.49271	3.8907	49.687	.98399
#2	.04963	.20066	.49868	.49399	3.8899	49.616	.98312
#3	.04948	.20046	.49959	.49349	3.8705	49.831	.99065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5124**	**.48297**	**.99266**	**49.873**	**.50010**	F **-17.693**	**.49199**
Stddev	.0889	.00135	.00019	.004	.00137	6.413	.00125
%RSD	.93501	.27924	.01870	.00901	.27486	36.246	.25429
#1	9.5552	.48452	.99260	49.877	.49889	-19.090	.49073
#2	9.4101	.48207	.99287	49.875	.50160	-23.292	.49200
#3	9.5717	.48233	.99251	49.868	.49980	-10.697	.49323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 13:54:20 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-2.9962**	**9.9872**	F **13.896**	**1.2035**	**.39452**	F **4.0195**	**1.0012**
Stddev	5.9014	.0353	2.861	.0036	.00485	.1493	.0002
%RSD	196.96	.35364	20.589	.29542	1.2289	3.7148	.02380
#1	-7.3784	10.008	12.033	1.1997	.38912	3.9925	1.0013
#2	-5.3244	10.007	17.190	1.2068	.39850	4.1805	1.0014
#3	3.7142	9.9464	12.465	1.2039	.39594	3.8856	1.0009
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96554**	**.96844**	**.50745**	**.99360**	**.98429**	F **4.8368**
Stddev	.00157	.00347	.00228	.00180	.00071	.5102
%RSD	.16233	.35825	.44846	.18108	.07169	10.549
#1	.96501	.96900	.50526	.99286	.98381	4.9035
#2	.96431	.96472	.50980	.99229	.98510	4.2965
#3	.96730	.97159	.50729	.99565	.98396	5.3103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88778.**	**65765.**
Stddev	134.	266.
%RSD	.15098	.40441
#1	88932.	66049.
#2	88718.	65522.
#3	88685.	65724.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 13:57:51 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.01359**	**.00127**	**.00098**	**-.00016**	**.00001**	**-.00480**
Stddev	.00048	.00502	.00111	.00034	.00006	.00002	.01058
%RSD	63.151	36.965	87.506	35.188	39.951	191.76	220.58
#1	-.00091	.01834	.00148	.00120	-.00015	.00001	.00570
#2	-.00113	.01409	.00225	.00058	-.00023	.00003	-.00464
#3	-.00022	.00833	.00007	.00114	-.00011	-.00001	-.01546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00022**	**-.00009**	**.00040**	**.00708**	**.08217**	**.00498**
Stddev	.00007	.00015	.00048	.00022	.00322	.03078	.00098
%RSD	113.33	68.721	503.01	55.687	45.444	37.457	19.642
#1	.00003	-.00007	.00017	.00063	.00969	.10686	.00522
#2	.00015	-.00037	.00019	.00019	.00349	.09196	.00582
#3	.00002	-.00021	-.00064	.00038	.00807	.04769	.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00527**	**.00014**	**.00052**	**.01218**	**.00100**	F **14.475**	**.00183**
Stddev	.00512	.00045	.00003	.00352	.00038	18.423	.00160
%RSD	97.124	321.73	6.1227	28.868	38.373	127.27	87.483
#1	-.01108	.00066	.00055	.01569	.00127	6.7757	.00354
#2	-.00336	-.00010	.00052	.01221	.00117	35.499	.00160
#3	-.00138	-.00014	.00049	.00865	.00056	1.1513	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 13:57:51 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-4.9829**	F **-.02561**	F **6.6848**	**-.00008**	**.00426**	**-.21180**	**.00044**
Stddev	4.9652	.01498	2.6921	.00161	.00151	.16588	.00011
%RSD	99.645	58.497	40.273	2117.0	35.518	78.318	24.850
#1	.05941	-.02532	4.6158	-.00186	.00580	-.38049	.00052
#2	-5.1409	-.01078	9.7285	.00038	.00278	-.20602	.00050
#3	-9.8672	-.04074	5.7100	.00126	.00419	-.04889	.00032
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00045**	**.00178**	**.00042**	**.00012**	**.03599**
Stddev	.00016	.00142	.00118	.00021	.00007	.29405
%RSD	291.10	316.81	66.589	50.917	60.475	816.93
#1	.00013	.00027	.00227	.00061	.00016	-.30306
#2	-.00011	.00194	.00043	.00045	.00016	.22117
#3	-.00018	-.00087	.00263	.00019	.00003	.18987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90739.**	**65512.**
Stddev	158.	896.
%RSD	.17465	1.3682
#1	90812.	64606.
#2	90849.	65532.
#3	90558.	66399.

Approved: February 24, 2011

Sample Name: L1102041837 Acquired: 2/23/2011 14:01:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03447**	**211.60**	**.14595**	**.14134**	**2.5202**	**.00530**	**504.42**
Stddev	.00043	3.47	.00093	.00035	.0006	.00005	5.07
%RSD	1.2397	1.6400	.63783	.24988	.02455	.88784	1.0049
#1	.03415	210.18	.14588	.14111	2.5208	.00534	508.86
#2	.03431	215.55	.14691	.14175	2.5200	.00525	505.49
#3	.03496	209.06	.14505	.14116	2.5197	.00531	498.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00661**	**.14547**	**.46987**	**1.9357**	**352.49**	**87.060**	**.28765**
Stddev	.00007	.00033	.00057	.0021	.16	.118	.00257
%RSD	1.0471	.22561	.12156	.10744	.04615	.13583	.89286
#1	.00658	.14568	.46983	1.9371	352.46	86.924	.28584
#2	.00669	.14564	.47047	1.9368	352.66	87.118	.29059
#3	.00657	.14509	.46932	1.9333	352.34	87.138	.28652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**133.55**	**5.6851**	**.01369**	**4.3187**	**.34811**	F **-70302.**	**.30535**
Stddev	.21	.0003	.00045	.0117	.00018	128.	.00314
%RSD	.16060	.00579	3.2609	.27018	.05212	.18178	1.0283
#1	133.35	5.6853	.01402	4.3137	.34832	-70422.	.30762
#2	133.78	5.6847	.01318	4.3321	.34804	-70168.	.30177
#3	133.53	5.6854	.01386	4.3104	.34798	-70317.	.30667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041837 Acquired: 2/23/2011 14:01:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-27.600**	F **708.61**	F **-13728.**	**.01909**	**.01008**	F **299.72**	**.02321**
Stddev	5.557	.91	60.	.00083	.00294	5.71	.00019
%RSD	20.134	.12810	.43559	4.3610	29.183	1.9051	.83000
#1	-25.684	707.61	-13732.	.01820	.01145	302.06	.02304
#2	-23.255	709.38	-13666.	.01985	.01209	303.89	.02318
#3	-33.862	708.84	-13785.	.01921	.00671	293.21	.02342
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6411**	**5.6209**	**.02392**	**.56760**	**1.0402**	F **303.32**
Stddev	.0014	.0054	.00050	.00248	.0000	.90
%RSD	.08826	.09593	2.1099	.43770	.00291	.29629
#1	1.6427	5.6188	.02430	.56980	1.0402	304.20
#2	1.6401	5.6270	.02335	.56810	1.0402	303.37
#3	1.6404	5.6168	.02413	.56491	1.0402	302.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83249.**	**66163.**
Stddev	349.	356.
%RSD	.41893	.53777
#1	83056.	66076.
#2	83041.	65859.
#3	83652.	66554.

Approved: February 24, 2011

Sample Name: L1102041838 Acquired: 2/23/2011 14:05:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03826**	**243.61**	**.11946**	**.16361**	**3.1380**	**.00620**	**640.65**
Stddev	.00069	3.33	.00187	.00086	.0028	.00012	10.20
%RSD	1.7948	1.3660	1.5695	.52449	.08801	1.9599	1.5918
#1	.03747	246.35	.11731	.16362	3.1351	.00612	634.60
#2	.03865	239.91	.12033	.16446	3.1405	.00615	634.94
#3	.03867	244.58	.12074	.16274	3.1385	.00634	652.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00607**	**.15651**	**.52338**	**1.1595**	**374.78**	**88.263**	**.33214**
Stddev	.00006	.00057	.00854	.0041	.52	.223	.00077
%RSD	1.0534	.36106	1.6311	.35460	.13760	.25261	.23054
#1	.00613	.15715	.52315	1.1634	374.66	88.120	.33146
#2	.00605	.15608	.51496	1.1598	374.34	88.149	.33297
#3	.00601	.15630	.53203	1.1552	375.35	88.520	.33200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**152.44**	**6.0764**	**.01517**	**8.9970**	**.38958**	F **-69259.**	**.28803**
Stddev	.32	.0203	.00032	.0050	.00104	28.	.00034
%RSD	.21319	.33369	2.0996	.05576	.26661	.04073	.11819
#1	152.54	6.0782	.01515	8.9973	.39017	-69291.	.28824
#2	152.07	6.0552	.01486	9.0018	.39018	-69248.	.28764
#3	152.70	6.0956	.01549	8.9918	.38838	-69237.	.28821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041838 Acquired: 2/23/2011 14:05:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-32.668**	F **804.39**	F **-10924.**	**.01638**	**.00670**	F **372.63**	**.03167**
Stddev	2.198	2.18	15.	.00130	.00302	9.94	.00050
%RSD	6.7291	.27134	.13564	7.9479	45.101	2.6669	1.5845
#1	-34.680	806.80	-10924.	.01646	.00665	379.87	.03223
#2	-33.001	803.83	-10909.	.01763	.00974	376.72	.03126
#3	-30.322	802.54	-10939.	.01504	.00370	361.30	.03152
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.2630**	**6.3593**	**.02575**	**.61210**	**.99657**	F **278.45**
Stddev	.0040	.0095	.00150	.01000	.00052	3.88
%RSD	.17859	.15008	5.8118	1.6340	.05228	1.3931
#1	2.2621	6.3703	.02478	.61148	.99626	278.73
#2	2.2674	6.3539	.02747	.60243	.99627	274.43
#3	2.2595	6.3537	.02499	.62240	.99717	282.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84685.**	**67550.**
Stddev	233.	820.
%RSD	.27469	1.2134
#1	84747.	67167.
#2	84881.	68491.
#3	84428.	66991.

Approved: February 24, 2011

Sample Name: L1102041839 Acquired: 2/23/2011 14:09:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01399**	**187.01**	**.21010**	**.14640**	**3.3649**	**.00865**	**396.66**
Stddev	.00216	1.10	.02056	.00657	.0120	.00008	.56
%RSD	15.455	.58665	9.7881	4.4900	.35565	.97474	.14094
#1	.01630	186.75	.23364	.14200	3.3516	.00855	396.74
#2	.01364	186.07	.20102	.14325	3.3686	.00867	397.17
#3	.01202	188.22	.19563	.15396	3.3746	.00872	396.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02265**	**.13312**	**.35955**	**7.1891**	**375.83**	**103.09**	**.26311**
Stddev	.00060	.00069	.00455	.0164	.12	4.06	.00489
%RSD	2.6609	.51907	1.2661	.22838	.03153	3.9357	1.8602
#1	.02202	.13370	.36361	7.2059	375.79	98.850	.25843
#2	.02271	.13330	.36040	7.1731	375.74	103.48	.26270
#3	.02322	.13236	.35463	7.1881	375.97	106.94	.26819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**110.22**	**5.1792**	**.02387**	**2.9927**	**.28149**	F **-97971.**	**3.1086**
Stddev	.16	.0051	.00167	.0615	.00242	119.	.0187
%RSD	.14818	.09920	6.9898	2.0538	.86065	.12123	.59997
#1	110.41	5.1851	.02194	2.9254	.27871	-97967.	3.0905
#2	110.15	5.1769	.02474	3.0068	.28261	-97855.	3.1076
#3	110.11	5.1757	.02492	3.0459	.28315	-98092.	3.1277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041839 Acquired: 2/23/2011 14:09:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-22.692**	F **615.44**	F **-14411.**	**.02804**	**.00640**	F **351.62**	**1.0534**
Stddev	7.049	7.32	42.	.01413	.00444	3.61	.0109
%RSD	31.064	1.1893	.28859	50.375	69.395	1.0273	1.0328
#1	-30.653	623.88	-14407.	.01175	.00167	354.64	1.0659
#2	-20.178	610.92	-14372.	.03557	.00704	352.60	1.0473
#3	-17.244	611.52	-14455.	.03681	.01048	347.62	1.0468
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6777**	**2.6723**	**.01777**	**.46825**	**4.7533**	F **302.67**
Stddev	.0083	.0119	.00180	.00062	.0151	4.07
%RSD	.49753	.44667	10.135	.13189	.31830	1.3443
#1	1.6694	2.6836	.01985	.46754	4.7699	307.09
#2	1.6777	2.6735	.01672	.46862	4.7404	301.86
#3	1.6860	2.6598	.01675	.46860	4.7496	299.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82314.**	**64923.**
Stddev	2886.	1084.
%RSD	3.5057	1.6693
#1	79053.	66074.
#2	83354.	64772.
#3	84536.	63922.

Approved: February 24, 2011

Sample Name: L1102041840 Acquired: 2/23/2011 14:12:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01153**	**178.00**	**.14636**	**.09300**	**2.9112**	**.00985**	**606.89**
Stddev	.00079	2.19	.00122	.00164	.0072	.00002	7.45
%RSD	6.8133	1.2296	.83224	1.7607	.24789	.24920	1.2280
#1	.01196	180.11	.14541	.09195	2.9087	.00986	603.29
#2	.01062	178.14	.14593	.09217	2.9056	.00982	615.46
#3	.01200	175.74	.14773	.09489	2.9194	.00987	601.93
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01657**	**.12879**	**.35827**	**4.8567**	**333.29**	**88.883**	**.24735**
Stddev	.00004	.00033	.00263	.0109	.71	.255	.00093
%RSD	.26949	.26006	.73436	.22346	.21383	.28679	.37684
#1	.01653	.12867	.36092	4.8576	332.85	88.703	.24637
#2	.01662	.12854	.35823	4.8454	332.91	88.771	.24747
#3	.01657	.12917	.35566	4.8671	334.11	89.175	.24822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**106.32**	**4.9436**	**.01666**	**2.5627**	**.27120**	F **-81407.**	**1.8753**
Stddev	.66	.0133	.00014	.0105	.00036	235.	.0052
%RSD	.61991	.26990	.85196	.41129	.13279	.28897	.27703
#1	106.60	4.9311	.01677	2.5724	.27117	-81462.	1.8747
#2	105.57	4.9422	.01672	2.5643	.27085	-81149.	1.8705
#3	106.79	4.9577	.01650	2.5515	.27157	-81610.	1.8808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041840 Acquired: 2/23/2011 14:12:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-30.628**	F **791.90**	F **-11608.**	**.02711**	**.00727**	F **356.51**	**.33186**
Stddev	3.694	2.78	37.	.00281	.00292	9.13	.00151
%RSD	12.062	.35142	.31614	10.361	40.204	2.5611	.45560
#1	-28.660	791.50	-11624.	.02438	.01002	358.59	.33092
#2	-34.890	789.33	-11567.	.02697	.00758	364.42	.33105
#3	-28.335	794.86	-11635.	.02999	.00420	346.52	.33360
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9363**	**1.9306**	**.01714**	**.46865**	**3.8513**	F **298.32**
Stddev	.0102	.0082	.00113	.00260	.0145	2.70
%RSD	.52846	.42321	6.6063	.55428	.37655	.90487
#1	1.9415	1.9289	.01770	.47155	3.8491	301.38
#2	1.9245	1.9234	.01789	.46786	3.8381	296.29
#3	1.9429	1.9395	.01584	.46653	3.8668	297.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83602.**	**67122.**
Stddev	232.	132.
%RSD	.27784	.19700
#1	83618.	67068.
#2	83826.	67025.
#3	83363.	67272.

Approved: February 24, 2011

Sample Name: L1102041841 Acquired: 2/23/2011 14:16:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02246**	**241.27**	**.16321**	**.15464**	**4.4785**	**.01038**
Stddev	.00078	1.89	.00244	.00093	.0046	.00009
%RSD	3.4843	.78449	1.4979	.60274	.10175	.87898
#1	.02159	239.49	.16599	.15410	4.4753	.01027
#2	.02270	241.05	.16141	.15411	4.4837	.01042
#3	.02311	243.26	.16222	.15572	4.4765	.01044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**428.58**	**.02474**	**.14459**	**.45262**	**3.6720**	**379.95**
Stddev	.30	.00004	.00042	.00494	.0043	.99
%RSD	.06961	.15563	.29116	1.0925	.11804	.26146
#1	428.25	.02471	.14507	.44694	3.6769	378.81
#2	428.66	.02478	.14443	.45489	3.6685	380.66
#3	428.84	.02474	.14428	.45602	3.6707	380.37
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**107.69**	**.27987**	**114.36**	**5.7238**	**.02419**	**3.4618**
Stddev	.17	.00131	.60	.0089	.00043	.0058
%RSD	.16150	.46637	.52466	.15550	1.7863	.16706
#1	107.50	.27837	113.67	5.7147	.02460	3.4618
#2	107.74	.28078	114.70	5.7244	.02374	3.4676
#3	107.84	.28045	114.72	5.7325	.02423	3.4561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041841 Acquired: 2/23/2011 14:16:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30124**	F **-112880.**	**5.2072**	F **-29.162**	F **644.92**	F **-14412.**
Stddev	.00039	98.	.0042	5.106	1.29	27.
%RSD	.12839	.08660	.07971	17.508	.20026	.18829
#1	.30134	-112960.	5.2039	-33.776	646.26	-14403.
#2	.30082	-112900.	5.2119	-23.676	643.68	-14443.
#3	.30157	-112770.	5.2058	-30.033	644.82	-14390.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03194**	**.00874**	F **295.25**	**.12229**	**2.4609**	**3.2886**
Stddev	.00195	.00233	4.39	.00020	.0091	.0046
%RSD	6.1116	26.643	1.4858	.16000	.37015	.14112
#1	.03066	.00773	298.44	.12220	2.4534	3.2834
#2	.03097	.01141	297.05	.12251	2.4710	3.2901
#3	.03418	.00710	290.25	.12216	2.4581	3.2924
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.02017**	**.55807**	**7.3211**	F **451.18**
Stddev	.00164	.00582	.0108	6.75
%RSD	8.1479	1.0426	.14721	1.4964
#1	.01852	.55136	7.3335	443.53
#2	.02018	.56107	7.3152	456.31
#3	.02181	.56177	7.3145	453.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041841 Acquired: 2/23/2011 14:16:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84449.**	**66555.**
Stddev	333.	556.
%RSD	.39445	.83527
#1	84563.	67197.
#2	84711.	66243.
#3	84074.	66226.

Approved: February 24, 2011

Sample Name: L1102041842 Acquired: 2/23/2011 14:20:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01136**	**263.78**	**.14265**	**.08812**	**2.9429**	**.01496**	**363.99**
Stddev	.00063	3.33	.00171	.00066	.0086	.00008	1.57
%RSD	5.5407	1.2633	1.2002	.74864	.29212	.54225	.43081
#1	.01193	260.78	.14276	.08879	2.9373	.01491	362.26
#2	.01069	267.37	.14089	.08747	2.9528	.01505	365.33
#3	.01147	263.21	.14431	.08812	2.9385	.01491	364.37
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01155**	**.14121**	**.46205**	**1.9366**	**387.64**	**103.22**	**.29712**
Stddev	.00012	.00035	.00226	.0044	1.39	.39	.00267
%RSD	1.0188	.24784	.48970	.22698	.35933	.37583	.89914
#1	.01152	.14106	.46122	1.9315	386.63	102.80	.29521
#2	.01146	.14095	.46462	1.9387	389.23	103.57	.30018
#3	.01169	.14161	.46033	1.9395	387.05	103.30	.29599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**122.55**	**5.3501**	**.01545**	**3.5546**	**.32340**	F **-57262.**	**1.7695**
Stddev	.59	.0253	.00016	.0056	.00052	56.	.0008
%RSD	.48035	.47369	1.0341	.15830	.15975	.09750	.04813
#1	121.90	5.3229	.01548	3.5487	.32303	-57264.	1.7685
#2	123.03	5.3730	.01560	3.5599	.32318	-57317.	1.7699
#3	122.74	5.3544	.01528	3.5552	.32399	-57205.	1.7700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041842 Acquired: 2/23/2011 14:20:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-32.243**	F **508.11**	F **-9966.8**	**.03241**	**.00321**	F **539.62**	**.07973**
Stddev	.643	.47	10.9	.00069	.00274	8.67	.00019
%RSD	1.9951	.09325	.10899	2.1373	85.343	1.6072	.23818
#1	-32.605	507.61	-9976.8	.03235	.00563	546.96	.07951
#2	-32.624	508.55	-9968.4	.03176	.00376	541.84	.07982
#3	-31.501	508.18	-9955.3	.03314	.00024	530.05	.07986
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.5382**	**1.6043**	**.01738**	**.54020**	**3.5683**	F **412.62**
Stddev	.0062	.0134	.00083	.00399	.0076	3.78
%RSD	.40438	.83229	4.7698	.73901	.21337	.91576
#1	1.5407	1.5890	.01644	.53992	3.5597	412.75
#2	1.5428	1.6133	.01802	.54433	3.5712	416.33
#3	1.5311	1.6107	.01767	.53636	3.5740	408.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85029.**	**66393.**
Stddev	258.	387.
%RSD	.30330	.58250
#1	85327.	65970.
#2	84884.	66481.
#3	84877.	66728.

Approved: February 24, 2011

Sample Name: L1102041843 Acquired: 2/23/2011 14:23:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03749**	**212.55**	**.15540**	**.01229**	**2.4024**	**.00518**
Stddev	.00028	2.31	.00183	.00327	.0076	.00002
%RSD	.74070	1.0886	1.1797	26.636	.31744	.46736
#1	.03722	211.89	.15751	.01535	2.4077	.00517
#2	.03777	215.13	.15421	.01266	2.3937	.00516
#3	.03749	210.64	.15448	.00884	2.4059	.00521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**748.60**	**.00737**	**.19411**	**.30802**	**7.0375**	**411.81**
Stddev	12.70	.00002	.00055	.00142	.0208	.53
%RSD	1.6970	.30288	.28301	.46012	.29607	.12774
#1	747.70	.00738	.19466	.30643	7.0525	412.18
#2	761.73	.00734	.19412	.30847	7.0462	411.21
#3	736.37	.00738	.19356	.30916	7.0137	412.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**87.152**	**.41152**	**177.36**	**7.2433**	**.02787**	**2.6372**
Stddev	.136	.00211	.68	.0069	.00011	.0073
%RSD	.15609	.51292	.38317	.09599	.40416	.27571
#1	87.229	.41395	178.09	7.2440	.02795	2.6453
#2	86.995	.41023	176.75	7.2361	.02790	2.6311
#3	87.232	.41036	177.24	7.2499	.02774	2.6353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041843 Acquired: 2/23/2011 14:23:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28927**	F **-110490.**	**.41305**	F **-31.860**	F **1143.7**	F **-24114.**
Stddev	.00109	345.	.00126	2.181	3.3	69.
%RSD	.37555	.31232	.30577	6.8453	.29115	.28703
#1	.29044	-110810.	.41434	-33.183	1146.9	-24176.
#2	.28829	-110520.	.41300	-29.343	1143.9	-24126.
#3	.28909	-110130.	.41181	-33.054	1140.3	-24039.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01468**	**.01112**	F **428.54**	**.09863**	**1.5590**	**5.5875**
Stddev	.00325	.00022	14.80	.00084	.0095	.0269
%RSD	22.153	2.0105	3.4540	.85479	.60926	.48119
#1	.01205	.01087	440.67	.09940	1.5676	5.6155
#2	.01368	.01121	432.89	.09876	1.5488	5.5619
#3	.01832	.01128	412.05	.09773	1.5605	5.5851
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.03089**	**.78028**	**1.2279**	F **267.95**
Stddev	.00081	.00709	.0038	2.85
%RSD	2.6156	.90828	.30868	1.0641
#1	.03125	.77210	1.2306	264.98
#2	.03145	.78415	1.2296	270.66
#3	.02996	.78458	1.2236	268.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041843 Acquired: 2/23/2011 14:23:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82763.**	**65154.**
Stddev	186.	301.
%RSD	.22464	.46141
#1	82737.	65232.
#2	82592.	64822.
#3	82961.	65408.

Approved: February 24, 2011

Sample Name: L1102041844 Acquired: 2/23/2011 14:27:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04890**	**209.73**	**.14207**	**.03294**	**2.5652**	**.00284**
Stddev	.00047	.81	.00225	.00463	.0029	.00002
%RSD	.96833	.38624	1.5822	14.063	.11496	.65820
#1	.04934	210.56	.14459	.03089	2.5625	.00283
#2	.04896	209.67	.14027	.02968	2.5650	.00282
#3	.04840	208.94	.14135	.03824	2.5683	.00286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**815.51**	**.00825**	**.19859**	**.31328**	**6.3522**	**409.01**
Stddev	13.02	.00023	.00036	.00605	.0129	.49
%RSD	1.5962	2.8230	.18286	1.9318	.20275	.11947
#1	825.64	.00801	.19862	.31897	6.3610	409.14
#2	820.06	.00848	.19894	.31395	6.3583	409.42
#3	800.82	.00826	.19821	.30692	6.3375	408.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**74.216**	**.42538**	**181.80**	**7.4885**	**.02547**	**3.9087**
Stddev	.047	.00125	.37	.0040	.00020	.0082
%RSD	.06380	.29429	.20399	.05340	.77183	.21080
#1	74.166	.42583	181.80	7.4877	.02570	3.9009
#2	74.221	.42635	182.18	7.4929	.02537	3.9078
#3	74.260	.42397	181.43	7.4850	.02535	3.9173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041844 Acquired: 2/23/2011 14:27:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29826**	F **-104990.**	**.50246**	F **-32.845**	F **1218.1**	F **-23898.**
Stddev	.00049	151.	.00211	6.928	2.2	11.
%RSD	.16512	.14420	.42062	21.094	.17814	.04728
#1	.29855	-105090.	.50009	-24.850	1220.6	-23885.
#2	.29769	-105060.	.50414	-37.103	1216.8	-23907.
#3	.29853	-104810.	.50315	-36.582	1216.9	-23902.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01140**	**.01068**	F **315.81**	**.09005**	**1.9062**	**7.2334**
Stddev	.00085	.00204	6.15	.00025	.0032	.0166
%RSD	7.4337	19.126	1.9466	.27430	.17060	.22987
#1	.01090	.01168	318.47	.08976	1.9025	7.2178
#2	.01237	.00833	320.19	.09018	1.9078	7.2509
#3	.01091	.01202	308.78	.09020	1.9083	7.2315
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.03343**	**.78377**	**1.3783**	F **243.90**
Stddev	.00093	.01389	.0022	4.57
%RSD	2.7699	1.7719	.16230	1.8744
#1	.03354	.79614	1.3801	247.97
#2	.03430	.78642	1.3789	244.78
#3	.03246	.76875	1.3758	238.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041844 Acquired: 2/23/2011 14:27:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82150.**	**65451.**
Stddev	125.	1012.
%RSD	.15273	1.5461
#1	82111.	64451.
#2	82048.	65429.
#3	82290.	66474.

Approved: February 24, 2011

Sample Name: L1102041845 Acquired: 2/23/2011 14:31:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357349-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02515**	**173.77**	**.09820**	**.06890**	**1.9906**	**.00566**	**447.26**
Stddev	.00051	1.09	.00072	.00172	.0046	.00004	1.47
%RSD	2.0215	.62533	.73074	2.4945	.22934	.78681	.32803
#1	.02571	174.12	.09826	.07073	1.9885	.00562	446.01
#2	.02471	172.56	.09745	.06863	1.9958	.00566	448.87
#3	.02503	174.65	.09888	.06733	1.9874	.00571	446.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00575**	**.12219**	**.29379**	**1.2635**	**305.77**	**60.824**	**.28317**
Stddev	.00010	.00026	.00437	.0024	.61	.105	.00212
%RSD	1.8210	.21210	1.4872	.18725	.19915	.17220	.74703
#1	.00568	.12230	.28995	1.2660	305.25	60.731	.28205
#2	.00587	.12238	.29287	1.2631	306.44	60.937	.28561
#3	.00571	.12190	.29854	1.2613	305.62	60.803	.28185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**121.91**	**5.1874**	**.01016**	**29.689**	**.23853**	F **-59442.**	**.49639**
Stddev	.40	.0144	.00011	.048	.00096	31.	.00132
%RSD	.33186	.27668	1.1019	.16313	.40321	.05142	.26666
#1	121.45	5.1770	.01003	29.640	.23835	-59477.	.49669
#2	122.13	5.2038	.01020	29.736	.23768	-59432.	.49754
#3	122.17	5.1815	.01024	29.692	.23958	-59418.	.49494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041845 Acquired: 2/23/2011 14:31:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357349-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-38.134**	F **660.67**	F **-14412.**	**.01021**	**.00670**	F **477.97**	**.02314**
Stddev	5.599	.53	4.	.00331	.00248	12.54	.00044
%RSD	14.681	.08036	.02643	32.446	36.968	2.6239	1.9210
#1	-42.761	661.23	-14415.	.01389	.00396	483.96	.02299
#2	-39.731	660.61	-14408.	.00926	.00877	486.40	.02364
#3	-31.911	660.18	-14414.	.00747	.00736	463.56	.02278
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1011**	**4.0631**	**.02074**	**.53847**	**1.1830**	F **371.10**
Stddev	.0022	.0130	.00090	.00751	.0038	3.91
%RSD	.10246	.31969	4.3243	1.3941	.32471	1.0546
#1	2.0987	4.0520	.02158	.53096	1.1869	366.71
#2	2.1030	4.0774	.01980	.53849	1.1828	372.41
#3	2.1015	4.0599	.02085	.54597	1.1793	374.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85070.**	**66031.**
Stddev	431.	388.
%RSD	.50721	.58750
#1	84591.	66402.
#2	85190.	66063.
#3	85428.	65628.

Approved: February 24, 2011

Sample Name: L1102041846S Acquired: 2/23/2011 14:34:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357349-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19579**	**158.13**	**.28268**	**.06624**	**2.1182**	**.00653**	**458.07**
Stddev	.00372	2.50	.00429	.00254	.0040	.00010	2.20
%RSD	1.9011	1.5836	1.5166	3.8372	.18858	1.5869	.48115
#1	.19291	156.47	.28754	.06864	2.1206	.00641	456.33
#2	.19447	156.91	.27943	.06651	2.1136	.00654	457.33
#3	.19999	161.01	.28106	.06358	2.1203	.00662	460.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02935**	**.12233**	**.25508**	**1.4600**	**284.42**	**57.736**	**.26946**
Stddev	.00010	.00041	.00464	.0064	.91	.222	.00211
%RSD	.35670	.33896	1.8182	.43589	.32170	.38374	.78122
#1	.02924	.12239	.25173	1.4656	284.07	57.660	.27187
#2	.02945	.12272	.25313	1.4612	283.74	57.563	.26802
#3	.02935	.12189	.26037	1.4531	285.46	57.986	.26849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**118.49**	**5.5788**	**.00978**	**31.137**	**.23634**	F **-57573.**	**.70530**
Stddev	.78	.0233	.00023	.097	.00026	61.	.00304
%RSD	.65927	.41668	2.3236	.31052	.10966	.10543	.43138
#1	118.44	5.5654	.00998	31.169	.23640	-57513.	.70709
#2	117.74	5.5653	.00982	31.029	.23606	-57635.	.70702
#3	119.30	5.6056	.00953	31.215	.23657	-57572.	.70178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041846S Acquired: 2/23/2011 14:34:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357349-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-30.416**	F **697.45**	F **-15752.**	**.01046**	**.00317**	F **671.71**	**.01866**
Stddev	9.882	1.99	57.	.00202	.00434	17.07	.00018
%RSD	32.489	.28557	.36073	19.320	136.85	2.5414	.95224
#1	-40.624	699.19	-15687.	.00992	-.00141	687.20	.01846
#2	-29.727	697.88	-15774.	.01270	.00370	674.52	.01882
#3	-20.896	695.28	-15794.	.00877	.00722	653.40	.01869
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1466**	**3.1353**	**.01703**	**.49877**	**1.2430**	F **349.04**
Stddev	.0094	.0137	.00127	.00901	.0057	5.00
%RSD	.43717	.43699	7.4721	1.8062	.45560	1.4318
#1	2.1537	3.1361	.01574	.49242	1.2481	347.53
#2	2.1359	3.1212	.01706	.49480	1.2441	344.97
#3	2.1501	3.1486	.01828	.50908	1.2369	354.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84147.**	**66135.**
Stddev	1103.	1060.
%RSD	1.3113	1.6033
#1	83131.	66852.
#2	83989.	66637.
#3	85321.	64917.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 14:38:17 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40098**	**9.8747**	**.39537**	**.49291**	**.97462**	**.04788**	**9.9241**
Stddev	.00170	.0657	.00229	.00189	.00118	.00011	.0124
%RSD	.42380	.66545	.57822	.38351	.12073	.24017	.12477
#1	.39947	9.9504	.39686	.49074	.97330	.04801	9.9221
#2	.40065	9.8420	.39651	.49378	.97502	.04784	9.9373
#3	.40282	9.8318	.39274	.49420	.97555	.04779	9.9128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04862**	**.19981**	**.49709**	**.48809**	**3.8245**	**49.451**	**.98295**
Stddev	.00012	.00041	.00063	.00036	.0118	.079	.00188
%RSD	.25293	.20691	.12608	.07431	.30917	.16069	.19123
#1	.04863	.19957	.49639	.48815	3.8260	49.379	.98406
#2	.04850	.20029	.49759	.48842	3.8356	49.439	.98078
#3	.04875	.19957	.49730	.48770	3.8120	49.536	.98401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2791**	**.47695**	**.98433**	**49.716**	**.49860**	F **-11.770**	**.48416**
Stddev	.0228	.00093	.00040	.099	.00077	13.600	.00064
%RSD	.24560	.19488	.04107	.19879	.15346	115.55	.13135
#1	9.2866	.47802	.98467	49.602	.49780	3.6696	.48489
#2	9.2535	.47655	.98444	49.780	.49869	-17.002	.48381
#3	9.2971	.47629	.98389	49.765	.49932	-21.977	.48378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 14:38:17 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-7.4990**	**10.015**	F **11.670**	**1.1994**	**.39133**	F **4.4451**	**.99901**
Stddev	4.3270	.049	2.306	.0019	.00350	.4294	.00130
%RSD	57.701	.49328	19.764	.16224	.89514	9.6589	.13025
#1	-11.936	9.9687	14.226	1.1971	.39386	3.9529	.99926
#2	-3.2916	10.067	11.040	1.2004	.39280	4.6393	1.0002
#3	-7.2689	10.010	9.7444	1.2006	.38733	4.7430	.99760
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95485**	**.95121**	**.50288**	**.98987**	**.98265**	F **5.6652**
Stddev	.00111	.00190	.00063	.00226	.00133	.8703
%RSD	.11616	.19937	.12458	.22808	.13522	15.363
#1	.95367	.95081	.50358	.98732	.98116	5.0427
#2	.95587	.94954	.50268	.99067	.98371	5.2932
#3	.95503	.95327	.50237	.99162	.98308	6.6598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90370.**	**66831.**
Stddev	534.	252.
%RSD	.59038	.37781
#1	90916.	67020.
#2	90342.	66927.
#3	89850.	66544.

Approved: February 24, 2011

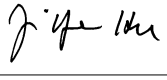
Sample Name: CCB Acquired: 2/23/2011 14:41:49 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00186**	**.01411**	**-.00013**	**.00141**	**.00028**	**.00002**	**-.01264**
Stddev	.00069	.00055	.00052	.00092	.00034	.00001	.01140
%RSD	37.182	3.9174	396.71	65.041	122.67	65.495	90.203
#1	-.00108	.01464	-.00070	.00097	.00052	.00001	-.02503
#2	-.00238	.01354	.00031	.00079	.00042	.00003	-.01028
#3	-.00213	.01415	.00000	.00246	-.00011	.00001	-.00260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00012**	**.00079**	**.00043**	**.00673**	**.04591**	**.00458**
Stddev	.00006	.00010	.00083	.00021	.00261	.03448	.00110
%RSD	361.33	81.993	104.55	47.830	38.832	75.108	23.916
#1	-.00001	-.00002	-.00006	.00061	.00668	.08471	.00349
#2	.00008	-.00022	.00085	.00020	.00937	.01878	.00456
#3	-.00002	-.00014	.00159	.00048	.00414	.03423	.00569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01964**	**-.00018**	**.00043**	**.03048**	**.00065**	F **2.7897**	**.00109**
Stddev	.01671	.00045	.00024	.01147	.00094	16.961	.00110
%RSD	85.088	254.21	55.724	37.638	144.75	608.00	101.64
#1	-.03400	.00029	.00024	.01895	.00119	-5.7537	.00139
#2	-.00130	-.00022	.00070	.03062	-.00044	22.324	.00201
#3	-.02363	-.00061	.00036	.04189	.00120	-8.2012	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 24, 2011



Sample Name: CCB Acquired: 2/23/2011 14:41:49 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.19195**	F **-.02994**	F **6.7628**	**-.00049**	**.00214**	**-.11776**	**.00055**
Stddev	2.1561	.03942	2.2219	.00012	.00191	.08959	.00014
%RSD	1123.2	131.66	32.855	24.123	89.303	76.076	25.375
#1	2.6235	-.07117	4.2699	-.00047	-.00007	-.05748	.00047
#2	-.56089	.00737	7.4836	-.00039	.00325	-.22070	.00046
#3	-1.4867	-.02603	8.5347	-.00062	.00323	-.07510	.00071
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00069**	**.00239**	**.00017**	**.00013**	F **-.37114**
Stddev	.00007	.00013	.00091	.00021	.00015	.71683
%RSD	82.496	18.756	37.883	120.71	108.69	193.14
#1	.00002	.00083	.00144	.00035	.00019	-.95947
#2	.00016	.00057	.00249	.00022	.00024	-.58121
#3	.00007	.00066	.00324	-.00006	-.00003	.42725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91845.**	**63878.**
Stddev	325.	278.
%RSD	.35387	.43548
#1	92098.	63773.
#2	91960.	63667.
#3	91479.	64193.

Approved: February 24, 2011

Sample Name: L1102041847SD Acquired: 2/23/2011 14:45:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357349-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21079**	**179.91**	**.27781**	**.08060**	**2.0810**	**.00441**	**447.94**
Stddev	.00053	1.21	.00170	.00150	.0032	.00007	.85
%RSD	.25162	.67404	.61057	1.8660	.15232	1.6479	.19050
#1	.21072	179.78	.27976	.07923	2.0792	.00449	447.56
#2	.21030	181.19	.27668	.08221	2.0790	.00435	447.35
#3	.21136	178.78	.27700	.08037	2.0846	.00439	448.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02939**	**.12200**	**.29103**	**1.4516**	**309.73**	**61.211**	**.28037**
Stddev	.00012	.00014	.00131	.0013	.83	.167	.00194
%RSD	.40064	.11348	.44951	.09229	.26722	.27289	.69054
#1	.02938	.12184	.29006	1.4501	308.91	61.097	.27816
#2	.02928	.12207	.29052	1.4528	309.72	61.134	.28117
#3	.02951	.12210	.29252	1.4519	310.57	61.403	.28178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**120.90**	**5.3850**	**.00964**	**30.302**	**.23638**	F **-59570.**	**.68721**
Stddev	.86	.0080	.00002	.080	.00046	91.	.00337
%RSD	.70741	.14957	.24152	.26237	.19455	.15306	.49056
#1	119.98	5.3788	.00964	30.248	.23600	-59675.	.68348
#2	121.07	5.3820	.00962	30.264	.23625	-59512.	.69005
#3	121.66	5.3941	.00967	30.393	.23689	-59523.	.68809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041847SD Acquired: 2/23/2011 14:45:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357349-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-26.938**	F **663.51**	F **-14424.**	**.01192**	**.00331**	F **360.56**	**.02313**
Stddev	.708	.53	58.	.00138	.00268	7.41	.00038
%RSD	2.6279	.08063	.40164	11.617	80.830	2.0550	1.6553
#1	-27.511	663.27	-14491.	.01298	.00517	366.05	.02273
#2	-27.157	664.12	-14396.	.01242	.00024	363.49	.02315
#3	-26.147	663.13	-14386.	.01035	.00452	352.13	.02349
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1156**	**5.1013**	**.02451**	**.56717**	**1.1759**	F **383.81**
Stddev	.0079	.0204	.00007	.00444	.0016	4.26
%RSD	.37172	.39918	.30024	.78361	.13625	1.1107
#1	2.1104	5.0839	.02453	.56473	1.1741	380.01
#2	2.1118	5.0962	.02443	.56449	1.1769	383.01
#3	2.1247	5.1237	.02458	.57230	1.1767	388.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83335.**	**65668.**
Stddev	485.	227.
%RSD	.58180	.34543
#1	83876.	65929.
#2	83192.	65556.
#3	82939.	65519.

Approved: February 24, 2011

Sample Name: L1102041848 Acquired: 2/23/2011 14:49:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01395**	**147.35**	**.09084**	**.08277**	**2.1294**	**.00767**	**823.56**
Stddev	.00030	.67	.00214	.00172	.0003	.00004	9.34
%RSD	2.1595	.45257	2.3541	2.0806	.01196	.51657	1.1337
#1	.01381	147.95	.09328	.08369	2.1297	.00763	824.53
#2	.01430	147.48	.08931	.08384	2.1295	.00770	832.38
#3	.01375	146.63	.08992	.08079	2.1291	.00769	813.78
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00494**	**.13079**	**.25058**	**.92842**	**294.36**	**41.949**	**.29596**
Stddev	.00005	.00071	.00093	.00644	.13	.060	.00060
%RSD	1.0072	.54308	.37203	.69375	.04358	.14189	.20195
#1	.00489	.13136	.25160	.93371	294.28	41.898	.29606
#2	.00496	.13103	.25037	.93030	294.29	41.934	.29532
#3	.00498	.13000	.24977	.92124	294.51	42.014	.29651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**124.59**	**5.2996**	**.01116**	**32.225**	**.22951**	F **-69266.**	**.48432**
Stddev	.42	.0088	.00017	.029	.00142	55.	.00268
%RSD	.33820	.16527	1.5517	.08939	.61998	.08003	.55234
#1	124.11	5.2902	.01136	32.257	.23007	-69313.	.48741
#2	124.82	5.3076	.01109	32.200	.23057	-69282.	.48279
#3	124.85	5.3009	.01104	32.218	.22789	-69205.	.48275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041848 Acquired: 2/23/2011 14:49:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-28.100**	F **1322.7**	F **-29784.**	**.01506**	**.00921**	F **385.84**	**.01735**
Stddev	5.385	5.7	44.	.00171	.00132	10.58	.00023
%RSD	19.163	.43327	.14746	11.384	14.301	2.7431	1.3515
#1	-30.087	1327.3	-29773.	.01308	.01042	393.95	.01722
#2	-22.004	1324.6	-29746.	.01612	.00781	389.70	.01720
#3	-32.208	1316.3	-29832.	.01598	.00940	373.87	.01762
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.5280**	**2.2997**	**.01834**	**.53581**	**.92277**	F **326.15**
Stddev	.0010	.0097	.00106	.00155	.00398	2.16
%RSD	.03786	.42262	5.7821	.28880	.43115	.66197
#1	2.5291	2.2906	.01954	.53758	.92647	327.56
#2	2.5277	2.2985	.01753	.53512	.92327	327.23
#3	2.5273	2.3099	.01795	.53473	.91856	323.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81985.**	**64620.**
Stddev	336.	285.
%RSD	.40974	.44062
#1	81612.	64615.
#2	82081.	64338.
#3	82262.	64907.

Approved: February 24, 2011

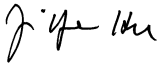
Sample Name: L1102041901 Acquired: 2/23/2011 14:52:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02710**	**141.79**	**.12663**	**.04482**	**2.0025**	**.00407**	**573.80**
Stddev	.00070	1.94	.00140	.00085	.0136	.00012	6.69
%RSD	2.5963	1.3664	1.1065	1.8925	.67867	2.8273	1.1665
#1	.02716	142.15	.12546	.04391	1.9963	.00395	576.06
#2	.02637	139.70	.12819	.04495	1.9932	.00409	566.26
#3	.02778	143.52	.12625	.04559	2.0181	.00417	579.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00898**	**.12288**	**.27527**	**5.0053**	**289.17**	**47.069**	**.26382**
Stddev	.00010	.00169	.00354	.0640	1.94	.308	.00332
%RSD	1.1302	1.3793	1.2844	1.2780	.67021	.65537	1.2578
#1	.00907	.12471	.27624	5.0737	288.28	46.919	.26002
#2	.00900	.12257	.27136	4.9953	287.83	46.865	.26529
#3	.00887	.12137	.27823	4.9470	291.39	47.424	.26615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**111.13**	**4.8979**	**.01861**	**25.236**	**.23315**	F **-96183.**	**1.4258**
Stddev	.45	.0348	.00028	.194	.00254	1054.	.0183
%RSD	.40057	.70972	1.5207	.76749	1.0898	1.0958	1.2827
#1	110.71	4.8785	.01889	25.164	.23601	-97254.	1.4455
#2	111.10	4.8773	.01863	25.089	.23228	-96148.	1.4225
#3	111.59	4.9381	.01832	25.456	.23116	-95147.	1.4094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011



Sample Name: L1102041901 Acquired: 2/23/2011 14:52:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-33.356**	F **766.99**	F **-11828.**	**.01182**	**.00709**	F **295.66**	**.03996**
Stddev	5.873	8.72	159.	.00428	.00334	8.38	.00025
%RSD	17.606	1.1375	1.3451	36.185	47.108	2.8349	.62336
#1	-35.273	776.65	-11992.	.00982	.00947	303.91	.04012
#2	-38.031	764.64	-11816.	.00892	.00327	295.92	.04010
#3	-26.764	759.68	-11675.	.01673	.00852	287.15	.03968
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9339**	**4.3390**	**.02054**	**.56833**	**1.5584**	F **353.25**
Stddev	.0113	.0208	.00073	.00710	.0180	4.60
%RSD	.58196	.47977	3.5701	1.2487	1.1518	1.3035
#1	1.9318	4.3214	.01970	.56877	1.5782	354.97
#2	1.9238	4.3336	.02105	.56103	1.5538	348.04
#3	1.9460	4.3620	.02087	.57520	1.5432	356.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82633.**	**66624.**
Stddev	699.	599.
%RSD	.84574	.89980
#1	81826.	66316.
#2	83039.	67315.
#3	83034.	66240.

Approved: February 24, 2011

Sample Name: L1102041902 Acquired: 2/23/2011 14:56:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01399**	**186.24**	**.13355**	**.05267**	**2.3746**	**.00956**	**682.54**
Stddev	.00056	1.83	.00150	.00085	.0032	.00009	4.26
%RSD	3.9696	.98231	1.1242	1.6065	.13626	.98923	.62397
#1	.01376	185.04	.13519	.05180	2.3738	.00958	680.68
#2	.01462	185.33	.13225	.05349	2.3718	.00946	679.54
#3	.01359	188.34	.13321	.05273	2.3781	.00964	687.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00648**	**.13816**	**.29086**	**1.3854**	**322.31**	**61.728**	**.30275**
Stddev	.00013	.00020	.00320	.0043	.86	.130	.00225
%RSD	1.9567	.14514	1.1001	.31276	.26596	.21111	.74386
#1	.00650	.13820	.29113	1.3888	321.81	61.640	.30516
#2	.00659	.13833	.28754	1.3869	321.81	61.667	.30239
#3	.00634	.13794	.29392	1.3805	323.30	61.878	.30070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**128.79**	**5.5366**	**.01255**	**34.057**	**.25743**	F **-70781.**	**.48854**
Stddev	.38	.0105	.00029	.057	.00091	200.	.00099
%RSD	.29150	.18983	2.2826	.16722	.35173	.28287	.20287
#1	128.88	5.5307	.01288	34.027	.25845	-70963.	.48965
#2	128.37	5.5305	.01235	34.021	.25713	-70813.	.48823
#3	129.10	5.5488	.01243	34.122	.25672	-70567.	.48774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041902 Acquired: 2/23/2011 14:56:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-24.869**	F **1148.9**	F **-28077.**	**.01669**	**.00623**	F **327.84**	**.04901**
Stddev	4.368	1.1	45.	.00301	.00198	11.35	.00026
%RSD	17.564	.09373	.15926	18.056	31.798	3.4626	.53360
#1	-29.857	1150.1	-28129.	.01566	.00417	330.43	.04886
#2	-21.725	1148.2	-28053.	.01433	.00638	337.68	.04886
#3	-23.027	1148.3	-28050.	.02008	.00812	315.42	.04931
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.3223**	**2.4958**	**.01746**	**.54940**	**1.0645**	F **413.43**
Stddev	.0023	.0041	.00087	.00496	.0030	3.65
%RSD	.09946	.16400	4.9620	.90254	.28534	.88355
#1	2.3249	2.5002	.01829	.54962	1.0661	414.55
#2	2.3206	2.4921	.01755	.54433	1.0664	409.36
#3	2.3213	2.4952	.01656	.55424	1.0610	416.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83344.**	**65573.**
Stddev	334.	455.
%RSD	.40092	.69374
#1	83181.	65544.
#2	83122.	66041.
#3	83728.	65133.

Approved: February 24, 2011

Sample Name: L1102041903 Acquired: 2/23/2011 15:00:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09715**	**200.14**	**.12014**	**.02708**	**2.7910**	^ *****
Stddev	.00069	3.24	.00284	.00332	.0069	-----
%RSD	.70988	1.6211	2.3673	12.278	.24679	-----
#1	.09651	203.23	.11692	.02324	2.7845	^ -----
#2	.09707	196.76	.12117	.02892	2.7901	^ -----
#3	.09788	200.42	.12232	.02907	2.7982	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1255.6**	**.00981**	**.26974**	**.60757**	**3.6125**	**419.30**
Stddev	17.9	.00011	.00027	.00421	.0062	.74
%RSD	1.4290	1.0731	.10082	.69362	.17261	.17608
#1	1268.1	.00982	.26943	.61169	3.6062	418.58
#2	1235.0	.00991	.26985	.60326	3.6186	419.28
#3	1263.6	.00970	.26994	.60777	3.6128	420.05
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**95.513**	**.61691**	**252.42**	**11.630**	**.01697**	**5.8026**
Stddev	.225	.00207	.76	.014	.00013	.0085
%RSD	.23542	.33526	.30254	.12002	.75187	.14707
#1	95.340	.61569	252.10	11.615	.01689	5.7956
#2	95.430	.61575	251.87	11.632	.01690	5.8001
#3	95.767	.61930	253.29	11.643	.01712	5.8121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041903 Acquired: 2/23/2011 15:00:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50060**	F **-175160.**	**.45518**	F **-42.721**	F **1558.4**	F **-9383.3**
Stddev	.00112	149.	.00174	5.023	3.5	5.2
%RSD	.22318	.08498	.38168	11.759	.22695	.05577
#1	.49942	-175010.	.45322	-47.364	1554.3	-9380.4
#2	.50164	-175300.	.45577	-37.389	1560.4	-9380.2
#3	.50074	-175180.	.45654	-43.409	1560.4	-9389.4
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00986**	**.01001**	F **323.60**	**.02311**	**2.1153**	**15.032**
Stddev	.00233	.00348	6.30	.00042	.0104	.031
%RSD	23.641	34.768	1.9470	1.8371	.49257	.20609
#1	.01248	.01007	324.62	.02359	2.1087	15.021
#2	.00800	.01346	329.32	.02297	2.1099	15.009
#3	.00912	.00650	316.85	.02277	2.1273	15.067
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.04894**	**.87239**	**1.8867**	F **153.77**
Stddev	.00005	.00728	.0031	.87
%RSD	.10236	.83457	.16336	.56805
#1	.04900	.87831	1.8835	153.70
#2	.04890	.86426	1.8897	152.93
#3	.04893	.87459	1.8868	154.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041903 Acquired: 2/23/2011 15:00:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78646.**	**65027.**
Stddev	163.	372.
%RSD	.20700	.57168
#1	78818.	64933.
#2	78627.	65436.
#3	78494.	64711.

Approved: February 24, 2011

Sample Name: L1102041904 Acquired: 2/23/2011 15:04:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13330**	**242.06**	**.12599**	**.02195**	**3.3647**	^ *****
Stddev	.00047	.88	.00197	.00232	.0042	-----
%RSD	.35533	.36459	1.5632	10.553	.12362	-----
#1	.13278	241.04	.12723	.01998	3.3608	^ -----
#2	.13343	242.59	.12372	.02137	3.3691	^ -----
#3	.13370	242.54	.12702	.02450	3.3643	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1324.3**	**.00874**	**.31193**	**1.1611**	**1.9205**	**478.11**
Stddev	12.7	.00007	.00069	.0052	.0044	.64
%RSD	.95950	.77992	.21970	.44590	.22940	.13309
#1	1324.7	.00869	.31270	1.1570	1.9255	477.41
#2	1311.5	.00882	.31171	1.1595	1.9190	478.66
#3	1336.9	.00872	.31139	1.1669	1.9170	478.26
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**104.06**	**.73360**	**299.58**	**13.575**	**.00890**	**8.9241**
Stddev	.29	.00083	1.53	.034	.00052	.0136
%RSD	.28063	.11279	.51195	.25292	5.8345	.15215
#1	103.73	.73265	297.81	13.545	.00882	8.9089
#2	104.15	.73404	300.43	13.569	.00842	8.9351
#3	104.30	.73411	300.51	13.612	.00945	8.9282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041904 Acquired: 2/23/2011 15:04:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.71604	F -165530.	.43754	F -44.101	F 1601.7	F -8663.5
Stddev	.00352	185.	.00276	4.831	2.4	15.8
%RSD	.49175	.11195	.63165	10.955	.15175	.18230
#1	.72007	-165560.	.44059	-49.078	1604.2	-8649.9
#2	.71448	-165690.	.43683	-43.795	1601.6	-8680.8
#3	.71356	-165330.	.43520	-39.430	1599.4	-8660.0
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01636	.00966	F 321.76	.02830	2.2484	20.863
Stddev	.00308	.00244	7.64	.00011	.0067	.097
%RSD	18.844	25.234	2.3733	.38317	.29739	.46321
#1	.01901	.01035	326.32	.02819	2.2457	20.752
#2	.01710	.00695	326.02	.02830	2.2561	20.926
#3	.01298	.01168	312.94	.02840	2.2436	20.912
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.06083	1.0181	1.9660	F 108.30
Stddev	.00124	.0007	.0042	.42
%RSD	2.0371	.07185	.21175	.38826
#1	.05941	1.0178	1.9705	108.04
#2	.06137	1.0176	1.9654	108.09
#3	.06170	1.0190	1.9622	108.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041904 Acquired: 2/23/2011 15:04:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76879.**	**62687.**
Stddev	92.	259.
%RSD	.11958	.41269
#1	76837.	62765.
#2	76984.	62897.
#3	76816.	62398.

Approved: February 24, 2011

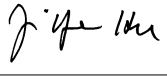
Sample Name: L1102041905 Acquired: 2/23/2011 15:08:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01111**	**278.98**	**.21050**	**.04170**	**3.0759**	**.01519**	**245.02**
Stddev	.00067	3.20	.00099	.00164	.0055	.00014	.61
%RSD	6.0199	1.1454	.46845	3.9240	.17827	.90301	.24795
#1	.01045	275.30	.21029	.04242	3.0700	.01504	244.33
#2	.01107	280.56	.20963	.03983	3.0809	.01525	245.50
#3	.01179	281.07	.21157	.04286	3.0768	.01529	245.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01860**	**.19163**	**.42489**	**7.3294**	**420.78**	**114.65**	**.35603**
Stddev	.00005	.00036	.00384	.0063	.97	.25	.00121
%RSD	.28153	.18841	.90267	.08639	.23067	.21901	.33877
#1	.01863	.19138	.42069	7.3277	419.70	114.37	.35465
#2	.01863	.19147	.42579	7.3241	421.57	114.87	.35650
#3	.01854	.19205	.42820	7.3364	421.06	114.70	.35692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**141.69**	**6.9031**	**.03237**	**7.0810**	**.34643**	F **-97889.**	**2.4901**
Stddev	.58	.0151	.00044	.0143	.00049	90.	.0023
%RSD	.40633	.21934	1.3511	.20150	.14020	.09204	.09092
#1	141.03	6.8857	.03221	7.0656	.34627	-97820.	2.4876
#2	142.08	6.9131	.03286	7.0833	.34604	-97991.	2.4918
#3	141.97	6.9105	.03203	7.0939	.34697	-97856.	2.4910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011



Sample Name: L1102041905 Acquired: 2/23/2011 15:08:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-28.649**	F **614.14**	F **-23338.**	**.02770**	**.00391**	F **355.50**	**.11886**
Stddev	2.652	1.07	26.	.00211	.00244	3.29	.00061
%RSD	9.2585	.17476	.11088	7.6244	62.425	.92598	.51212
#1	-27.702	613.62	-23311.	.02954	.00114	358.58	.11816
#2	-26.600	613.43	-23342.	.02539	.00573	355.88	.11919
#3	-31.645	615.38	-23362.	.02816	.00488	352.03	.11924
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1381**	**1.5325**	**.02032**	**.53499**	**4.3233**	F **516.69**
Stddev	.0025	.0029	.00177	.00477	.0079	5.04
%RSD	.22197	.18694	8.7114	.89206	.18317	.97603
#1	1.1356	1.5293	.02186	.52964	4.3164	511.06
#2	1.1407	1.5332	.02072	.53652	4.3216	520.80
#3	1.1381	1.5349	.01838	.53881	4.3319	518.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85454.**	**65403.**
Stddev	450.	374.
%RSD	.52662	.57225
#1	84956.	65795.
#2	85576.	65050.
#3	85831.	65363.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 15:11:36 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41003**	**10.141**	**.39921**	**.50357**	**.98691**	**.04926**	**10.019**
Stddev	.00301	.052	.00313	.00207	.00189	.00038	.032
%RSD	.73323	.51080	.78465	.41089	.19155	.77708	.31850
#1	.41147	10.186	.40161	.50195	.98719	.04943	10.056
#2	.40658	10.084	.39567	.50285	.98489	.04882	9.9965
#3	.41205	10.151	.40034	.50590	.98864	.04952	10.006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04930**	**.20126**	**.51098**	**.49374**	**3.8634**	**50.158**	**1.0027**
Stddev	.00006	.00037	.00293	.00070	.0137	.084	.0011
%RSD	.12645	.18510	.57272	.14147	.35321	.16697	.10678
#1	.04936	.20165	.51338	.49383	3.8783	50.251	1.0040
#2	.04931	.20122	.50772	.49440	3.8602	50.089	1.0020
#3	.04924	.20091	.51184	.49301	3.8516	50.134	1.0023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3735**	**.47745**	**.99360**	**50.333**	**.50169**	F **-15.214**	**.49300**
Stddev	.0526	.00067	.00044	.129	.00090	17.840	.00091
%RSD	.56094	.14064	.04423	.25591	.17988	117.26	.18359
#1	9.3515	.47817	.99376	50.418	.50163	.7913	.49285
#2	9.3355	.47684	.99393	50.185	.50262	-34.448	.49218
#3	9.4335	.47734	.99310	50.397	.50082	-11.987	.49398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 15:11:36 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-15.316**	**10.136**	F **12.554**	**1.2014**	**.39347**	F **3.9856**	**1.0063**
Stddev	7.151	.065	1.410	.0024	.00297	.1074	.0025
%RSD	46.694	.64464	11.232	.20313	.75398	2.6953	.24484
#1	-7.1460	10.192	11.543	1.2041	.39035	3.9508	1.0090
#2	-20.443	10.151	11.954	1.2004	.39626	3.8999	1.0057
#3	-18.358	10.064	14.165	1.1996	.39379	4.1061	1.0042
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96052**	**.95919**	**.50545**	**1.0126**	**.99246**	F **6.6244**
Stddev	.00234	.00344	.00057	.0054	.00098	1.2198
%RSD	.24358	.35890	.11276	.53283	.09882	18.414
#1	.96114	.95699	.50541	1.0144	.99348	5.4083
#2	.95793	.96316	.50604	1.0065	.99236	6.6170
#3	.96248	.95742	.50490	1.0168	.99153	7.8479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89840.**	**65024.**
Stddev	228.	457.
%RSD	.25364	.70245
#1	89771.	64853.
#2	90095.	65541.
#3	89655.	64677.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 15:15:08 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**.01303**	**.00040**	**.00220**	**.00027**	**.00002**	**-.00061**
Stddev	.00031	.00210	.00149	.00095	.00015	.00005	.01377
%RSD	29.189	16.131	369.62	43.042	55.827	364.67	2273.0
#1	-.00071	.01063	.00205	.00115	.00012	.00005	.01243
#2	-.00130	.01391	-.00086	.00249	.00027	.00005	.00076
#3	-.00116	.01454	.00002	.00298	.00041	-.00005	-.01501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00005**	**.00011**	**.00056**	**.00990**	**.08484**	**.00679**
Stddev	.00011	.00007	.00035	.00030	.00367	.08828	.00106
%RSD	156.31	138.71	321.97	54.307	37.080	104.04	15.645
#1	-.00005	.00003	.00050	.00087	.01414	.14276	.00799
#2	.00016	-.00008	-.00017	.00053	.00774	-.01676	.00641
#3	.00010	-.00010	.00000	.00027	.00782	.12853	.00596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00276**	**.00008**	**.00075**	**.02614**	**.00107**	F **27.648**	**.00103**
Stddev	.03292	.00049	.00029	.00610	.00074	29.699	.00182
%RSD	1194.0	629.42	39.152	23.342	69.011	107.42	176.75
#1	-.03358	.00024	.00084	.01911	.00106	61.591	.00095
#2	.03058	-.00047	.00098	.03004	.00182	14.913	.00289
#3	.01127	.00047	.00042	.02927	.00034	6.4406	-.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 15:15:08 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-12.465**	F **-.02533**	F **4.8226**	**-.00007**	**.00353**	**-.01692**	**.00009**
Stddev	4.604	.05458	1.9812	.00090	.00142	.06220	.00022
%RSD	36.932	215.51	41.082	1276.6	40.291	367.71	244.96
#1	-14.269	-.05335	2.8577	.00018	.00434	-.08452	-.00013
#2	-15.893	.03758	4.7904	.00068	.00189	-.00412	.00031
#3	-7.2326	-.06021	6.8197	-.00107	.00436	.03789	.00009
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00095**	**.00228**	**.00024**	**.00006**	F **-.35191**
Stddev	.00009	.00012	.00049	.00011	.00004	.30415
%RSD	73.132	12.584	21.312	45.580	60.965	86.428
#1	.00023	.00107	.00270	.00012	.00007	-.00277
#2	.00010	.00095	.00175	.00033	.00002	-.55942
#3	.00005	.00083	.00239	.00027	.00010	-.49354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90611.**	**64200.**
Stddev	273.	409.
%RSD	.30160	.63769
#1	90298.	64555.
#2	90804.	64292.
#3	90731.	63752.

Approved: February 24, 2011

Sample Name: PBS 5B Acquired: 2/23/2011 15:18:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00134**	**.01115**	**-.00147**	**.00181**	**.00010**	**.00004**	**.03031**
Stddev	.00036	.00154	.00109	.00096	.00026	.00003	.00894
%RSD	27.225	13.809	74.298	53.076	251.45	74.890	29.485
#1	-.00096	.01213	-.00023	.00073	-.00001	.00002	.02735
#2	-.00138	.00937	-.00188	.00215	.00041	.00002	.04036
#3	-.00168	.01194	-.00229	.00255	-.00008	.00008	.02324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00039**	**.00045**	**.00065**	**.00699**	**.04541**	**.00631**
Stddev	.00003	.00004	.00027	.00026	.00465	.01753	.00345
%RSD	93.249	10.543	59.972	39.864	66.567	38.593	54.638
#1	.00002	-.00034	.00076	.00069	.00268	.06551	.01000
#2	.00006	-.00039	.00024	.00088	.00636	.03738	.00572
#3	.00001	-.00043	.00036	.00037	.01192	.03334	.00319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01100**	**-.00015**	**.00011**	**.05143**	**.00195**	**40.669**	**.00272**
Stddev	.01448	.00035	.00016	.00925	.00017	18.740	.00189
%RSD	131.58	232.04	151.52	17.976	8.5512	46.079	69.458
#1	.02699	.00025	.00029	.04484	.00213	20.036	.00067
#2	.00724	-.00042	.00004	.06200	.00194	56.632	.00311
#3	-.00122	-.00028	-.00001	.04746	.00180	45.340	.00438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 24, 2011

Sample Name: PBS 5B Acquired: 2/23/2011 15:18:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-11.188**	**.10268**	**.61879**	**.00194**	**.00520**	**1.2380**	**.00029**
Stddev	2.368	.06119	2.9202	.00132	.00057	.0722	.00028
%RSD	21.163	59.596	471.92	67.981	10.896	5.8322	96.791
#1	-9.8159	.07333	2.4765	.00053	.00456	1.3124	-.00003
#2	-13.922	.17302	-2.7472	.00314	.00560	1.2332	.00050
#3	-9.8254	.06169	2.1271	.00215	.00546	1.1682	.00038
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00018**	**-.00039**	**.00025**	**.00107**	F **-.45175**
Stddev	.00012	.00093	.00056	.00047	.00004	.19508
%RSD	49.980	524.58	141.41	186.04	3.8296	43.183
#1	.00035	-.00086	.00009	.00077	.00105	-.23014
#2	.00011	.00043	-.00100	.00015	.00112	-.59751
#3	.00026	.00096	-.00027	-.00016	.00104	-.52762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89239.**	**64212.**
Stddev	278.	36.
%RSD	.31133	.05600
#1	89111.	64206.
#2	89558.	64180.
#3	89049.	64251.

Approved: February 24, 2011

Sample Name: LCSS 5B Acquired: 2/23/2011 15:22:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20006**	**4.7553**	**.18850**	**.93791**	**.49271**	**.02498**	**4.9361**
Stddev	.00151	.0190	.00099	.00446	.00077	.00026	.0063
%RSD	.75389	.39956	.52683	.47530	.15663	1.0282	.12804
#1	.19837	4.7717	.18937	.93291	.49286	.02489	4.9362
#2	.20053	4.7345	.18742	.93934	.49187	.02478	4.9423
#3	.20127	4.7598	.18872	.94148	.49340	.02527	4.9297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02354**	**.10018**	**.25992**	**.24038**	**1.8658**	**24.749**	**.50602**
Stddev	.00003	.00029	.00141	.00018	.0036	.037	.00153
%RSD	.13611	.28921	.54242	.07501	.19398	.14808	.30226
#1	.02356	.10042	.25941	.24057	1.8684	24.735	.50471
#2	.02355	.09986	.25884	.24022	1.8674	24.721	.50770
#3	.02350	.10026	.26151	.24035	1.8617	24.791	.50564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.6345**	**.23618**	**.51876**	**25.667**	**.24932**	**32.317**	**.23938**
Stddev	.0094	.00150	.00029	.008	.00070	19.150	.00184
%RSD	.20366	.63501	.05605	.03118	.28169	59.257	.77066
#1	4.6372	.23711	.51881	25.659	.25013	34.010	.23970
#2	4.6240	.23698	.51845	25.675	.24897	50.563	.24105
#3	4.6423	.23445	.51903	25.669	.24886	12.376	.23740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 24, 2011

Sample Name: LCSS 5B Acquired: 2/23/2011 15:22:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-8.8256**	**4.9293**	**7.0672**	**.56381**	**.18697**	F **341.67**	**.50844**
Stddev	7.3949	.0139	3.0844	.00064	.00086	.42	.00108
%RSD	83.789	.28244	43.643	.11295	.46036	.12423	.21235
#1	-2.3685	4.9138	10.026	.56431	.18749	341.55	.50779
#2	-16.893	4.9333	3.8710	.56310	.18598	341.31	.50784
#3	-7.2154	4.9408	7.3047	.56403	.18745	342.14	.50969
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000					90.000	
Low Limit	-.00400					-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47450**	**.47567**	**.24523**	**.52733**	**.48821**	**5.4708**
Stddev	.00132	.00161	.00198	.00311	.00042	.9278
%RSD	.27809	.33835	.80823	.58889	.08660	16.960
#1	.47472	.47700	.24590	.52538	.48774	4.7119
#2	.47308	.47388	.24679	.52570	.48832	5.1952
#3	.47569	.47613	.24300	.53092	.48856	6.5052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88070.**	**62033.**
Stddev	48.	169.
%RSD	.05469	.27212
#1	88022.	61838.
#2	88071.	62141.
#3	88118.	62119.

Approved: February 24, 2011

Sample Name: L1102058901 Acquired: 2/23/2011 15:26:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00280**	**176.85**	**.12659**	**-.00493**	**2.5281**	**.02054**	F **1373.0**
Stddev	.00052	2.56	.00116	.00222	.0034	.00013	19.9
%RSD	18.493	1.4492	.91564	44.989	.13647	.61818	1.4486
#1	-.00340	177.79	.12719	-.00529	2.5246	.02059	1379.2
#2	-.00252	173.95	.12733	-.00255	2.5280	.02040	1350.8
#3	-.00248	178.81	.12526	-.00694	2.5315	.02064	1389.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00553**	**.11598**	**.16812**	**.15535**	**137.93**	**24.566**	**.16786**
Stddev	.00005	.00049	.00188	.00118	.21	.053	.00102
%RSD	.90953	.41868	1.1172	.75800	.15102	.21652	.61039
#1	.00550	.11640	.16938	.15616	137.69	24.508	.16894
#2	.00559	.11610	.16596	.15590	138.03	24.612	.16774
#3	.00551	.11545	.16902	.15400	138.07	24.579	.16690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.020**	**5.6443**	**.00297**	**2.9062**	**.17725**	F **-9897.9**	**.25109**
Stddev	.138	.0087	.00006	.0073	.00065	4.9	.00330
%RSD	.43152	.15415	2.1837	.25036	.36872	.04924	1.3144
#1	32.144	5.6353	.00290	2.8997	.17728	-9898.1	.25155
#2	31.871	5.6526	.00302	2.9048	.17789	-9892.9	.25414
#3	32.046	5.6451	.00300	2.9141	.17658	-9902.7	.24759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102058901 Acquired: 2/23/2011 15:26:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-25.452**	F **1621.4**	F **-4743.6**	**.01658**	**.00672**	F **287.90**	**.01030**
Stddev	9.852	3.6	7.8	.00241	.00361	6.43	.00033
%RSD	38.708	.22267	.16376	14.507	53.700	2.2328	3.2403
#1	-14.323	1623.7	-4745.9	.01934	.00957	293.07	.01005
#2	-33.060	1623.4	-4750.0	.01493	.00792	289.94	.01068
#3	-28.972	1617.3	-4734.9	.01547	.00266	280.70	.01017
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.79873**	**.03401**	**.01588**	**.54442**	**.35683**	F **604.98**
Stddev	.00188	.00119	.00193	.00401	.00054	3.90
%RSD	.23557	3.4900	12.157	.73665	.15262	.64489
#1	.80071	.03373	.01568	.54619	.35726	608.94
#2	.79697	.03532	.01406	.53982	.35700	601.14
#3	.79850	.03299	.01790	.54724	.35621	604.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82963.**	**65274.**
Stddev	220.	403.
%RSD	.26513	.61681
#1	83196.	65012.
#2	82935.	65738.
#3	82759.	65072.

Approved: February 24, 2011

Sample Name: L1102057103S Acquired: 2/23/2011 15:29:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-07

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22855**	**309.38**	**.24044**	**.50664**	**1.0597**	**.02517**	**9.9090**
Stddev	.00146	4.50	.00313	.00244	.0010	.00003	.0151
%RSD	.64025	1.4550	1.3035	.48212	.09215	.13624	.15198
#1	.22723	308.15	.24395	.50681	1.0607	.02514	9.9001
#2	.23012	305.62	.23793	.50411	1.0596	.02520	9.9264
#3	.22831	314.37	.23943	.50899	1.0587	.02519	9.9006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02970**	**.18812**	**.87538**	**.63494**	**778.56**	**34.898**	**.54658**
Stddev	.00014	.00053	.00359	.00715	6.57	.065	.00212
%RSD	.48805	.28170	.41013	1.1265	.84352	.18516	.38818
#1	.02954	.18784	.87123	.63529	778.48	34.826	.54901
#2	.02973	.18778	.87753	.64192	772.03	34.917	.54570
#3	.02983	.18873	.87738	.62762	785.17	34.952	.54505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.176**	**8.1931**	**.48170**	**24.305**	**.41955**	F **-56498.**	**.49709**
Stddev	.107	.0098	.00110	.021	.00059	61.	.00300
%RSD	.75294	.11935	.22798	.08652	.14093	.10792	.60429
#1	14.144	8.1838	.48161	24.327	.41903	-56517.	.49632
#2	14.295	8.2033	.48285	24.303	.41944	-56547.	.50040
#3	14.089	8.1923	.48066	24.285	.42019	-56429.	.49454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102057103S Acquired: 2/23/2011 15:29:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-07

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-20.699**	F **168.69**	F **-9473.5**	**.55526**	**.14767**	F **690.85**	**.49100**
Stddev	4.088	.68	19.1	.00285	.00293	5.53	.00050
%RSD	19.750	.40589	.20201	.51301	1.9859	.80003	.10283
#1	-25.294	167.97	-9451.5	.55516	.14912	694.85	.49157
#2	-19.338	168.76	-9483.9	.55815	.14429	693.15	.49061
#3	-17.466	169.33	-9485.2	.55246	.14959	684.54	.49083
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49270**	**6.0623**	**.27153**	**2.1187**	**1.1092**	F **360.25**
Stddev	.00163	.0050	.00103	.0024	.0008	1.13
%RSD	.33178	.08314	.38041	.11101	.07445	.31500
#1	.49447	6.0593	.27043	2.1161	1.1083	359.87
#2	.49240	6.0682	.27248	2.1205	1.1099	359.35
#3	.49124	6.0596	.27166	2.1197	1.1094	361.52
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86291.**	**63759.**
Stddev	53.	114.
%RSD	.06113	.17834
#1	86244.	63888.
#2	86281.	63673.
#3	86348.	63717.

Approved: February 24, 2011

Sample Name: L1102057104SD Acquired: 2/23/2011 15:33:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-08

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22187**	**335.43**	**.22625**	**.49413**	**1.0357**	**.02366**	**7.7775**
Stddev	.00076	.87	.00231	.00893	.0020	.00007	.0197
%RSD	.34219	.25869	1.0220	1.8077	.19112	.27905	.25301
#1	.22245	336.39	.22524	.48705	1.0361	.02372	7.8000
#2	.22101	335.21	.22890	.50416	1.0336	.02359	7.7689
#3	.22215	334.69	.22461	.49118	1.0375	.02367	7.7636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02679**	**.15618**	**.81687**	**.61853**	**757.67**	**34.658**	**.55138**
Stddev	.00015	.00090	.00378	.01456	12.23	.119	.00166
%RSD	.54738	.57532	.46281	2.3542	1.6139	.34226	.30027
#1	.02671	.15663	.82102	.63295	751.13	34.584	.54950
#2	.02696	.15676	.81363	.60383	771.78	34.596	.55203
#3	.02669	.15514	.81597	.61880	750.11	34.795	.55262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.391**	**4.2328**	**.46213**	**23.553**	**.41481**	F **-52616.**	**.44732**
Stddev	.102	.0009	.00096	.087	.00058	76.	.00031
%RSD	.70791	.02197	.20727	.36787	.14073	.14390	.06842
#1	14.364	4.2320	.46316	23.561	.41530	-52677.	.44704
#2	14.306	4.2338	.46197	23.462	.41497	-52641.	.44727
#3	14.504	4.2324	.46126	23.635	.41416	-52531.	.44765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102057104SD Acquired: 2/23/2011 15:33:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-08

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-28.179**	F **147.06**	F **-8346.5**	**.52743**	**.14247**	F **669.53**	**.46927**
Stddev	8.657	.68	16.3	.00124	.00340	6.19	.00090
%RSD	30.720	.46460	.19479	.23506	2.3857	.92504	.19158
#1	-26.723	147.84	-8328.9	.52622	.13873	674.01	.47021
#2	-37.471	146.74	-8349.6	.52870	.14331	672.11	.46917
#3	-20.343	146.60	-8361.0	.52736	.14537	662.46	.46842
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46641**	**6.4302**	**.26301**	**2.0276**	**1.0562**	F **412.21**
Stddev	.00318	.0228	.00087	.0081	.0023	1.18
%RSD	.68272	.35397	.33180	.39789	.21398	.28512
#1	.46687	6.4246	.26332	2.0310	1.0576	413.30
#2	.46301	6.4107	.26369	2.0184	1.0574	410.96
#3	.46933	6.4552	.26203	2.0335	1.0536	412.36
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87447.**	**66004.**
Stddev	191.	163.
%RSD	.21867	.24636
#1	87279.	65877.
#2	87406.	66187.
#3	87655.	65947.

Approved: February 24, 2011

Sample Name: L1102057106 Acquired: 2/23/2011 15:37:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02471**	**334.99**	**.06764**	F **-.10345**	**.62545**	**.00613**	**4.3254**
Stddev	.00098	3.65	.00128	.00148	.00117	.00002	.0080
%RSD	3.9680	1.0909	1.8933	1.4318	.18756	.36585	.18376
#1	.02434	331.50	.06895	-.10459	.62573	.00612	4.3167
#2	.02582	338.78	.06757	-.10398	.62416	.00616	4.3275
#3	.02397	334.69	.06639	-.10178	.62645	.00612	4.3322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				90.000			
Low Limit				-.10000			

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00672**	**.20260**	**.61668**	**.43718**	**806.02**	**12.006**	**.11287**
Stddev	.00013	.00069	.00184	.00215	4.17	.066	.00331
%RSD	1.9020	.34000	.29774	.49161	.51790	.54765	2.9336
#1	.00672	.20181	.61700	.43485	803.43	11.933	.11627
#2	.00685	.20308	.61833	.43909	810.84	12.060	.10965
#3	.00659	.20290	.61470	.43760	803.80	12.026	.11270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.074**	**16.133**	**.01486**	**.20290**	**.21872**	F **-60963.**	**.38107**
Stddev	.021	.013	.00077	.00961	.00061	141.	.00310
%RSD	.20835	.08208	5.1751	4.7382	.27898	.23143	.81462
#1	10.055	16.128	.01397	.21337	.21803	-60810.	.38299
#2	10.070	16.149	.01532	.19448	.21896	-61087.	.37749
#3	10.097	16.124	.01528	.20085	.21917	-60993.	.38274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102057106 Acquired: 2/23/2011 15:37:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-29.228**	F **159.84**	F **-9283.2**	**.03017**	**.01519**	F **284.24**	**.02649**
Stddev	6.063	1.07	16.3	.00407	.00317	1.55	.00046
%RSD	20.744	.67031	.17541	13.482	20.845	.54705	1.7359
#1	-31.057	159.10	-9265.7	.02562	.01790	284.09	.02702
#2	-34.165	161.07	-9286.0	.03346	.01596	285.87	.02624
#3	-22.461	159.36	-9298.0	.03143	.01171	282.77	.02622
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03865**	**2.6256**	**.05994**	**1.5688**	**.69273**	F **443.57**
Stddev	.00002	.0003	.00176	.0068	.00186	3.95
%RSD	.04420	.01057	2.9384	.43402	.26779	.89024
#1	.03866	2.6256	.05791	1.5693	.69059	443.38
#2	.03866	2.6258	.06083	1.5753	.69372	447.61
#3	.03863	2.6253	.06108	1.5617	.69388	439.72
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87248.**	**66431.**
Stddev	325.	235.
%RSD	.37245	.35324
#1	87589.	66529.
#2	87215.	66164.
#3	86941.	66601.

Approved: February 24, 2011

Sample Name: L1102057105 Acquired: 2/23/2011 15:40:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02052**	**330.27**	**.06430**	F **-.13080**	**.60112**	**.00640**	**4.5650**
Stddev	.00045	3.01	.00300	.00302	.00119	.00001	.0199
%RSD	2.2052	.91065	4.6626	2.3074	.19747	.13857	.43505
#1	.02088	327.15	.06595	-.13196	.60086	.00640	4.5726
#2	.02001	330.53	.06084	-.12737	.60008	.00641	4.5424
#3	.02067	333.14	.06611	-.13306	.60242	.00640	4.5799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				90.000			
Low Limit				-.10000			

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00571**	**.06340**	**.60568**	**.44050**	**808.89**	**11.092**	**.10569**
Stddev	.00006	.00005	.00218	.00095	1.69	.010	.00119
%RSD	1.0574	.08263	.36062	.21511	.20876	.08858	1.1213
#1	.00575	.06335	.60551	.44157	807.08	11.101	.10697
#2	.00564	.06345	.60358	.43975	810.43	11.093	.10463
#3	.00574	.06341	.60794	.44019	809.17	11.082	.10546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5819**	**4.1588**	**.01253**	**.21132**	**.17427**	F **-54126.**	**.25354**
Stddev	.0248	.0060	.00031	.00643	.00057	108.	.00149
%RSD	.25911	.14414	2.4590	3.0449	.32847	.19931	.58722
#1	9.5999	4.1630	.01218	.20389	.17455	-54247.	.25453
#2	9.5536	4.1520	.01271	.21517	.17465	-54042.	.25426
#3	9.5923	4.1615	.01271	.21491	.17361	-54088.	.25183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102057105 Acquired: 2/23/2011 15:40:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-25.722**	F **175.44**	F **-10160.**	**.02897**	**.00785**	F **242.01**	**.02679**
Stddev	3.868	.32	29.	.00336	.00376	2.90	.00045
%RSD	15.039	.18388	.28978	11.608	47.939	1.2000	1.6796
#1	-23.166	175.46	-10194.	.02882	.00738	244.61	.02724
#2	-30.172	175.10	-10144.	.03240	.00434	242.56	.02634
#3	-23.828	175.75	-10141.	.02568	.01183	238.88	.02680
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03740**	**2.1365**	**.05476**	**1.5963**	**.65468**	F **468.25**
Stddev	.00007	.0028	.00063	.0070	.00103	5.47
%RSD	.19873	.13009	1.1457	.43774	.15663	1.1674
#1	.03734	2.1346	.05495	1.6021	.65566	474.28
#2	.03748	2.1353	.05406	1.5886	.65477	463.62
#3	.03738	2.1397	.05527	1.5983	.65362	466.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87585.**	**65428.**
Stddev	98.	240.
%RSD	.11133	.36633
#1	87480.	65158.
#2	87672.	65617.
#3	87604.	65509.

Approved: February 24, 2011

Sample Name: L1102057105PS Acquired: 2/23/2011 15:44:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357401-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21372**	**299.37**	**.25493**	**.76594**	**1.0378**	**.03004**	**9.1273**
Stddev	.00136	1.59	.00146	.00007	.0052	.00006	.0748
%RSD	.63706	.53060	.57343	.00858	.50331	.21132	.81947
#1	.21520	300.40	.25473	.76588	1.0350	.03011	9.0626
#2	.21251	300.18	.25358	.76601	1.0345	.02999	9.1101
#3	.21346	297.54	.25648	.76592	1.0438	.03001	9.2092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02912**	**.15435**	**.78491**	**.63751**	**735.84**	**35.052**	**.59445**
Stddev	.00015	.00057	.00192	.00938	2.65	.175	.00252
%RSD	.52629	.36897	.24454	1.4721	.35947	.49846	.42462
#1	.02908	.15500	.78522	.64832	732.91	34.943	.59171
#2	.02899	.15411	.78286	.63143	738.06	34.960	.59493
#3	.02929	.15394	.78666	.63278	736.55	35.254	.59669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.133**	**3.9805**	**.51865**	**25.960**	**.39813**	F **-49164.**	**.45590**
Stddev	.071	.0251	.00170	.149	.00207	137.	.00055
%RSD	.54194	.63183	.32851	.57381	.51958	.27851	.12082
#1	13.073	3.9605	.52005	25.883	.40047	-49226.	.45631
#2	13.116	3.9723	.51916	25.864	.39733	-49260.	.45612
#3	13.212	4.0087	.51675	26.131	.39658	-49008.	.45528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102057105PS Acquired: 2/23/2011 15:44:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357401-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-24.770**	F **165.59**	F **-9250.6**	**.59284**	**.19460**	F **553.09**	**.02522**
Stddev	1.710	.80	21.1	.00407	.00359	4.48	.00026
%RSD	6.9036	.48020	.22794	.68695	1.8446	.80987	1.0504
#1	-22.816	166.51	-9261.4	.59511	.19263	556.24	.02524
#2	-25.994	165.14	-9264.1	.59526	.19875	555.07	.02495
#3	-25.501	165.12	-9226.3	.58814	.19243	547.96	.02548
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51245**	**2.3968**	**.27668**	**1.9190**	**1.0752**	F **426.76**
Stddev	.00268	.0107	.00067	.0056	.0019	2.61
%RSD	.52374	.44491	.24213	.28972	.17898	.61244
#1	.51252	2.3893	.27672	1.9208	1.0767	424.49
#2	.50973	2.3920	.27599	1.9128	1.0760	426.18
#3	.51510	2.4090	.27733	1.9235	1.0731	429.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86719.**	**65691.**
Stddev	159.	85.
%RSD	.18372	.12996
#1	86881.	65666.
#2	86712.	65786.
#3	86563.	65620.

Approved: February 24, 2011

Sample Name: L1102057105SDL Acquired: 2/23/2011 15:48:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357401-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00345**	**83.908**	**.01471**	**-.03154**	**.11986**	**.00134**	**.90558**
Stddev	.00083	1.323	.00175	.00082	.00074	.00004	.01761
%RSD	24.026	1.5764	11.870	2.5841	.61526	3.3143	1.9441
#1	.00394	83.259	.01321	-.03242	.11958	.00138	.88527
#2	.00391	83.035	.01662	-.03141	.11931	.00136	.91645
#3	.00249	85.430	.01428	-.03080	.12070	.00129	.91502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**.01431**	**.13248**	**.10303**	**170.41**	**2.2357**	**.02620**
Stddev	.00005	.00028	.00054	.00142	1.11	.0438	.00252
%RSD	4.8584	1.9531	.41031	1.3812	.65049	1.9604	9.6310
#1	.00104	.01408	.13307	.10207	169.38	2.2753	.02452
#2	.00114	.01422	.13199	.10466	170.28	2.1886	.02498
#3	.00105	.01462	.13239	.10235	171.58	2.2434	.02910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9987**	**.84884**	**.00250**	**.06873**	**.03908**	F **-12077.**	**.05535**
Stddev	.0256	.00311	.00031	.00909	.00083	118.	.00129
%RSD	1.2792	.36625	12.337	13.230	2.1337	.97839	2.3307
#1	1.9840	.84590	.00228	.07684	.03871	-11982.	.05388
#2	2.0282	.84853	.00236	.07046	.03849	-12039.	.05590
#3	1.9837	.85209	.00285	.05890	.04003	-12209.	.05628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102057105SDL Acquired: 2/23/2011 15:48:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357401-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-11.558**	F **39.307**	F **-2251.6**	**.00749**	**.00354**	**52.365**	**.00560**
Stddev	3.268	.303	41.4	.00287	.00145	.473	.00013
%RSD	28.278	.77101	1.8382	38.394	40.790	.90350	2.3582
#1	-10.950	39.029	-2213.6	.00428	.00497	52.214	.00568
#2	-15.088	39.262	-2245.7	.00983	.00208	52.896	.00544
#3	-8.6366	39.630	-2295.7	.00835	.00358	51.986	.00566
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00759**	**.42537**	**.01418**	**.34026**	**.14410**	F **83.783**
Stddev	.00002	.00252	.00044	.00189	.00200	1.171
%RSD	.30843	.59188	3.0992	.55653	1.3879	1.3973
#1	.00760	.42295	.01402	.34245	.14194	84.946
#2	.00757	.42519	.01385	.33928	.14446	83.797
#3	.00761	.42798	.01468	.33906	.14589	82.605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93793.**	**65912.**
Stddev	475.	634.
%RSD	.50606	.96165
#1	94180.	65955.
#2	93263.	66523.
#3	93936.	65257.

Approved: February 24, 2011

Sample Name: L1102057105SDL Acquired: 2/23/2011 15:51:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357401-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**18.504**	**.00389**	**-.00582**	**.02510**	**.00027**	**.17807**
Stddev	.00076	.131	.00108	.00033	.00017	.00001	.01202
%RSD	583.98	.70528	27.653	5.6025	.67583	4.5677	6.7482
#1	.00078	18.461	.00352	-.00563	.02496	.00026	.18106
#2	-.00071	18.650	.00510	-.00564	.02529	.00026	.18831
#3	.00033	18.400	.00304	-.00620	.02505	.00028	.16484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00311**	**.02637**	**.01806**	**35.314**	**.43276**	**.01369**
Stddev	.00006	.00008	.00037	.00031	.023	.02046	.00274
%RSD	46.805	2.4155	1.3977	1.6941	.06399	4.7267	20.042
#1	.00013	.00318	.02625	.01813	35.288	.44015	.01090
#2	.00020	.00303	.02678	.01773	35.327	.40964	.01377
#3	.00008	.00311	.02607	.01833	35.328	.44849	.01639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42561**	**.17675**	**.00039**	**.03711**	**.00806**	F **-2442.5**	**.01098**
Stddev	.01622	.00042	.00009	.00269	.00037	7.6	.00078
%RSD	3.8117	.23624	21.751	7.2398	4.5891	.31033	7.0919
#1	.44416	.17638	.00049	.03563	.00849	-2437.8	.01188
#2	.41412	.17720	.00036	.04021	.00780	-2438.4	.01056
#3	.41854	.17667	.00033	.03549	.00790	-2451.2	.01051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102057105SDL Acquired: 2/23/2011 15:51:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357401-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-14.418**	**7.8162**	F **-454.49**	**-.00157**	**.00246**	**9.5750**	**.00082**
Stddev	2.480	.0619	3.13	.00127	.00176	.1495	.00035
%RSD	17.201	.79228	.68910	81.003	71.568	1.5617	42.373
#1	-12.484	7.8697	-451.57	-.00056	.00212	9.5946	.00078
#2	-13.555	7.7484	-454.11	-.00300	.00089	9.7138	.00118
#3	-17.214	7.8304	-457.80	-.00114	.00437	9.4167	.00049
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00158**	**.08813**	**.00579**	**.06911**	**.02936**	**13.037**
Stddev	.00007	.00140	.00019	.00027	.00004	.182
%RSD	4.3841	1.5918	3.2910	.38932	.12210	1.3962
#1	.00163	.08873	.00560	.06880	.02940	13.190
#2	.00151	.08913	.00580	.06921	.02934	12.836
#3	.00162	.08652	.00598	.06931	.02935	13.086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**95415.**	**67073.**
Stddev	149.	316.
%RSD	.15627	.47167
#1	95257.	67154.
#2	95553.	66724.
#3	95436.	67340.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 15:55:27 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40627**	**10.024**	**.39593**	**.50013**	**.97936**	**.04872**	**9.8134**
Stddev	.00191	.061	.00163	.00370	.00166	.00018	.0269
%RSD	.46903	.61077	.41200	.73920	.16964	.36052	.27435
#1	.40459	9.9648	.39746	.49625	.97744	.04855	9.8323
#2	.40587	10.021	.39422	.50053	.98041	.04870	9.7826
#3	.40834	10.087	.39612	.50361	.98022	.04890	9.8252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04885**	**.19936**	**.50297**	**.48834**	**3.8165**	**49.592**	**.99988**
Stddev	.00004	.00050	.00238	.00069	.0206	.053	.00129
%RSD	.08766	.24910	.47327	.14048	.54048	.10710	.12864
#1	.04888	.19890	.50044	.48755	3.8379	49.568	1.0002
#2	.04888	.19989	.50330	.48883	3.8148	49.653	1.0010
#3	.04880	.19929	.50516	.48863	3.7967	49.555	.99848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.1929**	**.46652**	**.98498**	**49.827**	**.49747**	F **-12.812**	**.48666**
Stddev	.0344	.00121	.00081	.082	.00016	22.394	.00191
%RSD	.37452	.25902	.08194	.16384	.03151	174.79	.39211
#1	9.1768	.46624	.98456	49.739	.49737	13.039	.48842
#2	9.2325	.46784	.98591	49.842	.49765	-26.271	.48463
#3	9.1695	.46547	.98447	49.900	.49740	-25.204	.48694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 15:55:27 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-20.169**	**9.9760**	F **12.811**	**1.1972**	**.39355**	F **3.7864**	**.99683**
Stddev	10.954	.0773	6.197	.0017	.00155	.1202	.00092
%RSD	54.311	.77465	48.371	.13868	.39260	3.1743	.09224
#1	-17.141	9.9005	14.592	1.1988	.39410	3.7887	.99678
#2	-32.318	9.9726	17.923	1.1973	.39180	3.6650	.99777
#3	-11.047	10.055	5.9190	1.1955	.39474	3.9053	.99593
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95422**	**.94812**	**.50287**	**.99991**	**.98017**	F **11.445**
Stddev	.00380	.00181	.00117	.00531	.00121	1.011
%RSD	.39787	.19128	.23254	.53123	.12350	8.8328
#1	.94985	.94655	.50415	.99437	.97882	10.435
#2	.95678	.95011	.50262	1.0004	.98054	11.442
#3	.95601	.94771	.50185	1.0050	.98116	12.457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90503.**	**65504.**
Stddev	316.	235.
%RSD	.34958	.35823
#1	90868.	65679.
#2	90322.	65237.
#3	90317.	65595.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 15:58:58 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00191**	**.00415**	**.00012**	**.00166**	**.00035**	**.00002**	**-.00133**
Stddev	.00085	.00176	.00150	.00030	.00014	.00005	.01476
%RSD	44.441	42.475	1234.0	18.165	38.886	228.82	1106.8
#1	-.00141	.00519	-.00128	.00150	.00051	-.00001	-.00316
#2	-.00143	.00514	.00169	.00148	.00031	.00009	-.01509
#3	-.00289	.00211	-.00005	.00201	.00025	.00000	.01425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00014**	**.00042**	**.00039**	**.00553**	**.00454**	**.00875**
Stddev	.00010	.00020	.00054	.00052	.00236	.05597	.00133
%RSD	252.84	149.90	129.44	133.57	42.687	1233.2	15.170
#1	.00014	.00004	.00045	-.00017	.00299	-.05962	.00895
#2	-.00006	-.00036	-.00014	.00086	.00766	.02986	.00998
#3	.00004	-.00008	.00094	.00048	.00593	.04337	.00734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00001**	**.00061**	**.05344**	**.00105**	F **4.4238**	**.00038**
Stddev	.00992	.00034	.00008	.01507	.00051	1.5180	.00155
%RSD	3499.8	2490.5	12.617	28.204	48.610	34.315	403.01
#1	-.00393	.00038	.00069	.04492	.00082	2.6718	-.00108
#2	.01161	-.00030	.00054	.04456	.00069	5.2503	.00022
#3	-.00683	-.00005	.00058	.07085	.00164	5.3492	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 15:58:58 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-19.795**	F **.11718**	F **-1.6082**	**-.00168**	**.00326**	**-.31962**	**.00019**
Stddev	7.319	.02101	1.9580	.00062	.00093	.14598	.00010
%RSD	36.971	17.933	121.75	36.624	28.503	45.674	51.656
#1	-13.499	.14058	-2.1503	-.00146	.00425	-.23821	.00030
#2	-18.062	.09993	-3.2380	-.00121	.00241	-.48815	.00016
#3	-27.824	.11103	.56376	-.00238	.00311	-.23249	.00011
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00084**	**.00136**	**.00040**	**.00008**	F **.38504**
Stddev	.00005	.00113	.00054	.00025	.00011	.26762
%RSD	35.347	134.21	40.192	62.613	145.67	69.504
#1	.00021	.00176	.00111	.00069	.00020	.50040
#2	.00011	.00119	.00098	.00024	-.00003	.57563
#3	.00013	-.00042	.00198	.00027	.00007	.07909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91795.**	**66441.**
Stddev	774.	709.
%RSD	.84316	1.0675
#1	92655.	65812.
#2	91154.	66301.
#3	91577.	67209.

Approved: February 24, 2011

Sample Name: L1102057107 Acquired: 2/23/2011 16:02:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01203**	**331.35**	**.05117**	**-.09887**	**1.0089**	**.00736**
Stddev	.00025	3.46	.00105	.00078	.0021	.00006
%RSD	2.0741	1.0450	2.0468	.79099	.20518	.78808
#1	.01223	328.58	.05207	-.09803	1.0067	.00729
#2	.01210	335.23	.05142	-.09958	1.0107	.00739
#3	.01175	330.23	.05002	-.09900	1.0094	.00739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.188**	**.06575**	**.12507**	**.82127**	**.41988**	**656.14**
Stddev	.175	.00004	.00012	.00383	.00613	4.21
%RSD	.60068	.05396	.09495	.46684	1.4609	.64122
#1	28.988	.06574	.12520	.81792	.42695	651.32
#2	29.316	.06572	.12503	.82545	.41588	659.04
#3	29.259	.06579	.12497	.82045	.41683	658.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.013**	**.12832**	**25.084**	**8.4150**	**.01187**	**1.0030**
Stddev	.011	.00142	.086	.0400	.00015	.0180
%RSD	.04730	1.1043	.34473	.47560	1.2371	1.7978
#1	23.003	.12960	25.001	8.3688	.01172	.98225
#2	23.012	.12680	25.173	8.4385	.01202	1.0147
#3	23.025	.12855	25.077	8.4378	.01187	1.0121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102057107 Acquired: 2/23/2011 16:02:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21019**	F **-459140.**	**.39329**	F **-31.721**	F **45.457**	F **-1022.7**
Stddev	.00153	1096.	.00366	4.863	.076	6.5
%RSD	.72996	.23864	.93119	15.332	.16826	.64042
#1	.21079	-460120.	.39706	-26.763	45.539	-1028.9
#2	.21134	-459350.	.39305	-36.484	45.443	-1023.4
#3	.20845	-457960.	.38975	-31.917	45.388	-1015.8
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28415**	**.00417**	F **213.72**	**.02335**	**.35703**	**3.6488**
Stddev	.00147	.00196	3.64	.00012	.00044	.0114
%RSD	.51598	47.081	1.7050	.53502	.12278	.31113
#1	.28445	.00533	216.25	.02336	.35741	3.6358
#2	.28545	.00527	215.37	.02322	.35712	3.6564
#3	.28256	.00190	209.55	.02346	.35655	3.6543
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.03260**	**1.2958**	**1.7530**	F **334.65**
Stddev	.00142	.0057	.0019	2.86
%RSD	4.3634	.43726	.10980	.85347
#1	.03097	1.2919	1.7550	335.40
#2	.03358	1.3023	1.7529	337.05
#3	.03326	1.2932	1.7512	331.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102057107 Acquired: 2/23/2011 16:02:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87400.**	**65243.**
Stddev	375.	42.
%RSD	.42851	.06487
#1	87708.	65289.
#2	87509.	65234.
#3	86983.	65205.

Approved: February 24, 2011

Sample Name: L1102057108 Acquired: 2/23/2011 16:06:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02342**	**246.72**	**.03305**	**-.08427**	**.94270**	**.00546**
Stddev	.00026	1.20	.00325	.00622	.00057	.00006
%RSD	1.0920	.48683	9.8240	7.3798	.05995	1.1412
#1	.02329	245.33	.03557	-.08278	.94204	.00549
#2	.02371	247.45	.03420	-.07894	.94305	.00539
#3	.02325	247.37	.02939	-.09110	.94300	.00550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.751**	**.00743**	**.23185**	**.42838**	**.39331**	**572.06**
Stddev	.027	.00008	.00059	.00349	.00530	4.51
%RSD	.19906	1.0475	.25501	.81513	1.3475	.78795
#1	13.723	.00734	.23130	.42632	.38820	574.04
#2	13.753	.00746	.23248	.42640	.39294	575.24
#3	13.777	.00749	.23178	.43241	.39878	566.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.033**	**.11518**	**30.742**	**10.332**	**.00950**	**.56481**
Stddev	.138	.00029	.198	.032	.00030	.00282
%RSD	.47447	.24856	.64334	.30869	3.1490	.49861
#1	28.906	.11527	30.563	10.295	.00983	.56243
#2	29.013	.11541	30.709	10.348	.00939	.56409
#3	29.180	.11486	30.954	10.353	.00926	.56792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102057108 Acquired: 2/23/2011 16:06:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21607**	F **-114400.**	**.27964**	F **-29.665**	F **25.381**	F **-668.74**
Stddev	.00092	128.	.00328	.939	.083	2.55
%RSD	.42571	.11214	1.1715	3.1642	.32872	.38109
#1	.21572	-114550.	.28093	-30.742	25.303	-667.44
#2	.21712	-114300.	.28207	-29.021	25.469	-671.67
#3	.21538	-114360.	.27592	-29.232	25.370	-667.09
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09814**	**.00119**	F **203.06**	**.02066**	**.05862**	**4.5573**
Stddev	.00469	.00242	2.17	.00031	.00011	.0255
%RSD	4.7816	203.28	1.0680	1.5237	.18230	.55962
#1	.10344	.00398	203.70	.02058	.05870	4.5324
#2	.09451	-.00002	204.83	.02101	.05867	4.5560
#3	.09647	-.00039	200.64	.02040	.05850	4.5834
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.03956**	**1.2311**	**.78378**	F **257.99**
Stddev	.00096	.0082	.00100	.38
%RSD	2.4388	.66798	.12807	.14598
#1	.03870	1.2257	.78366	258.04
#2	.04061	1.2271	.78484	257.59
#3	.03937	1.2406	.78284	258.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102057108 Acquired: 2/23/2011 16:06:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87569.**	**65571.**
Stddev	53.	168.
%RSD	.06033	.25662
#1	87598.	65718.
#2	87601.	65608.
#3	87508.	65387.

Approved: February 24, 2011

Sample Name: L1102057109 Acquired: 2/23/2011 16:10:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03126**	**292.79**	**.04033**	F **-.10766**	**.84729**	**.00515**	**16.322**
Stddev	.00016	2.77	.00207	.00611	.00090	.00006	.040
%RSD	.51643	.94661	5.1444	5.6740	.10619	1.0888	.24250
#1	.03145	295.98	.03978	-.11416	.84783	.00518	16.348
#2	.03117	291.38	.03858	-.10678	.84778	.00509	16.342
#3	.03116	291.00	.04262	-.10204	.84625	.00519	16.276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				90.000			
Low Limit				-.10000			

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00757**	**.08537**	**.33500**	**.43708**	**675.62**	**29.707**	**.10060**
Stddev	.00011	.00029	.00428	.01298	7.72	.069	.00132
%RSD	1.3966	.33766	1.2784	2.9708	1.1429	.23248	1.3169
#1	.00746	.08559	.33982	.44682	673.44	29.785	.10060
#2	.00758	.08547	.33356	.44209	669.22	29.657	.10193
#3	.00767	.08504	.33162	.42234	684.20	29.678	.09928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.624**	**3.8708**	**.01123**	**.65272**	**.17031**	F **-60327.**	**.29377**
Stddev	.066	.0025	.00058	.00617	.00206	145.	.00212
%RSD	.22213	.06537	5.1758	.94558	1.2082	.24005	.72200
#1	29.669	3.8735	.01177	.64559	.17163	-60427.	.29306
#2	29.655	3.8685	.01130	.65614	.17136	-60393.	.29209
#3	29.549	3.8704	.01062	.65641	.16794	-60161.	.29615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102057109 Acquired: 2/23/2011 16:10:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-30.984**	F **37.274**	F **-1258.6**	**.08589**	**-.00135**	F **266.51**	**.02377**
Stddev	1.961	.124	6.5	.00267	.00290	7.63	.00048
%RSD	6.3275	.33192	.51966	3.1113	215.52	2.8641	2.0111
#1	-29.877	37.366	-1263.3	.08608	.00007	270.86	.02335
#2	-29.827	37.322	-1261.3	.08846	.00058	270.98	.02429
#3	-33.248	37.133	-1251.1	.08313	-.00469	257.70	.02368
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14132**	**5.0104**	**.04604**	**1.3830**	**.81058**	F **392.84**
Stddev	.00028	.0066	.00231	.0132	.00187	5.81
%RSD	.19741	.13264	5.0205	.95134	.23070	1.4802
#1	.14131	5.0067	.04859	1.3980	.81202	399.55
#2	.14161	5.0181	.04408	1.3735	.81127	389.57
#3	.14105	5.0064	.04545	1.3774	.80847	389.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87027.**	**65175.**
Stddev	60.	449.
%RSD	.06892	.68832
#1	86971.	64674.
#2	87091.	65312.
#3	87020.	65540.

Approved: February 24, 2011

Sample Name: L1102057110 Acquired: 2/23/2011 16:13:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03987**	**311.19**	**.03295**	F **-.10758**	**.88047**	**.00388**	**11.437**
Stddev	.00058	1.23	.00157	.00158	.00238	.00007	.027
%RSD	1.4594	.39503	4.7530	1.4719	.26996	1.7712	.23531
#1	.03928	309.88	.03459	-.10746	.87814	.00381	11.406
#2	.03988	311.37	.03147	-.10606	.88037	.00389	11.454
#3	.04045	312.32	.03279	-.10922	.88289	.00394	11.451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				90.000			
Low Limit				-.10000			

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00896**	**.14374**	**.33315**	**.44084**	**685.71**	**35.906**	**.11167**
Stddev	.00013	.00022	.00303	.00972	10.57	.047	.00111
%RSD	1.4260	.15446	.90957	2.2059	1.5418	.12958	.98958
#1	.00898	.14363	.32994	.44880	674.32	35.875	.11292
#2	.00883	.14359	.33356	.43000	695.20	35.883	.11126
#3	.00908	.14399	.33596	.44372	687.60	35.959	.11082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.480**	**5.7330**	**.01035**	**.51956**	**.19366**	F **-79831.**	**.30841**
Stddev	.101	.0168	.00020	.01170	.00081	165.	.00282
%RSD	.31231	.29223	1.9593	2.2522	.41743	.20730	.91443
#1	32.419	5.7150	.01024	.50609	.19392	-79727.	.30780
#2	32.424	5.7360	.01058	.52538	.19276	-79745.	.30595
#3	32.597	5.7481	.01022	.52720	.19431	-80022.	.31149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102057110 Acquired: 2/23/2011 16:13:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-34.620**	F **33.462**	F **-1281.7**	**.26002**	**.00091**	F **289.81**	**.02456**
Stddev	3.803	.167	5.0	.00496	.00259	5.97	.00043
%RSD	10.984	.49986	.39169	1.9057	282.76	2.0601	1.7701
#1	-31.207	33.277	-1275.9	.26432	-.00198	292.33	.02444
#2	-33.934	33.507	-1284.9	.25460	.00173	294.11	.02504
#3	-38.719	33.603	-1284.3	.26113	.00300	283.00	.02420
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07473**	**6.4441**	**.04888**	**1.3935**	**.92827**	F **332.23**
Stddev	.00038	.0192	.00083	.0127	.00222	2.49
%RSD	.51506	.29761	1.7078	.91377	.23901	.74891
#1	.07436	6.4360	.04793	1.3788	.92620	329.47
#2	.07471	6.4304	.04947	1.4013	.92798	334.30
#3	.07512	6.4661	.04925	1.4004	.93061	332.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87710.**	**65143.**
Stddev	125.	338.
%RSD	.14227	.51942
#1	87818.	65505.
#2	87738.	64834.
#3	87573.	65091.

Approved: February 24, 2011

Sample Name: L1102057111 Acquired: 2/23/2011 16:17:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03712**	**222.80**	**.02831**	F **-.36622**	**1.4974**	**.00756**
Stddev	.00068	2.53	.00155	.02186	.0348	.00005
%RSD	1.8281	1.1353	5.4743	5.9697	2.3253	.63440
#1	.03667	225.48	.02882	-.36182	1.4781	.00757
#2	.03678	220.46	.02954	-.38994	1.4765	.00751
#3	.03790	222.47	.02657	-.34689	1.5376	.00761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.000		
Low Limit				-.10000		

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.581**	**.02848**	**.78707**	**.94837**	**.80066**	F **1698.0**
Stddev	.228	.00022	.00284	.00548	.05452	44.2
%RSD	2.1535	.76010	.36050	.57822	6.8089	2.6012
#1	10.463	.02853	.78762	.94907	.79784	1707.5
#2	10.437	.02825	.78959	.94257	.85653	1649.8
#3	10.844	.02867	.78400	.95347	.74760	1736.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						900.00
Low Limit						-.02000

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.218**	**.06300**	**10.753**	**35.194**	**-.00421**	**.65285**
Stddev	.255	.00143	.267	.819	.00021	.01437
%RSD	2.2699	2.2679	2.4832	2.3281	4.9017	2.2009
#1	11.057	.06460	10.588	34.746	-.00443	.63965
#2	11.085	.06184	10.611	34.697	-.00403	.65076
#3	11.512	.06255	11.061	36.140	-.00416	.66816
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102057111 Acquired: 2/23/2011 16:17:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13636**	F **-135580.**	**.54636**	F **-27.627**	F **51.672**	F **-2319.9**
Stddev	.00385	329.	.00162	2.867	.137	3.7
%RSD	2.8241	.24286	.29618	10.379	.26541	.15998
#1	.13384	-135510.	.54545	-24.634	51.597	-2318.1
#2	.14079	-135940.	.54823	-27.898	51.831	-2317.3
#3	.13444	-135290.	.54540	-30.349	51.590	-2324.1
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10251**	**.01700**	F **570.10**	**.02444**	**.06290**	**5.0578**
Stddev	.00520	.00239	12.20	.00059	.00135	.1311
%RSD	5.0771	14.041	2.1390	2.4261	2.1417	2.5930
#1	.10299	.01424	577.23	.02435	.06202	4.9794
#2	.10745	.01838	577.06	.02390	.06222	4.9848
#3	.09708	.01837	556.02	.02508	.06445	5.2092
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.06085**	**.99193**	**1.1015**	F **75.992**
Stddev	.00098	.00629	.0015	1.190
%RSD	1.6066	.63440	.13750	1.5656
#1	.06104	.99329	1.1027	75.361
#2	.06171	.98507	1.1019	75.250
#3	.05979	.99743	1.0998	77.364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102057111 Acquired: 2/23/2011 16:17:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85116.**	**64694.**
Stddev	305.	410.
%RSD	.35842	.63385
#1	84764.	64837.
#2	85276.	65013.
#3	85308.	64231.

Approved: February 24, 2011

Sample Name: L1102057112 Acquired: 2/23/2011 16:21:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01886**	**394.28**	**.07705**	F **-.14061**	**.71002**	**.00864**
Stddev	.00035	2.73	.00514	.00627	.00171	.00006
%RSD	1.8444	.69162	6.6772	4.4613	.24086	.64675
#1	.01926	391.22	.07179	-.13401	.71041	.00862
#2	.01867	395.16	.07729	-.14650	.71151	.00871
#3	.01864	396.46	.08207	-.14130	.70815	.00860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.000		
Low Limit				-.10000		

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.9893**	**.03897**	**.05725**	**.64798**	**.55314**	**842.62**
Stddev	.0297	.00008	.00020	.00511	.00738	7.81
%RSD	.33048	.19573	.34185	.78892	1.3350	.92683
#1	9.0133	.03903	.05722	.64640	.54992	851.56
#2	8.9985	.03900	.05746	.65369	.56159	837.12
#3	8.9561	.03888	.05707	.64384	.54791	839.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.886**	**.17670**	**17.579**	**2.4456**	**.01971**	**1.4910**
Stddev	.081	.00292	.024	.0050	.00021	.0151
%RSD	.48115	1.6513	.13854	.20222	1.0886	1.0106
#1	16.933	.17994	17.551	2.4493	.01949	1.4781
#2	16.933	.17586	17.594	2.4476	.01992	1.4873
#3	16.792	.17429	17.592	2.4400	.01973	1.5076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102057112 Acquired: 2/23/2011 16:21:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18819**	F **-632380.**	**.34315**	F **-35.319**	F **32.941**	F **-1393.7**
Stddev	.00045	632.	.00142	11.633	.077	7.2
%RSD	.23863	.09994	.41346	32.935	.23278	.51321
#1	.18869	-632980.	.34464	-45.973	33.024	-1385.6
#2	.18809	-632440.	.34297	-22.908	32.927	-1399.3
#3	.18781	-631720.	.34182	-37.078	32.872	-1396.0
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06222**	**-.00080**	F **324.87**	**.03096**	**.02154**	**1.9061**
Stddev	.00267	.00401	6.52	.00040	.00012	.0032
%RSD	4.2837	502.81	2.0085	1.2968	.54163	.16592
#1	.06488	.00235	329.33	.03086	.02165	1.9082
#2	.06221	.00057	327.89	.03062	.02155	1.9025
#3	.05955	-.00531	317.38	.03141	.02142	1.9076
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.05734**	**1.7742**	**1.0622**	F **485.30**
Stddev	.00103	.0126	.0029	4.72
%RSD	1.8003	.71128	.27423	.97357
#1	.05852	1.7660	1.0641	486.68
#2	.05691	1.7887	1.0638	489.18
#3	.05659	1.7678	1.0589	480.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102057112 Acquired: 2/23/2011 16:21:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87158.**	**66184.**
Stddev	181.	441.
%RSD	.20764	.66689
#1	87095.	66354.
#2	87016.	65682.
#3	87361.	66515.

Approved: February 24, 2011

Sample Name: L1102057113 Acquired: 2/23/2011 16:24:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01614**	**303.03**	**.08245**	F **-.12298**	**1.0911**	**.00873**	**4.7282**
Stddev	.00029	5.59	.00179	.00930	.0010	.00008	.0053
%RSD	1.8141	1.8458	2.1734	7.5600	.08938	.96647	.11140
#1	.01598	309.48	.08100	-.13358	1.0909	.00882	4.7304
#2	.01648	300.11	.08191	-.11915	1.0903	.00866	4.7320
#3	.01596	299.50	.08445	-.11621	1.0922	.00870	4.7222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				90.000			
Low Limit				-.10000			

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00254**	**.12597**	**.54761**	**.44421**	**738.37**	**9.0157**	**.12612**
Stddev	.00015	.00022	.00680	.00921	4.74	.0326	.00173
%RSD	5.7832	.17588	1.2409	2.0737	.64163	.36143	1.3692
#1	.00237	.12602	.55545	.45045	733.31	9.0056	.12617
#2	.00262	.12572	.54387	.44854	739.09	9.0521	.12782
#3	.00264	.12616	.54350	.43363	742.70	8.9894	.12437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.4775**	**12.773**	**.01685**	**.24324**	**.14046**	F **-58482.**	**.25744**
Stddev	.0188	.007	.00058	.00882	.00017	121.	.00102
%RSD	.22145	.05287	3.4407	3.6268	.12127	.20763	.39576
#1	8.4948	12.765	.01618	.24660	.14063	-58597.	.25684
#2	8.4576	12.779	.01722	.24989	.14046	-58493.	.25862
#3	8.4802	12.773	.01715	.23323	.14029	-58355.	.25687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102057113 Acquired: 2/23/2011 16:24:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-34.565**	F **166.49**	F **-9467.0**	**.01725**	**.00533**	F **266.23**	**.02373**
Stddev	5.930	.51	12.5	.00317	.00176	4.38	.00040
%RSD	17.155	.30356	.13186	18.359	32.985	1.6465	1.6803
#1	-40.884	166.19	-9453.0	.01360	.00431	268.63	.02331
#2	-33.689	167.08	-9471.2	.01927	.00432	268.90	.02410
#3	-29.122	166.22	-9476.9	.01888	.00736	261.17	.02379
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04416**	**1.3779**	**.05439**	**1.4473**	**.53230**	F **589.65**
Stddev	.00008	.0042	.00157	.0155	.00043	5.99
%RSD	.19169	.30615	2.8818	1.0724	.08034	1.0156
#1	.04418	1.3797	.05616	1.4653	.53236	596.53
#2	.04424	1.3810	.05382	1.4383	.53184	586.81
#3	.04407	1.3731	.05318	1.4384	.53269	585.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87526.**	**65575.**
Stddev	207.	764.
%RSD	.23594	1.1653
#1	87311.	64740.
#2	87723.	66240.
#3	87544.	65743.

Approved: February 24, 2011

Sample Name: L1102031801 Acquired: 2/23/2011 16:28:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06841**	**85.852**	**.05690**	**.23409**	**.87126**	F **-.00707**
Stddev	.00070	.516	.00124	.00188	.00094	.00012
%RSD	1.0254	.60071	2.1794	.80316	.10804	1.7592
#1	.06922	85.314	.05563	.23326	.87113	-.00697
#2	.06802	85.900	.05811	.23624	.87039	-.00721
#3	.06799	86.342	.05697	.23276	.87226	-.00702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.00050

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2231.7**	**.00787**	**.27299**	**.78190**	**.52284**	**319.49**
Stddev	7.8	.00018	.00143	.00027	.00198	.16
%RSD	.35044	2.3209	.52435	.03462	.37829	.04872
#1	2228.8	.00805	.27391	.78193	.52327	319.32
#2	2240.5	.00768	.27371	.78216	.52456	319.52
#3	2225.6	.00786	.27134	.78162	.52068	319.63
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.737**	**.14342**	**215.20**	**8.5113**	**.00332**	**26.938**
Stddev	.101	.00174	.54	.0107	.00043	.026
%RSD	.54019	1.2153	.24931	.12510	12.942	.09519
#1	18.654	.14279	215.75	8.4990	.00376	26.934
#2	18.706	.14208	215.17	8.5170	.00330	26.915
#3	18.850	.14539	214.68	8.5178	.00290	26.966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102031801 Acquired: 2/23/2011 16:28:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2115**	F **-225960.**	**.44280**	F **-33.740**	F **4069.2**	F **-36010.**
Stddev	.0048	1148.	.00511	.887	8.7	123.
%RSD	.39569	.50826	1.1538	2.6282	.21284	.34194
#1	1.2134	-226660.	.44512	-34.439	4071.8	-36128.
#2	1.2150	-226570.	.44635	-34.039	4076.3	-36020.
#3	1.2060	-224630.	.43695	-32.743	4059.6	-35882.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01884**	**.01390**	F **238.02**	**.03140**	F **33.507**	**10.349**
Stddev	.00356	.00290	1.53	.00043	.173	.026
%RSD	18.896	20.880	.64238	1.3542	.51762	.24858
#1	.01912	.01688	238.97	.03184	33.339	10.378
#2	.01514	.01372	238.84	.03137	33.497	10.336
#3	.02224	.01109	236.26	.03100	33.686	10.332
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit			90.000		4.5000	
Low Limit			-1.0000		-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.03608**	**.75083**	**3.1031**	F **286.05**
Stddev	.00129	.00104	.0129	2.07
%RSD	3.5892	.13792	.41408	.72455
#1	.03752	.75200	3.1100	284.29
#2	.03569	.75002	3.1109	285.53
#3	.03502	.75048	3.0882	288.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102031801 Acquired: 2/23/2011 16:28:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76802.**	**62344.**
Stddev	146.	54.
%RSD	.18982	.08684
#1	76838.	62282.
#2	76926.	62372.
#3	76641.	62379.

Approved: February 24, 2011

Sample Name: L1102031802 Acquired: 2/23/2011 16:32:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06575**	**90.375**	**.05505**	**.22600**	**1.0057**	F **-.00494**
Stddev	.00069	.394	.00084	.00154	.0009	.00002
%RSD	1.0531	.43544	1.5319	.68156	.08906	.39785
#1	.06618	89.928	.05564	.22606	1.0049	-.00493
#2	.06495	90.524	.05408	.22442	1.0066	-.00493
#3	.06611	90.671	.05542	.22750	1.0055	-.00497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.00050

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2191.6**	**.00752**	**.31102**	**.83711**	**.51810**	**338.68**
Stddev	24.1	.00021	.00269	.00284	.00848	.80
%RSD	1.0975	2.7288	.86604	.33983	1.6365	.23503
#1	2169.9	.00776	.31221	.83531	.52119	338.24
#2	2187.5	.00740	.31291	.84039	.52459	339.60
#3	2217.5	.00740	.30793	.83563	.50851	338.21
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.104**	**.14194**	**194.10**	**10.003**	**.00456**	**29.078**
Stddev	.035	.00243	.39	.007	.00026	.068
%RSD	.14515	1.7116	.20272	.06510	5.8090	.23477
#1	24.130	.14194	194.38	10.000	.00435	29.033
#2	24.064	.13951	193.65	10.010	.00448	29.157
#3	24.116	.14437	194.27	9.9982	.00486	29.044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102031802 Acquired: 2/23/2011 16:32:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0737**	F **-206950.**	**.48749**	F **-33.897**	F **4031.7**	F **-38205.**
Stddev	.0086	1441.	.00399	3.411	30.0	206.
%RSD	.80590	.69642	.81847	10.064	.74412	.53881
#1	1.0767	-207770.	.48854	-30.814	4042.7	-38400.
#2	1.0805	-207780.	.49086	-33.316	4054.7	-38226.
#3	1.0640	-205280.	.48309	-37.562	3997.8	-37990.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02047**	**.01668**	F **213.89**	**.03846**	F **32.022**	**9.6233**
Stddev	.00233	.00367	1.15	.00046	.308	.0315
%RSD	11.396	21.977	.53835	1.2029	.96144	.32699
#1	.01778	.01704	214.93	.03871	31.666	9.6418
#2	.02160	.02015	214.09	.03874	32.203	9.5870
#3	.02201	.01284	212.65	.03792	32.196	9.6412
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit			90.000		4.5000	
Low Limit			-1.0000		-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.03495**	**.84287**	**1.7900**	F **293.40**
Stddev	.00049	.00538	.0131	2.38
%RSD	1.4130	.63802	.72908	.81103
#1	.03546	.83735	1.7952	290.65
#2	.03492	.84809	1.7997	294.85
#3	.03447	.84318	1.7752	294.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102031802 Acquired: 2/23/2011 16:32:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**77486.**	**63260.**
Stddev	159.	211.
%RSD	.20472	.33376
#1	77636.	63406.
#2	77320.	63018.
#3	77502.	63356.

Approved: February 24, 2011

Sample Name: L1102031803 Acquired: 2/23/2011 16:36:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08355**	**110.31**	**.05728**	**.23175**	**1.1504**	F **-.00679**
Stddev	.00065	1.93	.00130	.00070	.0011	.00003
%RSD	.77355	1.7515	2.2679	.30242	.09341	.41387
#1	.08347	108.50	.05790	.23165	1.1500	-.00682
#2	.08294	110.08	.05816	.23250	1.1516	-.00676
#3	.08423	112.35	.05579	.23111	1.1496	-.00680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.00050

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2324.1**	**.00912**	**.38574**	**1.0232**	**.77346**	**429.19**
Stddev	21.9	.00005	.00313	.0061	.01316	.92
%RSD	.94378	.60058	.81154	.59907	1.7012	.21349
#1	2347.6	.00909	.38759	1.0167	.78019	428.30
#2	2320.6	.00918	.38750	1.0242	.78188	429.14
#3	2304.2	.00908	.38212	1.0288	.75829	430.13
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.008**	**.16022**	**227.12**	**12.254**	**.00396**	**29.958**
Stddev	.069	.00164	1.44	.020	.00008	.043
%RSD	.25525	1.0238	.63409	.16353	2.1264	.14521
#1	26.992	.15870	225.85	12.241	.00395	29.920
#2	26.948	.16001	226.83	12.245	.00405	30.005
#3	27.083	.16196	228.69	12.277	.00388	29.949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102031803 Acquired: 2/23/2011 16:36:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3167**	F **-235500.**	**.52372**	F **-35.147**	F **4458.3**	F **-42770.**
Stddev	.0098	1231.	.00209	5.384	27.5	88.
%RSD	.74827	.52290	.39936	15.318	.61585	.20588
#1	1.3222	-236330.	.52413	-38.228	4474.9	-42869.
#2	1.3225	-236090.	.52557	-38.282	4473.4	-42741.
#3	1.3053	-234090.	.52145	-28.930	4426.6	-42700.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02589**	**.01533**	F **300.85**	**.06215**	F **35.578**	**12.342**
Stddev	.00094	.00189	2.61	.00045	.334	.056
%RSD	3.6477	12.316	.86810	.72880	.93749	.45546
#1	.02663	.01328	303.14	.06231	35.501	12.299
#2	.02620	.01571	301.40	.06164	35.290	12.321
#3	.02482	.01700	298.00	.06250	35.944	12.405
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit			90.000		4.5000	
Low Limit			-1.0000		-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.04794**	**1.0371**	**2.7283**	F **461.10**
Stddev	.00115	.0057	.0183	3.03
%RSD	2.4000	.54728	.67106	.65751
#1	.04736	1.0306	2.7375	457.67
#2	.04927	1.0411	2.7402	462.21
#3	.04720	1.0396	2.7072	463.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102031803 Acquired: 2/23/2011 16:36:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76353.**	**62107.**
Stddev	206.	455.
%RSD	.27013	.73220
#1	76279.	62592.
#2	76194.	62038.
#3	76586.	61691.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 16:40:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41365**	**10.252**	**.39424**	**.50998**	**.99118**	**.04957**	**10.154**
Stddev	.00462	.119	.00145	.00595	.00181	.00041	.115
%RSD	1.1171	1.1573	.36828	1.1672	.18287	.82682	1.1283
#1	.41894	10.389	.39394	.51639	.99018	.05004	10.275
#2	.41042	10.178	.39582	.50462	.99007	.04929	10.141
#3	.41158	10.188	.39296	.50894	.99327	.04938	10.047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04895**	**.19874**	**.51107**	**.48759**	**3.7174**	**50.251**	**1.0273**
Stddev	.00002	.00020	.00498	.00062	.0167	.069	.0017
%RSD	.05083	.10267	.97401	.12768	.44784	.13664	.16186
#1	.04895	.19860	.51681	.48831	3.7366	50.326	1.0254
#2	.04898	.19864	.50826	.48725	3.7075	50.236	1.0282
#3	.04893	.19897	.50812	.48722	3.7082	50.191	1.0283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.1541**	**.46310**	**.98457**	**50.387**	**.49678**	F **-35.216**	**.48806**
Stddev	.0441	.00130	.00038	.119	.00062	17.099	.00063
%RSD	.48172	.28121	.03876	.23581	.12545	48.556	.12838
#1	9.1912	.46434	.98495	50.430	.49744	-49.137	.48748
#2	9.1053	.46323	.98458	50.252	.49670	-40.381	.48798
#3	9.1658	.46174	.98419	50.478	.49620	-16.129	.48873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 16:40:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-30.800**	**9.9947**	F **8.1963**	**1.1936**	**.39415**	F **3.8236**	**.99150**
Stddev	6.903	.0423	2.0283	.0003	.00285	.0546	.00231
%RSD	22.411	.42311	24.746	.02881	.72203	1.4269	.23339
#1	-37.706	10.043	7.4634	1.1939	.39167	3.7987	.98896
#2	-30.792	9.9730	6.6364	1.1932	.39352	3.8862	.99205
#3	-23.901	9.9676	10.489	1.1936	.39726	3.7859	.99349
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		-10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95693**	**.94485**	**.50237**	**1.0170**	**.97644**	F **2.2074**
Stddev	.00307	.00177	.00140	.0102	.00062	.4684
%RSD	.32075	.18749	.27812	1.0068	.06314	21.222
#1	.95788	.94282	.50086	1.0283	.97675	1.6669
#2	.95350	.94570	.50262	1.0085	.97685	2.4968
#3	.95941	.94605	.50362	1.0140	.97573	2.4585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90643.**	**64884.**
Stddev	153.	495.
%RSD	.16907	.76244
#1	90760.	64313.
#2	90470.	65179.
#3	90701.	65160.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 16:43:37 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00147**	**.00919**	**.00184**	**.00103**	**.00043**	**.00002**	**.00746**
Stddev	.00006	.00206	.00084	.00065	.00004	.00002	.00838
%RSD	4.1684	22.423	45.634	63.449	9.8864	128.75	112.40
#1	-.00152	.00792	.00090	.00061	.00040	.00004	.01400
#2	-.00148	.00808	.00211	.00177	.00041	.00001	.01036
#3	-.00140	.01157	.00251	.00069	.00048	.00000	-.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00017**	**.00038**	**-.00007**	**.00848**	**-.04955**	**.01491**
Stddev	.00013	.00012	.00024	.00046	.00344	.05122	.00110
%RSD	144.23	70.834	64.188	662.77	40.592	103.35	7.3662
#1	-.00004	-.00004	.00056	.00038	.00585	.00954	.01377
#2	-.00023	-.00018	.00010	-.00005	.00721	-.08104	.01500
#3	.00001	-.00028	.00047	-.00054	.01237	-.07716	.01596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00575**	**-.00029**	**.00060**	**.04139**	**.00068**	F **-4.5709**	**.00054**
Stddev	.02765	.00035	.00004	.00717	.00005	10.181	.00192
%RSD	480.50	122.81	6.6538	17.316	7.5943	222.73	354.87
#1	-.03504	-.00006	.00063	.04071	.00069	-15.217	-.00009
#2	.01990	-.00011	.00062	.04887	.00063	5.0698	-.00098
#3	-.00212	-.00069	.00056	.03459	.00073	-3.5656	.00270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 16:43:37 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-25.799**	**.00639**	F **3.5099**	**-.00103**	**.00333**	**-.17970**	**.00042**
Stddev	5.681	.04293	1.2556	.00031	.00302	.10064	.00018
%RSD	22.021	671.99	35.774	29.868	90.686	56.004	42.506
#1	-26.274	-.00906	2.0833	-.00090	.00438	-.26705	.00061
#2	-31.228	.05491	4.4471	-.00081	-.00007	-.20240	.00038
#3	-19.895	-.02668	3.9993	-.00138	.00568	-.06965	.00026
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000		.01000				
Low Limit	-.01000		-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00116**	**.00290**	**.00040**	**.00006**	**-.08587**
Stddev	.00010	.00076	.00018	.00008	.00010	.19050
%RSD	76.544	65.904	6.1475	20.853	170.70	221.84
#1	.00019	.00162	.00291	.00035	-.00002	.06689
#2	.00017	.00158	.00307	.00050	.00003	-.29932
#3	.00001	.00028	.00272	.00037	.00016	-.02519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91272.**	**64950.**
Stddev	569.	579.
%RSD	.62384	.89201
#1	91816.	65469.
#2	91322.	65055.
#3	90680.	64325.

Approved: February 24, 2011

Sample Name: LRC Acquired: 2/23/2011 16:47:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**759.74**	**.01523**	**.00233**	**.00046**	**.00003**	**.00796**
Stddev	.00029	6.76	.00254	.00111	.00041	.00003	.00205
%RSD	28.134	.88945	16.710	47.919	88.502	98.740	25.770
#1	-.00071	767.25	.01796	.00359	.00092	.00000	.01028
#2	-.00127	757.81	.01292	.00191	.00033	.00006	.00719
#3	-.00106	754.15	.01481	.00148	.00014	.00004	.00640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00088**	**.00051**	**-.00009**	**.00554**	**-.05375**	**.01479**
Stddev	.00013	.00005	.00031	.00023	.00120	.03502	.00043
%RSD	121.23	5.2319	59.538	262.97	21.691	65.159	2.9237
#1	-.00019	.00093	.00056	-.00031	.00435	-.09418	.01516
#2	-.00018	.00087	.00019	.00016	.00675	-.03268	.01491
#3	.00004	.00084	.00079	-.00012	.00552	-.03439	.01432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00724**	**.00264**	**.00077**	**.02979**	**-.00396**	F **4796.3**	**.00149**
Stddev	.00641	.00033	.00015	.00770	.00033	16.7	.00166
%RSD	88.527	12.399	19.336	25.861	8.2964	.34749	111.08
#1	-.00846	.00299	.00068	.03329	-.00363	4787.1	-.00042
#2	-.00031	.00234	.00069	.02096	-.00429	4815.5	.00247
#3	-.01294	.00259	.00094	.03512	-.00396	4786.2	.00243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: LRC Acquired: 2/23/2011 16:47:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-27.973**	F **-.91921**	F **18.286**	**.00770**	F **-.01325**	**.09257**	**-.00070**
Stddev	4.708	.05655	2.755	.00230	.00206	.07177	.00041
%RSD	16.831	6.1516	15.067	29.908	15.561	77.539	57.823
#1	-30.607	-.85569	19.105	.00952	-.01367	.07471	-.00037
#2	-30.775	-.96405	15.214	.00511	-.01506	.17158	-.00058
#3	-22.537	-.93790	20.539	.00848	-.01101	.03140	-.00116
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000		81.000		
Low Limit	-.00400	-.00400	-.00400		-.01000		

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00041**	**.00391**	**-.00007**	F **-.01819**	**.05996**
Stddev	.00002	.00023	.00067	.00007	.00037	.60501
%RSD	41.238	56.683	17.242	90.046	2.0209	1009.0
#1	-.00006	.00065	.00371	-.00004	-.01861	-.57753
#2	-.00003	.00039	.00466	-.00015	-.01804	.62618
#3	-.00006	.00019	.00336	-.00003	-.01792	.13124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					45.000	
Low Limit					-.01000	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91320.**	**66889.**
Stddev	73.	475.
%RSD	.07995	.71045
#1	91331.	66340.
#2	91386.	67148.
#3	91242.	67178.

Approved: February 24, 2011

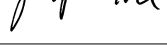
Sample Name: LRC Acquired: 2/23/2011 16:50:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00119**	**.06077**	F **-.01686**	F **-.20601**	**.00040**	**-.00008**
Stddev	.00046	.01634	.00127	.00689	.00006	.00005
%RSD	39.066	26.892	7.5093	3.3465	14.637	55.423
#1	-.00066	.07429	-.01635	-.21336	.00036	-.00014
#2	-.00153	.06541	-.01593	-.19968	.00037	-.00007
#3	-.00138	.04261	-.01830	-.20501	.00047	-.00004
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000	90.000		
Low Limit			-.01000	-.10000		

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.07706**	**.00066**	**-.00323**	F **-.03553**	**.27406**	**871.69**
Stddev	.00407	.00015	.00003	.00101	.01115	12.85
%RSD	5.2853	22.934	.86177	2.8361	4.0670	1.4740
#1	-.07914	.00083	-.00322	-.03506	.28167	860.78
#2	-.07237	.00055	-.00325	-.03669	.26127	885.85
#3	-.07968	.00059	-.00320	-.03485	.27924	868.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.000		
Low Limit				-.00300		

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.29240**	**.01129**	F **-.18946**	**.00052**	**-.00505**	**.02704**
Stddev	.02352	.00131	.01254	.00011	.00011	.00654
%RSD	8.0426	11.578	6.6183	20.356	2.2289	24.176
#1	-.28778	.01077	-.19211	.00047	-.00518	.02383
#2	-.31788	.01277	-.20046	.00065	-.00496	.02273
#3	-.27153	.01032	-.17581	.00045	-.00502	.03456
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			900.00			
Low Limit			-.10000			

Approved: February 24, 2011



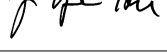
Sample Name: LRC Acquired: 2/23/2011 16:50:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01454**	kF **-4173.3**	**.06083**	F **-25.463**	F **-.13866**	F **98.739**
Stddev	.00065	31.9	.00099	3.796	.00653	1.369
%RSD	4.4795	.76437	1.6333	14.908	4.7115	1.3866
#1	.01524	k -4200.2	.06123	-22.239	-.14513	97.512
#2	.01442	k -4181.7	.06155	-29.646	-.13207	100.22
#3	.01395	k -4138.1	.05969	-24.502	-.13879	98.488
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**-.00329**	**.86620**	**.00581**	**-.00014**	**.00118**
Stddev	.00302	.00134	.10135	.00047	.00009	.00056
%RSD	529.56	40.682	11.700	8.1134	64.606	47.975
#1	.00258	-.00256	.81422	.00582	-.00022	.00114
#2	-.00290	-.00483	.98299	.00627	-.00004	.00176
#3	.00203	-.00247	.80139	.00533	-.00018	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.00806**	**.02224**	**.00591**	^ *****
Stddev	.00099	.00027	.00019	-----
%RSD	12.311	1.2197	3.1702	-----
#1	.00863	.02223	.00610	^ -----
#2	.00864	.02252	.00592	^ -----
#3	.00691	.02198	.00572	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: February 24, 2011



Sample Name: LRC Acquired: 2/23/2011 16:50:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88375.**	**64191.**
Stddev	69.	196.
%RSD	.07839	.30490
#1	88454.	64088.
#2	88349.	64068.
#3	88323.	64417.

Approved: February 24, 2011

Sample Name: L1102031804 Acquired: 2/23/2011 16:54:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01682**	**34.310**	**.12241**	**.50171**	**.25098**	F **-.00168**	F **2559.1**
Stddev	.00060	.302	.00169	.00150	.00058	.00003	45.5
%RSD	3.5930	.88079	1.3813	.29850	.23258	2.0796	1.7773
#1	.01691	33.962	.12285	.49998	.25032	-.00166	2538.0
#2	.01618	34.506	.12054	.50245	.25143	-.00166	2528.0
#3	.01737	34.463	.12383	.50269	.25118	-.00172	2611.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						4.5000	900.00
Low Limit						-.00050	-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00414**	**.17022**	**.52266**	**.17865**	**158.73**	**9.4799**	**.29424**
Stddev	.00006	.00064	.00486	.00292	.13	.0255	.00317
%RSD	1.3647	.37813	.92992	1.6365	.08272	.26885	1.0764
#1	.00412	.17088	.51708	.18071	158.58	9.4506	.29082
#2	.00420	.17018	.52601	.17994	158.84	9.4920	.29707
#3	.00409	.16959	.52488	.17531	158.77	9.4971	.29483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**453.55**	**4.5832**	**.00504**	**69.638**	**1.7136**	F **-94048.**	**.10727**
Stddev	3.77	.0050	.00018	.206	.0065	60.	.00047
%RSD	.83224	.10980	3.5788	.29621	.38083	.06369	.44212
#1	449.20	4.5774	.00520	69.405	1.7184	-94019.	.10674
#2	455.95	4.5860	.00484	69.797	1.7162	-94009.	.10743
#3	455.50	4.5863	.00507	69.712	1.7062	-94117.	.10765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102031804 Acquired: 2/23/2011 16:54:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-30.478**	F **8379.2**	F **-64232.**	**.02697**	**.00868**	F **837.99**	**.00695**
Stddev	4.007	33.9	166.	.00230	.00140	23.11	.00077
%RSD	13.149	.40491	.25884	8.5255	16.095	2.7574	11.093
#1	-32.753	8403.4	-64187.	.02556	.01025	854.22	.00606
#2	-25.850	8393.7	-64092.	.02572	.00755	848.23	.00744
#3	-32.829	8340.4	-64416.	.02962	.00825	811.54	.00734
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **67.644**	**2.9477**	**.00926**	**.27279**	**.40098**	F **184.86**
Stddev	.420	.0148	.00175	.00167	.00171	1.27
%RSD	.62161	.50276	18.852	.61326	.42576	.68726
#1	67.359	2.9314	.01006	.27088	.40233	183.52
#2	67.447	2.9603	.00726	.27351	.40155	185.03
#3	68.127	2.9514	.01047	.27399	.39906	186.04
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	4.5000					45.000
Low Limit	-.01000					-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**67293.**	**57083.**
Stddev	379.	405.
%RSD	.56385	.70898
#1	66932.	57550.
#2	67259.	56835.
#3	67688.	56864.

Approved: February 24, 2011

Sample Name: L1102031805 Acquired: 2/23/2011 16:58:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06029**	**280.56**	**.24506**	**.20305**	**1.3290**	**.00413**
Stddev	.00066	4.39	.00102	.00186	.0027	.00008
%RSD	1.0944	1.5664	.41428	.91366	.20078	1.9487
#1	.05961	276.39	.24619	.20503	1.3261	.00411
#2	.06031	285.15	.24422	.20136	1.3313	.00422
#3	.06093	280.13	.24477	.20276	1.3296	.00406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2114.5**	**.01440**	**.30238**	**1.6582**	**.50963**	**556.85**
Stddev	6.3	.00003	.00143	.0080	.00656	1.39
%RSD	.29965	.23098	.47188	.48339	1.2873	.25038
#1	2107.4	.01441	.30347	1.6500	.51639	555.24
#2	2116.5	.01436	.30290	1.6660	.50921	557.69
#3	2119.5	.01443	.30076	1.6587	.50329	557.63
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.205**	**.25502**	**139.53**	**16.539**	**.00645**	**24.497**
Stddev	.027	.00047	.38	.018	.00021	.084
%RSD	.11719	.18369	.27445	.10706	3.3179	.34240
#1	23.175	.25486	139.24	16.526	.00666	24.405
#2	23.227	.25554	139.97	16.532	.00623	24.569
#3	23.213	.25464	139.39	16.559	.00645	24.519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102031805 Acquired: 2/23/2011 16:58:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95106**	F **-418880.**	**.63632**	F **-41.525**	F **3948.6**	F **-43320.**
Stddev	.00300	2375.	.00120	6.902	13.6	132.
%RSD	.31588	.56690	.18789	16.622	.34504	.30502
#1	.95271	-420390.	.63654	-48.949	3957.8	-43342.
#2	.95288	-420100.	.63739	-35.302	3955.0	-43440.
#3	.94759	-416140.	.63503	-40.324	3933.0	-43178.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03781**	**.01658**	F **654.72**	**.12679**	F **30.783**	**8.3166**
Stddev	.00364	.00136	5.13	.00075	.376	.0147
%RSD	9.6225	8.2203	.78392	.59222	1.2225	.17707
#1	.03370	.01650	657.79	.12764	30.799	8.3083
#2	.04062	.01798	657.58	.12649	31.151	8.3336
#3	.03909	.01525	648.80	.12623	30.399	8.3079
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit			90.000		4.5000	
Low Limit			-1.0000		-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.04413**	**1.0221**	**1.8597**	F **344.95**
Stddev	.00216	.0043	.0076	1.18
%RSD	4.8847	.42360	.41071	.34220
#1	.04515	1.0178	1.8657	344.06
#2	.04559	1.0264	1.8624	346.29
#3	.04166	1.0221	1.8511	344.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102031805 Acquired: 2/23/2011 16:58:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**76488.**	**63549.**
Stddev	81.	373.
%RSD	.10583	.58656
#1	76491.	63963.
#2	76568.	63240.
#3	76406.	63444.

Approved: February 24, 2011

Sample Name: L1102031806 Acquired: 2/23/2011 17:02:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05479**	**246.34**	**.02092**	F **-.10588**	**2.0271**	**.01402**
Stddev	.00042	5.72	.00277	.00969	.0028	.00023
%RSD	.77121	2.3213	13.223	9.1553	.13717	1.6299
#1	.05518	251.90	.02202	-.11685	2.0243	.01425
#2	.05484	246.65	.02297	-.10230	2.0299	.01400
#3	.05434	240.48	.01778	-.09848	2.0271	.01380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.000		
Low Limit				-.10000		

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**219.83**	**.00332**	**1.4447**	**1.9000**	**.77541**	**775.90**
Stddev	.46	.00008	.0056	.0322	.01143	2.52
%RSD	.20900	2.3840	.38525	1.6942	1.4745	.32487
#1	219.87	.00325	1.4496	1.9343	.78734	777.28
#2	220.26	.00340	1.4458	1.8953	.77434	777.43
#3	219.34	.00329	1.4386	1.8704	.76455	772.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.430**	**.05973**	**79.687**	**35.967**	**.00237**	**8.4615**
Stddev	.006	.00156	.026	.063	.00065	.0082
%RSD	.03166	2.6202	.03213	.17508	27.369	.09725
#1	19.437	.05824	79.658	35.974	.00187	8.4694
#2	19.427	.06136	79.700	36.027	.00310	8.4529
#3	19.427	.05957	79.704	35.901	.00214	8.4620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102031806 Acquired: 2/23/2011 17:02:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0401**	F **-107790.**	**.16759**	F **-38.162**	F **577.76**	F **-22760.**
Stddev	.0037	187.	.00194	3.909	2.46	68.
%RSD	.35648	.17351	1.1582	10.242	.42603	.29759
#1	1.0433	-107710.	.16669	-37.928	580.06	-22683.
#2	1.0410	-108000.	.16625	-34.375	578.06	-22792.
#3	1.0360	-107650.	.16981	-42.182	575.17	-22807.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03468**	**.02708**	F **387.80**	**.02772**	**2.2095**	**5.4670**
Stddev	.00175	.00206	1.01	.00079	.0075	.0173
%RSD	5.0388	7.5947	.26111	2.8597	.33874	.31720
#1	.03465	.02538	388.37	.02694	2.2032	5.4471
#2	.03645	.02936	388.40	.02853	2.2075	5.4748
#3	.03295	.02649	386.63	.02769	2.2178	5.4790
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.10313**	**2.9246**	**1.3725**	F **1087.0**
Stddev	.00410	.0469	.0061	18.7
%RSD	3.9753	1.6025	.44226	1.7241
#1	.10765	2.9738	1.3780	1106.1
#2	.10207	2.9196	1.3737	1086.4
#3	.09966	2.8805	1.3660	1068.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102031806 Acquired: 2/23/2011 17:02:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87004.**	**65411.**
Stddev	477.	956.
%RSD	.54816	1.4618
#1	86545.	64403.
#2	86971.	65527.
#3	87497.	66305.

Approved: February 24, 2011

Sample Name: L1102031807 Acquired: 2/23/2011 17:05:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13191**	**240.30**	**.01265**	**-.09424**	**2.0343**	^ *****
Stddev	.00049	2.89	.00044	.00976	.0073	-----
%RSD	.37284	1.2045	3.4799	10.356	.35904	-----
#1	.13215	242.90	.01292	-.09704	2.0259	^ -----
#2	.13223	240.82	.01214	-.10229	2.0378	^ -----
#3	.13134	237.19	.01289	-.08339	2.0391	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**185.79**	**.00463**	**1.0025**	**2.2004**	**1.0490**	F **902.84**
Stddev	.43	.00014	.0026	.0145	.0205	14.30
%RSD	.23284	3.0483	.26152	.65718	1.9572	1.5836
#1	185.34	.00470	1.0049	2.2146	1.0484	906.75
#2	186.20	.00446	1.0028	2.2010	1.0699	886.99
#3	185.85	.00471	.99968	2.1857	1.0288	914.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						900.00
Low Limit						-.02000

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.387**	**.06919**	**86.811**	**28.333**	**.00492**	**6.8402**
Stddev	.074	.00151	.291	.068	.00030	.0083
%RSD	.24487	2.1772	.33527	.23917	6.1589	.12174
#1	30.302	.06758	86.556	28.259	.00476	6.8323
#2	30.421	.06942	86.748	28.391	.00473	6.8394
#3	30.439	.07057	87.128	28.351	.00527	6.8489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102031807 Acquired: 2/23/2011 17:05:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.93930**	F **-112830.**	**.24280**	F **-45.934**	F **623.94**	F **-26818.**
Stddev	.00238	221.	.00226	5.098	2.13	23.
%RSD	.25321	.19617	.93232	11.099	.34082	.08608
#1	.93974	-112990.	.24065	-43.411	625.03	-26845.
#2	.94143	-112920.	.24516	-51.802	625.30	-26803.
#3	.93673	-112580.	.24259	-42.589	621.49	-26807.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02683**	**.02578**	F **395.67**	**.03718**	**1.7192**	**17.522**
Stddev	.00319	.00437	.05	.00034	.0066	.093
%RSD	11.873	16.941	.01153	.92420	.38571	.53076
#1	.02812	.02547	395.62	.03734	1.7125	17.423
#2	.02320	.02158	395.68	.03678	1.7192	17.535
#3	.02916	.03030	395.71	.03741	1.7258	17.608
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.11887**	**3.0592**	**1.7290**	F **1745.5**
Stddev	.00428	.0248	.0039	22.8
%RSD	3.6005	.81011	.22650	1.3035
#1	.12267	3.0813	1.7328	1762.7
#2	.11971	3.0638	1.7291	1754.2
#3	.11423	3.0324	1.7250	1719.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102031807 Acquired: 2/23/2011 17:05:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86412.**	**66960.**
Stddev	407.	555.
%RSD	.47106	.82847
#1	85974.	66428.
#2	86484.	66917.
#3	86778.	67535.

Approved: February 24, 2011

Sample Name: L1102031808 Acquired: 2/23/2011 17:09:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06724**	**232.29**	**.06372**	**.06596**	**1.6298**	**.00554**
Stddev	.00237	2.97	.00171	.00337	.0479	.00017
%RSD	3.5221	1.2768	2.6801	5.1062	2.9411	2.9943
#1	.06472	229.01	.06213	.06720	1.5777	.00537
#2	.06756	233.11	.06553	.06214	1.6397	.00555
#3	.06942	234.77	.06349	.06852	1.6720	.00570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1352.6**	**.00670**	**.65144**	**1.4961**	**.68912**	**625.96**
Stddev	44.3	.00009	.00663	.0242	.02410	10.92
%RSD	3.2721	1.3993	1.0182	1.6200	3.4966	1.7438
#1	1306.9	.00663	.65519	1.4710	.70380	617.74
#2	1355.5	.00666	.65534	1.4979	.70224	621.80
#3	1395.3	.00681	.64378	1.5193	.66131	638.35
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**36.105**	**.12446**	**113.87**	**21.893**	**.00490**	**14.938**
Stddev	1.074	.00618	3.63	.662	.00031	.434
%RSD	2.9756	4.9690	3.1834	3.0221	6.3644	2.9019
#1	34.943	.11767	110.06	21.188	.00509	14.468
#2	36.310	.12595	114.27	21.991	.00454	15.026
#3	37.062	.12977	117.28	22.500	.00508	15.321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102031808 Acquired: 2/23/2011 17:09:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-01

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1890**	F **-277990.**	**.24050**	F **-40.394**	F **2070.6**	F **-31430.**
Stddev	.0113	2554.	.00291	2.106	15.7	176.
%RSD	.95345	.91874	1.2099	5.2141	.75730	.55885
#1	1.1960	-279710.	.24196	-42.675	2076.4	-31550.
#2	1.1950	-279220.	.24239	-38.523	2082.5	-31511.
#3	1.1759	-275060.	.23715	-39.984	2052.8	-31228.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02764**	**.02442**	F **302.84**	**.02692**	F **16.049**	**8.9544**
Stddev	.00216	.00319	3.27	.00091	.423	.2960
%RSD	7.8230	13.082	1.0799	3.3847	2.6346	3.3052
#1	.02790	.02562	304.77	.02618	15.583	8.6427
#2	.02967	.02080	304.69	.02665	16.154	8.9888
#3	.02536	.02684	299.07	.02794	16.409	9.2316
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit			90.000		4.5000	
Low Limit			-1.0000		-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.06821**	**1.7428**	**1.8938**	F **577.98**
Stddev	.00087	.0258	.0181	6.13
%RSD	1.2689	1.4802	.95392	1.0614
#1	.06740	1.7172	1.9037	571.83
#2	.06810	1.7424	1.9049	578.00
#3	.06912	1.7688	1.8730	584.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102031808 Acquired: 2/23/2011 17:09:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80532.**	**65500.**
Stddev	124.	1202.
%RSD	.15363	1.8344
#1	80602.	66753.
#2	80390.	65389.
#3	80606.	64357.

Approved: February 24, 2011

Sample Name: L1102031809S Acquired: 2/23/2011 17:13:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27845**	**239.05**	**.20855**	**.68773**	**2.1768**	**.01731**
Stddev	.00129	1.20	.00295	.00829	.0027	.00004
%RSD	.46212	.50083	1.4134	1.2051	.12356	.24375
#1	.27952	238.01	.20623	.67982	2.1789	.01727
#2	.27702	238.78	.21186	.68701	2.1776	.01735
#3	.27882	240.36	.20754	.69635	2.1737	.01730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1519.4**	**.02681**	**.79932**	**1.7566**	**.91348**	**688.00**
Stddev	19.0	.00017	.00920	.0105	.02997	7.85
%RSD	1.2510	.63990	1.1514	.59999	3.2806	1.1411
#1	1511.6	.02671	.80519	1.7531	.93603	679.08
#2	1505.6	.02701	.80406	1.7483	.92492	691.08
#3	1541.1	.02671	.78872	1.7685	.87947	693.84
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**58.849**	**.55638**	**116.88**	**23.840**	**.39114**	**38.357**
Stddev	.146	.00168	.19	.070	.00443	.029
%RSD	.24849	.30206	.15922	.29229	1.1332	.07618
#1	58.680	.55463	116.68	23.761	.39415	38.356
#2	58.932	.55653	117.03	23.891	.39321	38.329
#3	58.935	.55798	116.95	23.870	.38605	38.387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102031809S Acquired: 2/23/2011 17:13:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-05

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3812**	F **-290230.**	**.41800**	F **-41.699**	F **2272.6**	F **-32374.**
Stddev	.0168	2812.	.00506	1.645	25.4	217.
%RSD	1.2157	.96879	1.2098	3.9448	1.1166	.67028
#1	1.3928	-292330.	.42222	-42.837	2290.0	-32572.
#2	1.3888	-291320.	.41939	-39.813	2284.4	-32407.
#3	1.3619	-287030.	.41239	-42.447	2243.5	-32142.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33966**	**.13437**	F **847.10**	**.41797**	F **18.930**	**16.403**
Stddev	.00408	.00314	16.02	.00336	.125	.020
%RSD	1.2009	2.3355	1.8917	.80408	.66007	.12342
#1	.34023	.13695	858.93	.42010	18.924	16.401
#2	.34343	.13087	853.51	.41971	18.808	16.424
#3	.33533	.13528	828.87	.41409	19.058	16.384
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit			90.000		4.5000	
Low Limit			-1.0000		-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.17981**	**2.5235**	**2.2575**	F **604.20**
Stddev	.00134	.0199	.0200	6.07
%RSD	.74313	.78882	.88418	1.0043
#1	.17960	2.5195	2.2712	603.59
#2	.18124	2.5058	2.2667	598.46
#3	.17859	2.5451	2.2346	610.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102031809S Acquired: 2/23/2011 17:13:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-05

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79768.**	**63047.**
Stddev	232.	93.
%RSD	.29063	.14726
#1	79582.	63142.
#2	79694.	63043.
#3	80028.	62957.

Approved: February 24, 2011

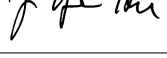
Sample Name: L1102031810SD Acquired: 2/23/2011 17:17:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-06

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29339**	**247.75**	**.18556**	**.61945**	**2.3469**	**.01685**
Stddev	.00247	1.91	.00439	.00185	.0034	.00016
%RSD	.84295	.76925	2.3632	.29816	.14561	.94061
#1	.29322	249.58	.18488	.61820	2.3456	.01675
#2	.29101	245.78	.19024	.61858	2.3444	.01677
#3	.29595	247.89	.18155	.62157	2.3508	.01703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1157.9**	**.02597**	**.91608**	**1.8490**	**.95435**	**759.07**
Stddev	7.0	.00029	.01017	.0135	.02314	6.17
%RSD	.60833	1.0985	1.1097	.72927	2.4249	.81290
#1	1158.7	.02624	.92249	1.8487	.96697	754.35
#2	1164.5	.02600	.92139	1.8357	.96845	756.82
#3	1150.5	.02567	.90436	1.8627	.92765	766.05
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**59.442**	**.55211**	**105.95**	**25.118**	**.40026**	**35.927**
Stddev	.085	.00098	.36	.011	.00420	.114
%RSD	.14382	.17708	.34135	.04479	1.0503	.31695
#1	59.346	.55114	105.62	25.105	.40263	35.914
#2	59.468	.55309	105.88	25.122	.40274	35.820
#3	59.511	.55211	106.34	25.126	.39540	36.047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011



Sample Name: L1102031810SD Acquired: 2/23/2011 17:17:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-06

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3926**	F **-245560.**	**.43128**	F **-52.335**	F **1681.5**	F **-28489.**
Stddev	.0160	2508.	.00553	2.002	15.2	214.
%RSD	1.1467	1.0214	1.2833	3.8245	.90586	.74989
#1	1.4017	-247290.	.43193	-52.251	1690.5	-28651.
#2	1.4020	-246720.	.43646	-54.378	1690.0	-28569.
#3	1.3742	-242690.	.42545	-50.377	1663.9	-28247.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.35232**	**.12983**	F **781.67**	**.44041**	F **12.571**	**18.428**
Stddev	.00241	.00111	14.83	.00379	.128	.039
%RSD	.68304	.85345	1.8970	.86059	1.0189	.20975
#1	.35500	.13110	792.72	.44315	12.717	18.386
#2	.35158	.12927	787.47	.44198	12.477	18.435
#3	.35036	.12911	764.82	.43608	12.520	18.463
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit			90.000		4.5000	
Low Limit			-1.0000		-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.23947**	**2.8822**	**2.1395**	F **758.20**
Stddev	.00433	.0224	.0165	5.65
%RSD	1.8070	.77606	.77154	.74458
#1	.24074	2.8877	2.1489	761.59
#2	.23465	2.8576	2.1491	751.69
#3	.24302	2.9014	2.1204	761.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102031810SD Acquired: 2/23/2011 17:17:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357371-06

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81590.**	**65364.**
Stddev	224.	327.
%RSD	.27431	.50028
#1	81535.	65180.
#2	81399.	65742.
#3	81837.	65172.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 17:21:35 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41280**	**10.288**	**.39275**	**.50695**	**.99943**	**.04893**	**10.199**
Stddev	.00486	.045	.00101	.00672	.00151	.00059	.067
%RSD	1.1776	.43697	.25827	1.3255	.15124	1.2102	.65321
#1	.41799	10.314	.39229	.51422	.99892	.04959	10.272
#2	.40835	10.236	.39205	.50096	1.0011	.04844	10.183
#3	.41206	10.314	.39391	.50568	.99823	.04877	10.142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04931**	**.19888**	**.50910**	**.48745**	**3.7873**	**50.842**	**1.0373**
Stddev	.00009	.00046	.00533	.00097	.0245	.055	.0034
%RSD	.18144	.23009	1.0468	.19986	.64778	.10857	.32706
#1	.04941	.19939	.51523	.48844	3.8150	50.879	1.0334
#2	.04929	.19871	.50560	.48742	3.7786	50.779	1.0395
#3	.04923	.19852	.50646	.48649	3.7683	50.869	1.0389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.0180**	**.46047**	**.98468**	**51.047**	**.49675**	F **-12.836**	**.48706**
Stddev	.0580	.00293	.00142	.060	.00164	10.494	.00065
%RSD	.64315	.63684	.14391	.11777	.32915	81.752	.13382
#1	9.0391	.46385	.98600	51.020	.49828	-7.7521	.48633
#2	8.9524	.45895	.98485	51.116	.49695	-24.903	.48756
#3	9.0625	.45862	.98318	51.005	.49503	-5.8526	.48731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 17:21:35 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-33.181**	**10.184**	F **2.8457**	**1.1950**	**.39047**	F **7.3628**	**.98864**
Stddev	1.709	.053	2.2930	.0019	.00177	.2781	.00391
%RSD	5.1500	.51964	80.576	.15733	.45309	3.7773	.39590
#1	-33.048	10.217	.80140	1.1963	.39247	7.6792	.99263
#2	-34.953	10.212	2.4108	1.1958	.38982	7.1573	.98850
#3	-31.543	10.123	5.3250	1.1928	.38912	7.2519	.98480
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		-10.000%			10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95794**	**.94150**	**.50195**	**1.0102**	**.97352**	F **2.3161**
Stddev	.00291	.00340	.00017	.0142	.00211	.2897
%RSD	.30427	.36121	.03308	1.4013	.21684	12.509
#1	.95477	.93794	.50212	1.0259	.97587	2.4506
#2	.96050	.94185	.50195	.99858	.97290	1.9836
#3	.95857	.94471	.50179	1.0060	.97178	2.5142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91265.**	**66079.**
Stddev	118.	344.
%RSD	.12932	.52075
#1	91248.	65859.
#2	91391.	66476.
#3	91157.	65903.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 17:25:04 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.02214**	**.00044**	**.00188**	**.00105**	**.00000**	**.00470**
Stddev	.00030	.00167	.00093	.00125	.00025	.0000	.00170
%RSD	80.106	7.5576	213.60	66.572	24.252	1083.4	36.192
#1	-.00032	.02238	-.00003	.00233	.00124	.00001	.00336
#2	-.00069	.02036	-.00017	.00285	.00076	-.00003	.00662
#3	-.00010	.02368	.00151	.00047	.00115	.00001	.00413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00006**	**-.00009**	**.00073**	**.01371**	**-.04045**	**.02137**
Stddev	.00006	.00022	.00048	.00083	.00350	.00267	.00283
%RSD	187.21	390.73	523.45	114.52	25.556	6.5944	13.254
#1	-.00003	.00023	-.00044	.00168	.01732	-.03778	.02268
#2	.00009	.00013	-.00029	.00016	.01033	-.04046	.01812
#3	.00003	-.00019	.00045	.00034	.01348	-.04311	.02331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00807**	**.00030**	**.00066**	**.02064**	F **.04956**	F **-8.6738**	**.00216**
Stddev	.00429	.00051	.00017	.01102	.08451	10.306	.00071
%RSD	53.166	168.91	24.906	53.383	170.53	118.81	32.687
#1	.00394	.00026	.00050	.02281	.14713	-12.919	.00293
#2	.00777	.00083	.00067	.00870	.00116	3.0765	.00200
#3	.01250	-.00019	.00083	.03042	.00038	-16.179	.00154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit					.02000	.01000	
Low Limit					-.02000	-.01000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 17:25:04 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-29.308**	F **1.0107**	F **-51.953**	**-.00144**	**.00257**	F **1.8878**	**.00039**
Stddev	3.041	1.2580	73.427	.00167	.00278	1.5938	.00010
%RSD	10.375	124.47	141.33	116.69	107.94	84.426	25.906
#1	-32.739	2.4435	-135.26	-.00103	.00411	3.7280	.00048
#2	-28.239	.50164	-23.938	-.00328	.00424	.97929	.00042
#3	-26.947	.08699	3.343	.00000	-.00063	.95595	.00028
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	.01000	.01000	.01000			1.0000	
Low Limit	-.01000	-.01000	-.01000			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00156**	**.00087**	**-.00006**	F **.05292**	F **-.37384**
Stddev	.00009	.00119	.00058	.00025	.09171	.06547
%RSD	64.542	76.619	66.787	395.74	173.29	17.512
#1	.00012	.00074	.00064	.00021	.15882	-.41017
#2	.00023	.00100	.00044	-.00028	.00005	-.41307
#3	.00006	.00293	.00153	-.00012	-.00011	-.29826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit					.02000	.10000
Low Limit					-.02000	-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91478.**	**63119.**
Stddev	835.	271.
%RSD	.91295	.42901
#1	90542.	62811.
#2	91746.	63318.
#3	92146.	63229.

Approved: February 24, 2011

Sample Name: PBS R6 Acquired: 2/23/2011 17:28:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357238-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00471**	**-.00240**	**-.00012**	**.00058**	**-.00001**	**.03984**
Stddev	.00047	.00271	.00077	.00027	.00012	.00002	.00742
%RSD	110.25	57.492	31.990	231.13	20.925	133.81	18.620
#1	-.00088	.00634	-.00218	-.00041	.00044	-.00002	.03739
#2	-.00048	.00159	-.00326	-.00005	.00062	-.00002	.03396
#3	.00007	.00621	-.00177	.00011	.00067	.00001	.04817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00021**	**.00159**	**.00086**	**.02156**	**-.06113**	**.01671**
Stddev	.00013	.00017	.00062	.00037	.00517	.06547	.00200
%RSD	79.157	81.617	39.383	43.146	23.987	107.11	11.983
#1	.00029	-.00018	.00087	.00052	.02364	-.06060	.01833
#2	.00015	-.00040	.00189	.00081	.01568	-.12686	.01447
#3	.00004	-.00006	.00200	.00126	.02538	.00408	.01734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01231**	**.00026**	**.00048**	**.02981**	**.00230**	**65.373**	**.00122**
Stddev	.02873	.00050	.00019	.00742	.00045	19.488	.00084
%RSD	233.34	195.33	39.370	24.904	19.680	29.810	69.092
#1	-.01802	.00008	.00053	.03757	.00184	82.019	.00059
#2	.01585	-.00014	.00028	.02910	.00274	70.164	.00218
#3	.03911	.00083	.00065	.02277	.00231	43.937	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 24, 2011

Sample Name: PBS R6 Acquired: 2/23/2011 17:28:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357238-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-33.005**	**.04807**	**2.9850**	**.00164**	**.00686**	**4.2779**	**.00021**
Stddev	4.317	.03498	.5576	.00125	.00399	.1574	.00018
%RSD	13.081	72.771	18.680	76.091	58.073	3.6790	86.616
#1	-33.616	.04138	3.3140	.00308	.01080	4.1094	.00017
#2	-28.414	.01691	2.3412	.00079	.00697	4.3031	.00005
#3	-36.983	.08590	3.2998	.00106	.00282	4.4211	.00041
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00073**	**.00025**	**.00003**	**.00265**	F **-.20932**
Stddev	.00004	.00041	.00020	.00021	.00008	.18466
%RSD	41.162	56.291	79.398	788.14	3.0768	88.219
#1	.00013	.00102	.00003	.00025	.00272	-.15090
#2	.00013	.00026	.00031	.00000	.00256	-.06093
#3	.00006	.00091	.00040	-.00017	.00267	-.41612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90276.**	**63994.**
Stddev	73.	21.
%RSD	.08121	.03307
#1	90214.	63994.
#2	90357.	64015.
#3	90257.	63973.

Approved: February 24, 2011

Sample Name: LCSS R6 Acquired: 2/23/2011 17:32:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357238-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20136**	**.00477**	**.18845**	**.00005**	**.00059**	**.00000**	**.00674**
Stddev	.00111	.00034	.00096	.00045	.00013	.0000	.00937
%RSD	.54890	7.1265	.51026	877.56	21.169	2556.1	138.99
#1	.20035	.00515	.18950	-.00037	.00045	-.00002	-.00391
#2	.20119	.00452	.18762	.00001	.00068	.00003	.01043
#3	.20254	.00463	.18824	.00052	.00064	-.00001	.01371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02388**	**-.00031**	**.00048**	**.24659**	**.01133**	**-.12592**	**.01344**
Stddev	.00013	.00014	.00043	.00061	.00458	.01946	.00149
%RSD	.52913	45.346	90.406	.24670	40.401	15.453	11.118
#1	.02396	-.00019	.00011	.24711	.01380	-.14163	.01473
#2	.02373	-.00027	.00037	.24592	.00605	-.10415	.01380
#3	.02394	-.00046	.00095	.24674	.01414	-.13197	.01180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00751**	**.23569**	**.00022**	**.03799**	**.00198**	**46.075**	**.24991**
Stddev	.01569	.00027	.00003	.01470	.00042	20.695	.00235
%RSD	208.90	.11468	13.975	38.687	21.181	44.916	.94072
#1	.02428	.23572	.00019	.05032	.00157	43.271	.24832
#2	-.00681	.23540	.00025	.02173	.00196	68.029	.25261
#3	.00507	.23594	.00022	.04192	.00241	26.925	.24880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 24, 2011

Sample Name: LCSS R6 Acquired: 2/23/2011 17:32:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357238-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-25.544**	**.01463**	**7.4787**	**.00182**	**.00399**	**2.1469**	**.00047**
Stddev	.511	.00770	2.6869	.00022	.00052	.1837	.00026
%RSD	2.0006	52.652	35.927	12.315	13.027	8.5568	55.385
#1	-24.954	.01817	4.3804	.00165	.00438	1.9395	.00052
#2	-25.828	.00579	8.8868	.00175	.00419	2.2116	.00019
#3	-25.850	.01992	9.1688	.00208	.00340	2.2894	.00069
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00067**	**.00031**	**.00021**	**.00143**	F **-.27184**
Stddev	.00004	.00089	.00032	.00011	.00005	.40929
%RSD	751.94	133.06	103.62	53.758	3.2075	150.56
#1	-.00006	-.00020	.00012	.00029	.00145	.15442
#2	.00002	.00063	.00068	.00027	.00138	-.30822
#3	.00002	.00159	.00012	.00008	.00147	-.66173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89685.**	**63571.**
Stddev	269.	252.
%RSD	.29982	.39591
#1	89797.	63791.
#2	89881.	63627.
#3	89378.	63297.

Approved: February 24, 2011

Sample Name: L1102041623 Acquired: 2/23/2011 17:36:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02552**	**184.52**	**.10789**	**.07772**	**2.6160**	**.00776**	F **1374.3**
Stddev	.00034	.42	.00366	.00225	.0051	.00003	11.2
%RSD	1.3382	.22922	3.3936	2.8972	.19619	.38251	.81263
#1	.02549	184.08	.11206	.07573	2.6102	.00779	1376.8
#2	.02587	184.54	.10640	.08016	2.6179	.00777	1362.1
#3	.02519	184.93	.10521	.07726	2.6200	.00773	1384.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10439**	**.09980**	**.29916**	**.91857**	**243.57**	**57.266**	**.29463**
Stddev	.00015	.00023	.00202	.00166	.44	.136	.00137
%RSD	.14064	.22684	.67552	.18044	.17956	.23824	.46461
#1	.10437	.09985	.29929	.91934	243.14	57.152	.29341
#2	.10425	.10000	.29708	.91971	243.56	57.228	.29435
#3	.10454	.09955	.30112	.91667	244.02	57.417	.29611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**113.36**	**3.3005**	**.00992**	**13.929**	**.24052**	F **-82544.**	**1.5313**
Stddev	.53	.0081	.00021	.024	.00090	121.	.0062
%RSD	.47020	.24474	2.1056	.17552	.37381	.14653	.40761
#1	112.85	3.2942	.01009	13.904	.24153	-82664.	1.5303
#2	113.31	3.2978	.00998	13.929	.24023	-82546.	1.5256
#3	113.92	3.3096	.00969	13.953	.23981	-82422.	1.5379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041623 Acquired: 2/23/2011 17:36:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-43.558**	F **1678.4**	F **-11604.**	**.02180**	**.00300**	F **234.84**	**.03010**
Stddev	5.413	.4	18.	.00175	.00157	1.18	.00026
%RSD	12.427	.02669	.15355	8.0065	52.089	.50153	.86313
#1	-44.961	1678.7	-11623.	.02315	.00474	235.93	.03026
#2	-37.582	1677.9	-11603.	.01983	.00171	235.00	.03025
#3	-48.132	1678.6	-11587.	.02242	.00257	233.59	.02980
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.7228**	**3.0980**	**.01861**	**.48694**	**1.5227**	F **330.84**
Stddev	.0131	.0072	.00106	.00338	.0012	1.40
%RSD	.48041	.23136	5.7182	.69498	.07610	.42271
#1	2.7080	3.0904	.01921	.48704	1.5222	330.17
#2	2.7326	3.0990	.01739	.48351	1.5218	329.91
#3	2.7279	3.1047	.01924	.49027	1.5240	332.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80558.**	**63441.**
Stddev	326.	292.
%RSD	.40508	.45951
#1	80853.	63306.
#2	80613.	63775.
#3	80207.	63241.

Approved: February 24, 2011

Sample Name: L1102041623PS Acquired: 2/23/2011 17:39:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357321-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22849**	**176.28**	**.30000**	**.99263**	**2.8767**	**.03162**	F **1272.7**
Stddev	.00080	1.11	.00117	.00170	.0030	.00020	26.1
%RSD	.34914	.63064	.39141	.17103	.10565	.62937	2.0511
#1	.22766	174.99	.29997	.99280	2.8742	.03139	1253.2
#2	.22925	176.92	.29884	.99085	2.8801	.03173	1262.5
#3	.22856	176.92	.30119	.99423	2.8757	.03175	1302.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11915**	**.18256**	**.50420**	**1.0523**	**222.68**	**78.199**	**.80817**
Stddev	.00005	.00021	.00313	.0016	.14	.183	.00201
%RSD	.04561	.11726	.62123	.15254	.06259	.23372	.24903
#1	.11921	.18277	.50059	1.0534	222.59	77.993	.81048
#2	.11913	.18234	.50585	1.0505	222.84	78.341	.80687
#3	.11910	.18256	.50617	1.0531	222.61	78.263	.80715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**107.55**	**3.2006**	**.51591**	**39.923**	**.44653**	F **-74627.**	**1.6004**
Stddev	.14	.0046	.00044	.072	.00071	108.	.0027
%RSD	.12608	.14511	.08564	.17958	.15998	.14474	.17000
#1	107.44	3.1955	.51629	39.840	.44594	-74628.	1.5974
#2	107.51	3.2018	.51542	39.968	.44732	-74735.	1.6028
#3	107.70	3.2045	.51601	39.960	.44632	-74519.	1.6008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041623PS Acquired: 2/23/2011 17:39:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357321-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-47.693**	F **1509.0**	F **-10523.**	**.61360**	**.19818**	F **574.70**	**.02832**
Stddev	3.815	.4	4.	.00206	.00428	.69	.00035
%RSD	8.0000	.02524	.03931	.33584	2.1619	.12057	1.2346
#1	-51.390	1509.4	-10518.	.61552	.20290	575.49	.02831
#2	-47.920	1508.8	-10525.	.61386	.19453	574.34	.02868
#3	-43.769	1508.7	-10526.	.61143	.19711	574.25	.02798
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.9562**	**3.2794**	**.22939**	**.92474**	**1.8290**	F **305.60**
Stddev	.0086	.0041	.00128	.00322	.0006	1.66
%RSD	.28914	.12524	.55643	.34781	.03044	.54254
#1	2.9579	3.2808	.23060	.92353	1.8284	306.30
#2	2.9638	3.2826	.22805	.92230	1.8293	303.71
#3	2.9469	3.2748	.22953	.92838	1.8294	306.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81762.**	**62706.**
Stddev	318.	372.
%RSD	.38843	.59403
#1	81397.	62952.
#2	81970.	62888.
#3	81921.	62277.

Approved: February 24, 2011

Sample Name: L1102041623SDL Acquired: 2/23/2011 17:43:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357321-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00492**	**47.759**	**.02190**	**.02056**	**.52005**	**.00167**	**328.03**
Stddev	.00018	.411	.00141	.00134	.00100	.00006	.09
%RSD	3.6260	.86084	6.4494	6.5078	.19170	3.4844	.02738
#1	.00474	47.444	.02236	.02190	.51897	.00161	328.03
#2	.00493	47.609	.02304	.02056	.52095	.00169	327.94
#3	.00510	48.224	.02032	.01923	.52022	.00172	328.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02121**	**.02110**	**.06796**	**.19257**	**50.337**	**11.353**	**.07096**
Stddev	.00011	.00023	.00015	.00025	.095	.027	.00110
%RSD	.52018	1.1074	.22099	.13168	.18812	.23915	1.5473
#1	.02111	.02084	.06785	.19269	50.235	11.359	.07051
#2	.02133	.02128	.06789	.19227	50.422	11.376	.07015
#3	.02118	.02119	.06813	.19273	50.355	11.323	.07221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.078**	**.68652**	**.00187**	**2.7942**	**.05088**	F **-17117.**	**.33557**
Stddev	.037	.00124	.00001	.0218	.00041	78.	.00186
%RSD	.15237	.18078	.71515	.78162	.80545	.45658	.55383
#1	24.111	.68514	.00186	2.7735	.05094	-17082.	.33771
#2	24.038	.68753	.00187	2.8170	.05044	-17207.	.33432
#3	24.084	.68690	.00189	2.7921	.05125	-17063.	.33469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041623SDL Acquired: 2/23/2011 17:43:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357321-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-33.812**	F **357.97**	F **-2351.9**	**.00304**	**.00428**	**46.217**	**.00632**
Stddev	1.738	.52	.8	.00226	.00339	.214	.00016
%RSD	5.1401	.14563	.03368	74.126	79.333	.46294	2.4732
#1	-35.193	357.66	-2351.7	.00168	.00325	46.354	.00628
#2	-31.860	358.57	-2352.7	.00180	.00807	46.327	.00650
#3	-34.381	357.67	-2351.2	.00565	.00152	45.971	.00619
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53820**	**.61908**	**.00450**	**.10528**	**.32237**	F **65.852**
Stddev	.00285	.00097	.00102	.00037	.00017	.113
%RSD	.52878	.15637	22.691	.34709	.05245	.17178
#1	.53531	.61870	.00567	.10491	.32240	65.770
#2	.54100	.62018	.00379	.10529	.32252	65.804
#3	.53829	.61836	.00405	.10564	.32219	65.981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89843.**	**64950.**
Stddev	690.	364.
%RSD	.76835	.56014
#1	90633.	65365.
#2	89536.	64801.
#3	89358.	64684.

Approved: February 24, 2011

Sample Name: L1102041623SDL Acquired: 2/23/2011 17:47:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357321-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**10.848**	**.00570**	**.00451**	**.10525**	**.00032**	**66.370**
Stddev	.00053	.016	.00116	.00025	.00081	.00004	.103
%RSD	72.963	.14579	20.356	5.5578	.76678	12.351	.15574
#1	.00081	10.866	.00656	.00479	.10541	.00036	66.253
#2	.00121	10.836	.00438	.00431	.10438	.00028	66.406
#3	.00016	10.843	.00616	.00442	.10597	.00033	66.450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00430**	**.00479**	**.01481**	**.04055**	**10.273**	**2.1867**	**.02906**
Stddev	.00004	.00015	.00017	.00021	.005	.0590	.00232
%RSD	.99825	3.0957	1.1539	.52188	.04762	2.6967	7.9994
#1	.00429	.00475	.01463	.04031	10.268	2.2148	.02645
#2	.00425	.00467	.01485	.04067	10.277	2.2264	.03090
#3	.00434	.00496	.01496	.04069	10.274	2.1190	.02984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.0117**	**.13974**	**.00035**	**.56951**	**.01137**	F **-3521.0**	**.07265**
Stddev	.0247	.00088	.00020	.01194	.00051	7.1	.00180
%RSD	.49360	.63329	57.603	2.0970	4.4716	.20056	2.4824
#1	4.9832	.13872	.00013	.57868	.01195	-3513.1	.07136
#2	5.0257	.14019	.00042	.57384	.01117	-3523.3	.07189
#3	5.0264	.14030	.00052	.55601	.01099	-3526.6	.07471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041623SDL Acquired: 2/23/2011 17:47:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357321-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-28.365**	F **78.886**	F **-479.69**	**-.00084**	**.00295**	**8.4806**	**.00071**
Stddev	2.751	.231	1.90	.00160	.00262	.1722	.00013
%RSD	9.6983	.29307	.39620	189.36	88.952	2.0302	18.903
#1	-26.254	78.809	-481.66	.00050	.00426	8.6739	.00085
#2	-31.476	78.704	-479.55	-.00261	-.00007	8.3437	.00068
#3	-27.365	79.146	-477.87	-.00042	.00465	8.4243	.00059
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10934**	**.12480**	**.00304**	**.02173**	**.06875**	**9.4737**
Stddev	.00043	.00168	.00110	.00018	.00015	.3015
%RSD	.38896	1.3439	36.219	.85023	.21604	3.1829
#1	.10920	.12467	.00324	.02154	.06868	9.8059
#2	.10900	.12320	.00185	.02173	.06864	9.2173
#3	.10982	.12655	.00402	.02191	.06892	9.3979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92301.**	**64003.**
Stddev	193.	27.
%RSD	.20960	.04272
#1	92120.	63972.
#2	92505.	64013.
#3	92278.	64024.

Approved: February 24, 2011

Sample Name: L1102041624 Acquired: 2/23/2011 17:50:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01316**	**158.58**	**.11503**	**.07542**	**3.0985**	**.00776**	F **1703.7**
Stddev	.00029	2.15	.00242	.00110	.0064	.00007	12.1
%RSD	2.2227	1.3535	2.1007	1.4567	.20556	.92633	.71068
#1	.01302	160.70	.11225	.07589	3.0937	.00772	1696.4
#2	.01350	158.63	.11659	.07621	3.1057	.00784	1717.7
#3	.01296	156.41	.11626	.07416	3.0961	.00771	1697.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00793**	**.08668**	**.25338**	**.41978**	**191.29**	**40.315**	**.31558**
Stddev	.00011	.00030	.00102	.00064	.39	.126	.00223
%RSD	1.3710	.34494	.40202	.15274	.20646	.31260	.70708
#1	.00804	.08702	.25375	.42052	191.01	40.173	.31809
#2	.00790	.08645	.25416	.41943	191.75	40.411	.31483
#3	.00783	.08658	.25223	.41940	191.13	40.362	.31382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**121.82**	**2.6472**	**.00762**	**21.901**	**.19782**	F **-71936.**	**.56990**
Stddev	.60	.0029	.00026	.054	.00042	60.	.00259
%RSD	.49651	.10959	3.3988	.24500	.21471	.08354	.45419
#1	121.15	2.6467	.00758	21.848	.19827	-71950.	.56691
#2	122.33	2.6504	.00789	21.955	.19777	-71988.	.57147
#3	121.99	2.6446	.00738	21.901	.19743	-71870.	.57132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041624 Acquired: 2/23/2011 17:50:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.455**	F **2307.2**	F **-15650.**	**.01841**	**.00661**	F **288.60**	**.01581**
Stddev	3.581	4.4	10.	.00009	.00502	1.91	.00036
%RSD	8.8520	.18929	.06207	.49805	75.930	.66025	2.2635
#1	-36.321	2312.1	-15641.	.01851	.00277	290.42	.01564
#2	-42.581	2305.8	-15648.	.01839	.01229	288.74	.01623
#3	-42.464	2303.7	-15660.	.01833	.00477	286.62	.01557
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.9127**	**2.3662**	**.01458**	**.46388**	**.75663**	F **235.45**
Stddev	.0109	.0091	.00213	.00350	.00148	2.73
%RSD	.27803	.38615	14.579	.75432	.19529	1.1586
#1	3.9023	2.3570	.01701	.46469	.75782	236.18
#2	3.9240	2.3753	.01366	.46690	.75710	237.74
#3	3.9119	2.3665	.01307	.46004	.75498	232.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79853.**	**61701.**
Stddev	262.	388.
%RSD	.32839	.62826
#1	79662.	61479.
#2	79745.	61475.
#3	80152.	62148.

Approved: February 24, 2011

Sample Name: L1102041625 Acquired: 2/23/2011 17:54:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357238-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01770**	**195.49**	**.10762**	**.08535**	**2.3711**	**.00757**	**671.60**
Stddev	.00080	1.13	.00200	.00148	.0043	.00002	4.41
%RSD	4.5186	.57640	1.8592	1.7375	.18135	.29801	.65642
#1	.01720	195.12	.10727	.08471	2.3684	.00756	674.87
#2	.01862	194.59	.10977	.08429	2.3761	.00759	666.59
#3	.01727	196.75	.10582	.08704	2.3689	.00755	673.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01003**	**.10394**	**.30292**	**1.1626**	**258.26**	**63.149**	**.28169**
Stddev	.00017	.00016	.00080	.0026	.74	.120	.00057
%RSD	1.7186	.15393	.26352	.22577	.28822	.18958	.20065
#1	.00991	.10412	.30200	1.1631	257.41	63.026	.28104
#2	.00996	.10388	.30342	1.1649	258.78	63.155	.28201
#3	.01023	.10381	.30334	1.1598	258.59	63.265	.28203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**104.10**	**4.1187**	**.00893**	**6.5638**	**.23388**	F **-78706.**	**.68183**
Stddev	.64	.0111	.00006	.0038	.00085	90.	.00364
%RSD	.61857	.26867	.66909	.05763	.36270	.11489	.53452
#1	103.39	4.1079	.00890	6.5663	.23298	-78739.	.68215
#2	104.26	4.1182	.00889	6.5657	.23400	-78774.	.68531
#3	104.65	4.1300	.00900	6.5595	.23466	-78603.	.67804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041625 Acquired: 2/23/2011 17:54:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357238-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-51.534**	F **778.51**	F **-7432.6**	**.01873**	**.00452**	F **193.62**	**.02538**
Stddev	1.299	2.05	2.7	.00331	.00313	.72	.00052
%RSD	2.5213	.26294	.03572	17.659	69.192	.37051	2.0574
#1	-52.854	776.55	-7435.6	.02215	.00748	194.44	.02484
#2	-50.257	780.63	-7431.7	.01555	.00125	193.32	.02589
#3	-51.493	778.36	-7430.5	.01848	.00483	193.11	.02541
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.7264**	**2.9578**	**.01720**	**.47648**	**1.7850**	F **382.02**
Stddev	.0086	.0109	.00074	.00153	.0055	2.59
%RSD	.49596	.36740	4.2749	.32024	.30537	.67923
#1	1.7214	2.9453	.01805	.47483	1.7813	379.19
#2	1.7363	2.9627	.01677	.47679	1.7912	382.59
#3	1.7215	2.9653	.01678	.47783	1.7824	384.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83444.**	**64258.**
Stddev	212.	251.
%RSD	.25407	.39136
#1	83642.	64524.
#2	83221.	64227.
#3	83469.	64024.

Approved: February 24, 2011

Sample Name: L1102041626S Acquired: 2/23/2011 17:58:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357238-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19263**	**166.08**	**.27850**	**.05727**	**2.2111**	**.00853**	**661.35**
Stddev	.00090	1.30	.00252	.00024	.0048	.00004	9.07
%RSD	.46708	.78058	.90594	.41978	.21563	.41623	1.3713
#1	.19273	164.63	.27950	.05752	2.2058	.00855	651.18
#2	.19168	166.49	.28036	.05704	2.2151	.00849	668.59
#3	.19347	167.13	.27563	.05727	2.2123	.00854	664.30
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03260**	**.10130**	**.28737**	**1.3294**	**244.49**	**53.827**	**.24826**
Stddev	.00007	.00035	.00167	.0059	.56	.084	.00121
%RSD	.20196	.34726	.58135	.44105	.22764	.15570	.48638
#1	.03267	.10133	.28675	1.3328	243.86	53.731	.24747
#2	.03256	.10163	.28610	1.3329	244.89	53.882	.24766
#3	.03256	.10093	.28926	1.3227	244.73	53.869	.24965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**94.483**	**4.1855**	**.00890**	**5.6377**	**.21958**	F **-73265.**	**.79802**
Stddev	.332	.0080	.00008	.0185	.00129	171.	.00392
%RSD	.35131	.18991	.95201	.32817	.58632	.23291	.49161
#1	94.100	4.1766	.00885	5.6248	.22032	-73351.	.79849
#2	94.665	4.1879	.00884	5.6589	.22032	-73375.	.80168
#3	94.684	4.1920	.00899	5.6294	.21809	-73068.	.79388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041626S Acquired: 2/23/2011 17:58:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357238-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.495**	F **761.63**	F **-7466.1**	**.02186**	**.00562**	F **224.42**	**.01992**
Stddev	2.407	2.54	26.0	.00095	.00399	.81	.00047
%RSD	5.4090	.33409	.34817	4.3559	71.056	.36120	2.3632
#1	-45.178	762.32	-7480.7	.02120	.00528	225.25	.02043
#2	-41.821	763.76	-7481.5	.02295	.00180	224.39	.01984
#3	-46.488	758.81	-7436.1	.02143	.00976	223.63	.01950
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6126**	**1.6978**	**.01649**	**.46682**	**1.7217**	F **321.47**
Stddev	.0046	.0051	.00247	.00255	.0071	2.10
%RSD	.28399	.30159	14.959	.54633	.41387	.65249
#1	1.6078	1.6930	.01643	.46729	1.7246	321.84
#2	1.6170	1.7031	.01405	.46406	1.7270	319.21
#3	1.6130	1.6972	.01898	.46909	1.7136	323.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83245.**	**62926.**
Stddev	180.	314.
%RSD	.21648	.49968
#1	83155.	62933.
#2	83127.	63237.
#3	83452.	62608.

Approved: February 24, 2011

Sample Name: L1102041627SD Acquired: 2/23/2011 18:01:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357238-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20350**	**187.30**	**.28998**	**.07544**	**2.2921**	**.00761**	**688.91**
Stddev	.00045	1.39	.00197	.00238	.0028	.00003	1.95
%RSD	.22203	.74466	.68087	3.1600	.12074	.36911	.28327
#1	.20402	186.80	.29177	.07656	2.2900	.00759	687.04
#2	.20323	188.88	.29031	.07706	2.2912	.00760	688.77
#3	.20323	186.23	.28786	.07270	2.2953	.00764	690.93
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03295**	**.10646**	**.31321**	**1.3665**	**264.68**	**60.656**	**.27131**
Stddev	.00021	.00043	.00102	.0043	.42	.041	.00049
%RSD	.62399	.40134	.32586	.31125	.15709	.06754	.18125
#1	.03314	.10677	.31204	1.3668	264.33	60.609	.27129
#2	.03297	.10663	.31371	1.3706	264.57	60.675	.27181
#3	.03273	.10597	.31388	1.3621	265.14	60.685	.27082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**100.36**	**4.3128**	**.00927**	**6.0537**	**.23312**	F **-70536.**	**.79143**
Stddev	.15	.0034	.00014	.0147	.00087	278.	.00375
%RSD	.14552	.07954	1.5115	.24373	.37132	.39377	.47430
#1	100.20	4.3109	.00912	6.0503	.23370	-70738.	.79577
#2	100.49	4.3167	.00931	6.0410	.23352	-70651.	.78924
#3	100.38	4.3107	.00939	6.0699	.23212	-70220.	.78929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041627SD Acquired: 2/23/2011 18:01:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357238-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-46.560**	F **793.71**	F **-7401.2**	**.01821**	**.00234**	F **237.35**	**.02177**
Stddev	.980	.67	29.5	.00272	.00213	.54	.00024
%RSD	2.1047	.08423	.39860	14.957	91.212	.22808	1.1064
#1	-47.342	793.73	-7434.5	.02090	.00007	237.58	.02161
#2	-45.461	794.37	-7390.7	.01829	.00263	237.74	.02165
#3	-46.878	793.04	-7378.4	.01545	.00431	236.74	.02205
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6600**	**2.8342**	**.01941**	**.51048**	**1.7726**	F **360.86**
Stddev	.0010	.0048	.00216	.00118	.0045	.93
%RSD	.06348	.17032	11.145	.23134	.25276	.25813
#1	1.6601	2.8290	.01723	.50929	1.7739	361.75
#2	1.6588	2.8352	.02156	.51047	1.7763	359.89
#3	1.6609	2.8385	.01943	.51166	1.7676	360.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82529.**	**62652.**
Stddev	52.	22.
%RSD	.06331	.03476
#1	82586.	62636.
#2	82484.	62677.
#3	82516.	62644.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 18:05:40 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43064**	**10.681**	**.39838**	**.52760**	**1.0125**	**.05137**	**10.100**
Stddev	.00193	.049	.00088	.00110	.0005	.00031	.004
%RSD	.44893	.46235	.22086	.20830	.05336	.60731	.04011
#1	.43236	10.735	.39751	.52850	1.0120	.05157	10.099
#2	.43101	10.669	.39927	.52792	1.0130	.05153	10.097
#3	.42855	10.639	.39836	.52637	1.0124	.05101	10.105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04976**	**.20178**	**.53729**	**.49585**	**3.6910**	**51.600**	**1.0499**
Stddev	.00020	.00038	.00253	.00024	.0109	.046	.0023
%RSD	.39576	.18987	.47141	.04835	.29598	.08866	.22233
#1	.04961	.20210	.53850	.49560	3.7035	51.643	1.0496
#2	.04969	.20189	.53900	.49608	3.6857	51.604	1.0524
#3	.04999	.20136	.53438	.49587	3.6837	51.552	1.0478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.1324**	**.46042**	**.99704**	**51.868**	**.50392**	F **-37.041**	**.49137**
Stddev	.0524	.00148	.00072	.083	.00144	11.996	.00151
%RSD	.57364	.32042	.07234	.15922	.28623	32.385	.30769
#1	9.1797	.45904	.99765	51.915	.50549	-44.162	.49144
#2	9.1414	.46198	.99625	51.917	.50361	-43.770	.48983
#3	9.0761	.46024	.99722	51.773	.50265	-23.191	.49285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 18:05:40 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-27.599**	**10.104**	F **14.941**	**1.2080**	**.39633**	F **3.9058**	**1.0050**
Stddev	2.588	.023	.810	.0038	.00173	.0455	.0027
%RSD	9.3766	.22759	5.4221	.31588	.43753	1.1646	.26376
#1	-29.752	10.123	15.113	1.2093	.39476	3.9110	1.0073
#2	-28.317	10.110	14.059	1.2110	.39604	3.9484	1.0057
#3	-24.728	10.078	15.652	1.2037	.39819	3.8579	1.0021
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96924**	**.94790**	**.50953**	**1.0569**	**.99394**	F **5.6867**
Stddev	.00350	.00315	.00160	.0052	.00146	.6204
%RSD	.36105	.33230	.31481	.49302	.14670	10.910
#1	.97147	.95045	.50773	1.0574	.99474	5.0379
#2	.97105	.94887	.51080	1.0619	.99483	5.7480
#3	.96520	.94438	.51006	1.0515	.99226	6.2742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88430.**	**61884.**
Stddev	198.	201.
%RSD	.22443	.32405
#1	88638.	61751.
#2	88409.	61787.
#3	88243.	62115.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 18:09:11 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.01706**	**-.00031**	**.00079**	**.00111**	**-.00004**	**-.01375**
Stddev	.00053	.00427	.00032	.00069	.00006	.00004	.01332
%RSD	415.10	25.016	102.20	86.618	5.5423	88.070	96.822
#1	.00066	.02196	.00002	.00129	.00110	-.00002	-.02320
#2	-.00039	.01510	-.00034	.00001	.00117	-.00008	-.01954
#3	.00012	.01413	-.00062	.00108	.00105	-.00002	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00002**	**.00015**	**-.00009**	**-.00138**	**-.02254**	**.01892**
Stddev	.0001	.00016	.00040	.00067	.00119	.05332	.00314
%RSD	1166.8	1007.8	267.98	770.54	86.186	236.61	16.616
#1	-.00005	.00003	.00031	.00000	-.00270	.01615	.01588
#2	.00005	-.00019	-.00030	-.00080	-.00105	-.00040	.01873
#3	-.00001	.00011	.00043	.00054	-.00039	-.08336	.02215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00032**	**.00056**	**.02128**	**.00122**	F **17.376**	**.00027**
Stddev	.01642	.00030	.00019	.01477	.00031	25.540	.00123
%RSD	4005.1	94.128	34.405	69.407	25.108	146.99	449.20
#1	.01194	.00021	.00069	.01445	.00104	33.702	-.00087
#2	.00768	.00009	.00034	.01116	.00105	30.483	.00157
#3	-.01839	.00067	.00065	.03823	.00158	-12.057	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 18:09:11 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-27.327**	F **-.02849**	F **8.9738**	**-.00169**	**.00343**	**-.24277**	**.00017**
Stddev	2.599	.02358	1.6132	.00029	.00151	.14345	.00013
%RSD	9.5120	82.763	17.977	17.280	44.098	59.090	73.955
#1	-25.703	-.02449	10.768	-.00166	.00500	-.37991	.00004
#2	-25.953	-.00717	8.5100	-.00200	.00198	-.25467	.00030
#3	-30.325	-.05382	7.6432	-.00141	.00332	-.09374	.00018
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00033**	**.00126**	**-.00025**	**-.00006**	F **-.30567**
Stddev	.00009	.00166	.00040	.00044	.00001	.30303
%RSD	135.16	504.97	31.658	176.75	15.237	99.137
#1	.00004	.00158	.00124	-.00073	-.00006	-.54620
#2	-.00011	-.00155	.00168	-.00015	-.00005	-.40548
#3	-.00013	.00096	.00088	.00013	-.00007	.03468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90656.**	**62447.**
Stddev	330.	310.
%RSD	.36421	.49644
#1	91034.	62261.
#2	90429.	62275.
#3	90504.	62805.

Approved: February 24, 2011

Sample Name: L1102041628 Acquired: 2/23/2011 18:12:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01917**	**191.86**	**.10635**	**.06802**	**2.6243**	**.00730**	F **1034.6**
Stddev	.00049	3.60	.00342	.00156	.0061	.00012	14.2
%RSD	2.5559	1.8773	3.2201	2.2883	.23243	1.6879	1.3690
#1	.01973	188.27	.10980	.06764	2.6180	.00721	1018.4
#2	.01886	191.84	.10296	.06973	2.6249	.00726	1040.3
#3	.01892	195.47	.10630	.06669	2.6301	.00744	1044.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00957**	**.10260**	**.32441**	**.89629**	**259.91**	**56.795**	**.30008**
Stddev	.00018	.00018	.00547	.00389	1.04	.257	.00190
%RSD	1.8280	.17241	1.6850	.43404	.39999	.45247	.63313
#1	.00945	.10270	.32112	.90009	258.88	56.510	.29812
#2	.00950	.10239	.32140	.89645	259.89	56.869	.30021
#3	.00977	.10271	.33072	.89231	260.96	57.008	.30191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**105.16**	**3.7312**	**.00867**	**10.079**	**.22582**	F **-67250.**	**.64404**
Stddev	1.04	.0096	.00016	.030	.00032	15.	.00376
%RSD	.99040	.25785	1.8773	.30123	.14284	.02238	.58390
#1	104.17	3.7226	.00848	10.050	.22613	-67240.	.64829
#2	105.07	3.7296	.00876	10.077	.22585	-67243.	.64267
#3	106.25	3.7416	.00877	10.110	.22549	-67267.	.64116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041628 Acquired: 2/23/2011 18:12:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-52.953**	F **1205.8**	F **-8504.5**	**.01958**	**.00492**	F **232.03**	**.02611**
Stddev	2.119	1.8	6.2	.00185	.00515	1.08	.00021
%RSD	4.0020	.14740	.07337	9.4337	104.68	.46385	.81650
#1	-51.962	1207.9	-8508.9	.02171	.00026	233.14	.02587
#2	-55.387	1204.9	-8507.2	.01842	.00406	231.96	.02627
#3	-51.512	1204.7	-8497.3	.01861	.01045	231.00	.02619
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.4132**	**3.1499**	**.01761**	**.52739**	**1.0661**	F **328.57**
Stddev	.0136	.0144	.00167	.00940	.0018	5.35
%RSD	.56329	.45638	9.4856	1.7815	.16403	1.6282
#1	2.4012	3.1336	.01607	.52165	1.0680	326.70
#2	2.4105	3.1554	.01738	.52229	1.0656	324.41
#3	2.4280	3.1608	.01939	.53824	1.0646	334.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81279.**	**62440.**
Stddev	336.	975.
%RSD	.41319	1.5608
#1	80916.	63187.
#2	81341.	62797.
#3	81579.	61338.

Approved: February 24, 2011

Sample Name: L1102041629 Acquired: 2/23/2011 18:16:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00986**	**181.05**	**.09699**	**.03893**	**2.5373**	**.00921**	**552.60**
Stddev	.00111	1.16	.00256	.00239	.0013	.00007	7.81
%RSD	11.289	.64145	2.6440	6.1370	.04997	.79785	1.4130
#1	.00860	180.63	.09793	.03850	2.5372	.00918	560.55
#2	.01073	182.36	.09895	.03678	2.5361	.00930	552.31
#3	.01024	180.15	.09409	.04150	2.5386	.00917	544.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02317**	**.10625**	**.32334**	**2.1139**	**273.79**	**46.733**	**.27711**
Stddev	.00009	.00026	.00366	.0029	.09	.065	.00166
%RSD	.40574	.24078	1.1325	.13721	.03171	.13828	.59876
#1	.02327	.10627	.32450	2.1165	273.89	46.672	.27796
#2	.02309	.10649	.32629	2.1144	273.73	46.728	.27520
#3	.02314	.10598	.31924	2.1107	273.75	46.800	.27817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**99.493**	**4.3130**	**.01856**	**11.108**	**.27926**	F **-66288.**	**1.7081**
Stddev	.250	.0100	.00015	.012	.00048	253.	.0071
%RSD	.25137	.23169	.81945	.10941	.17194	.38152	.41451
#1	99.343	4.3025	.01859	11.110	.27957	-66307.	1.7160
#2	99.354	4.3224	.01870	11.096	.27950	-66530.	1.7024
#3	99.782	4.3142	.01840	11.120	.27871	-66026.	1.7058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041629 Acquired: 2/23/2011 18:16:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-53.407**	F **713.33**	F **-11344.**	**.03144**	**.00348**	F **205.60**	**.07651**
Stddev	4.138	1.10	26.	.00292	.00315	.73	.00025
%RSD	7.7486	.15464	.22509	9.2897	90.520	.35726	.32167
#1	-51.919	713.91	-11371.	.03480	.00422	206.31	.07625
#2	-50.219	714.02	-11341.	.02991	.00002	205.65	.07655
#3	-58.084	712.05	-11320.	.02959	.00620	204.84	.07674
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3313**	**1.4361**	**.01506**	**.43378**	**3.7836**	F **350.20**
Stddev	.0049	.0018	.00163	.00348	.0052	2.00
%RSD	.37060	.12364	10.855	.80173	.13831	.57226
#1	1.3325	1.4353	.01470	.43315	3.7885	348.20
#2	1.3259	1.4349	.01684	.43753	3.7842	352.20
#3	1.3356	1.4381	.01363	.43066	3.7781	350.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83446.**	**65147.**
Stddev	102.	178.
%RSD	.12211	.27366
#1	83347.	65101.
#2	83550.	64997.
#3	83440.	65344.

Approved: February 24, 2011

Sample Name: L1102041630 Acquired: 2/23/2011 18:20:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01933**	**241.76**	**.11045**	**.05173**	**3.0849**	**.00971**	F **1000.2**
Stddev	.00054	.75	.00167	.00068	.0019	.00004	5.1
%RSD	2.8044	.31165	1.5098	1.3077	.06155	.37020	.51301
#1	.01872	240.92	.10857	.05127	3.0831	.00967	995.53
#2	.01977	242.36	.11104	.05250	3.0848	.00974	1005.7
#3	.01948	242.01	.11175	.05141	3.0869	.00973	999.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00643**	**.10745**	**.34671**	**.48905**	**276.87**	**53.279**	**.37063**
Stddev	.00001	.00029	.00205	.00277	.68	.076	.00107
%RSD	.22180	.26809	.59142	.56650	.24636	.14314	.28936
#1	.00642	.10778	.34435	.49150	276.46	53.193	.36947
#2	.00642	.10735	.34805	.48960	276.50	53.305	.37158
#3	.00644	.10723	.34773	.48604	277.66	53.339	.37083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**119.59**	**4.1252**	**.00774**	**10.518**	**.24724**	F **-51036.**	**.30011**
Stddev	.33	.0053	.00017	.016	.00022	127.	.00173
%RSD	.27938	.12940	2.2567	.14868	.08828	.24792	.57722
#1	119.21	4.1283	.00755	10.505	.24700	-51114.	.29835
#2	119.70	4.1190	.00778	10.514	.24742	-51104.	.30018
#3	119.85	4.1282	.00790	10.535	.24731	-50890.	.30181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041630 Acquired: 2/23/2011 18:20:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-48.446**	F **1158.7**	F **-7185.7**	**.01732**	**.00503**	F **236.06**	**.01884**
Stddev	.789	1.6	6.3	.00070	.00532	.78	.00037
%RSD	1.6286	.13967	.08738	4.0446	105.77	.32930	1.9718
#1	-48.939	1159.5	-7189.6	.01689	.00433	236.34	.01844
#2	-48.864	1159.8	-7178.4	.01813	.00009	236.65	.01892
#3	-47.536	1156.9	-7189.0	.01695	.01066	235.18	.01917
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.5406**	**3.2135**	**.01832**	**.54304**	**.94810**	F **429.89**
Stddev	.0078	.0055	.00025	.00224	.00102	1.27
%RSD	.30886	.17066	1.3816	.41190	.10787	.29480
#1	2.5315	3.2079	.01840	.54055	.94822	428.44
#2	2.5452	3.2188	.01804	.54370	.94905	430.74
#3	2.5450	3.2138	.01853	.54488	.94702	430.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80603.**	**62132.**
Stddev	123.	102.
%RSD	.15229	.16367
#1	80728.	62212.
#2	80483.	62165.
#3	80597.	62017.

Approved: February 24, 2011

Sample Name: L1102041631 Acquired: 2/23/2011 18:24:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00808**	**176.17**	**.10821**	**.03669**	**2.5198**	**.01000**	F **1273.0**
Stddev	.00058	2.81	.00013	.00354	.0056	.00018	13.6
%RSD	7.1712	1.5927	.12395	9.6515	.22151	1.7999	1.0645
#1	.00857	173.18	.10811	.03890	2.5134	.00986	1271.5
#2	.00822	176.58	.10815	.03857	2.5226	.00993	1260.3
#3	.00744	178.75	.10836	.03261	2.5234	.01020	1287.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00894**	**.09862**	**.28292**	**.88199**	**231.59**	**50.708**	**.28246**
Stddev	.00013	.00021	.00497	.00261	.67	.204	.00309
%RSD	1.4718	.21220	1.7556	.29584	.28961	.40281	1.0927
#1	.00880	.09879	.27974	.88473	230.83	50.474	.27951
#2	.00906	.09868	.28037	.88170	231.80	50.850	.28567
#3	.00896	.09838	.28864	.87954	232.12	50.799	.28219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**111.15**	**3.3730**	**.00698**	**3.7387**	**.22542**	F **-66912.**	**.37745**
Stddev	.49	.0098	.00012	.0092	.00038	256.	.00205
%RSD	.43817	.29066	1.6527	.24628	.16943	.38292	.54262
#1	110.62	3.3621	.00687	3.7281	.22573	-67204.	.37931
#2	111.24	3.3759	.00710	3.7450	.22553	-66806.	.37778
#3	111.58	3.3810	.00698	3.7429	.22499	-66725.	.37525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041631 Acquired: 2/23/2011 18:24:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.839**	F **1434.2**	F **-6250.2**	**.01775**	**.00423**	F **262.26**	**.01634**
Stddev	5.764	3.0	15.3	.00373	.00371	1.61	.00034
%RSD	12.855	.20585	.24467	21.000	87.695	.61256	2.0554
#1	-43.239	1436.4	-6262.3	.01357	.00009	263.22	.01595
#2	-40.044	1435.3	-6255.2	.01895	.00537	263.15	.01647
#3	-51.234	1430.8	-6233.0	.02072	.00725	260.40	.01658
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.4752**	**1.4881**	**.01372**	**.43716**	**1.0777**	F **325.42**
Stddev	.0058	.0039	.00189	.00690	.0031	6.81
%RSD	.23269	.26247	13.745	1.5785	.29133	2.0937
#1	2.4686	1.4836	.01219	.43162	1.0805	319.08
#2	2.4777	1.4906	.01315	.43497	1.0783	324.55
#3	2.4793	1.4902	.01583	.44489	1.0743	332.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81010.**	**61085.**
Stddev	195.	455.
%RSD	.24029	.74434
#1	80793.	61553.
#2	81069.	61057.
#3	81169.	60645.

Approved: February 24, 2011

Sample Name: L1102041632 Acquired: 2/23/2011 18:27:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00908**	**175.66**	**.11362**	**.03451**	**2.9979**	**.01023**	F **1471.4**
Stddev	.00129	3.09	.00109	.00146	.0032	.00008	3.2
%RSD	14.193	1.7582	.95827	4.2369	.10676	.78930	.21591
#1	.00775	178.74	.11311	.03333	2.9944	.01021	1470.8
#2	.01032	172.56	.11287	.03614	2.9985	.01017	1468.6
#3	.00917	175.69	.11487	.03405	3.0008	.01033	1474.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00670**	**.10126**	**.28683**	**.50011**	**231.02**	**45.718**	**.31234**
Stddev	.00004	.00005	.00099	.00197	.09	.173	.00241
%RSD	.66872	.04575	.34383	.39338	.03838	.37773	.77188
#1	.00665	.10130	.28686	.50237	230.93	45.581	.30956
#2	.00673	.10121	.28582	.49913	231.01	45.661	.31385
#3	.00673	.10126	.28780	.49883	231.11	45.912	.31360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**123.82**	**3.3478**	**.00710**	**4.7701**	**.22339**	F **-63194.**	**.24387**
Stddev	.58	.0056	.00021	.0044	.00110	101.	.00109
%RSD	.46520	.16619	2.9767	.09173	.49144	.16037	.44639
#1	123.56	3.3432	.00687	4.7715	.22391	-63227.	.24305
#2	123.42	3.3462	.00713	4.7652	.22412	-63274.	.24510
#3	124.48	3.3540	.00729	4.7736	.22212	-63080.	.24344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041632 Acquired: 2/23/2011 18:27:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-48.697**	F **1760.6**	F **-8632.0**	**.01776**	**.00454**	F **238.66**	**.01448**
Stddev	2.974	1.2	4.8	.00141	.00239	1.91	.00037
%RSD	6.1075	.06870	.05580	7.9550	52.640	.80093	2.5574
#1	-46.938	1762.0	-8637.2	.01747	.00221	239.50	.01419
#2	-52.131	1760.1	-8630.9	.01651	.00698	240.00	.01490
#3	-47.022	1759.8	-8627.8	.01929	.00442	236.47	.01436
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.2534**	**1.7149**	**.01420**	**.46519**	**.74506**	F **293.43**
Stddev	.0062	.0086	.00088	.00141	.00030	.58
%RSD	.18923	.50425	6.1893	.30225	.04049	.19792
#1	3.2468	1.7100	.01518	.46610	.74540	293.28
#2	3.2590	1.7099	.01394	.46357	.74483	292.94
#3	3.2545	1.7249	.01348	.46591	.74495	294.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79723.**	**61459.**
Stddev	148.	131.
%RSD	.18547	.21339
#1	79859.	61383.
#2	79744.	61610.
#3	79565.	61383.

Approved: February 24, 2011

Sample Name: L1102041633 Acquired: 2/23/2011 18:31:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02296**	**212.53**	**.10321**	**.10008**	**2.5840**	**.00721**	F **942.54**
Stddev	.00061	1.73	.00190	.00099	.0070	.00012	10.39
%RSD	2.6727	.81343	1.8409	.98695	.27047	1.6360	1.1028
#1	.02246	211.77	.10535	.09931	2.5783	.00711	931.19
#2	.02277	214.50	.10259	.09975	2.5918	.00734	951.59
#3	.02364	211.30	.10170	.10120	2.5819	.00718	944.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01423**	**.10136**	**.34687**	**1.4468**	**269.20**	**66.475**	**.28818**
Stddev	.00022	.00002	.00350	.0016	.88	.197	.00096
%RSD	1.5252	.02329	1.0092	.11311	.32797	.29633	.33304
#1	.01407	.10136	.34373	1.4487	268.23	66.287	.28737
#2	.01448	.10138	.35064	1.4459	269.95	66.680	.28792
#3	.01415	.10134	.34624	1.4459	269.44	66.458	.28924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**107.56**	**3.8575**	**.01709**	**9.1717**	**.24144**	F **-82267.**	**.73195**
Stddev	.38	.0104	.00007	.0259	.00110	119.	.00126
%RSD	.35358	.27066	.41390	.28254	.45639	.14426	.17208
#1	107.12	3.8455	.01714	9.1502	.24039	-82287.	.73168
#2	107.78	3.8647	.01713	9.2004	.24135	-82374.	.73332
#3	107.78	3.8623	.01701	9.1644	.24259	-82140.	.73084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041633 Acquired: 2/23/2011 18:31:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-47.727**	F **1141.3**	F **-13643.**	**.01744**	**.00721**	F **204.90**	**.03280**
Stddev	.537	1.1	26.	.00115	.00195	1.40	.00011
%RSD	1.1261	.09302	.18955	6.5904	27.055	.68203	.33290
#1	-48.213	1142.3	-13660.	.01690	.00499	206.33	.03272
#2	-47.818	1140.2	-13655.	.01666	.00866	204.83	.03275
#3	-47.150	1141.4	-13613.	.01876	.00799	203.54	.03292
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8582**	**3.7525**	**.01696**	**.50993**	**1.7810**	F **387.28**
Stddev	.0017	.0057	.00127	.00343	.0010	2.01
%RSD	.08894	.15254	7.4813	.67273	.05358	.51933
#1	1.8568	3.7490	.01841	.50694	1.7803	385.49
#2	1.8600	3.7591	.01604	.51368	1.7806	389.46
#3	1.8577	3.7494	.01643	.50917	1.7821	386.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81045.**	**61308.**
Stddev	236.	222.
%RSD	.29107	.36213
#1	81113.	61402.
#2	81239.	61054.
#3	80782.	61468.

Approved: February 24, 2011

Sample Name: L1102041634 Acquired: 2/23/2011 18:35:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00826**	**170.27**	**.11143**	**.04496**	**2.8035**	**.00955**	F **1357.4**
Stddev	.00118	1.64	.00145	.00229	.0052	.00004	17.9
%RSD	14.325	.96302	1.3000	5.0946	.18460	.39484	1.3155
#1	.00727	169.33	.10992	.04397	2.8088	.00952	1340.8
#2	.00794	169.31	.11281	.04333	2.7985	.00953	1376.3
#3	.00957	172.16	.11155	.04758	2.8031	.00959	1355.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00813**	**.09849**	**.28595**	**.66340**	**232.91**	**48.319**	**.28027**
Stddev	.00011	.00039	.00208	.00385	.43	.084	.00041
%RSD	1.4004	.40091	.72903	.57995	.18480	.17439	.14500
#1	.00820	.09879	.28433	.66197	232.95	48.252	.28029
#2	.00819	.09864	.28521	.66776	232.47	48.291	.27986
#3	.00799	.09805	.28830	.66047	233.32	48.414	.28067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**107.45**	**3.3050**	**.01464**	**6.7668**	**.21412**	F **-65185.**	**.30924**
Stddev	.46	.0040	.00036	.0212	.00065	117.	.00212
%RSD	.43184	.12069	2.4305	.31338	.30267	.17923	.68493
#1	106.99	3.3039	.01485	6.7900	.21415	-65279.	.30786
#2	107.44	3.3017	.01423	6.7485	.21475	-65223.	.31168
#3	107.92	3.3094	.01484	6.7617	.21346	-65054.	.30818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041634 Acquired: 2/23/2011 18:35:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-50.996**	F **1591.1**	F **-9086.6**	**.01609**	**.00977**	F **248.91**	**.01952**
Stddev	2.000	2.2	38.8	.00240	.00446	1.46	.00017
%RSD	3.9219	.13990	.42712	14.923	45.658	.58480	.87870
#1	-48.688	1592.9	-9128.3	.01385	.01079	250.04	.01939
#2	-52.207	1591.8	-9051.5	.01862	.01363	249.42	.01946
#3	-52.095	1588.6	-9080.0	.01579	.00489	247.27	.01972
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.6455**	**1.5707**	**.01374**	**.47129**	**.82329**	F **268.03**
Stddev	.0123	.0060	.00100	.00323	.00051	3.48
%RSD	.46524	.38012	7.2862	.68635	.06180	1.2996
#1	2.6587	1.5676	.01258	.46953	.82297	265.44
#2	2.6343	1.5669	.01432	.46933	.82388	266.67
#3	2.6436	1.5776	.01431	.47503	.82303	271.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81140.**	**60942.**
Stddev	110.	170.
%RSD	.13560	.27877
#1	81206.	60969.
#2	81201.	61097.
#3	81013.	60760.

Approved: February 24, 2011

Sample Name: L1102041635 Acquired: 2/23/2011 18:39:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07680**	**209.62**	**.08408**	**.02955**	**2.3135**	**.01010**	**672.48**
Stddev	.00050	3.57	.00058	.00063	.0025	.00011	2.96
%RSD	.64917	1.7035	.69109	2.1375	.10795	1.0920	.43990
#1	.07635	206.14	.08475	.02884	2.3118	.00998	675.76
#2	.07672	213.27	.08369	.03003	2.3164	.01018	671.67
#3	.07734	209.45	.08381	.02979	2.3124	.01014	670.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01344**	**.10258**	**.33778**	**.94414**	**268.19**	**59.477**	**.27660**
Stddev	.00011	.00017	.00304	.00229	.78	.114	.00060
%RSD	.84808	.16614	.90110	.24204	.29140	.19202	.21626
#1	.01337	.10276	.33427	.94661	267.29	59.430	.27707
#2	.01358	.10242	.33938	.94210	268.72	59.607	.27593
#3	.01338	.10256	.33970	.94371	268.57	59.394	.27680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**103.32**	**4.0989**	**.00798**	**7.3902**	**.25716**	F **-56839.**	**.46351**
Stddev	.59	.0100	.00017	.0156	.00023	69.	.00224
%RSD	.56984	.24386	2.1003	.21116	.08873	.12052	.48222
#1	102.75	4.0877	.00818	7.3726	.25721	-56887.	.46509
#2	103.27	4.1022	.00791	7.4025	.25735	-56869.	.46095
#3	103.93	4.1068	.00787	7.3954	.25691	-56760.	.46448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041635 Acquired: 2/23/2011 18:39:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.246**	F **754.56**	F **-6632.4**	**.02073**	**.00432**	F **232.02**	**.02149**
Stddev	3.304	.49	14.7	.00206	.00299	.81	.00033
%RSD	5.9807	.06522	.22152	9.9630	69.296	.35076	1.5262
#1	-58.735	755.08	-6644.0	.02284	.00119	231.86	.02184
#2	-54.837	754.10	-6637.2	.01871	.00460	232.91	.02119
#3	-52.165	754.51	-6615.9	.02063	.00715	231.31	.02145
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3095**	**1.7835**	**.01458**	**.43086**	**1.1318**	F **404.29**
Stddev	.0040	.0053	.00104	.00368	.0022	4.07
%RSD	.30608	.29876	7.1312	.85381	.19891	1.0066
#1	1.3061	1.7788	.01559	.42675	1.1339	399.73
#2	1.3084	1.7823	.01462	.43385	1.1294	407.58
#3	1.3139	1.7893	.01351	.43198	1.1320	405.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83801.**	**62522.**
Stddev	270.	466.
%RSD	.32215	.74462
#1	83797.	62992.
#2	84073.	62061.
#3	83533.	62515.

Approved: February 24, 2011

Sample Name: L1102041636 Acquired: 2/23/2011 18:42:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01296**	**207.49**	**.11876**	**.04625**	**3.1571**	**.00993**	F **1372.6**
Stddev	.00157	1.91	.00326	.00246	.0020	.00012	4.0
%RSD	12.085	.92061	2.7487	5.3151	.06199	1.2515	.28924
#1	.01366	207.55	.12158	.04904	3.1551	.00979	1368.0
#2	.01405	209.38	.11519	.04532	3.1590	.01003	1374.2
#3	.01116	205.56	.11952	.04440	3.1572	.00997	1375.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00709**	**.10287**	**.31936**	**.46112**	**244.70**	**51.074**	**.33392**
Stddev	.00016	.00007	.00354	.00196	.43	.238	.00202
%RSD	2.2838	.06379	1.1085	.42429	.17440	.46652	.60551
#1	.00699	.10280	.31534	.46164	244.21	50.802	.33163
#2	.00728	.10294	.32202	.46277	244.99	51.247	.33463
#3	.00700	.10286	.32073	.45896	244.90	51.173	.33548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**115.78**	**3.5941**	**.00701**	**12.761**	**.23661**	F **-60613.**	**.21047**
Stddev	.89	.0069	.00029	.006	.00061	109.	.00181
%RSD	.76448	.19217	4.1616	.04705	.25931	.18036	.86229
#1	114.77	3.5877	.00706	12.765	.23590	-60728.	.20915
#2	116.42	3.5933	.00670	12.754	.23697	-60600.	.21254
#3	116.15	3.6014	.00728	12.763	.23696	-60511.	.20972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041636 Acquired: 2/23/2011 18:42:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-57.522**	F **1719.1**	F **-13459.**	**.01798**	**.00709**	F **331.53**	**.01507**
Stddev	6.554	3.7	25.	.00177	.00092	3.21	.00051
%RSD	11.393	.21539	.18434	9.8552	13.037	.96963	3.3692
#1	-54.443	1717.1	-13487.	.02002	.00603	333.59	.01453
#2	-53.076	1723.3	-13440.	.01714	.00769	333.18	.01514
#3	-65.049	1716.8	-13449.	.01679	.00756	327.83	.01554
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.8385**	**2.3523**	**.01614**	**.48381**	**.82708**	F **355.34**
Stddev	.0069	.0104	.00097	.00605	.00203	4.93
%RSD	.24234	.44140	5.9835	1.2496	.24561	1.3872
#1	2.8376	2.3415	.01560	.47729	.82669	350.27
#2	2.8458	2.3622	.01556	.48923	.82928	360.12
#3	2.8321	2.3531	.01725	.48490	.82528	355.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79713.**	**61994.**
Stddev	230.	607.
%RSD	.28842	.97869
#1	79873.	62666.
#2	79449.	61487.
#3	79816.	61828.

Approved: February 24, 2011

Sample Name: L1102041637 Acquired: 2/23/2011 18:46:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**175.66**	**.08559**	**-.00177**	**2.1911**	**.01117**	**511.91**
Stddev	.00040	1.65	.00233	.00039	.0115	.00008	2.84
%RSD	10.411	.93984	2.7270	22.184	.52395	.75575	.55571
#1	.00356	174.60	.08624	-.00208	2.1952	.01117	512.03
#2	.00364	177.56	.08753	-.00133	2.2000	.01126	514.69
#3	.00428	174.82	.08300	-.00190	2.1781	.01109	509.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00495**	**.10918**	**.29238**	**4.8947**	**254.77**	**50.126**	**.26352**
Stddev	.00010	.00009	.00181	.0036	1.44	.275	.00109
%RSD	2.1138	.08600	.61802	.07343	.56707	.54941	.41397
#1	.00494	.10915	.29367	4.8984	255.15	50.159	.26425
#2	.00505	.10928	.29316	4.8912	255.98	50.383	.26404
#3	.00485	.10910	.29031	4.8944	253.17	49.835	.26226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**94.467**	**4.2437**	**.04048**	**10.386**	**.22459**	F **-40526.**	**.35158**
Stddev	.606	.0252	.00036	.043	.00136	28.	.00452
%RSD	.64161	.59309	.89697	.41572	.60662	.06812	1.2859
#1	94.552	4.2414	.04019	10.405	.22584	-40548.	.35648
#2	95.026	4.2699	.04089	10.417	.22314	-40536.	.34757
#3	93.823	4.2197	.04036	10.337	.22481	-40495.	.35069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041637 Acquired: 2/23/2011 18:46:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-51.511**	F **597.05**	F **-7302.8**	**.01355**	**.01078**	F **239.28**	**.02453**
Stddev	2.975	1.32	7.6	.00412	.00388	.72	.00083
%RSD	5.7750	.22046	.10441	30.438	36.038	.29882	3.3916
#1	-52.343	597.21	-7311.0	.01818	.01465	239.50	.02406
#2	-48.208	595.66	-7296.0	.01029	.00689	239.87	.02549
#3	-53.981	598.28	-7301.4	.01217	.01079	238.48	.02403
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1491**	**.77434**	**.01253**	**.35881**	**.80705**	F **322.00**
Stddev	.0060	.00326	.00014	.00240	.00056	3.30
%RSD	.51852	.42084	1.0811	.67025	.06880	1.0247
#1	1.1525	.77370	.01257	.36022	.80759	325.25
#2	1.1525	.77787	.01239	.36018	.80648	322.10
#3	1.1422	.77145	.01265	.35603	.80709	318.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84364.**	**62179.**
Stddev	259.	424.
%RSD	.30679	.68234
#1	84178.	62005.
#2	84659.	61870.
#3	84254.	62663.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 18:50:22 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42663**	**10.599**	**.39754**	**.52360**	**1.0108**	**.05104**	**10.066**
Stddev	.00295	.083	.00126	.00275	.0027	.00029	.053
%RSD	.69070	.78049	.31694	.52576	.26904	.57377	.52704
#1	.42796	10.598	.39740	.52485	1.0133	.05115	10.123
#2	.42867	10.683	.39886	.52551	1.0079	.05127	10.057
#3	.42325	10.518	.39635	.52044	1.0111	.05071	10.018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04933**	**.20042**	**.53090**	**.49142**	**3.6563**	**51.478**	**1.0496**
Stddev	.00010	.00012	.00542	.00049	.0221	.111	.0041
%RSD	.20166	.06159	1.0206	.09980	.60414	.21537	.39116
#1	.04941	.20056	.53342	.49183	3.6818	51.588	1.0536
#2	.04922	.20033	.53460	.49156	3.6444	51.480	1.0454
#3	.04936	.20036	.52468	.49088	3.6426	51.366	1.0498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.0239**	**.45480**	**.98873**	**51.538**	**.50149**	F **-4.5627**	**.48754**
Stddev	.0265	.00171	.00092	.142	.00099	27.508	.00127
%RSD	.29347	.37491	.09283	.27498	.19697	602.88	.26140
#1	9.0349	.45673	.98979	51.691	.50066	25.392	.48862
#2	9.0430	.45421	.98826	51.412	.50258	-10.391	.48788
#3	8.9936	.45347	.98815	51.512	.50123	-28.689	.48613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 18:50:22 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-31.971**	**10.144**	F **8.7757**	**1.2026**	**.38978**	F **3.9095**	**.99905**
Stddev	4.904	.046	2.1506	.0016	.00140	.0487	.00144
%RSD	15.339	.45636	24.507	.12962	.35928	1.2458	.14420
#1	-26.722	10.176	6.4627	1.2029	.38838	3.9301	.99961
#2	-36.435	10.091	10.715	1.2010	.39118	3.9446	1.0001
#3	-32.758	10.166	9.1493	1.2040	.38979	3.8539	.99741
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		-10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96156**	**.94120**	**.50478**	**1.0475**	**.98437**	F **8.8300**
Stddev	.00499	.00508	.00208	.0071	.00236	1.4061
%RSD	.51861	.53937	.41209	.67577	.23963	15.924
#1	.96585	.94555	.50712	1.0523	.98594	7.3320
#2	.95609	.93562	.50315	1.0508	.98550	9.0364
#3	.96274	.94242	.50406	1.0394	.98166	10.121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89115.**	**62274.**
Stddev	200.	179.
%RSD	.22468	.28701
#1	89235.	62145.
#2	88884.	62198.
#3	89226.	62478.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 18:53:53 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00110**	**.01905**	**.00055**	**.00191**	**.00104**	**-.00002**	**-.01025**
Stddev	.00050	.00224	.00047	.00083	.00023	.00002	.02161
%RSD	45.296	11.741	85.370	43.311	22.513	99.204	210.91
#1	-.00146	.01991	.00094	.00236	.00131	-.00003	-.02949
#2	-.00132	.02074	.00003	.00242	.00089	.00000	.01313
#3	-.00053	.01652	.00068	.00096	.00092	-.00003	-.01438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00004**	**.00064**	**-.00038**	**.00192**	**-.05783**	**.02277**
Stddev	.00004	.00007	.00033	.00033	.00694	.03113	.00204
%RSD	455.22	179.30	52.336	86.438	361.31	53.823	8.9794
#1	.00003	.00004	.00052	-.00075	.00259	-.03279	.02479
#2	.00003	-.00011	.00102	-.00013	-.00533	-.04802	.02071
#3	-.00004	-.00005	.00038	-.00025	.00850	-.09268	.02280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00994**	**-.00020**	**.00071**	**.00634**	**.00033**	F **6.8973**	**.00137**
Stddev	.04004	.00067	.00034	.01027	.00055	22.047	.00136
%RSD	402.98	333.38	48.520	162.03	165.72	319.65	98.715
#1	.03913	.00046	.00111	-.00050	.00074	-10.182	-.00017
#2	.02638	-.00087	.00050	.01815	-.00029	31.787	.00194
#3	-.03571	-.00019	.00052	.00137	.00055	-.9128	.00235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 18:53:53 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-32.359**	F **.01724**	F **7.6956**	**-.00077**	**.00272**	**-.61625**	**.00017**
Stddev	5.586	.02470	1.9630	.00188	.00292	.04377	.00028
%RSD	17.262	143.31	25.508	245.32	107.26	7.1022	162.97
#1	-38.808	-.00656	5.9418	-.00253	.00160	-.60221	-.00013
#2	-29.089	.01552	7.3289	.00121	.00604	-.58122	.00022
#3	-29.178	.04275	9.8161	-.00097	.00053	-.66531	.00042
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00029**	**.00152**	**-.00005**	**-.00004**	**-.03297**
Stddev	.00005	.00111	.00126	.00021	.00004	.09686
%RSD	24.257	383.64	82.928	406.15	98.059	293.81
#1	-.00014	-.00078	.00276	.00019	-.00001	.00110
#2	-.00020	.00099	.00025	-.00015	-.00003	.04226
#3	-.00022	-.00108	.00154	-.00020	-.00008	-.14226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90815.**	**63067.**
Stddev	286.	659.
%RSD	.31523	1.0451
#1	90701.	62914.
#2	90602.	62499.
#3	91140.	63790.

Approved: February 24, 2011

Sample Name: L1102041638 Acquired: 2/23/2011 18:57:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00345**	**168.69**	**.07873**	**-.00451**	**2.2055**	**.01045**	**610.46**
Stddev	.00054	2.50	.00172	.00123	.0025	.00004	8.44
%RSD	15.796	1.4841	2.1801	27.247	.11147	.40665	1.3824
#1	.00403	167.00	.07925	-.00499	2.2031	.01043	616.11
#2	.00337	171.57	.08012	-.00543	2.2053	.01050	614.50
#3	.00295	167.51	.07681	-.00311	2.2080	.01042	600.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00386**	**.09454**	**.29871**	**.88113**	**233.98**	**42.007**	**.30327**
Stddev	.00010	.00027	.00220	.00526	.41	.021	.00203
%RSD	2.6245	.28252	.73565	.59674	.17647	.04969	.67023
#1	.00387	.09453	.29721	.88337	233.64	42.026	.30342
#2	.00395	.09482	.30123	.88490	234.44	42.010	.30116
#3	.00375	.09428	.29768	.87512	233.87	41.984	.30522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**93.030**	**3.8642**	**.00894**	**16.934**	**.21225**	F **-35458.**	**.16587**
Stddev	.229	.0055	.00025	.035	.00062	27.	.00203
%RSD	.24599	.14296	2.8474	.20405	.29303	.07532	1.2238
#1	92.771	3.8598	.00876	16.896	.21295	-35482.	.16699
#2	93.206	3.8704	.00883	16.963	.21202	-35462.	.16352
#3	93.113	3.8623	.00923	16.943	.21177	-35429.	.16709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041638 Acquired: 2/23/2011 18:57:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-50.696**	F **703.59**	F **-7031.4**	**.00985**	**.00378**	F **252.80**	**.01135**
Stddev	3.561	2.57	11.3	.00084	.00443	2.10	.00025
%RSD	7.0251	.36471	.16100	8.5135	117.24	.83131	2.2463
#1	-51.758	704.38	-7022.3	.01063	.00296	253.21	.01106
#2	-53.605	705.67	-7027.8	.00896	-.00018	254.66	.01147
#3	-46.724	700.72	-7044.1	.00994	.00857	250.52	.01152
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.5616**	**.84349**	**.01194**	**.39245**	**.61535**	F **309.24**
Stddev	.0054	.00257	.00110	.00281	.00267	3.40
%RSD	.34412	.30461	9.1885	.71528	.43365	1.1010
#1	1.5568	.84234	.01152	.39102	.61756	309.97
#2	1.5606	.84170	.01318	.39569	.61610	312.22
#3	1.5674	.84644	.01111	.39065	.61238	305.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82924.**	**61390.**
Stddev	348.	426.
%RSD	.41970	.69340
#1	82605.	61390.
#2	82873.	60964.
#3	83295.	61816.

Approved: February 24, 2011

Sample Name: L1102041639 Acquired: 2/23/2011 19:01:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00741**	**185.29**	**.08965**	**.03913**	**2.3863**	**.01097**	**505.78**
Stddev	.00004	1.15	.00215	.00104	.0027	.00007	.52
%RSD	.57383	.62174	2.3960	2.6536	.11475	.62614	.10268
#1	.00741	186.11	.09137	.03802	2.3847	.01104	506.34
#2	.00745	185.78	.08724	.04007	2.3848	.01096	505.69
#3	.00737	183.97	.09033	.03931	2.3895	.01090	505.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00680**	**.11072**	**.30430**	**5.2562**	**275.23**	**51.215**	**.26950**
Stddev	.00022	.00023	.00123	.0078	.31	.139	.00229
%RSD	3.1907	.20694	.40400	.14934	.11187	.27090	.85131
#1	.00680	.11093	.30556	5.2646	274.95	51.058	.26699
#2	.00659	.11076	.30310	5.2548	275.18	51.269	.27003
#3	.00703	.11047	.30424	5.2491	275.56	51.319	.27149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**97.213**	**4.2187**	**.04093**	**12.394**	**.23032**	F **-50196.**	**.36804**
Stddev	.209	.0029	.00021	.021	.00058	93.	.00076
%RSD	.21505	.06898	.50120	.16779	.25083	.18548	.20620
#1	97.201	4.2155	.04110	12.379	.23042	-50219.	.36891
#2	97.010	4.2193	.04070	12.386	.23084	-50275.	.36750
#3	97.428	4.2212	.04099	12.418	.22970	-50094.	.36772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041639 Acquired: 2/23/2011 19:01:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-56.023**	F **592.54**	F **-7301.3**	**.01490**	**.00586**	F **315.52**	**.01810**
Stddev	3.089	1.68	14.7	.00239	.00064	1.41	.00017
%RSD	5.5141	.28416	.20066	16.035	10.957	.44560	.95075
#1	-57.508	594.32	-7284.5	.01576	.00526	315.55	.01824
#2	-58.089	590.97	-7311.1	.01220	.00578	316.91	.01791
#3	-52.471	592.35	-7308.5	.01675	.00654	314.10	.01815
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3159**	**1.2710**	**.01473**	**.43783**	**.88687**	F **407.91**
Stddev	.0041	.0018	.00007	.00144	.00112	2.74
%RSD	.31072	.14116	.47934	.32821	.12608	.67197
#1	1.3170	1.2700	.01477	.43942	.88793	409.94
#2	1.3114	1.2700	.01465	.43742	.88698	408.99
#3	1.3193	1.2731	.01477	.43664	.88571	404.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86289.**	**63338.**
Stddev	148.	440.
%RSD	.17170	.69418
#1	86366.	62832.
#2	86383.	63626.
#3	86118.	63556.

Approved: February 24, 2011

Sample Name: L1102041640 Acquired: 2/23/2011 19:04:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01663**	**216.68**	**.09425**	**.05636**	**2.5314**	**.00881**	**604.41**
Stddev	.00031	1.32	.00062	.00029	.0060	.00002	4.84
%RSD	1.8576	.60819	.65325	.50918	.23899	.28110	.80109
#1	.01633	216.15	.09484	.05642	2.5316	.00884	604.46
#2	.01661	218.17	.09431	.05604	2.5253	.00882	599.54
#3	.01695	215.70	.09361	.05660	2.5374	.00879	609.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00479**	**.10207**	**.33349**	**1.1350**	**269.70**	**54.237**	**.32632**
Stddev	.00017	.00050	.00126	.0059	.32	.193	.00189
%RSD	3.4817	.49098	.37644	.51974	.11742	.35493	.57772
#1	.00499	.10218	.33470	1.1367	269.83	54.140	.32713
#2	.00470	.10250	.33358	1.1399	269.34	54.113	.32417
#3	.00469	.10152	.33219	1.1285	269.94	54.459	.32767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**105.55**	**4.1155**	**.01319**	**17.249**	**.23041**	F **-43800.**	**.21871**
Stddev	.32	.0043	.00028	.058	.00001	201.	.00350
%RSD	.30622	.10566	2.1048	.33710	.00646	.45998	1.6000
#1	105.31	4.1119	.01336	17.263	.23039	-43994.	.21754
#2	105.43	4.1203	.01334	17.186	.23042	-43815.	.22264
#3	105.92	4.1143	.01287	17.299	.23042	-43592.	.21594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041640 Acquired: 2/23/2011 19:04:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-56.208**	F **756.90**	F **-10536.**	**.01210**	**.00561**	F **310.47**	**.02109**
Stddev	2.636	2.34	56.	.00136	.00191	4.53	.00029
%RSD	4.6902	.30978	.53469	11.228	34.068	1.4603	1.3945
#1	-53.948	756.43	-10597.	.01211	.00688	314.14	.02116
#2	-55.572	759.45	-10525.	.01074	.00341	311.87	.02134
#3	-59.104	754.83	-10485.	.01345	.00653	305.40	.02077
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8395**	**2.8209**	**.01777**	**.49312**	**.72092**	F **392.51**
Stddev	.0098	.0086	.00071	.00253	.00192	3.42
%RSD	.53057	.30575	4.0050	.51231	.26701	.87019
#1	1.8410	2.8137	.01702	.49547	.72177	395.53
#2	1.8291	2.8185	.01786	.49344	.72228	393.19
#3	1.8484	2.8304	.01844	.49045	.71872	388.80
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83728.**	**63846.**
Stddev	237.	177.
%RSD	.28264	.27800
#1	83999.	63653.
#2	83617.	63882.
#3	83566.	64002.

Approved: February 24, 2011

Sample Name: L1102041641 Acquired: 2/23/2011 19:08:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00699**	**175.50**	**.09316**	**.05958**	**2.1042**	**.00984**	**384.16**
Stddev	.00091	1.84	.00060	.00139	.0029	.00008	.93
%RSD	13.059	1.0508	.64658	2.3320	.13774	.79205	.24196
#1	.00805	177.40	.09276	.06058	2.1015	.00992	384.99
#2	.00651	175.40	.09288	.06017	2.1072	.00984	383.16
#3	.00642	173.71	.09386	.05799	2.1038	.00977	384.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00934**	**.12136**	**.30907**	**10.496**	**288.18**	**47.557**	**.23703**
Stddev	.00003	.00036	.00312	.025	.17	.080	.00272
%RSD	.33150	.30062	1.0083	.24177	.05784	.16836	1.1480
#1	.00938	.12176	.31262	10.522	288.18	47.634	.23541
#2	.00932	.12127	.30680	10.493	288.02	47.565	.24017
#3	.00932	.12105	.30779	10.472	288.35	47.474	.23551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**87.619**	**4.2183**	**.08336**	**7.0118**	**.25033**	F **-56021.**	**.90290**
Stddev	.249	.0070	.00023	.0275	.00062	108.	.00412
%RSD	.28388	.16658	.28186	.39169	.24814	.19340	.45652
#1	87.344	4.2260	.08363	6.9990	.25103	-56121.	.90637
#2	87.828	4.2123	.08326	6.9930	.24983	-56037.	.89834
#3	87.687	4.2165	.08318	7.0433	.25014	-55906.	.90400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041641 Acquired: 2/23/2011 19:08:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-47.587**	F **569.82**	F **-12543.**	**.01570**	**.01404**	F **227.04**	**.03322**
Stddev	8.556	1.20	19.	.00258	.00420	1.65	.00027
%RSD	17.979	.21028	.15496	16.441	29.918	.72672	.82379
#1	-40.939	570.92	-12565.	.01292	.01796	226.52	.03353
#2	-57.240	570.01	-12531.	.01615	.00960	228.89	.03301
#3	-44.583	568.54	-12533.	.01802	.01457	225.72	.03313
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4963**	**1.3879**	**.01574**	**.44348**	**1.0986**	F **336.18**
Stddev	.0062	.0027	.00143	.00380	.0022	4.56
%RSD	.41411	.19364	9.0969	.85635	.20469	1.3571
#1	1.4903	1.3848	.01725	.44780	1.1010	340.55
#2	1.5027	1.3893	.01440	.44194	1.0981	336.54
#3	1.4958	1.3896	.01558	.44069	1.0966	331.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84537.**	**62324.**
Stddev	50.	643.
%RSD	.05971	1.0321
#1	84537.	61609.
#2	84587.	62856.
#3	84486.	62507.

Approved: February 24, 2011

Sample Name: L1102041642 Acquired: 2/23/2011 19:12:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00870**	**210.39**	**.08689**	**.00540**	**2.6109**	**.01071**	**641.17**
Stddev	.00046	1.71	.00101	.00220	.0085	.00009	7.39
%RSD	5.2778	.81184	1.1568	40.863	.32647	.86507	1.1528
#1	.00923	211.56	.08646	.00391	2.6065	.01076	643.78
#2	.00848	208.43	.08618	.00793	2.6055	.01061	632.83
#3	.00839	211.19	.08804	.00435	2.6207	.01078	646.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**.10581**	**.32580**	**.95400**	**264.95**	**49.574**	**.29613**
Stddev	.00011	.00047	.00242	.00183	.38	.122	.00067
%RSD	2.5352	.44691	.74329	.19201	.14247	.24627	.22547
#1	.00423	.10578	.32762	.95405	264.79	49.513	.29627
#2	.00443	.10536	.32306	.95215	264.67	49.496	.29541
#3	.00440	.10630	.32673	.95581	265.38	49.715	.29672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**100.02**	**4.0142**	**.01110**	**9.8571**	**.23101**	F **-38963.**	**.19136**
Stddev	.39	.0083	.00039	.0392	.00119	24.	.00388
%RSD	.38662	.20625	3.5184	.39761	.51710	.06238	2.0253
#1	99.829	4.0170	.01123	9.8404	.23225	-38960.	.18873
#2	99.771	4.0207	.01066	9.8290	.22986	-38940.	.19581
#3	100.47	4.0049	.01140	9.9018	.23091	-38989.	.18954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041642 Acquired: 2/23/2011 19:12:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-47.387**	F **714.69**	F **-6173.4**	**.01055**	**.00408**	F **276.08**	**.01311**
Stddev	7.750	2.42	21.2	.00129	.00206	1.95	.00019
%RSD	16.354	.33912	.34341	12.262	50.467	.70771	1.4302
#1	-38.801	713.74	-6153.2	.00921	.00245	277.15	.01314
#2	-49.493	712.88	-6171.6	.01179	.00639	277.25	.01291
#3	-53.865	717.44	-6195.5	.01066	.00340	273.82	.01328
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.5900**	**1.5341**	**.01563**	**.46853**	**.67693**	F **366.60**
Stddev	.0118	.0044	.00164	.00223	.00055	1.23
%RSD	.74290	.28452	10.496	.47567	.08111	.33582
#1	1.5841	1.5301	.01464	.47031	.67686	367.22
#2	1.5823	1.5333	.01472	.46603	.67641	365.18
#3	1.6036	1.5388	.01752	.46924	.67751	367.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82907.**	**61627.**
Stddev	179.	371.
%RSD	.21574	.60194
#1	82841.	61235.
#2	83109.	61972.
#3	82770.	61673.

Approved: February 24, 2011

Sample Name: L1102041643 Acquired: 2/23/2011 19:16:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**186.93**	**.10101**	**-.00438**	**2.3670**	**.01238**	**444.48**
Stddev	.00013	1.98	.00147	.00035	.0043	.00015	.53
%RSD	3.4948	1.0587	1.4520	7.9866	.18197	1.2217	.11954
#1	.00372	185.23	.10147	-.00452	2.3717	.01255	444.32
#2	.00398	189.10	.09937	-.00464	2.3663	.01234	445.07
#3	.00378	186.45	.10219	-.00398	2.3632	.01225	444.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00573**	**.12987**	**.30217**	**13.129**	**284.06**	**52.883**	**.25508**
Stddev	.00012	.00013	.00190	.012	.34	.076	.00097
%RSD	2.0946	.09899	.62861	.09510	.11973	.14322	.37867
#1	.00584	.12992	.30403	13.131	284.37	52.812	.25398
#2	.00560	.12973	.30225	13.116	284.10	52.876	.25580
#3	.00573	.12997	.30024	13.141	283.70	52.963	.25545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**95.035**	**4.1799**	**.09339**	**8.2589**	**.23524**	F **-51668.**	**.31544**
Stddev	.250	.0080	.00013	.0338	.00013	50.	.00187
%RSD	.26323	.19182	.14374	.40958	.05675	.09639	.59308
#1	94.774	4.1709	.09337	8.2962	.23539	-51655.	.31531
#2	95.273	4.1865	.09327	8.2505	.23513	-51625.	.31364
#3	95.060	4.1821	.09354	8.2301	.23520	-51722.	.31737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041643 Acquired: 2/23/2011 19:16:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-50.292**	F **542.79**	F **-7796.4**	**.01655**	**.00785**	F **351.54**	**.01995**
Stddev	1.700	.44	14.4	.00258	.00186	1.29	.00019
%RSD	3.3795	.08072	.18485	15.618	23.647	.36559	.97544
#1	-49.745	543.03	-7806.0	.01403	.00643	352.95	.01977
#2	-52.197	543.05	-7779.8	.01919	.00718	351.23	.02016
#3	-48.933	542.28	-7803.4	.01642	.00995	350.44	.01993
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1189**	**.79356**	**.01365**	**.38925**	**.91004**	F **326.29**
Stddev	.0030	.00211	.00090	.00266	.00072	2.52
%RSD	.26685	.26594	6.6153	.68266	.07930	.77169
#1	1.1223	.79131	.01431	.39052	.91061	327.86
#2	1.1176	.79387	.01262	.39104	.90923	327.64
#3	1.1167	.79549	.01402	.38620	.91028	323.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84374.**	**61633.**
Stddev	178.	432.
%RSD	.21106	.70092
#1	84195.	61330.
#2	84376.	61441.
#3	84551.	62127.

Approved: February 24, 2011

Sample Name: L1102041644 Acquired: 2/23/2011 19:19:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00576**	**207.12**	**.07894**	**.00490**	**2.5081**	**.01139**	**579.80**
Stddev	.00066	3.66	.00133	.00213	.0019	.00011	3.25
%RSD	11.534	1.7692	1.6901	43.497	.07635	.97386	.56113
#1	.00636	203.62	.08013	.00736	2.5066	.01127	576.58
#2	.00588	206.80	.07749	.00379	2.5074	.01141	579.73
#3	.00505	210.93	.07919	.00355	2.5102	.01149	583.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00396**	**.10230**	**.31189**	**.96054**	**255.26**	**53.062**	**.28290**
Stddev	.00013	.00025	.00317	.00090	.30	.113	.00217
%RSD	3.1945	.24794	1.0150	.09380	.11862	.21228	.76816
#1	.00388	.10210	.30892	.96145	255.12	52.950	.28182
#2	.00411	.10222	.31153	.96054	255.06	53.176	.28540
#3	.00389	.10259	.31522	.95964	255.61	53.060	.28148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**99.048**	**4.0039**	**.01153**	**15.259**	**.22631**	F **-35475.**	**.17537**
Stddev	.200	.0072	.00016	.036	.00062	23.	.00141
%RSD	.20234	.17991	1.3737	.23918	.27380	.06428	.80321
#1	99.027	3.9968	.01145	15.238	.22581	-35487.	.17699
#2	99.258	4.0037	.01142	15.239	.22700	-35490.	.17462
#3	98.859	4.0112	.01171	15.302	.22613	-35449.	.17449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041644 Acquired: 2/23/2011 19:19:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-54.534**	F **672.82**	F **-7178.6**	**.01355**	**.00118**	F **259.15**	**.01297**
Stddev	3.650	.83	3.3	.00050	.00332	2.32	.00029
%RSD	6.6935	.12264	.04554	3.6904	282.43	.89458	2.2649
#1	-51.109	673.31	-7175.8	.01327	-.00170	260.88	.01325
#2	-58.374	671.86	-7182.2	.01413	.00481	260.06	.01300
#3	-54.119	673.27	-7177.9	.01326	.00041	256.52	.01266
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4366**	**1.0934**	**.01373**	**.41216**	**.66075**	F **366.24**
Stddev	.0001	.0011	.00028	.00307	.00071	2.11
%RSD	.00817	.10306	2.0432	.74505	.10755	.57625
#1	1.4367	1.0933	.01368	.40887	.66150	364.83
#2	1.4365	1.0923	.01348	.41264	.66065	365.22
#3	1.4367	1.0945	.01403	.41496	.66009	368.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83967.**	**61829.**
Stddev	164.	344.
%RSD	.19485	.55577
#1	83791.	62225.
#2	84115.	61655.
#3	83995.	61607.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 19:23:26 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42511**	**10.594**	**.39783**	**.52072**	**1.0087**	**.05117**	**9.9458**
Stddev	.00553	.113	.00176	.00729	.0011	.00066	.0180
%RSD	1.3012	1.0626	.44259	1.3993	.11109	1.2897	.18059
#1	.42251	10.588	.39947	.51970	1.0086	.05101	9.9554
#2	.42135	10.484	.39597	.51400	1.0076	.05061	9.9569
#3	.43146	10.709	.39805	.52846	1.0098	.05190	9.9250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04930**	**.19912**	**.52752**	**.49054**	**3.6162**	**51.394**	**1.0538**
Stddev	.00004	.00021	.00781	.00093	.0096	.149	.0009
%RSD	.08954	.10602	1.4807	.18971	.26578	.29054	.08322
#1	.04925	.19936	.52653	.49161	3.6249	51.310	1.0536
#2	.04934	.19897	.52025	.49014	3.6059	51.305	1.0530
#3	.04930	.19902	.53578	.48989	3.6177	51.566	1.0547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.0391**	**.45051**	**.98555**	**51.322**	**.49955**	F **-5.2370**	**.48749**
Stddev	.0388	.00041	.00025	.083	.00107	3.7170	.00011
%RSD	.42947	.09102	.02503	.16161	.21469	70.976	.02296
#1	9.0069	.45098	.98582	51.357	.50062	-1.5033	.48740
#2	9.0281	.45036	.98534	51.228	.49955	-8.9372	.48761
#3	9.0822	.45020	.98549	51.382	.49847	-5.2706	.48746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 19:23:26 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-42.714**	**9.9288**	F **14.047**	**1.1981**	**.39536**	F **3.6474**	**.99522**
Stddev	1.758	.0548	2.603	.0012	.00260	.0808	.00090
%RSD	4.1156	.55155	18.527	.09647	.65640	2.2142	.09031
#1	-43.781	9.9125	15.736	1.1984	.39326	3.7236	.99619
#2	-40.685	9.8841	15.355	1.1991	.39455	3.5628	.99441
#3	-43.675	9.9899	11.050	1.1969	.39826	3.6559	.99507
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96910**	**.94350**	**.50306**	**1.0428**	**.97974**	F **9.6944**
Stddev	.00150	.00355	.00240	.0130	.00076	1.3539
%RSD	.15475	.37641	.47714	1.2490	.07775	13.965
#1	.96888	.93983	.50342	1.0418	.97975	8.2164
#2	.96772	.94692	.50050	1.0303	.97898	9.9923
#3	.97069	.94375	.50526	1.0563	.98050	10.875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90670.**	**63207.**
Stddev	355.	653.
%RSD	.39158	1.0336
#1	90751.	63325.
#2	90977.	63792.
#3	90281.	62502.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 19:26:57 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00126**	**.01659**	**.00099**	**.00163**	**.00092**	**.00002**	**-.01304**
Stddev	.00093	.00273	.00116	.00045	.00028	.00004	.00879
%RSD	74.083	16.438	116.30	27.840	30.379	182.33	67.440
#1	-.00233	.01972	.00221	.00214	.00124	.00006	-.00304
#2	-.00084	.01529	.00085	.00127	.00081	.00000	-.01959
#3	-.00061	.01475	-.00008	.00149	.00071	-.00001	-.01649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00010**	**.00003**	**.00005**	**.00231**	**-.05363**	**.02238**
Stddev	.00008	.00012	.00017	.00024	.00190	.04162	.00277
%RSD	1188.8	126.55	535.98	441.38	82.235	77.608	12.368
#1	.00003	.00003	-.00016	.00032	.00364	-.00915	.02009
#2	-.00008	-.00011	.00007	-.00013	.00013	-.06010	.02546
#3	.00007	-.00021	.00019	-.00003	.00315	-.09163	.02160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02220**	**.00045**	**.00051**	**-.00162**	**.00137**	F **8.0550**	**-.00033**
Stddev	.00533	.00052	.00009	.00749	.00030	39.083	.00100
%RSD	24.025	115.38	17.506	462.43	21.700	485.20	298.24
#1	.01633	-.00015	.00047	-.00413	.00170	43.558	-.00148
#2	.02352	.00077	.00045	-.00753	.00126	14.431	.00026
#3	.02675	.00074	.00062	.00680	.00114	-33.824	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 19:26:57 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-38.369**	F **-.08937**	F **8.9269**	**-.00047**	**.00336**	**-.53837**	**.00043**
Stddev	3.327	.03419	1.1246	.00172	.00072	.08850	.00028
%RSD	8.6702	38.260	12.598	367.64	21.343	16.438	65.899
#1	-35.850	-.12527	7.9659	-.00243	.00283	-.43620	.00050
#2	-37.117	-.05719	8.6510	.00025	.00418	-.58772	.00012
#3	-42.140	-.08565	10.164	.00077	.00308	-.59119	.00067
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00068**	**.00160**	**.00008**	**-.00003**	F **.19552**
Stddev	.00006	.00035	.00120	.00015	.00006	.40964
%RSD	32.168	50.927	75.072	196.53	187.81	209.51
#1	-.00019	.00059	.00166	.00000	.00002	.62634
#2	-.00012	.00106	.00276	-.00002	-.00002	-.18901
#3	-.00023	.00039	.00037	.00025	-.00010	.14923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92143.**	**63549.**
Stddev	312.	319.
%RSD	.33806	.50169
#1	92418.	63507.
#2	92205.	63254.
#3	91805.	63887.

Approved: February 24, 2011

Sample Name: PBS 98 Acquired: 2/23/2011 19:30:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357336-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**.01621**	**-.00202**	**.00002**	**.00121**	**.00003**	**-.01020**
Stddev	.00101	.01414	.00161	.00107	.00052	.00004	.00890
%RSD	106.29	87.265	79.774	4437.4	43.185	134.71	87.222
#1	-.00208	-.00012	-.00042	.00104	.00061	.00007	-.00349
#2	-.00064	.02399	-.00365	-.00110	.00145	.00001	-.02030
#3	-.00013	.02475	-.00200	.00013	.00158	.00000	-.00683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00028**	**.00058**	**.00070**	**.00643**	**-.10439**	**.02139**
Stddev	.00006	.00010	.00029	.00042	.00368	.05875	.00368
%RSD	76.038	37.415	50.541	60.089	57.150	56.282	17.202
#1	.00015	-.00028	.00037	.00099	.00711	-.03655	.01743
#2	.00006	-.00017	.00092	.00022	.00246	-.13756	.02471
#3	.00003	-.00038	.00046	.00091	.00972	-.13904	.02202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.00009**	**.00036**	**.00155**	**.00191**	**79.468**	**.00050**
Stddev	.02549	.00015	.00015	.00772	.00070	34.852	.00053
%RSD	7583.7	175.87	42.176	499.12	36.750	43.857	105.12
#1	.01300	-.00020	.00050	.00728	.00270	117.11	-.00007
#2	-.02973	.00009	.00039	-.00723	.00135	72.983	.00060
#3	.01572	-.00015	.00020	.00458	.00168	48.314	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 24, 2011

Sample Name: PBS 98 Acquired: 2/23/2011 19:30:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357336-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-36.074**	**.01494**	**5.6285**	**.00087**	**.00462**	**1.5080**	**.00072**
Stddev	2.480	.02822	1.7128	.00167	.00151	.0422	.00003
%RSD	6.8747	188.89	30.431	192.69	32.586	2.7973	3.9048
#1	-38.588	.04251	5.6378	-.00104	.00514	1.4768	.00074
#2	-33.629	.01620	7.3366	.00209	.00293	1.5560	.00069
#3	-36.006	-.01389	3.9111	.00156	.00580	1.4912	.00074
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00137**	**.00028**	**-.00010**	**.00158**	**.18633**
Stddev	.00004	.00095	.00097	.00015	.00001	.89886
%RSD	18.947	69.152	345.92	151.28	.81330	482.41
#1	-.00024	.00238	.00048	-.00017	.00158	1.0788
#2	-.00017	.00050	-.00077	.00007	.00160	-.71877
#3	-.00020	.00124	.00113	-.00020	.00157	.19892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88286.**	**61483.**
Stddev	279.	4686.
%RSD	.31598	7.6220
#1	88603.	66895.
#2	88080.	58772.
#3	88173.	58783.

Approved: February 24, 2011

Sample Name: LCSS 98 Acquired: 2/23/2011 19:34:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357336-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21209**	**.01950**	**.19442**	**.00108**	**.00162**	**.00004**	**.01196**
Stddev	.00107	.00408	.00048	.00042	.00010	.00004	.00632
%RSD	.50553	20.918	.24726	38.797	6.2242	108.48	52.797
#1	.21145	.02416	.19485	.00124	.00150	.00003	.01674
#2	.21150	.01656	.19390	.00060	.00169	.00009	.01435
#3	.21333	.01779	.19452	.00140	.00166	.00000	.00480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02460**	**-.00035**	**.00106**	**.25432**	**.01707**	**-.13280**	**.01952**
Stddev	.00008	.00011	.00018	.00048	.00351	.02019	.00097
%RSD	.32971	29.866	16.788	.18789	20.582	15.200	4.9496
#1	.02463	-.00041	.00088	.25485	.01317	-.14091	.01874
#2	.02467	-.00023	.00108	.25393	.01806	-.10982	.02060
#3	.02451	-.00042	.00123	.25417	.01999	-.14767	.01921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00810**	**.23932**	**.00012**	**.00621**	**.00202**	**53.277**	**.25472**
Stddev	.00984	.00121	.00008	.00976	.00068	23.007	.00067
%RSD	121.48	.50726	72.280	157.22	33.566	43.183	.26359
#1	.00776	.23826	.00016	.01735	.00251	27.437	.25473
#2	.01810	.23907	.00017	-.00080	.00231	60.860	.25404
#3	-.00157	.24065	.00002	.00206	.00125	71.536	.25539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: February 24, 2011

Sample Name: LCSS 98 Acquired: 2/23/2011 19:34:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357336-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-31.249**	**.16025**	F **-4.0309**	**.00203**	**.00480**	**2.3573**	**.00053**
Stddev	2.323	.01814	1.0476	.00262	.00018	.1344	.00035
%RSD	7.4339	11.320	25.990	128.78	3.7543	5.7025	66.800
#1	-33.221	.14385	-5.0028	.00418	.00471	2.4911	.00025
#2	-31.839	.15716	-4.1687	-.00088	.00501	2.3585	.00041
#3	-28.688	.17974	-2.9212	.00280	.00468	2.2222	.00092
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00010**	**-.00017**	**.00008**	**.00190**	**.02882**
Stddev	.00017	.00135	.00043	.00011	.00008	.72308
%RSD	126.22	1285.1	250.98	146.05	4.1728	2509.3
#1	.00006	.00120	-.00059	.00017	.00185	-.61522
#2	-.00023	-.00149	.00027	-.00005	.00185	.81101
#3	-.00023	-.00002	-.00019	.00010	.00199	-.10933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87608.**	**60174.**
Stddev	49.	188.
%RSD	.05626	.31272
#1	87580.	60071.
#2	87579.	60391.
#3	87665.	60061.

Approved: February 24, 2011

Sample Name: L1102041813 Acquired: 2/23/2011 19:38:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06851**	**258.53**	**.11546**	**.07962**	**2.9279**	F **-.00117**
Stddev	.00023	3.29	.00148	.00298	.0051	.00011
%RSD	.33357	1.2731	1.2840	3.7489	.17326	9.0410
#1	.06872	261.37	.11661	.07623	2.9221	-.00114
#2	.06826	259.30	.11378	.08184	2.9307	-.00129
#3	.06855	254.93	.11598	.08079	2.9310	-.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.00050

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**786.36**	**.00734**	**.17472**	**.36770**	**2.4149**	**363.06**
Stddev	18.60	.00013	.00084	.00490	.0100	.42
%RSD	2.3652	1.8275	.47998	1.3318	.41391	.11535
#1	799.38	.00719	.17553	.37329	2.4238	362.79
#2	765.06	.00744	.17477	.36565	2.4167	363.54
#3	794.65	.00740	.17385	.36416	2.4041	362.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**94.872**	**.46409**	**176.11**	**6.5297**	**.01070**	**7.1974**
Stddev	.143	.00283	.60	.0080	.00040	.0242
%RSD	.15112	.61007	.34237	.12334	3.6983	.33567
#1	94.965	.46572	175.69	6.5378	.01103	7.1758
#2	94.707	.46083	175.84	6.5217	.01079	7.2235
#3	94.943	.46574	176.80	6.5297	.01026	7.1928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041813 Acquired: 2/23/2011 19:38:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31462**	F **-112000.**	**.35610**	F **-54.662**	F **895.55**	F **-7810.7**
Stddev	.00094	304.	.00176	6.082	2.67	5.9
%RSD	.29882	.27107	.49346	11.127	.29767	.07515
#1	.31486	-112220.	.35717	-57.416	897.31	-7817.0
#2	.31541	-112130.	.35706	-58.880	896.86	-7805.3
#3	.31358	-111660.	.35407	-47.690	892.48	-7809.7
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00753**	**.00163**	F **276.41**	**.03061**	**2.3067**	**11.110**
Stddev	.00291	.00236	2.87	.00042	.0095	.052
%RSD	38.573	144.63	1.0401	1.3780	.41176	.46910
#1	.00976	-.00081	278.33	.03090	2.2958	11.077
#2	.00425	.00180	277.79	.03012	2.3133	11.083
#3	.00860	.00390	273.11	.03081	2.3109	11.170
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.03457**	**.69122**	**1.2418**	F **416.25**
Stddev	.00144	.00731	.0039	3.95
%RSD	4.1719	1.0569	.31288	.94880
#1	.03511	.69936	1.2447	420.11
#2	.03293	.68905	1.2433	416.42
#3	.03566	.68524	1.2373	412.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041813 Acquired: 2/23/2011 19:38:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80741.**	**60712.**
Stddev	145.	629.
%RSD	.18015	1.0365
#1	80605.	60125.
#2	80723.	60634.
#3	80894.	61376.

Approved: February 24, 2011

Sample Name: L1102041813PS Acquired: 2/23/2011 19:41:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357402-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26914**	**243.27**	**.30189**	**1.0052**	**3.1631**	**.02362**
Stddev	.00096	3.79	.00194	.0031	.0060	.00011
%RSD	.35578	1.5585	.64419	.30625	.18815	.47600
#1	.27022	244.48	.30152	1.0037	3.1594	.02375
#2	.26883	239.03	.30015	1.0031	3.1600	.02355
#3	.26839	246.31	.30399	1.0087	3.1700	.02357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**715.62**	**.03118**	**.24854**	**.57413**	**2.3972**	**331.43**
Stddev	14.72	.00022	.00117	.00271	.0102	.69
%RSD	2.0567	.69148	.46954	.47143	.42477	.20920
#1	731.36	.03140	.24964	.57725	2.4064	330.70
#2	702.20	.03097	.24866	.57274	2.3990	331.50
#3	713.30	.03117	.24731	.57240	2.3863	332.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**112.16**	**.95463**	**165.42**	**6.1054**	**.50416**	**33.680**
Stddev	.08	.00056	.42	.0107	.00259	.031
%RSD	.06886	.05910	.25417	.17508	.51287	.09083
#1	112.07	.95518	165.34	6.0931	.50644	33.690
#2	112.20	.95405	165.05	6.1123	.50470	33.646
#3	112.20	.95467	165.88	6.1107	.50135	33.705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041813PS Acquired: 2/23/2011 19:41:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357402-01

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51207**	F **-101900.**	**.53938**	F **-56.576**	F **808.19**	F **-7133.4**
Stddev	.00191	258.	.00261	6.152	2.19	15.7
%RSD	.37271	.25331	.48456	10.875	.27087	.21998
#1	.51327	-102110.	.54138	-63.476	810.36	-7145.2
#2	.51308	-101990.	.54033	-51.662	808.21	-7139.5
#3	.50987	-101610.	.53642	-54.589	805.98	-7115.6
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58080**	**.19538**	F **595.90**	**.02916**	**2.5999**	**10.585**
Stddev	.00620	.00283	4.87	.00044	.0131	.015
%RSD	1.0680	1.4479	.81644	1.5192	.50502	.14619
#1	.58373	.19865	599.81	.02870	2.5953	10.571
#2	.58499	.19371	597.44	.02958	2.5896	10.582
#3	.57367	.19379	590.45	.02919	2.6147	10.602
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.24380**	**1.1228**	**1.5799**	F **389.65**
Stddev	.00071	.0041	.0060	1.07
%RSD	.28934	.36602	.38314	.27463
#1	.24461	1.1274	1.5850	389.15
#2	.24349	1.1212	1.5816	388.92
#3	.24330	1.1197	1.5732	390.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041813PS Acquired: 2/23/2011 19:41:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357402-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81600.**	**60816.**
Stddev	141.	135.
%RSD	.17306	.22128
#1	81437.	60661.
#2	81670.	60901.
#3	81692.	60887.

Approved: February 24, 2011

Sample Name: L1102041813SDL Acquired: 2/23/2011 19:45:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357402-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01408**	**66.074**	**.02683**	**.02087**	**.59403**	**-.00029**	**174.96**
Stddev	.00044	1.334	.00051	.00154	.00084	.00005	.69
%RSD	3.1331	2.0187	1.8915	7.3571	.14218	17.692	.39604
#1	.01412	65.440	.02650	.02006	.59323	-.00024	174.51
#2	.01362	65.176	.02658	.02264	.59394	-.00028	174.60
#3	.01450	67.607	.02742	.01991	.59491	-.00034	175.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00172**	**.03872**	**.08374**	**.52449**	**76.510**	**19.348**	**.11081**
Stddev	.00008	.00012	.00034	.00092	.107	.027	.00309
%RSD	4.4855	.30193	.40500	.17611	.13984	.13969	2.7921
#1	.00181	.03881	.08343	.52343	76.501	19.330	.11407
#2	.00167	.03859	.08368	.52488	76.407	19.379	.11045
#3	.00168	.03876	.08410	.52515	76.621	19.336	.10791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**37.865**	**1.3761**	**.00203**	**1.4469**	**.06988**	F **-24638.**	**.07810**
Stddev	.029	.0050	.00038	.0020	.00070	55.	.00090
%RSD	.07594	.36420	18.857	.13801	1.0021	.22232	1.1487
#1	37.882	1.3727	.00247	1.4473	.07062	-24578.	.07911
#2	37.831	1.3737	.00189	1.4486	.06979	-24654.	.07740
#3	37.881	1.3818	.00175	1.4447	.06922	-24684.	.07779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041813SDL Acquired: 2/23/2011 19:45:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357402-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-43.557**	F **199.44**	F **-1683.1**	**-.00011**	**.00150**	**57.356**	**.00580**
Stddev	4.320	.44	5.3	.00095	.00196	.651	.00037
%RSD	9.9170	.22293	.31783	865.75	130.81	1.1347	6.4139
#1	-38.615	198.97	-1677.1	.00076	-.00073	57.399	.00537
#2	-45.448	199.51	-1684.8	.00004	.00225	57.985	.00593
#3	-46.609	199.85	-1687.4	-.00113	.00297	56.685	.00608
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47071**	**2.2938**	**.01021**	**.15332**	**.27192**	F **83.710**
Stddev	.00103	.0056	.00070	.00141	.00042	.116
%RSD	.21868	.24480	6.8777	.91995	.15622	.13804
#1	.47063	2.2879	.01033	.15169	.27151	83.818
#2	.47178	2.2946	.00945	.15411	.27189	83.725
#3	.46973	2.2991	.01084	.15415	.27236	83.588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90054.**	**63565.**
Stddev	459.	460.
%RSD	.51000	.72413
#1	90449.	63912.
#2	90164.	63741.
#3	89550.	63043.

Approved: February 24, 2011

Sample Name: L1102041813SDL Acquired: 2/23/2011 19:48:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357402-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00237**	**14.643**	**.00657**	**.00480**	**.11814**	**-.00004**	**34.637**
Stddev	.00088	.064	.00033	.00083	.00014	.00005	.121
%RSD	37.006	.43601	4.9672	17.265	.11769	120.87	.34790
#1	.00304	14.571	.00620	.00469	.11811	-.00001	34.529
#2	.00138	14.693	.00672	.00568	.11802	-.00002	34.615
#3	.00270	14.664	.00680	.00403	.11829	-.00010	34.767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00826**	**.01757**	**.10786**	**15.350**	**3.8049**	**.03889**
Stddev	.00016	.00014	.00054	.00023	.001	.0223	.00347
%RSD	50.139	1.7523	3.1006	.21137	.00365	.58574	8.9260
#1	.00048	.00809	.01786	.10787	15.350	3.8299	.04269
#2	.00017	.00833	.01694	.10762	15.351	3.7975	.03808
#3	.00028	.00835	.01790	.10808	15.350	3.7872	.03589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.6840**	**.27735**	**.00013**	**.27652**	**.01420**	F **-4982.9**	**.01628**
Stddev	.0398	.00091	.00021	.00225	.00033	13.2	.00018
%RSD	.51848	.32800	162.93	.81227	2.3017	.26546	1.1247
#1	7.6817	.27667	-.00004	.27681	.01447	-4976.1	.01644
#2	7.7249	.27700	.00036	.27861	.01384	-4974.4	.01608
#3	7.6453	.27838	.00006	.27415	.01430	-4998.1	.01632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041813SDL Acquired: 2/23/2011 19:48:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357402-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.409**	F **43.160**	F **-331.40**	**-.00238**	**.00333**	**10.559**	**.00105**
Stddev	7.954	.239	2.85	.00204	.00197	.314	.00042
%RSD	19.685	.55349	.86085	85.445	59.108	2.9720	39.863
#1	-49.494	42.890	-334.17	-.00033	.00135	10.422	.00057
#2	-34.699	43.245	-331.56	-.00440	.00529	10.918	.00131
#3	-37.033	43.345	-328.47	-.00242	.00336	10.337	.00128
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09240**	**.45393**	**.00464**	**.03100**	**.05678**	**12.781**
Stddev	.00011	.00071	.00073	.00045	.00025	.618
%RSD	.11931	.15669	15.724	1.4561	.44103	4.8368
#1	.09253	.45311	.00545	.03140	.05654	12.863
#2	.09233	.45435	.00403	.03051	.05676	13.354
#3	.09235	.45433	.00445	.03109	.05704	12.126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91341.**	**62568.**
Stddev	566.	87.
%RSD	.61929	.13953
#1	91972.	62631.
#2	91170.	62469.
#3	90880.	62606.

Approved: February 24, 2011

Sample Name: L1102041814 Acquired: 2/23/2011 19:52:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07206**	**263.40**	**.11519**	**.07211**	**3.0124**	F **-.00110**
Stddev	.00117	3.94	.00120	.00357	.0135	.00004
%RSD	1.6267	1.4977	1.0411	4.9539	.44793	3.2617
#1	.07081	259.08	.11561	.07423	3.0002	-.00114
#2	.07222	266.81	.11384	.07411	3.0100	-.00108
#3	.07314	264.31	.11612	.06798	3.0269	-.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.00050

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**868.68**	**.00706**	**.20212**	**.37798**	**2.9151**	**384.21**
Stddev	25.02	.00014	.00023	.00671	.0036	1.73
%RSD	2.8808	1.9957	.11507	1.7744	.12485	.45128
#1	840.19	.00722	.20212	.37085	2.9148	382.49
#2	887.12	.00696	.20236	.37893	2.9188	384.18
#3	878.74	.00700	.20189	.38416	2.9115	385.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**90.858**	**.50597**	**201.32**	**7.7489**	**.01492**	**12.421**
Stddev	.405	.00339	1.72	.0288	.00038	.079
%RSD	.44566	.66928	.85504	.37106	2.5178	.63671
#1	90.482	.50265	199.33	7.7227	.01524	12.348
#2	90.805	.50583	202.24	7.7444	.01450	12.409
#3	91.287	.50942	202.38	7.7797	.01501	12.505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041814 Acquired: 2/23/2011 19:52:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.34898**	F **-107100.**	**.36802**	F **-55.405**	F **994.22**	F **-8840.1**
Stddev	.00071	278.	.00313	6.210	1.28	23.9
%RSD	.20246	.25964	.84943	11.208	.12922	.27012
#1	.34865	-107240.	.36795	-55.017	993.01	-8857.6
#2	.34979	-107290.	.37118	-61.800	994.07	-8849.8
#3	.34850	-106780.	.36493	-49.399	995.57	-8812.9
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00785**	**.00548**	F **293.61**	**.03232**	**2.5371**	**11.509**
Stddev	.00141	.00568	5.20	.00040	.0188	.058
%RSD	17.903	103.68	1.7695	1.2499	.74238	.50429
#1	.00822	.01007	296.65	.03240	2.5185	11.444
#2	.00903	.00724	296.57	.03188	2.5366	11.526
#3	.00629	-.00087	287.61	.03268	2.5561	11.556
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.03693**	**.75058**	**1.2374**	F **332.84**
Stddev	.00073	.00997	.0010	5.17
%RSD	1.9668	1.3284	.08508	1.5530
#1	.03620	.74115	1.2362	328.26
#2	.03765	.74957	1.2380	331.81
#3	.03695	.76102	1.2380	338.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041814 Acquired: 2/23/2011 19:52:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80222.**	**59730.**
Stddev	88.	554.
%RSD	.10937	.92776
#1	80272.	60352.
#2	80273.	59288.
#3	80121.	59550.

Approved: February 24, 2011

Sample Name: L1102041815 Acquired: 2/23/2011 19:56:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05545**	**256.78**	**.15014**	**.02591**	**2.3991**	**.00282**
Stddev	.00080	2.58	.00314	.00312	.0095	.00004
%RSD	1.4372	1.0041	2.0890	12.059	.39627	1.3832
#1	.05636	257.49	.15047	.02614	2.4101	.00286
#2	.05487	258.93	.14685	.02268	2.3930	.00282
#3	.05511	253.92	.15310	.02892	2.3943	.00278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **985.09**	**.00839**	**.19440**	**.31767**	**1.9545**	**383.53**
Stddev	3.86	.00007	.00016	.00164	.0032	1.17
%RSD	.39227	.87316	.08132	.51584	.16091	.30429
#1	980.76	.00847	.19458	.31789	1.9541	384.87
#2	988.19	.00832	.19436	.31919	1.9579	382.74
#3	986.33	.00837	.19427	.31593	1.9517	382.97
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**89.997**	**.45348**	**175.92**	**7.8669**	**.00948**	**4.5415**
Stddev	.266	.00340	1.04	.0321	.00039	.0093
%RSD	.29531	.74882	.59072	.40864	4.0867	.20384
#1	90.294	.45729	177.12	7.9026	.00968	4.5507
#2	89.781	.45076	175.34	7.8402	.00903	4.5415
#3	89.918	.45240	175.31	7.8580	.00972	4.5322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041815 Acquired: 2/23/2011 19:56:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30440**	F **-102910.**	**.43285**	F **-57.803**	F **1099.5**	F **-6874.1**
Stddev	.00086	317.	.00186	3.095	1.4	29.9
%RSD	.28325	.30802	.42903	5.3538	.12842	.43495
#1	.30427	-103130.	.43313	-61.158	1100.9	-6907.2
#2	.30533	-103060.	.43455	-57.192	1099.4	-6866.2
#3	.30362	-102550.	.43087	-55.060	1098.1	-6849.0
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01385**	**.00660**	F **258.29**	**.02576**	**1.3595**	**8.7479**
Stddev	.00368	.00233	2.75	.00032	.0053	.0608
%RSD	26.556	35.310	1.0647	1.2442	.38855	.69531
#1	.01632	.00394	259.36	.02610	1.3656	8.8181
#2	.00962	.00830	260.35	.02574	1.3560	8.7097
#3	.01561	.00754	255.17	.02546	1.3569	8.7160
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.03273**	**.69936**	**1.3338**	F **397.29**
Stddev	.00134	.00376	.0025	2.88
%RSD	4.0928	.53708	.18412	.72512
#1	.03356	.69818	1.3360	396.51
#2	.03119	.70356	1.3343	400.48
#3	.03345	.69633	1.3311	394.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041815 Acquired: 2/23/2011 19:56:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80264.**	**60579.**
Stddev	80.	320.
%RSD	.10014	.52860
#1	80354.	60353.
#2	80198.	60439.
#3	80242.	60946.

Approved: February 24, 2011

Sample Name: L1102041816 Acquired: 2/23/2011 19:59:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05770**	**228.86**	**.09822**	**.01138**	**2.5929**	**.00063**
Stddev	.00025	3.13	.00262	.00290	.0050	.00013
%RSD	.42802	1.3656	2.6699	25.514	.19445	19.898
#1	.05743	229.27	.09721	.01274	2.5883	.00068
#2	.05775	225.56	.10120	.01336	2.5922	.00049
#3	.05791	231.77	.09626	.00805	2.5983	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1143.4**	**.00725**	**.18165**	**.29252**	**1.5444**	**350.75**
Stddev	11.5	.00002	.00091	.00247	.0084	.99
%RSD	1.0058	.26553	.50108	.84494	.54591	.28227
#1	1139.2	.00727	.18208	.29267	1.5477	349.74
#2	1156.5	.00723	.18226	.28998	1.5507	350.79
#3	1134.7	.00724	.18060	.29491	1.5348	351.72
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**76.250**	**.44128**	**168.17**	**7.0622**	**.01340**	**4.9552**
Stddev	.167	.00159	.75	.0116	.00002	.0030
%RSD	.21919	.36033	.44652	.16353	.17306	.06030
#1	76.113	.43992	167.32	7.0493	.01338	4.9546
#2	76.202	.44303	168.43	7.0655	.01342	4.9525
#3	76.436	.44088	168.76	7.0717	.01339	4.9584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041816 Acquired: 2/23/2011 19:59:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28107**	F **-100630.**	**.36475**	F **-53.368**	F **1316.6**	F **-10152.**
Stddev	.00174	268.	.00122	4.177	3.7	8.
%RSD	.61959	.26635	.33435	7.8269	.27756	.07462
#1	.28124	-100820.	.36554	-53.211	1316.8	-10161.
#2	.28271	-100750.	.36537	-57.621	1320.2	-10148.
#3	.27924	-100330.	.36335	-49.271	1312.9	-10147.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01036**	**.00851**	F **262.33**	**.02216**	**1.6433**	**9.2518**
Stddev	.00066	.00614	2.05	.00039	.0062	.0351
%RSD	6.4013	72.112	.78276	1.7607	.37780	.37973
#1	.01104	.01559	263.86	.02184	1.6384	9.2127
#2	.00971	.00479	263.14	.02260	1.6412	9.2618
#3	.01032	.00514	260.00	.02205	1.6502	9.2809
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.03232**	**.66913**	**1.1779**	F **316.00**
Stddev	.00187	.00584	.0027	2.89
%RSD	5.7747	.87316	.22479	.91551
#1	.03433	.66580	1.1784	313.72
#2	.03064	.66572	1.1802	315.02
#3	.03199	.67588	1.1750	319.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041816 Acquired: 2/23/2011 19:59:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79458.**	**60479.**
Stddev	138.	301.
%RSD	.17420	.49751
#1	79462.	60558.
#2	79317.	60732.
#3	79594.	60146.

Approved: February 24, 2011

Sample Name: L1102041817 Acquired: 2/23/2011 20:03:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01867**	**286.53**	**.18162**	**.01946**	**3.8472**	**.01439**	**585.48**
Stddev	.00087	4.84	.00202	.00029	.0048	.00003	8.11
%RSD	4.6668	1.6888	1.1133	1.4767	.12407	.20171	1.3848
#1	.01811	280.94	.18065	.01971	3.8527	.01439	589.42
#2	.01823	289.30	.18394	.01952	3.8444	.01443	576.15
#3	.01968	289.34	.18027	.01915	3.8444	.01437	590.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01202**	**.17183**	**.40321**	**7.8664**	**379.13**	**94.581**	**.39278**
Stddev	.00010	.00131	.00139	.0539	.44	.192	.00311
%RSD	.84131	.76092	.34468	.68563	.11702	.20300	.79134
#1	.01191	.17052	.40194	7.8096	379.44	94.583	.39592
#2	.01211	.17313	.40469	7.9169	378.62	94.389	.39272
#3	.01205	.17186	.40299	7.8728	379.32	94.773	.38970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**144.90**	**6.0260**	**.04510**	**6.7425**	**.33166**	F **-91916.**	**1.2424**
Stddev	.28	.0123	.00063	.0149	.00301	563.	.0054
%RSD	.19404	.20459	1.3895	.22120	.90622	.61246	.43290
#1	144.84	6.0259	.04443	6.7581	.32829	-91288.	1.2362
#2	144.65	6.0137	.04567	6.7284	.33408	-92374.	1.2446
#3	145.20	6.0384	.04521	6.7410	.33261	-92086.	1.2462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041817 Acquired: 2/23/2011 20:03:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.859**	F **945.37**	F **-22813.**	**.02625**	**.00407**	F **278.50**	**.04149**
Stddev	3.989	8.02	178.	.00246	.00246	5.33	.00085
%RSD	6.5550	.84826	.78208	9.3662	60.290	1.9155	2.0389
#1	-59.250	937.01	-22616.	.02491	.00628	276.67	.04116
#2	-65.402	953.00	-22964.	.02475	.00452	284.52	.04245
#3	-57.926	946.10	-22860.	.02909	.00142	274.33	.04086
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9870**	**2.7334**	**.02193**	**.62705**	**2.8319**	F **467.93**
Stddev	.0063	.0043	.00091	.00202	.0176	1.08
%RSD	.31690	.15819	4.1402	.32139	.62244	.23098
#1	1.9914	2.7361	.02223	.62499	2.8126	466.97
#2	1.9899	2.7284	.02091	.62716	2.8471	469.10
#3	1.9798	2.7356	.02265	.62901	2.8359	467.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83552.**	**62084.**
Stddev	211.	97.
%RSD	.25200	.15547
#1	83341.	61989.
#2	83552.	62081.
#3	83763.	62182.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 20:07:24 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43138**	**10.621**	**.40268**	**.52815**	**1.0161**	**.05146**	**10.093**
Stddev	.00131	.036	.00232	.00126	.0015	.00018	.050
%RSD	.30364	.33689	.57725	.23876	.14341	.35510	.49764
#1	.43274	10.644	.40019	.52959	1.0145	.05164	10.150
#2	.43127	10.580	.40307	.52755	1.0173	.05147	10.067
#3	.43013	10.639	.40479	.52729	1.0166	.05128	10.060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04941**	**.20183**	**.53682**	**.49455**	**3.6454**	**51.897**	**1.0550**
Stddev	.00020	.00044	.00084	.00037	.0099	.111	.0021
%RSD	.41020	.21918	.15679	.07425	.27257	.21470	.19703
#1	.04918	.20152	.53773	.49413	3.6565	52.025	1.0551
#2	.04946	.20163	.53607	.49477	3.6424	51.849	1.0571
#3	.04958	.20234	.53667	.49475	3.6373	51.818	1.0529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.0040**	**.45281**	**.99541**	**51.720**	**.50604**	F **-31.001**	**.48774**
Stddev	.0338	.00134	.00230	.100	.00154	29.520	.00148
%RSD	.37482	.29697	.23132	.19430	.30469	95.223	.30327
#1	9.0422	.45434	.99352	51.604	.50429	-64.963	.48735
#2	8.9912	.45182	.99473	51.769	.50721	-16.538	.48649
#3	8.9785	.45227	.99798	51.786	.50661	-11.501	.48937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 20:07:24 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-39.097**	**10.071**	F **14.986**	**1.2128**	**.39714**	F **3.9671**	**1.0060**
Stddev	3.557	.046	2.386	.0032	.00296	.1744	.0015
%RSD	9.0987	.45673	15.919	.26245	.74430	4.3964	.14585
#1	-42.768	10.109	17.717	1.2096	.40050	3.8698	1.0061
#2	-38.858	10.083	13.310	1.2127	.39492	4.1685	1.0045
#3	-35.666	10.020	13.930	1.2160	.39601	3.8631	1.0075
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96539**	**.94151**	**.50863**	**1.0629**	**.99136**	F **6.0748**
Stddev	.00189	.00371	.00075	.0053	.00098	.4818
%RSD	.19627	.39363	.14736	.49756	.09864	7.9318
#1	.96561	.94451	.50818	1.0682	.99029	5.5186
#2	.96717	.94264	.50950	1.0630	.99220	6.3412
#3	.96340	.93736	.50822	1.0576	.99159	6.3647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89605.**	**62303.**
Stddev	275.	141.
%RSD	.30674	.22581
#1	89909.	62313.
#2	89535.	62158.
#3	89372.	62439.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 20:10:55 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.02842**	**-.00055**	**.00219**	**.00159**	**-.00001**	**-.02483**
Stddev	.00085	.00266	.00067	.00040	.00016	.00003	.00309
%RSD	294.06	9.3648	122.20	18.262	10.237	434.75	12.434
#1	.00030	.03147	-.00129	.00230	.00172	-.00004	-.02428
#2	.00009	.02655	-.00039	.00253	.00141	.00001	-.02816
#3	-.00126	.02725	.00003	.00175	.00164	.00001	-.02206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00011**	**.00025**	**.00012**	**.00485**	**-.02840**	**.02367**
Stddev	.00007	.00006	.00031	.00058	.00234	.04547	.00060
%RSD	81.860	54.453	124.85	504.58	48.326	160.09	2.5464
#1	.00010	-.00004	.00010	-.00055	.00317	.02044	.02434
#2	.00013	-.00014	.00061	.00035	.00752	-.06950	.02348
#3	.00001	-.00015	.00004	.00054	.00385	-.03615	.02318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00614**	**.00018**	**.00060**	**-.01208**	**.00052**	F **22.909**	**-.00056**
Stddev	.00366	.00028	.00018	.01168	.00028	23.422	.00150
%RSD	59.637	161.30	30.846	96.670	54.126	102.24	265.77
#1	.01010	.00016	.00048	-.02542	.00022	-2.5793	-.00005
#2	.00289	-.00010	.00081	-.00367	.00056	27.820	-.00226
#3	.00541	.00047	.00050	-.00716	.00077	43.487	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 20:10:55 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-34.988**	F **-.05446**	F **7.7357**	**.00005**	**.00419**	**-.28499**	**.00029**
Stddev	4.077	.03467	3.3838	.00158	.00217	.10557	.00007
%RSD	11.652	63.657	43.742	2940.9	51.844	37.043	25.334
#1	-32.835	-.06421	5.7319	-.00063	.00669	-.39087	.00021
#2	-39.690	-.01596	11.643	.00186	.00315	-.17974	.00034
#3	-32.439	-.08321	5.8327	-.00106	.00274	-.28437	.00033
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00043**	**.00144**	**.00038**	**-.00003**	F **-.52597**
Stddev	.00011	.00136	.00117	.00045	.00005	.39387
%RSD	251.31	317.01	81.131	117.76	140.86	74.883
#1	-.00007	-.00114	.00010	.00085	-.00003	-.21391
#2	.00008	.00113	.00194	.00033	-.00008	-.96853
#3	-.00014	.00130	.00228	-.00004	.00001	-.39548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89539.**	**60882.**
Stddev	77.	178.
%RSD	.08609	.29155
#1	89518.	60770.
#2	89474.	60789.
#3	89624.	61086.

Approved: February 24, 2011

Sample Name: L1102041818 Acquired: 2/23/2011 20:14:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03595**	**321.65**	**.15630**	**.06706**	**3.2879**	**.01139**	F **1249.6**
Stddev	.00038	6.96	.00165	.00147	.0060	.00010	6.8
%RSD	1.0670	2.1635	1.0563	2.1959	.18400	.86264	.54784
#1	.03634	326.27	.15725	.06712	3.2914	.01146	1256.9
#2	.03595	325.03	.15439	.06851	3.2914	.01143	1243.4
#3	.03557	313.65	.15724	.06556	3.2809	.01128	1248.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00793**	**.16583**	**.41075**	**4.8088**	**362.59**	**98.314**	**.43598**
Stddev	.00014	.00035	.00369	.0022	1.10	.278	.00171
%RSD	1.7147	.20952	.89903	.04474	.30353	.28248	.39200
#1	.00779	.16556	.41217	4.8067	362.88	98.467	.43721
#2	.00793	.16572	.41353	4.8110	363.52	98.480	.43403
#3	.00806	.16623	.40656	4.8087	361.37	97.993	.43669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**153.02**	**5.0225**	**.03263**	**5.4594**	**.32786**	F **-74884.**	**.55892**
Stddev	.87	.0217	.00051	.0142	.00074	179.	.00462
%RSD	.56931	.43242	1.5740	.25951	.22643	.23906	.82612
#1	153.10	5.0423	.03234	5.4452	.32737	-75086.	.55477
#2	153.85	5.0261	.03322	5.4735	.32750	-74819.	.55809
#3	152.11	4.9993	.03232	5.4595	.32872	-74746.	.56390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041818 Acquired: 2/23/2011 20:14:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-63.014**	F **1593.2**	F **-15353.**	**.02405**	**.00900**	F **320.58**	**.03728**
Stddev	5.950	3.3	41.	.00283	.00435	5.30	.00038
%RSD	9.4419	.20476	.26508	11.751	48.333	1.6536	1.0216
#1	-61.816	1589.7	-15400.	.02141	.00452	326.04	.03744
#2	-69.471	1594.0	-15328.	.02703	.01321	320.24	.03755
#3	-57.754	1596.1	-15331.	.02371	.00925	315.46	.03684
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0765**	**5.6526**	**.02662**	**.69629**	**1.4786**	F **445.86**
Stddev	.0056	.0144	.00211	.00600	.0035	6.13
%RSD	.26804	.25380	7.9290	.86140	.23854	1.3740
#1	2.0743	5.6550	.02419	.70081	1.4746	451.12
#2	2.0828	5.6656	.02766	.69857	1.4813	447.32
#3	2.0724	5.6372	.02801	.68948	1.4800	439.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79003.**	**61029.**
Stddev	189.	898.
%RSD	.23923	1.4707
#1	79220.	60520.
#2	78877.	60502.
#3	78911.	62065.

Approved: February 24, 2011

Sample Name: L1102041819 Acquired: 2/23/2011 20:18:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02239**	**281.77**	**.11785**	**.06752**	**2.1796**	**.01039**	**208.61**
Stddev	.00035	3.17	.00232	.00333	.0040	.00015	.18
%RSD	1.5507	1.1233	1.9667	4.9264	.18522	1.3960	.08428
#1	.02280	279.45	.11871	.06572	2.1841	.01037	208.78
#2	.02221	280.47	.11961	.07136	2.1782	.01026	208.62
#3	.02218	285.37	.11522	.06549	2.1764	.01055	208.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00863**	**.13381**	**.41347**	**2.1441**	**352.67**	**97.960**	**.32354**
Stddev	.00008	.00035	.00559	.0008	.41	.040	.00068
%RSD	.96811	.26390	1.3510	.03687	.11630	.04076	.20934
#1	.00873	.13418	.41519	2.1432	353.09	97.977	.32281
#2	.00858	.13378	.40722	2.1445	352.63	97.915	.32415
#3	.00859	.13347	.41799	2.1446	352.28	97.989	.32366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**113.01**	**5.0200**	**.01211**	**11.184**	**.28694**	F **-64607.**	**.91101**
Stddev	.41	.0012	.00020	.028	.00054	30.	.00334
%RSD	.35871	.02374	1.6253	.25410	.18990	.04655	.36693
#1	112.69	5.0187	.01199	11.198	.28634	-64639.	.91169
#2	112.87	5.0210	.01234	11.152	.28740	-64580.	.91396
#3	113.47	5.0204	.01200	11.203	.28709	-64602.	.90738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041819 Acquired: 2/23/2011 20:18:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-54.383**	F **334.26**	F **-8611.9**	**.01661**	**.00250**	F **273.11**	**.03539**
Stddev	3.702	.43	38.1	.00032	.00113	.99	.00027
%RSD	6.8075	.12964	.44229	1.9057	45.178	.36088	.76229
#1	-51.880	334.71	-8654.2	.01625	.00279	274.18	.03564
#2	-52.633	334.23	-8580.5	.01674	.00347	272.91	.03510
#3	-58.636	333.85	-8600.9	.01684	.00126	272.23	.03541
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0175**	**3.7336**	**.02157**	**.56965**	**1.9366**	F **546.59**
Stddev	.0033	.0052	.00137	.00722	.0022	7.86
%RSD	.32461	.13794	6.3576	1.2673	.11272	1.4374
#1	1.0212	3.7300	.02155	.57261	1.9352	550.84
#2	1.0167	3.7313	.02296	.56142	1.9391	537.52
#3	1.0147	3.7395	.02022	.57492	1.9354	551.41
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85028.**	**61889.**
Stddev	329.	297.
%RSD	.38674	.48003
#1	85369.	61716.
#2	84713.	62232.
#3	85003.	61719.

Approved: February 24, 2011

Sample Name: L1102041820 Acquired: 2/23/2011 20:21:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01726**	**306.58**	**.11145**	**.12293**	**2.4754**	**.01366**	**426.46**
Stddev	.00093	6.67	.00108	.00103	.0020	.00009	.43
%RSD	5.4160	2.1769	.97177	.84005	.08005	.63449	.10164
#1	.01666	300.01	.11022	.12325	2.4736	.01356	426.05
#2	.01834	306.37	.11226	.12178	2.4751	.01368	426.91
#3	.01679	313.35	.11187	.12377	2.4775	.01373	426.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00889**	**.14424**	**.41707**	**1.4286**	**349.91**	**112.27**	**.36327**
Stddev	.00019	.00040	.00275	.0033	.64	.11	.00066
%RSD	2.0961	.27510	.65918	.23312	.18427	.09831	.18289
#1	.00884	.14384	.41391	1.4285	349.25	112.14	.36251
#2	.00909	.14463	.41837	1.4320	349.94	112.30	.36374
#3	.00873	.14424	.41892	1.4253	350.54	112.36	.36355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**127.43**	**5.2384**	**.01350**	**14.934**	**.31733**	F **-53361.**	**.52642**
Stddev	.36	.0091	.00042	.028	.00064	64.	.00333
%RSD	.28218	.17268	3.1024	.18556	.20205	.12014	.63215
#1	127.10	5.2297	.01316	14.923	.31765	-53426.	.53026
#2	127.39	5.2477	.01397	14.913	.31774	-53298.	.52464
#3	127.81	5.2377	.01337	14.965	.31659	-53359.	.52437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041820 Acquired: 2/23/2011 20:21:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-62.637**	F **538.42**	F **-8845.6**	**.01703**	**-.00153**	F **284.78**	**.02750**
Stddev	3.091	.98	21.5	.00281	.00169	1.42	.00017
%RSD	4.9339	.18198	.24357	16.505	110.67	.49921	.63609
#1	-65.595	537.89	-8857.6	.01819	-.00202	286.36	.02763
#2	-59.429	539.55	-8820.7	.01383	-.00293	284.36	.02730
#3	-62.888	537.82	-8858.5	.01908	.00035	283.61	.02758
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4908**	**2.9033**	**.02174**	**.53808**	**1.7104**	F **518.46**
Stddev	.0041	.0045	.00185	.00498	.0021	4.28
%RSD	.27390	.15310	8.5322	.92593	.12348	.82615
#1	1.4892	2.8993	.02204	.53236	1.7124	513.57
#2	1.4876	2.9024	.02342	.54041	1.7107	521.55
#3	1.4954	2.9081	.01975	.54147	1.7082	520.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84882.**	**61849.**
Stddev	124.	312.
%RSD	.14593	.50487
#1	84792.	62204.
#2	84832.	61726.
#3	85023.	61616.

Approved: February 24, 2011

Sample Name: L1102041821 Acquired: 2/23/2011 20:25:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01700**	**318.65**	**.21263**	**.05692**	**3.1168**	**.01510**	**198.96**
Stddev	.00026	.81	.00069	.00273	.0010	.00015	.50
%RSD	1.5163	.25401	.32668	4.7996	.03191	.99975	.25075
#1	.01670	319.13	.21185	.05800	3.1169	.01493	198.45
#2	.01717	317.71	.21285	.05894	3.1158	.01515	198.98
#3	.01712	319.10	.21319	.05381	3.1178	.01522	199.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01894**	**.17694**	**.48333**	**6.3271**	**412.37**	**125.13**	**.38984**
Stddev	.00004	.00036	.00423	.0062	.47	.35	.00194
%RSD	.22821	.20261	.87558	.09738	.11347	.27587	.49685
#1	.01891	.17732	.47930	6.3339	412.08	124.74	.38762
#2	.01893	.17691	.48297	6.3253	412.13	125.22	.39066
#3	.01899	.17660	.48774	6.3220	412.91	125.41	.39123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**132.63**	**6.4640**	**.03473**	**6.9374**	**.35431**	F **-98016.**	**2.6926**
Stddev	.20	.0171	.00035	.0117	.00113	101.	.0010
%RSD	.14857	.26486	1.0069	.16899	.31996	.10261	.03697
#1	132.43	6.4480	.03435	6.9320	.35557	-98124.	2.6922
#2	132.82	6.4620	.03503	6.9293	.35338	-97925.	2.6937
#3	132.65	6.4821	.03482	6.9508	.35398	-97998.	2.6919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041821 Acquired: 2/23/2011 20:25:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-64.475**	F **444.71**	F **-15644.**	**.03287**	**.00253**	F **226.91**	**.08705**
Stddev	4.456	.99	14.	.00293	.00361	2.08	.00015
%RSD	6.9105	.22357	.08696	8.9255	142.94	.91855	.17126
#1	-60.314	445.74	-15650.	.03542	.00053	228.23	.08720
#2	-69.176	444.62	-15628.	.03354	.00036	227.99	.08690
#3	-63.935	443.76	-15653.	.02966	.00670	224.51	.08704
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0805**	**2.5366**	**.02295**	**.60101**	**4.4666**	F **629.93**
Stddev	.0031	.0016	.00116	.00502	.0045	4.22
%RSD	.28460	.06225	5.0434	.83596	.09979	.67014
#1	1.0839	2.5348	.02163	.59610	4.4717	625.51
#2	1.0798	2.5375	.02380	.60079	4.4641	630.36
#3	1.0778	2.5376	.02341	.60614	4.4639	633.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85668.**	**63130.**
Stddev	87.	153.
%RSD	.10108	.24264
#1	85606.	63287.
#2	85767.	62981.
#3	85631.	63121.

Approved: February 24, 2011

Sample Name: L1102041822 Acquired: 2/23/2011 20:28:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00753**	**382.86**	**.17896**	**.04632**	**2.9278**	**.02281**	**326.21**
Stddev	.00064	1.67	.00145	.00156	.0032	.00017	.25
%RSD	8.4591	.43537	.81171	3.3710	.10821	.76613	.07696
#1	.00822	381.55	.17933	.04477	2.9251	.02300	325.92
#2	.00741	382.30	.18018	.04789	2.9313	.02276	326.39
#3	.00697	384.74	.17735	.04629	2.9270	.02267	326.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00987**	**.18134**	**.53473**	**2.9269**	**446.67**	**155.46**	**.44956**
Stddev	.00008	.00067	.00157	.0081	.38	.23	.00186
%RSD	.84215	.36955	.29381	.27673	.08597	.14801	.41412
#1	.00995	.18207	.53623	2.9335	446.23	155.20	.44744
#2	.00978	.18120	.53487	2.9292	446.95	155.59	.45093
#3	.00987	.18075	.53310	2.9179	446.83	155.60	.45031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**160.39**	**5.8866**	**.01747**	**15.930**	**.39468**	F **-49342.**	**.87979**
Stddev	.59	.0075	.00027	.014	.00108	258.	.00213
%RSD	.36593	.12805	1.5212	.08566	.27357	.52323	.24204
#1	159.78	5.8780	.01772	15.924	.39424	-49475.	.87770
#2	160.44	5.8920	.01749	15.945	.39591	-49507.	.88196
#3	160.95	5.8897	.01719	15.920	.39388	-49045.	.87972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041822 Acquired: 2/23/2011 20:28:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-70.345**	F **609.14**	F **-18580.**	**.03044**	**.00218**	F **335.57**	**.05560**
Stddev	6.538	3.12	23.	.00187	.00050	.51	.00011
%RSD	9.2944	.51213	.12332	6.1349	23.164	.15267	.19607
#1	-74.858	612.24	-18598.	.02950	.00174	335.63	.05571
#2	-73.329	609.18	-18587.	.02924	.00273	335.04	.05549
#3	-62.847	606.00	-18554.	.03259	.00207	336.06	.05559
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.5284**	**1.1065**	**.02282**	**.63754**	**2.0222**	F **572.30**
Stddev	.0027	.0057	.00087	.00101	.0042	3.24
%RSD	.17636	.51144	3.8149	.15913	.20721	.56583
#1	1.5253	1.1001	.02340	.63865	2.0264	575.26
#2	1.5299	1.1087	.02325	.63666	2.0222	572.81
#3	1.5300	1.1107	.02182	.63730	2.0180	568.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84137.**	**63014.**
Stddev	160.	94.
%RSD	.19000	.14883
#1	84272.	62919.
#2	84179.	63107.
#3	83960.	63015.

Approved: February 24, 2011

Sample Name: L1102041823 Acquired: 2/23/2011 20:32:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357336-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08567**	**237.67**	**.14490**	**.01716**	**3.0615**	^ *****
Stddev	.00063	3.40	.00256	.00036	.0026	-----
%RSD	.73319	1.4319	1.7669	2.0991	.08355	-----
#1	.08557	241.57	.14455	.01744	3.0602	^ -----
#2	.08510	236.15	.14253	.01729	3.0644	^ -----
#3	.08635	235.29	.14761	.01675	3.0598	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**871.87**	**.00954**	**.21088**	**.30142**	**8.9012**	**397.12**
Stddev	9.27	.00011	.00074	.00190	.0257	.31
%RSD	1.0636	1.2049	.35244	.62880	.28882	.07851
#1	867.19	.00966	.21151	.29945	8.9222	396.76
#2	865.88	.00953	.21106	.30159	8.9089	397.28
#3	882.56	.00943	.21006	.30323	8.8725	397.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**86.479**	**.57213**	**199.14**	**7.8594**	**.02448**	**4.8061**
Stddev	.055	.00064	.26	.0111	.00039	.0138
%RSD	.06409	.11175	.13067	.14108	1.5784	.28728
#1	86.431	.57166	199.00	7.8564	.02470	4.7920
#2	86.467	.57286	199.44	7.8502	.02470	4.8067
#3	86.540	.57187	198.98	7.8717	.02403	4.8196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041823 Acquired: 2/23/2011 20:32:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357336-01

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30923**	F **-140720.**	**.54357**	F **-61.847**	F **995.75**	F **-8280.7**
Stddev	.00049	296.	.00076	2.888	2.52	27.5
%RSD	.15964	.21058	.13979	4.6702	.25299	.33208
#1	.30949	-141030.	.54441	-65.155	997.82	-8308.0
#2	.30953	-140680.	.54336	-59.828	996.48	-8281.1
#3	.30866	-140440.	.54294	-60.558	992.94	-8253.0
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00499**	**.00668**	F **281.08**	**.04253**	**1.8845**	**13.585**
Stddev	.00084	.00531	2.95	.00016	.0080	.024
%RSD	16.943	79.448	1.0488	.38664	.42676	.17458
#1	.00409	.01231	283.75	.04238	1.8826	13.602
#2	.00577	.00177	281.57	.04252	1.8934	13.595
#3	.00511	.00597	277.92	.04270	1.8776	13.558
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.04198**	**.78998**	**1.3458**	F **278.32**
Stddev	.00239	.00153	.0029	2.09
%RSD	5.6916	.19406	.21261	.74942
#1	.04332	.78848	1.3487	275.94
#2	.03922	.78992	1.3457	279.15
#3	.04340	.79154	1.3430	279.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041823 Acquired: 2/23/2011 20:32:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357336-01

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80593.**	**60766.**
Stddev	321.	240.
%RSD	.39768	.39466
#1	80904.	60532.
#2	80611.	61011.
#3	80264.	60754.

Approved: February 24, 2011

Sample Name: L1102041824S Acquired: 2/23/2011 20:36:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357336-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28750**	**241.92**	**.33450**	**.03527**	**3.2043**	^ *****
Stddev	.00380	1.70	.00037	.00365	.0139	-----
%RSD	1.3201	.70408	.11120	10.355	.43390	-----
#1	.28932	239.98	.33488	.03277	3.1937	^ -----
#2	.29003	242.59	.33448	.03358	3.2201	^ -----
#3	.28313	243.18	.33414	.03946	3.1992	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**886.07**	**.03479**	**.21036**	**.29195**	**9.2581**	**389.57**
Stddev	13.59	.00002	.00063	.00204	.0223	1.27
%RSD	1.5338	.04898	.29750	.69896	.24056	.32706
#1	875.54	.03480	.21070	.29281	9.2747	388.45
#2	901.41	.03481	.21074	.29342	9.2667	390.96
#3	881.25	.03478	.20963	.28962	9.2328	389.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**88.283**	**.57534**	**199.40**	**8.1676**	**.02508**	**4.8846**
Stddev	.145	.00083	.63	.0105	.00041	.0182
%RSD	.16409	.14465	.31553	.12889	1.6254	.37237
#1	88.271	.57535	199.06	8.1768	.02539	4.8651
#2	88.433	.57617	200.13	8.1700	.02522	4.9012
#3	88.144	.57450	199.02	8.1561	.02462	4.8874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041824S Acquired: 2/23/2011 20:36:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357336-04

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30534**	F **-121390.**	**.77165**	F **-59.620**	F **1010.6**	F **-8541.6**
Stddev	.00094	216.	.00119	1.680	2.2	9.6
%RSD	.30883	.17754	.15431	2.8181	.21698	.11189
#1	.30631	-121590.	.77281	-57.890	1011.8	-8549.8
#2	.30527	-121420.	.77171	-59.724	1011.9	-8543.9
#3	.30443	-121160.	.77043	-61.245	1008.0	-8531.1
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00588**	**.00894**	F **250.14**	**.03345**	**1.9379**	**14.493**
Stddev	.00152	.00173	2.73	.00054	.0178	.034
%RSD	25.774	19.354	1.0894	1.6055	.91697	.23237
#1	.00413	.00935	251.47	.03361	1.9193	14.469
#2	.00679	.00705	251.95	.03285	1.9547	14.531
#3	.00673	.01044	247.01	.03389	1.9397	14.479
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.04352**	**.77096**	**1.3555**	F **278.77**
Stddev	.00031	.00895	.0048	2.15
%RSD	.70161	1.1612	.35220	.77176
#1	.04317	.77483	1.3582	279.92
#2	.04364	.77732	1.3582	280.10
#3	.04374	.76072	1.3499	276.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041824S Acquired: 2/23/2011 20:36:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357336-04

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80129.**	**60861.**
Stddev	211.	242.
%RSD	.26329	.39796
#1	80100.	60842.
#2	79935.	60629.
#3	80353.	61112.

Approved: February 24, 2011

Sample Name: L1102041825SD Acquired: 2/23/2011 20:39:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357336-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29485**	**245.34**	**.33822**	**.03778**	**3.1484**	^ *****
Stddev	.00058	.32	.00159	.00233	.0063	-----
%RSD	.19796	.12932	.47009	6.1567	.20182	-----
#1	.29542	244.99	.33666	.03569	3.1471	^ -----
#2	.29426	245.60	.33818	.04029	3.1428	^ -----
#3	.29487	245.43	.33983	.03737	3.1553	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**875.07**	**.03429**	**.21228**	**.30432**	**9.3735**	**400.54**
Stddev	10.63	.00009	.00087	.00092	.0130	.50
%RSD	1.2152	.26024	.41062	.30385	.13842	.12363
#1	882.70	.03440	.21177	.30529	9.3673	400.33
#2	879.59	.03426	.21328	.30345	9.3884	400.18
#3	862.92	.03423	.21178	.30420	9.3647	401.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**88.230**	**.57733**	**198.00**	**8.0695**	**.02689**	**4.8877**
Stddev	.174	.00093	.19	.0161	.00035	.0194
%RSD	.19690	.16044	.09643	.19916	1.3120	.39673
#1	88.296	.57650	197.94	8.0819	.02650	4.8737
#2	88.033	.57717	197.85	8.0514	.02718	4.8796
#3	88.360	.57833	198.22	8.0753	.02700	4.9098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041825SD Acquired: 2/23/2011 20:39:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357336-05

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30097**	F **-137860.**	**.79174**	F **-58.554**	F **984.19**	F **-8510.9**
Stddev	.00100	148.	.00303	3.172	2.34	18.6
%RSD	.33173	.10751	.38214	5.4168	.23770	.21808
#1	.29984	-138010.	.79328	-61.792	981.97	-8530.9
#2	.30134	-137860.	.79369	-55.452	986.63	-8507.5
#3	.30174	-137710.	.78825	-58.419	983.97	-8494.2
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00535**	**.00310**	F **278.92**	**.03353**	**1.9268**	**15.258**
Stddev	.00106	.00207	1.02	.00013	.0076	.032
%RSD	19.887	66.512	.36624	.37650	.39497	.20722
#1	.00538	.00192	279.61	.03344	1.9223	15.282
#2	.00640	.00549	279.39	.03346	1.9224	15.222
#3	.00427	.00191	277.74	.03367	1.9356	15.271
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.04514**	**.81967**	**1.3314**	F **305.37**
Stddev	.00166	.00119	.0026	1.70
%RSD	3.6778	.14479	.19154	.55703
#1	.04671	.82045	1.3289	305.33
#2	.04340	.81831	1.3340	303.69
#3	.04531	.82026	1.3313	307.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041825SD Acquired: 2/23/2011 20:39:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357336-05

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80803.**	**60288.**
Stddev	296.	155.
%RSD	.36603	.25665
#1	81110.	60146.
#2	80520.	60265.
#3	80780.	60453.

Approved: February 24, 2011

Sample Name: L1102041826 Acquired: 2/23/2011 20:43:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12852**	**265.21**	**.11902**	**.01759**	**3.1375**	^ *****
Stddev	.00029	3.67	.00279	.00049	.0046	-----
%RSD	.22477	1.3823	2.3413	2.7602	.14589	-----
#1	.12865	266.72	.12222	.01796	3.1323	^ -----
#2	.12872	267.88	.11767	.01778	3.1392	^ -----
#3	.12819	261.03	.11716	.01704	3.1410	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1326.9**	**.00620**	**.22352**	**.30011**	**1.4988**	**415.93**
Stddev	40.0	.00017	.00054	.00158	.0058	.47
%RSD	3.0157	2.8178	.24163	.52750	.38446	.11375
#1	1371.8	.00602	.22392	.30087	1.5041	415.38
#2	1314.0	.00621	.22375	.30117	1.4998	416.19
#3	1294.9	.00637	.22291	.29829	1.4927	416.20
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**99.972**	**.65619**	**233.75**	**7.9510**	**.00809**	**9.1530**
Stddev	.165	.00124	.38	.0111	.00020	.0190
%RSD	.16481	.18893	.16178	.13996	2.4469	.20710
#1	100.07	.65560	233.98	7.9609	.00814	9.1363
#2	99.782	.65536	233.95	7.9389	.00788	9.1736
#3	100.06	.65762	233.31	7.9531	.00826	9.1492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041826 Acquired: 2/23/2011 20:43:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31597**	F **-121610.**	**.27408**	F **-70.606**	F **1546.4**	F **-7589.3**
Stddev	.00107	131.	.00300	5.397	1.8	7.3
%RSD	.33719	.10765	1.0952	7.6435	.11843	.09665
#1	.31714	-121690.	.27132	-67.159	1546.4	-7586.2
#2	.31572	-121690.	.27364	-67.834	1548.3	-7597.7
#3	.31505	-121460.	.27728	-76.826	1544.7	-7584.1
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00273**	**.00357**	F **310.14**	**.03105**	**2.2786**	**20.564**
Stddev	.00626	.00206	3.30	.00054	.0139	.006
%RSD	229.83	57.655	1.0633	1.7299	.60954	.03036
#1	-.00932	.00592	312.53	.03044	2.2634	20.569
#2	-.00200	.00271	311.50	.03131	2.2906	20.567
#3	.00314	.00208	306.37	.03141	2.2816	20.557
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.05218**	**.86186**	**1.1981**	F **264.61**
Stddev	.00176	.00478	.0018	2.15
%RSD	3.3799	.55464	.15166	.81108
#1	.05158	.86152	1.1967	264.62
#2	.05417	.86680	1.2002	266.74
#3	.05079	.85726	1.1975	262.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041826 Acquired: 2/23/2011 20:43:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**78676.**	**60327.**
Stddev	208.	403.
%RSD	.26476	.66861
#1	78897.	60140.
#2	78483.	60052.
#3	78648.	60790.

Approved: February 24, 2011

Sample Name: L1102041827 Acquired: 2/23/2011 20:47:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05678**	**305.89**	**.20684**	**.13700**	**2.4028**	**.00352**
Stddev	.00026	3.37	.00069	.00256	.0047	.00005
%RSD	.45248	1.1031	.33338	1.8676	.19594	1.3208
#1	.05675	304.43	.20611	.13492	2.4065	.00352
#2	.05654	303.50	.20695	.13985	2.3975	.00348
#3	.05705	309.75	.20748	.13623	2.4044	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**561.22**	**.01048**	**.17368**	**.38026**	**5.6472**	**394.59**
Stddev	5.68	.00009	.00042	.00127	.0095	1.01
%RSD	1.0129	.83501	.24045	.33398	.16849	.25500
#1	558.82	.01039	.17374	.38070	5.6509	395.12
#2	567.71	.01050	.17406	.38125	5.6543	393.42
#3	557.13	.01056	.17323	.37883	5.6364	395.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**130.60**	**.41200**	**160.24**	**6.1440**	**.02001**	**2.1958**
Stddev	.39	.00155	.56	.0132	.00045	.0065
%RSD	.30083	.37554	.35211	.21504	2.2258	.29548
#1	130.72	.41161	159.92	6.1443	.01973	2.1891
#2	130.16	.41068	159.90	6.1307	.01977	2.1963
#3	130.92	.41370	160.89	6.1571	.02052	2.2020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041827 Acquired: 2/23/2011 20:47:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.32029**	F **-128170.**	**1.1267**	F **-64.468**	F **725.71**	F **-11822.**
Stddev	.00101	57.	.0031	1.139	1.57	6.
%RSD	.31648	.04410	.27519	1.7662	.21593	.04757
#1	.31915	-128230.	1.1241	-65.750	726.49	-11821.
#2	.32108	-128150.	1.1301	-64.081	726.73	-11828.
#3	.32064	-128120.	1.1259	-63.573	723.90	-11817.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01773**	**.00313**	F **210.83**	**.03296**	**1.3597**	**8.9117**
Stddev	.00235	.00501	1.80	.00026	.0028	.0289
%RSD	13.251	159.97	.85424	.78675	.20525	.32423
#1	.01711	-.00264	212.67	.03326	1.3621	8.9086
#2	.02032	.00631	210.74	.03283	1.3566	8.8845
#3	.01575	.00573	209.07	.03279	1.3602	8.9420
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.03405**	**.72256**	**1.7407**	F **509.30**
Stddev	.00229	.00437	.0024	5.74
%RSD	6.7369	.60449	.14077	1.1271
#1	.03524	.72724	1.7408	513.94
#2	.03141	.72186	1.7430	511.09
#3	.03551	.71859	1.7382	502.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041827 Acquired: 2/23/2011 20:47:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83522.**	**61808.**
Stddev	485.	256.
%RSD	.58037	.41463
#1	83028.	61520.
#2	83541.	61891.
#3	83997.	62012.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 20:50:59 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43912**	**10.914**	**.40040**	**.53648**	**1.0214**	**.05196**	**10.151**
Stddev	.00391	.025	.00148	.00426	.0018	.00033	.034
%RSD	.89097	.22467	.36962	.79471	.17178	.64269	.33950
#1	.43502	10.886	.40037	.53161	1.0196	.05181	10.120
#2	.43954	10.925	.39894	.53827	1.0215	.05174	10.188
#3	.44281	10.931	.40190	.53956	1.0232	.05235	10.144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04968**	**.20217**	**.54520**	**.49425**	**3.6373**	**52.189**	**1.0622**
Stddev	.00008	.00026	.00250	.00086	.0106	.106	.0032
%RSD	.16305	.12818	.45787	.17493	.29229	.20269	.30211
#1	.04965	.20247	.54419	.49343	3.6456	52.094	1.0587
#2	.04977	.20206	.54337	.49515	3.6253	52.170	1.0632
#3	.04961	.20199	.54804	.49418	3.6409	52.303	1.0649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.9279**	F **.44989**	**.99567**	**52.130**	**.50543**	F **-30.388**	**.49219**
Stddev	.0543	.00105	.00117	.081	.00218	15.648	.00190
%RSD	.60848	.23337	.11751	.15554	.43213	51.495	.38699
#1	8.8685	.45091	.99696	52.067	.50794	-15.895	.49056
#2	8.9402	.44996	.99467	52.102	.50435	-46.980	.49429
#3	8.9751	.44881	.99539	52.221	.50400	-28.289	.49173
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000	.50000				10.000	
Range	-10.000%	-10.000%				-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 20:50:59 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-36.837**	**10.229**	F **13.199**	**1.2118**	**.39788**	F **3.8114**	**1.0079**
Stddev	5.023	.099	2.101	.0022	.00224	.0865	.0026
%RSD	13.635	.96335	15.917	.17985	.56190	2.2693	.25472
#1	-34.159	10.120	13.445	1.2137	.40041	3.7118	1.0108
#2	-42.631	10.311	10.986	1.2123	.39617	3.8670	1.0058
#3	-33.721	10.256	15.166	1.2095	.39706	3.8554	1.0070
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97015**	**.94210**	**.50961**	**1.0744**	**.99183**	F **4.5469**
Stddev	.00289	.00532	.00084	.0052	.00140	.6227
%RSD	.29769	.56520	.16448	.48795	.14111	13.694
#1	.96784	.93643	.50869	1.0690	.99343	3.8282
#2	.96922	.94700	.51034	1.0747	.99085	4.9239
#3	.97339	.94287	.50979	1.0794	.99119	4.8886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89946.**	**61683.**
Stddev	154.	244.
%RSD	.17094	.39590
#1	90037.	61815.
#2	89768.	61832.
#3	90032.	61401.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 20:54:29 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.04141**	**-.00056**	**.00223**	**.00134**	**.00001**	**.01455**
Stddev	.00097	.00902	.00039	.00056	.00027	.00003	.00722
%RSD	132.62	21.795	69.736	24.965	20.264	250.84	49.608
#1	-.00070	.03424	-.00101	.00161	.00105	.00003	.01545
#2	.00022	.05154	-.00027	.00239	.00138	-.00002	.00692
#3	-.00172	.03844	-.00041	.00270	.00158	.00003	.02127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00005**	**.00039**	**.00050**	**.01628**	**-.00635**	**.02385**
Stddev	.00006	.00005	.00069	.00054	.00259	.02738	.00137
%RSD	627.24	100.12	179.20	106.37	15.889	431.11	5.7475
#1	.00005	.00010	.00105	.00028	.01833	.01619	.02283
#2	-.00006	.00001	.00043	.00111	.01713	.00158	.02332
#3	.00004	.00003	-.00033	.00011	.01337	-.03682	.02541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00535**	**.00055**	**.00057**	**.00312**	**.00061**	F **31.249**	**.00085**
Stddev	.02293	.00026	.00005	.00565	.00023	7.975	.00050
%RSD	428.85	47.327	9.1011	181.15	37.164	25.519	58.743
#1	.02865	.00084	.00062	.00584	.00087	36.629	.00141
#2	.00460	.00033	.00057	.00690	.00043	22.087	.00073
#3	-.01720	.00049	.00051	-.00338	.00054	35.032	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 20:54:29 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-33.438**	F **-.03003**	F **5.3740**	**.00010**	**.00366**	**-.49894**	**.00046**
Stddev	6.798	.04525	2.8835	.00125	.00145	.09810	.00024
%RSD	20.331	150.67	53.656	1208.1	39.680	19.662	51.230
#1	-37.236	.02219	3.7135	-.00078	.00475	-.56357	.00019
#2	-37.489	-.05757	3.7050	.00153	.00423	-.38605	.00061
#3	-25.589	-.05472	8.7036	-.00044	.00201	-.54719	.00060
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00041**	**.00086**	**.00014**	**.00011**	F **-.38839**
Stddev	.00010	.00071	.00034	.00024	.00014	.20689
%RSD	52.723	175.02	39.715	177.36	131.46	53.267
#1	.00027	.00011	.00124	.00039	.00026	-.48411
#2	.00022	.00122	.00057	.00010	-.00001	-.15098
#3	.00008	-.00011	.00078	-.00008	.00006	-.53009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90217.**	**61842.**
Stddev	69.	484.
%RSD	.07602	.78247
#1	90161.	62263.
#2	90197.	61949.
#3	90294.	61313.

Approved: February 24, 2011

Sample Name: L1102041828 Acquired: 2/23/2011 20:58:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07081**	**284.51**	**.15159**	**.17650**	**2.5551**	**-.00025**
Stddev	.00089	1.03	.00272	.00105	.0080	.00002
%RSD	1.2544	.36177	1.7958	.59714	.31316	9.5400
#1	.06978	283.68	.15039	.17538	2.5462	-.00023
#2	.07134	284.20	.15470	.17748	2.5616	-.00024
#3	.07131	285.66	.14967	.17665	2.5575	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1244.2**	**.00878**	**.18856**	**.32971**	**2.4568**	**392.79**
Stddev	16.6	.00012	.00047	.00189	.0051	1.28
%RSD	1.3370	1.3935	.24733	.57331	.20740	.32517
#1	1230.1	.00891	.18905	.32753	2.4614	391.39
#2	1240.0	.00866	.18851	.33083	2.4575	393.88
#3	1262.5	.00877	.18813	.33077	2.4513	393.11
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**136.41**	**.44563**	**170.97**	**5.9667**	**.01658**	**9.0497**
Stddev	.54	.00192	1.44	.0085	.00004	.0128
%RSD	.39859	.43011	.84397	.14258	.25478	.14147
#1	135.80	.44392	169.32	5.9626	.01653	9.0349
#2	136.83	.44527	171.63	5.9765	.01660	9.0576
#3	136.61	.44770	171.97	5.9611	.01660	9.0565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041828 Acquired: 2/23/2011 20:58:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30939**	F **-106570.**	**.63301**	F **-65.870**	F **1526.9**	F **-13701.**
Stddev	.00053	112.	.00520	2.032	3.1	23.
%RSD	.17251	.10521	.82084	3.0856	.20079	.16798
#1	.30904	-106450.	.63829	-64.196	1530.2	-13727.
#2	.31000	-106680.	.62791	-65.281	1526.5	-13690.
#3	.30912	-106590.	.63282	-68.131	1524.1	-13686.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01043**	**.00522**	F **237.19**	**.02973**	**2.2922**	**11.071**
Stddev	.00212	.00248	2.03	.00084	.0194	.062
%RSD	20.334	47.477	.85619	2.8134	.84571	.55898
#1	.01263	.00377	237.01	.02876	2.2698	11.000
#2	.01026	.00381	239.31	.03021	2.3038	11.096
#3	.00840	.00808	235.26	.03021	2.3029	11.116
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.03727**	**.80992**	**1.2473**	F **340.06**
Stddev	.00141	.00694	.0025	4.03
%RSD	3.7722	.85669	.19938	1.1851
#1	.03566	.80268	1.2491	335.64
#2	.03825	.81651	1.2484	343.53
#3	.03791	.81056	1.2445	341.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041828 Acquired: 2/23/2011 20:58:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80505.**	**60106.**
Stddev	514.	491.
%RSD	.63906	.81693
#1	79954.	60585.
#2	80589.	59604.
#3	80973.	60129.

Approved: February 24, 2011

Sample Name: L1102041829 Acquired: 2/23/2011 21:01:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03392**	**234.31**	**.19315**	**.15844**	**2.3404**	**.00581**	**669.00**
Stddev	.00030	2.06	.00124	.00018	.0029	.00002	7.10
%RSD	.87587	.87932	.64174	.11499	.12493	.42026	1.0614
#1	.03358	235.19	.19378	.15865	2.3435	.00584	665.19
#2	.03406	235.77	.19172	.15831	2.3377	.00582	664.63
#3	.03413	231.95	.19393	.15837	2.3400	.00579	677.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00958**	**.12268**	**.34878**	**5.4367**	**285.25**	**85.996**	**.35118**
Stddev	.00013	.00033	.00132	.0057	.53	.189	.00127
%RSD	1.3527	.26913	.37916	.10427	.18444	.22033	.36232
#1	.00969	.12303	.34964	5.4431	285.63	86.189	.35033
#2	.00943	.12265	.34725	5.4342	284.65	85.811	.35264
#3	.00961	.12237	.34944	5.4326	285.45	85.988	.35057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**147.34**	**4.1491**	**.01972**	**2.9910**	**.25970**	F **-75927.**	**.57582**
Stddev	.40	.0129	.00053	.0076	.00034	64.	.00099
%RSD	.27160	.31054	2.6668	.25301	.12910	.08368	.17134
#1	147.73	4.1436	.02021	2.9857	.26007	-76000.	.57618
#2	146.93	4.1398	.01917	2.9876	.25942	-75903.	.57470
#3	147.38	4.1638	.01979	2.9997	.25962	-75880.	.57657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041829 Acquired: 2/23/2011 21:01:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-67.137**	F **832.14**	F **-11142.**	**.01847**	**.00617**	F **340.96**	**.04235**
Stddev	3.389	1.42	35.	.00268	.00287	6.88	.00047
%RSD	5.0477	.17071	.31678	14.522	46.530	2.0180	1.1046
#1	-63.979	833.28	-11182.	.01758	.00635	342.94	.04181
#2	-70.717	832.59	-11114.	.01635	.00321	346.63	.04255
#3	-66.716	830.55	-11130.	.02149	.00894	333.31	.04268
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.0331**	**5.3545**	**.02177**	**.58205**	**1.2462**	F **433.71**
Stddev	.0141	.0120	.00160	.00083	.0013	1.08
%RSD	.46317	.22321	7.3340	.14201	.10677	.25014
#1	3.0492	5.3681	.02020	.58282	1.2471	434.52
#2	3.0272	5.3458	.02339	.58216	1.2468	432.48
#3	3.0230	5.3495	.02172	.58118	1.2447	434.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83551.**	**63880.**
Stddev	440.	255.
%RSD	.52636	.39847
#1	84053.	63595.
#2	83235.	64085.
#3	83364.	63961.

Approved: February 24, 2011

Sample Name: L1102041830 Acquired: 2/23/2011 21:05:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01316**	**219.62**	**.12473**	**.11080**	**2.4266**	**.01155**	F **909.09**
Stddev	.00063	3.66	.00273	.00338	.0036	.00013	5.64
%RSD	4.7780	1.6668	2.1854	3.0472	.14723	1.1120	.62010
#1	.01309	215.58	.12614	.10848	2.4225	.01140	905.98
#2	.01257	222.71	.12159	.11468	2.4286	.01159	915.60
#3	.01382	220.57	.12648	.10925	2.4287	.01165	905.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00537**	**.12220**	**.34929**	**1.0142**	**279.00**	**68.134**	**.37007**
Stddev	.00013	.00034	.00215	.0014	.52	.200	.00270
%RSD	2.4583	.28147	.61427	.14139	.18486	.29333	.72975
#1	.00551	.12254	.34701	1.0126	278.51	67.911	.36734
#2	.00524	.12222	.34960	1.0153	279.54	68.298	.37014
#3	.00535	.12185	.35127	1.0147	278.96	68.193	.37274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**156.55**	**3.7037**	**.01161**	**15.551**	**.27335**	F **-54341.**	**.41459**
Stddev	.99	.0135	.00017	.041	.00062	151.	.00153
%RSD	.62947	.36400	1.4881	.26478	.22845	.27713	.36938
#1	155.42	3.6887	.01142	15.507	.27376	-54443.	.41330
#2	157.26	3.7149	.01176	15.559	.27263	-54412.	.41419
#3	156.97	3.7075	.01165	15.588	.27366	-54168.	.41628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041830 Acquired: 2/23/2011 21:05:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.007**	F **1056.1**	F **-9462.1**	**.01809**	**.00558**	F **370.11**	**.04657**
Stddev	2.444	.4	56.4	.00046	.00493	3.69	.00061
%RSD	4.0731	.03739	.59635	2.5601	88.370	.99750	1.3142
#1	-58.236	1056.0	-9521.1	.01804	.00478	371.27	.04643
#2	-62.796	1056.6	-9456.6	.01765	.00110	373.08	.04724
#3	-58.991	1055.8	-9408.7	.01857	.01086	365.98	.04604
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.9137**	**2.1307**	**.01806**	**.57858**	**1.0603**	F **348.89**
Stddev	.0013	.0092	.00053	.00450	.0011	3.25
%RSD	.03257	.43242	2.9481	.77714	.10702	.93193
#1	3.9148	2.1207	.01861	.57345	1.0609	345.16
#2	3.9123	2.1389	.01755	.58044	1.0610	351.10
#3	3.9141	2.1325	.01802	.58184	1.0590	350.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81756.**	**61323.**
Stddev	25.	274.
%RSD	.03067	.44701
#1	81782.	61633.
#2	81732.	61111.
#3	81754.	61226.

Approved: February 24, 2011

Sample Name: L1102041831 Acquired: 2/23/2011 21:09:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02972**	**273.12**	**.17748**	**.10306**	**2.4104**	**.00938**	**555.64**
Stddev	.00045	2.44	.00206	.00142	.0036	.00015	9.67
%RSD	1.5062	.89222	1.1617	1.3770	.14965	1.5986	1.7412
#1	.02923	274.85	.17513	.10143	2.4141	.00955	566.78
#2	.03010	274.17	.17835	.10383	2.4100	.00928	549.35
#3	.02983	270.33	.17896	.10394	2.4069	.00930	550.78
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00833**	**.13563**	**.41499**	**3.6086**	**325.43**	**95.960**	**.34648**
Stddev	.00012	.00024	.00508	.0076	.08	.137	.00097
%RSD	1.3922	.17604	1.2234	.20964	.02531	.14288	.28011
#1	.00823	.13588	.42081	3.6135	325.52	96.054	.34576
#2	.00832	.13561	.41270	3.6124	325.37	95.802	.34758
#3	.00846	.13540	.41146	3.5999	325.40	96.022	.34609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**134.24**	**4.5574**	**.01547**	**4.0309**	**.30390**	F **-64027.**	**.52001**
Stddev	.04	.0086	.00025	.0072	.00131	165.	.00074
%RSD	.02707	.18923	1.6427	.17971	.43177	.25728	.14210
#1	134.20	4.5508	.01518	4.0227	.30336	-64185.	.51957
#2	134.24	4.5544	.01565	4.0333	.30540	-64040.	.52087
#3	134.27	4.5672	.01557	4.0366	.30295	-63856.	.51960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041831 Acquired: 2/23/2011 21:09:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.109**	F **673.10**	F **-8773.2**	**.01890**	**.00274**	F **242.73**	**.03823**
Stddev	4.891	2.12	29.2	.00281	.00080	3.13	.00053
%RSD	8.1363	.31511	.33327	14.878	29.162	1.2889	1.3861
#1	-54.535	675.08	-8806.6	.01621	.00333	243.65	.03774
#2	-62.107	673.37	-8760.9	.01868	.00307	245.29	.03879
#3	-63.683	670.86	-8752.2	.02182	.00183	239.24	.03816
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.3195**	**4.7809**	**.02221**	**.58028**	**1.0003**	F **427.56**
Stddev	.0076	.0046	.00264	.00753	.0022	7.34
%RSD	.32969	.09523	11.876	1.2984	.22304	1.7166
#1	2.3249	4.7853	.02521	.58875	1.0012	435.92
#2	2.3229	4.7762	.02026	.57775	1.0020	424.59
#3	2.3108	4.7811	.02115	.57434	.99778	422.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83711.**	**62213.**
Stddev	123.	342.
%RSD	.14719	.55010
#1	83693.	61818.
#2	83598.	62423.
#3	83843.	62398.

Approved: February 24, 2011

Sample Name: L1102041832 Acquired: 2/23/2011 21:13:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02378**	**227.41**	**.13054**	**.14800**	**2.9613**	**.00912**	F **1151.7**
Stddev	.00070	3.81	.00193	.00118	.0084	.00010	12.0
%RSD	2.9505	1.6734	1.4781	.79950	.28477	1.1021	1.0394
#1	.02424	226.44	.13267	.14888	2.9598	.00912	1156.4
#2	.02414	224.18	.12891	.14666	2.9537	.00902	1138.1
#3	.02298	231.61	.13005	.14847	2.9703	.00922	1160.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00545**	**.12602**	**.37694**	**1.1365**	**296.50**	**77.341**	**.35445**
Stddev	.00009	.00056	.00343	.0047	.69	.196	.00102
%RSD	1.5725	.44704	.91127	.41531	.23159	.25393	.28835
#1	.00553	.12654	.37590	1.1403	296.42	77.382	.35341
#2	.00547	.12609	.37414	1.1380	295.86	77.128	.35546
#3	.00536	.12542	.38077	1.1312	297.23	77.514	.35446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**148.05**	**3.8205**	**.01267**	**11.010**	**.28778**	F **-60945.**	**.26781**
Stddev	.70	.0045	.00011	.056	.00225	92.	.00339
%RSD	.47343	.11703	.83777	.51303	.78273	.15127	1.2670
#1	147.85	3.8210	.01265	10.986	.29014	-61004.	.26933
#2	147.47	3.8158	.01258	10.969	.28755	-60992.	.27017
#3	148.83	3.8247	.01279	11.074	.28565	-60839.	.26392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102041832 Acquired: 2/23/2011 21:13:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-54.218**	F **1327.1**	F **-9612.8**	**.01499**	**.00747**	F **374.89**	**.02043**
Stddev	4.214	3.9	14.6	.00204	.00482	5.87	.00053
%RSD	7.7730	.29158	.15167	13.607	64.476	1.5646	2.5894
#1	-59.061	1330.7	-9629.4	.01382	.01253	380.30	.02093
#2	-52.207	1327.7	-9602.4	.01381	.00695	375.71	.01988
#3	-51.386	1323.0	-9606.5	.01735	.00294	368.66	.02050
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.6357**	**3.9716**	**.02170**	**.61244**	**.69906**	F **251.44**
Stddev	.0279	.0086	.00196	.00630	.00171	3.00
%RSD	.60119	.21616	9.0485	1.0289	.24394	1.1929
#1	4.6172	3.9757	.01981	.61174	.69978	250.04
#2	4.6222	3.9618	.02157	.60653	.70029	249.40
#3	4.6678	3.9775	.02373	.61907	.69711	254.89
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	4.5000					45.000
Low Limit	-.01000					-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**79826.**	**59919.**
Stddev	78.	345.
%RSD	.09717	.57513
#1	79860.	59869.
#2	79738.	60286.
#3	79882.	59602.

Approved: February 24, 2011

Sample Name: L1102041833 Acquired: 2/23/2011 21:16:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04749**	**188.89**	**.12720**	**.07247**	**2.8251**	**.00134**
Stddev	.00115	2.20	.00267	.00167	.0003	.00005
%RSD	2.4234	1.1639	2.0958	2.3048	.01189	4.0089
#1	.04617	187.66	.12466	.07069	2.8255	.00134
#2	.04829	191.43	.12997	.07400	2.8249	.00129
#3	.04801	187.58	.12698	.07273	2.8250	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**490.78**	**.03876**	**.15529**	**.41449**	**5.4566**	**335.65**
Stddev	1.29	.00009	.00028	.00289	.0045	.44
%RSD	.26185	.22702	.17778	.69805	.08289	.13193
#1	489.75	.03866	.15558	.41678	5.4617	335.37
#2	490.37	.03882	.15503	.41544	5.4532	336.16
#3	492.22	.03880	.15527	.41124	5.4548	335.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**64.818**	**.37582**	**133.60**	**6.0591**	**.07907**	**13.188**
Stddev	.124	.00271	.37	.0120	.00015	.004
%RSD	.19058	.72060	.27344	.19863	.19196	.02740
#1	64.783	.37863	133.98	6.0551	.07923	13.186
#2	64.716	.37323	133.59	6.0496	.07906	13.192
#3	64.956	.37562	133.25	6.0726	.07893	13.186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041833 Acquired: 2/23/2011 21:16:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.36680**	F **-128060.**	**.97418**	F **-57.564**	F **847.08**	F **-23224.**
Stddev	.00090	91.	.00425	.881	1.61	16.
%RSD	.24429	.07133	.43594	1.5303	.18955	.06711
#1	.36721	-128160.	.97302	-56.843	848.86	-23220.
#2	.36743	-128040.	.97063	-58.546	845.75	-23210.
#3	.36578	-127970.	.97889	-57.303	846.62	-23241.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05568**	**.00762**	F **325.45**	**.07868**	**1.6082**	**7.3545**
Stddev	.00133	.00259	3.24	.00039	.0063	.0130
%RSD	2.3884	33.910	.99458	.49585	.39319	.17628
#1	.05418	.00967	323.18	.07832	1.6107	7.3691
#2	.05670	.00472	324.02	.07864	1.6129	7.3441
#3	.05617	.00848	329.16	.07909	1.6010	7.3504
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.02952**	**.67354**	**4.0710**	F **455.51**
Stddev	.00110	.00340	.0028	1.69
%RSD	3.7339	.50518	.06779	.37168
#1	.03056	.67524	4.0711	454.88
#2	.02963	.67576	4.0682	457.43
#3	.02837	.66962	4.0737	454.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041833 Acquired: 2/23/2011 21:16:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83563.**	**61401.**
Stddev	349.	261.
%RSD	.41804	.42459
#1	83246.	61267.
#2	83937.	61234.
#3	83505.	61701.

Approved: February 24, 2011

Sample Name: L1102041834 Acquired: 2/23/2011 21:20:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04110**	**241.88**	**.17970**	**.14527**	**3.9394**	**.00666**
Stddev	.00041	2.27	.00101	.00089	.0115	.00003
%RSD	.99562	.93768	.55977	.61317	.29208	.49655
#1	.04097	244.32	.18083	.14618	3.9399	.00669
#2	.04156	239.83	.17889	.14440	3.9277	.00666
#3	.04077	241.51	.17938	.14523	3.9506	.00662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**608.75**	**.06991**	**.19010**	**.53679**	**5.9443**	**406.06**
Stddev	5.68	.00013	.00046	.00229	.0172	.88
%RSD	.93360	.18308	.24260	.42585	.28969	.21664
#1	608.35	.07002	.19010	.53890	5.9533	406.09
#2	614.62	.06995	.19056	.53436	5.9552	405.16
#3	603.27	.06977	.18964	.53713	5.9244	406.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**78.755**	**.45090**	**164.58**	**7.7316**	**.10782**	**18.731**
Stddev	.318	.00119	.47	.0103	.00029	.055
%RSD	.40412	.26314	.28648	.13317	.26653	.29488
#1	78.583	.45199	164.63	7.7270	.10750	18.761
#2	78.560	.44964	164.08	7.7244	.10790	18.667
#3	79.123	.45107	165.02	7.7434	.10805	18.764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: February 24, 2011

Sample Name: L1102041834 Acquired: 2/23/2011 21:20:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47108**	F **-155160.**	**1.7044**	F **-63.974**	F **1077.0**	F **-29462.**
Stddev	.00113	325.	.0058	4.003	1.9	74.
%RSD	.24017	.20946	.33978	6.2573	.17557	.25091
#1	.47034	-155300.	1.7062	-67.052	1074.8	-29546.
#2	.47238	-155400.	1.7090	-65.420	1077.9	-29428.
#3	.47052	-154790.	1.6979	-59.448	1078.2	-29411.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06486**	**.01697**	F **262.80**	**.10909**	**2.1627**	**6.1383**
Stddev	.00314	.00289	2.45	.00040	.0086	.0170
%RSD	4.8429	17.036	.93143	.36215	.39921	.27643
#1	.06165	.01364	264.92	.10949	2.1631	6.1396
#2	.06499	.01841	263.36	.10909	2.1538	6.1207
#3	.06793	.01885	260.12	.10870	2.1711	6.1545
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000			
Low Limit			-1.0000			

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.03144**	**.78956**	**5.8645**	F **467.08**
Stddev	.00063	.00236	.0131	.88
%RSD	2.0064	.29939	.22383	.18826
#1	.03155	.79214	5.8614	468.07
#2	.03200	.78902	5.8789	466.77
#3	.03076	.78751	5.8532	466.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				45.000
Low Limit				-.00400

Approved: February 24, 2011

Sample Name: L1102041834 Acquired: 2/23/2011 21:20:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82747.**	**61515.**
Stddev	132.	303.
%RSD	.15977	.49317
#1	82667.	61174.
#2	82676.	61616.
#3	82900.	61755.

Approved: February 24, 2011

Sample Name: L1102050217 Acquired: 2/23/2011 21:23:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00256**	**9.5243**	**.05044**	**-.00232**	**.09090**	**-.00018**	**3.6307**
Stddev	.00109	.0980	.00059	.00102	.00021	.00002	.0120
%RSD	42.819	1.0289	1.1616	43.868	.22594	9.3650	.32923
#1	.00346	9.5345	.05051	-.00140	.09067	-.00017	3.6190
#2	.00134	9.4217	.05099	-.00341	.09104	-.00020	3.6303
#3	.00287	9.6169	.04983	-.00214	.09099	-.00018	3.6429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00714**	**.01148**	**.01280**	**15.185**	**3.0155**	**.04126**
Stddev	.00006	.00018	.00009	.00069	.063	.0327	.00248
%RSD	12.598	2.5574	.82580	5.4125	.41437	1.0841	6.0027
#1	.00038	.00693	.01157	.01339	15.139	2.9853	.04409
#2	.00048	.00727	.01148	.01297	15.159	3.0111	.03949
#3	.00047	.00722	.01138	.01204	15.257	3.0502	.04020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.2242**	**.33676**	**.00126**	**.14008**	**.00791**	F **-6066.4**	**.00760**
Stddev	.0248	.00206	.00004	.01922	.00068	24.0	.00108
%RSD	.76844	.61242	3.5503	13.717	8.5349	.39557	14.244
#1	3.2165	.33549	.00125	.14656	.00798	-6069.9	.00705
#2	3.2041	.33566	.00131	.15522	.00855	-6040.8	.00884
#3	3.2519	.33914	.00123	.11846	.00720	-6088.4	.00690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: February 24, 2011

Sample Name: L1102050217 Acquired: 2/23/2011 21:23:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-38.600**	**5.7059**	F **-101.76**	**-.00277**	**.00185**	F **119.46**	**.00613**
Stddev	3.740	.0092	1.99	.00173	.00262	.40	.00017
%RSD	9.6878	.16106	1.9556	62.407	141.25	.33251	2.6961
#1	-36.183	5.7045	-103.29	-.00078	.00459	119.05	.00627
#2	-36.711	5.7157	-102.49	-.00372	.00159	119.49	.00618
#3	-42.907	5.6975	-99.511	-.00382	-.00062	119.84	.00595
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000		9.0000			90.000	
Low Limit	-.00400		-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03325**	**.41060**	**.00463**	**.03984**	**.04054**	**3.0963**
Stddev	.00008	.00193	.00062	.00073	.00007	.2612
%RSD	.23151	.46997	13.364	1.8402	.17364	8.4366
#1	.03330	.41002	.00493	.03946	.04048	2.8414
#2	.03329	.40903	.00392	.03938	.04051	3.0841
#3	.03316	.41275	.00505	.04069	.04061	3.3634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93670.**	**62859.**
Stddev	636.	365.
%RSD	.67895	.58016
#1	94046.	63044.
#2	94029.	63094.
#3	92936.	62439.

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 21:27:32 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42973**	**10.641**	**.40498**	**.52906**	**1.0187**	**.05163**	**10.048**
Stddev	.00093	.107	.00138	.00077	.0033	.00029	.011
%RSD	.21651	1.0046	.34187	.14509	.32718	.56548	.11157
#1	.43075	10.659	.40641	.52978	1.0165	.05175	10.042
#2	.42892	10.527	.40365	.52825	1.0171	.05130	10.061
#3	.42952	10.738	.40489	.52915	1.0225	.05185	10.041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04964**	**.20241**	**.53495**	**.49539**	F **3.5592**	**51.985**	**1.0628**
Stddev	.00007	.00045	.00386	.00024	.0056	.105	.0034
%RSD	.13686	.22430	.72178	.04840	.15751	.20162	.31729
#1	.04961	.20281	.53541	.49567	3.5577	51.871	1.0603
#2	.04960	.20192	.53088	.49522	3.5544	52.077	1.0614
#3	.04972	.20251	.53856	.49529	3.5654	52.007	1.0666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					4.0000		
Range					-10.000%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.8010**	F **.44338**	**.99708**	**51.852**	**.53311**	F **-7.4773**	**.49072**
Stddev	.0504	.00219	.00061	.169	.04896	10.758	.00176
%RSD	.57236	.49504	.06071	.32682	9.1845	143.87	.35776
#1	8.7683	.44116	.99767	51.760	.58964	-18.838	.49241
#2	8.7757	.44344	.99646	51.749	.50433	-6.1475	.48891
#3	8.8590	.44555	.99712	52.048	.50535	2.5538	.49086
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000	.50000				10.000	
Range	-10.000%	-10.000%				-10.000%	

Approved: February 24, 2011

Sample Name: CCV Acquired: 2/23/2011 21:27:32 Type: QC
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-43.109**	F **11.677**	F **-81.118**	**1.2146**	**.39653**	**4.8989**	**1.0071**
Stddev	2.208	2.582	150.61	.0055	.00400	1.2341	.0025
%RSD	5.1207	22.111	185.67	.45220	1.0090	25.192	.25256
#1	-44.828	14.658	-255.02	1.2202	.39802	6.3230	1.0100
#2	-43.879	10.210	4.122	1.2142	.39956	4.1443	1.0052
#3	-40.620	10.163	7.540	1.2093	.39199	4.2293	1.0060
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000	10.000	10.000				
Range	-10.000%	10.000%	-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96977**	**.93719**	**.50987**	**1.0580**	**1.0098**	F **3.4264**
Stddev	.00614	.00492	.00199	.0032	.0339	.1555
%RSD	.63354	.52465	.39027	.30679	3.3562	4.5378
#1	.96752	.93730	.51216	1.0602	1.0489	3.2552
#2	.96507	.93222	.50860	1.0543	.98945	3.5590
#3	.97672	.94205	.50885	1.0595	.99107	3.4649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88367.**	**61778.**
Stddev	320.	278.
%RSD	.36240	.44921
#1	88208.	61680.
#2	88735.	62091.
#3	88156.	61562.

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 21:31:03 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**.02723**	**.00080**	**.00038**	**.00109**	**-.00002**	**-.02616**
Stddev	.00028	.00227	.00118	.00017	.00007	.00001	.01224
%RSD	26.481	8.3294	146.27	44.258	6.4394	81.353	46.803
#1	-.00137	.02964	.00113	.00019	.00107	-.00003	-.02097
#2	-.00103	.02514	.00178	.00042	.00103	-.00001	-.01737
#3	-.00081	.02690	-.00050	.00052	.00116	-.00001	-.04014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00014**	**.00007**	**.00006**	**-.00008**	**-.01542**	**.02499**
Stddev	.0001	.00014	.00036	.00051	.00077	.04087	.00132
%RSD	13289.	102.92	528.87	883.49	938.50	265.08	5.2753
#1	-.00010	-.00003	.00021	-.00045	-.00095	.03145	.02645
#2	.00006	-.00009	.00034	.00056	.00021	-.04360	.02389
#3	.00004	-.00030	-.00034	.00007	.00050	-.03411	.02463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01442**	**-.00003**	**.00062**	**-.04096**	**.00095**	F **18.630**	**.00291**
Stddev	.00322	.00063	.00012	.00159	.00031	17.209	.00100
%RSD	22.316	2442.5	19.347	3.8805	32.445	92.373	34.328
#1	.01813	.00036	.00074	-.04135	.00097	33.517	.00339
#2	.01278	.00032	.00050	-.03922	.00124	-.21213	.00359
#3	.01235	-.00075	.00063	-.04232	.00063	22.584	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: February 24, 2011

Sample Name: CCB Acquired: 2/23/2011 21:31:03 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1266) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-36.840**	F **.02609**	F **6.4238**	**.00003**	**.00325**	**-.51949**	**.00020**
Stddev	5.793	.03703	2.5869	.00044	.00081	.08086	.00024
%RSD	15.724	141.95	40.271	1663.3	25.024	15.565	123.35
#1	-38.523	-.01438	5.1814	-.00048	.00250	-.60110	-.00008
#2	-30.392	.03438	9.3975	.00026	.00412	-.51797	.00034
#3	-41.604	.05827	4.6924	.00030	.00314	-.43941	.00034
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00112**	**.00100**	**.00006**	**-.00012**	F **-.71674**
Stddev	.00008	.00041	.00016	.00037	.00008	.53586
%RSD	69.725	36.247	16.179	655.11	65.851	74.764
#1	-.00013	.00159	.00085	.00029	-.00010	-1.1238
#2	-.00003	.00091	.00118	-.00037	-.00021	-.91674
#3	-.00020	.00086	.00098	.00024	-.00005	-.10964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90338.**	**60650.**
Stddev	189.	347.
%RSD	.20916	.57215
#1	90353.	60854.
#2	90519.	60846.
#3	90142.	60249.

Approved: February 24, 2011

Sample Name: S0 Acquired: 2/25/2011 9:47:33 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1270) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00026**	**.01119**	**.00000**	**.00011**	**.00238**	**-.00138**	**-.00091**
Stddev	.00005	.00015	.0000	.00008	.00008	.00002	.00007
%RSD	20.141	1.3026	1494.7	74.734	3.3276	1.2523	8.0069
#1	.00031	.01112	.00001	.00012	.00234	-.00136	-.00098
#2	.00025	.01110	.00000	.00019	.00247	-.00137	-.00083
#3	.00021	.01136	.00000	.00003	.00233	-.00140	-.00093

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00004**	**-.00001**	**.00040**	**.00007**	**.00003**	**.00147**	**-.00038**
Stddev	.00000	.00001	.00005	.00001	.00000	.00014	.00016
%RSD	7.5741	146.26	12.036	21.453	13.422	9.4547	40.906
#1	.00003	-.00001	.00036	.00007	.00003	.00133	-.00040
#2	.00003	-.00002	.00039	.00005	.00003	.00160	-.00053
#3	.00004	.00001	.00046	.00008	.00004	.00149	-.00022

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00002**	**-.00003**	**.00001**	**-.00147**	**-.00013**	**.00006**	**-.00003**
Stddev	.00003	.00004	.00001	.00006	.00001	.00000	.00003
%RSD	176.22	143.78	65.479	4.3223	6.9367	1.7411	83.223
#1	.00006	.00000	.00001	-.00150	-.00013	.00006	-.00002
#2	.00001	.00000	.00000	-.00140	-.00012	.00006	-.00002
#3	-.00001	-.00007	.00001	-.00152	-.00014	.00006	-.00006

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00181**	**.00000**	**.00006**	**.00005**	**-.00004**	**.00031**	**.00002**
Stddev	.00004	.00000	.00001	.00001	.00001	.00001	.00000
%RSD	2.2266	99.136	18.744	16.214	24.825	2.7828	25.630
#1	-.00177	.00001	.00008	.00004	-.00003	.00030	.00001
#2	-.00185	.00000	.00006	.00006	-.00004	.00030	.00002
#3	-.00181	.00000	.00005	.00005	-.00005	.00032	.00002

Approved: March 01, 2011

Sample Name: S0 Acquired: 2/25/2011 9:47:33 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1270) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00047**	**-.00032**	**-.00004**	**-.00002**	**-.00003**	**-.00116**
Stddev	.00005	.00005	.00000	.00008	.00002	.00007
%RSD	9.4876	15.495	10.166	438.55	64.449	6.1081
#1	.00052	-.00031	-.00004	.00004	-.00004	-.00123
#2	.00043	-.00028	-.00004	-.00010	-.00005	-.00109
#3	.00047	-.00038	-.00003	.00001	-.00001	-.00115

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91652.**	**54015.**
Stddev	510.	600.
%RSD	.55591	1.1111
#1	91262.	54470.
#2	92229.	54240.
#3	91467.	53335.

Approved: March 01, 2011

Sample Name: S1 Acquired: 2/25/2011 9:51:25 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1270) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	Ba4554	Be3131	Ca4226	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00119**	**.01628**	**.00639**	**.00004**	**-.00031**	**.00011**	**.00025**
Stddev	.00009	.00013	.00010	.00008	.00009	.00002	.00002
%RSD	7.6821	.78394	1.5680	200.86	29.851	20.890	6.5433
#1	.00109	.01641	.00629	-.00004	-.00033	.00011	.00023
#2	.00124	.01629	.00649	.00004	-.00021	.00014	.00026
#3	.00125	.01615	.00638	.00013	-.00039	.00009	.00025

Elem	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00138**	**.00024**	**.00019**	**.00371**	**.00110**	**.00014**	**.00020**
Stddev	.00002	.00003	.00001	.00008	.00009	.00003	.00001
%RSD	1.1088	12.975	4.1631	2.1923	8.2315	20.953	5.5554
#1	.00138	.00020	.00020	.00363	.00116	.00011	.00020
#2	.00137	.00026	.00018	.00379	.00099	.00015	.00021
#3	.00140	.00026	.00019	.00372	.00113	.00017	.00019

Elem	Mo2020	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00034**	**.00686**	**-.00002**	**.00005**	**.00004**	**-.00160**	**.00002**
Stddev	.00001	.00016	.00000	.00001	.00002	.00013	.00000
%RSD	4.1032	2.4046	10.795	12.385	36.495	8.4039	16.697
#1	.00036	.00667	-.00002	.00004	.00003	-.00149	.00002
#2	.00035	.00697	-.00003	.00005	.00006	-.00175	.00002
#3	.00033	.00694	-.00003	.00006	.00003	-.00156	.00003

Elem	S_1820	Sb2068	Si2124	Sn1899	Sr4077	Ti3372	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00006**	**.00015**	**.00032**	**.00024**	**.00785**	**.00009**	**.00289**
Stddev	.00000	.00002	.00001	.00000	.00005	.00002	.00008
%RSD	6.0783	10.817	1.9788	1.4432	.62323	26.118	2.8198
#1	.00006	.00017	.00032	.00024	.00787	.00011	.00287
#2	.00006	.00014	.00031	.00024	.00780	.00007	.00299
#3	.00006	.00013	.00031	.00024	.00789	.00011	.00283

Approved: March 01, 2011

Sample Name: S1 Acquired: 2/25/2011 9:51:25 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1270) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062	Zr3391
Units	Cts/S	Cts/S
Avg	**.00096**	**-.00115**
Stddev	.00001	.00008
%RSD	.89178	6.7368
#1	.00095	-.00123
#2	.00097	-.00115
#3	.00097	-.00107

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91504.**	**54064.**
Stddev	389.	94.
%RSD	.42526	.17385
#1	91503.	54055.
#2	91894.	54162.
#3	91116.	53975.

Approved: March 01, 2011

Sample Name: S2 Acquired: 2/25/2011 9:55:16 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1270) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00181**	**.02077**	**.00005**	**.00085**	**.01021**	**.00154**	**.00037**
Stddev	.00004	.00005	.00000	.00008	.00016	.00005	.00005
%RSD	2.0309	.25678	6.8089	9.5191	1.5449	3.1228	14.398
#1	.00184	.02071	.00005	.00084	.01017	.00148	.00037
#2	.00184	.02077	.00005	.00077	.01038	.00158	.00042
#3	.00177	.02081	.00005	.00093	.01007	.00155	.00032

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00018**	**.00052**	**.00231**	**.00043**	**.00036**	**.00591**	**.00199**
Stddev	.00001	.00001	.00004	.00001	.00004	.00014	.00027
%RSD	5.1419	2.1480	1.7710	1.6612	9.9353	2.4047	13.471
#1	.00019	.00050	.00235	.00043	.00032	.00603	.00229
#2	.00018	.00052	.00229	.00042	.00040	.00595	.00191
#3	.00017	.00052	.00227	.00042	.00037	.00575	.00178

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00027**	**.00040**	**.00069**	**.01444**	**.00011**	**.00006**	**.00011**
Stddev	.00003	.00001	.00001	.00015	.00001	.00001	.00001
%RSD	9.9504	3.1336	1.2384	1.0484	12.105	16.869	6.2523
#1	.00030	.00041	.00070	.01460	.00011	.00007	.00011
#2	.00028	.00041	.00069	.01441	.00012	.00005	.00011
#3	.00024	.00038	.00068	.01430	.00009	.00005	.00010

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00161**	**.00004**	**.00007**	**.00024**	**.00000**	**.00032**	**.00047**
Stddev	.00005	.00000	.00000	.00000	.00000	.00001	.00001
%RSD	2.8306	8.4862	3.7158	1.4533	2102.6	4.4844	1.3736
#1	-.00157	.00004	.00007	.00025	.00000	.00033	.00048
#2	-.00166	.00004	.00007	.00024	.00000	.00031	.00047
#3	-.00160	.00004	.00007	.00024	.00000	.00032	.00048

Approved: March 01, 2011

Sample Name: S2 Acquired: 2/25/2011 9:55:16 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1270) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01530**	**.00060**	**.00004**	**.00553**	**.00195**	**-.00096**
Stddev	.00001	.00004	.00000	.00004	.00001	.00021
%RSD	.07906	6.8382	11.493	.66748	.54289	21.750
#1	.01529	.00060	.00005	.00549	.00197	-.00086
#2	.01530	.00056	.00004	.00556	.00195	-.00082
#3	.01531	.00065	.00004	.00553	.00195	-.00120

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91576.**	**55249.**
Stddev	98.	222.
%RSD	.10688	.40151
#1	91464.	54995.
#2	91619.	55404.
#3	91645.	55348.

Approved: March 01, 2011

Sample Name: S3 Acquired: 2/25/2011 9:59:09 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1270) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07425**	**.47463**	**.00282**	**.03448**	**.39767**	**.14049**	**.06073**
Stddev	.00072	.00545	.00000	.00029	.00122	.00108	.00015
%RSD	.97328	1.1486	.13798	.82982	.30718	.76735	.24836
#1	.07413	.47360	.00282	.03444	.39825	.14026	.06090
#2	.07359	.46978	.00283	.03421	.39849	.13955	.06066
#3	.07502	.48053	.00282	.03478	.39627	.14167	.06063

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00744**	**.02540**	**.09216**	**.01689**	**.01732**	**.22177**	**.12381**
Stddev	.00003	.00003	.00073	.00002	.00002	.00045	.00008
%RSD	.41852	.12598	.78753	.11725	.13949	.20105	.06672
#1	.00742	.02543	.09206	.01691	.01731	.22220	.12384
#2	.00748	.02537	.09149	.01688	.01735	.22180	.12388
#3	.00743	.02538	.09293	.01688	.01730	.22131	.12372

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01284**	**.01836**	**.03355**	**.78044**	**.01185**	**.00006**	**.00762**
Stddev	.00003	.00005	.00004	.00198	.00004	.00001	.00002
%RSD	.19786	.24833	.12981	.25374	.35108	16.984	.29813
#1	.01282	.01830	.03359	.78096	.01183	.00006	.00763
#2	.01284	.01838	.03357	.78210	.01181	.00005	.00763
#3	.01287	.01838	.03350	.77825	.01189	.00006	.00759

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00153**	**.00135**	**.00004**	**.00848**	**.00157**	**.00071**	**.02207**
Stddev	.00018	.00001	.00000	.00003	.00001	.00001	.00005
%RSD	11.678	.66261	6.6639	.37124	.58697	1.3438	.22573
#1	-.00132	.00134	.00005	.00852	.00156	.00070	.02208
#2	-.00160	.00136	.00004	.00847	.00157	.00071	.02212
#3	-.00166	.00136	.00004	.00846	.00158	.00071	.02202

Approved: March 01, 2011

Sample Name: S3 Acquired: 2/25/2011 9:59:09 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1270) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.74455**	**.04463**	**.00352**	**.26716**	**.09883**	**-.00035**
Stddev	.00149	.00012	.00001	.00205	.00009	.00003
%RSD	.19957	.25815	.24724	.76572	.09047	8.2025
#1	.74513	.04474	.00352	.26676	.09873	-.00037
#2	.74566	.04464	.00352	.26535	.09890	-.00036
#3	.74287	.04451	.00351	.26938	.09886	-.00032

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91080.**	**56425.**
Stddev	181.	228.
%RSD	.19902	.40458
#1	91142.	56671.
#2	91221.	56219.
#3	90875.	56385.

Approved: March 01, 2011

Sample Name: S4 Acquired: 2/25/2011 10:02:46 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1270) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.15516**	**.96813**	**.00566**	**.07270**	**.79153**	**.29939**	**.12244**
Stddev	.00267	.01367	.00003	.00127	.00114	.00476	.00008
%RSD	1.7212	1.4118	.44933	1.7510	.14382	1.5913	.06605
#1	.15545	.97534	.00565	.07278	.79024	.30080	.12234
#2	.15767	.97668	.00565	.07393	.79238	.30329	.12250
#3	.15235	.95237	.00569	.07139	.79197	.29408	.12246

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01473**	**.05020**	**.19385**	**.03350**	**.03464**	**.44417**	**.24590**
Stddev	.00006	.00017	.00293	.00006	.00007	.00058	.00058
%RSD	.43641	.34158	1.5102	.18063	.21577	.12983	.23469
#1	.01470	.05003	.19462	.03350	.03465	.44364	.24523
#2	.01469	.05022	.19632	.03344	.03471	.44478	.24628
#3	.01480	.05037	.19062	.03356	.03456	.44411	.24618

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02610**	**.03688**	**.06653**	**1.5632**	**.02350**	**.00009**	**.01513**
Stddev	.00007	.00006	.00014	.0042	.00007	.00001	.00003
%RSD	.25265	.15244	.21712	.27038	.28490	15.147	.20730
#1	.02611	.03682	.06650	1.5601	.02343	.00011	.01511
#2	.02616	.03690	.06640	1.5680	.02351	.00010	.01512
#3	.02603	.03692	.06668	1.5616	.02357	.00008	.01517

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00178**	**.00267**	**.00003**	**.01671**	**.00313**	**.00110**	**.04375**
Stddev	.00008	.00001	.00001	.00006	.00001	.00000	.00010
%RSD	4.2236	.54937	18.175	.38414	.25963	.28964	.23071
#1	-.00180	.00265	.00002	.01671	.00314	.00110	.04372
#2	-.00170	.00268	.00003	.01664	.00312	.00110	.04367
#3	-.00185	.00267	.00003	.01677	.00313	.00110	.04386

Approved: March 01, 2011

Sample Name: S4 Acquired: 2/25/2011 10:02:46 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1270) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.4836**	**.08939**	**.00685**	**.56884**	**.19958**	**-.00072**
Stddev	.0056	.00001	.00005	.00982	.00008	.00004
%RSD	.37433	.00666	.67224	1.7259	.04109	6.1086
#1	1.4784	.08939	.00682	.57099	.19957	-.00067
#2	1.4895	.08938	.00683	.57740	.19950	-.00073
#3	1.4830	.08939	.00690	.55812	.19966	-.00076

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87516.**	**51823.**
Stddev	430.	733.
%RSD	.49172	1.4154
#1	87733.	51444.
#2	87020.	51356.
#3	87794.	52668.

Approved: March 01, 2011

Sample Name: ICV Acquired: 2/25/2011 10:06:25 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41454**	**10.112**	**.41732**	**.50299**	**.99818**	**.05249**	**9.9403**
Stddev	.01135	.233	.00136	.01264	.00059	.00129	.0254
%RSD	2.7391	2.3044	.32479	2.5123	.05961	2.4551	.25532
#1	.40263	9.8820	.41886	.49008	.99876	.05126	9.9558
#2	.41576	10.107	.41679	.50354	.99821	.05238	9.9540
#3	.42524	10.348	.41631	.51534	.99757	.05383	9.9110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.05298**	F **.21084**	**.49706**	**.49594**	**3.9655**	**52.363**	**1.0017**
Stddev	.00007	.00024	.01299	.00137	.0046	.058	.0032
%RSD	.13488	.11392	2.6142	.27672	.11551	.11121	.31520
#1	.05302	.21092	.48469	.49681	3.9707	52.381	1.0030
#2	.05302	.21057	.49589	.49664	3.9619	52.298	1.0041
#3	.05290	.21103	.51060	.49435	3.9640	52.410	.99815
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.05000	.20000					
Range	5.0000%	5.0000%					

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9419**	**.48927**	**1.0324**	F **53.420**	**.50019**	F **2.7421**	**.50285**
Stddev	.0324	.00283	.0011	.091	.00020	7.5467	.00372
%RSD	.32565	.57841	.10562	.16959	.03935	275.22	.73934
#1	9.9248	.49244	1.0332	53.375	.50041	8.0039	.50597
#2	9.9793	.48698	1.0328	53.360	.50013	6.1267	.50385
#3	9.9217	.48840	1.0311	53.524	.50002	-5.9044	.49874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value				50.000		10.000	
Range				5.0000%		-5.0000%	

Approved: March 01, 2011

Sample Name: ICV Acquired: 2/25/2011 10:06:25 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **7.5484**	**9.9831**	F **19.053**	**1.1980**	F **.42399**	F **582.19**	**.99907**
Stddev	6.1784	.1224	2.262	.0020	.00419	1.64	.00117
%RSD	81.851	1.2259	11.870	.16544	.98915	.28148	.11675
#1	8.2834	10.117	16.452	1.2000	.42417	581.28	1.0003
#2	13.326	9.9563	20.148	1.1961	.42809	581.21	.99885
#3	1.0354	9.8763	20.559	1.1979	.41971	584.09	.99802
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
Value	10.000		10.000		.40000	5.0000	
Range	-5.0000%		5.0000%		5.0000%	5.0000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98977**	**.99675**	**.50765**	**.99872**	**.99985**	F **2.9587**
Stddev	.00102	.00295	.00126	.02570	.00474	.6336
%RSD	.10349	.29641	.24801	2.5737	.47363	21.414
#1	.99021	.99924	.50745	.97348	1.0045	2.3176
#2	.98860	.99752	.50651	.99780	1.0001	2.9740
#3	.99051	.99348	.50901	1.0249	.99502	3.5845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						5.0000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91989.**	**54649.**
Stddev	341.	809.
%RSD	.37041	1.4797
#1	91599.	55222.
#2	92136.	55001.
#3	92231.	53724.

Approved: March 01, 2011

Sample Name: ICB Acquired: 2/25/2011 10:10:03 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**-.00246**	**.00128**	**.00259**	**-.00030**	**.00000**	**.01051**
Stddev	.00056	.00638	.00172	.00093	.00050	.0000	.01001
%RSD	73.562	259.17	134.13	35.798	167.80	2922.8	95.250
#1	.00131	.00124	-.00070	.00366	-.00034	.00002	.01034
#2	.00077	.00120	.00224	.00202	.00022	-.00002	.00058
#3	.00019	-.00983	.00231	.00209	-.00078	-.00001	.02060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00007**	**-.00002**	**.00011**	**-.00367**	**.09309**	**.00226**
Stddev	.00008	.00008	.00012	.00024	.00421	.01614	.00165
%RSD	1082.2	113.71	497.59	213.42	114.65	17.338	72.740
#1	.00000	-.00002	-.00007	.00039	-.00215	.07825	.00045
#2	-.00007	-.00017	.00011	-.00004	-.00043	.11027	.00366
#3	.00009	-.00003	-.00011	-.00001	-.00843	.09074	.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01335**	**.00145**	**.00097**	**.00895**	**-.00025**	F **-1.5805**	**-.00198**
Stddev	.02846	.00043	.00007	.01280	.00027	11.653	.00097
%RSD	213.20	29.492	7.3970	142.98	105.82	737.29	48.925
#1	.00484	.00191	.00098	.02029	-.00012	-11.559	-.00209
#2	.00126	.00106	.00104	-.00492	-.00008	-4.4084	-.00096
#3	-.04615	.00139	.00089	.01148	-.00056	11.226	-.00289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.1000	
Low Limit						-1.0000	

Approved: March 01, 2011

Sample Name: ICB Acquired: 2/25/2011 10:10:03 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.668**	**.02974**	F **-3.0195**	**.00132**	**-.00041**	**.10845**	**.00043**
Stddev	9.381	.04067	3.1488	.00264	.00227	.05644	.00009
%RSD	87.940	136.74	104.28	199.47	546.27	52.038	20.157
#1	.15177	.04111	-2.7816	.00409	-.00181	.08153	.00046
#2	18.177	-.01540	.00353	.00104	.00220	.17331	.00049
#3	13.674	.06351	-6.2806	-.00117	-.00163	.07052	.00033
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0400		1.0400				
Low Limit	-1.2000		-1.0400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00110**	**.00014**	**.00013**	**.00076**	**.05754**
Stddev	.0001	.00044	.00135	.00034	.00008	.22816
%RSD	3196.2	40.446	969.49	264.84	11.014	396.51
#1	.00003	.00159	.00114	.00030	.00082	.31977
#2	-.00007	.00099	.00067	-.00026	.00080	-.05150
#3	.00004	.00072	-.00139	.00034	.00067	-.09564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93982.**	**54909.**
Stddev	386.	560.
%RSD	.41119	1.0199
#1	94192.	54606.
#2	94217.	54566.
#3	93536.	55555.

Approved: March 01, 2011

Sample Name: ICSA Acquired: 2/25/2011 10:13:54 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**219.21**	**.00186**	**.03735**	**.00070**	**.00004**	**246.26**
Stddev	.00047	1.59	.00092	.00201	.00015	.00002	.79
%RSD	131.12	.72398	49.598	5.3817	20.794	54.317	.32177
#1	.00051	217.42	.00278	.03899	.00062	.00002	245.39
#2	-.00017	220.44	.00094	.03794	.00087	.00004	246.94
#3	.00074	219.78	.00185	.03511	.00061	.00006	246.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.00144**	**.00002**	**-.00120**	F **-.00810**	**95.903**	**.07812**	**.00822**
Stddev	.00012	.00013	.00016	.00075	.137	.03696	.00300
%RSD	8.4737	835.63	13.642	9.2337	.14237	47.307	36.551
#1	.00134	-.00009	-.00139	-.00739	95.760	.04760	.01160
#2	.00140	.00016	-.00108	-.00888	96.032	.11921	.00586
#3	.00158	-.00003	-.00114	-.00803	95.918	.06755	.00720
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.00050			.00500			
Low Limit	-.00050			-.00500			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**247.26**	**-.00161**	**-.00043**	**.04159**	**-.00092**	F **-653.42**	F **-.00815**
Stddev	1.03	.00037	.00013	.01137	.00033	26.44	.00223
%RSD	.41802	22.762	31.222	27.330	36.411	4.0471	27.381
#1	246.14	-.00120	-.00043	.03114	-.00127	-622.91	-.00932
#2	248.17	-.00171	-.00057	.05369	-.00088	-669.80	-.00558
#3	247.48	-.00191	-.00030	.03994	-.00060	-667.55	-.00956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						.50000	.00500
Low Limit						-.50000	-.00500

Approved: March 01, 2011

Sample Name: ICSA Acquired: 2/25/2011 10:13:54 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **13.764**	F **230.72**	F **39.819**	**.00620**	**-.00560**	**.85579**	**.00040**
Stddev	2.702	.18	2.489	.00534	.00476	.20185	.00046
%RSD	19.634	.07956	6.2512	86.100	84.961	23.587	115.93
#1	14.468	230.90	41.210	.00292	-.00816	1.0050	.00039
#2	10.780	230.73	36.945	.00332	-.00011	.93629	.00086
#3	16.045	230.53	41.302	.01236	-.00853	.62610	-.00006
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.04000	.04000	.04000				
Low Limit	-.04000	-.04000	-.04000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.01093**	**.00119**	**-.00087**	**-.00381**	F **-2.6254**
Stddev	.00016	.00169	.00027	.00018	.00012	.2385
%RSD	42.084	15.459	22.895	20.308	3.2103	9.0833
#1	-.00020	-.00919	.00139	-.00090	-.00368	-2.6712
#2	-.00041	-.01256	.00088	-.00103	-.00393	-2.8377
#3	-.00052	-.01105	.00129	-.00068	-.00381	-2.3674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86226.**	**53904.**
Stddev	251.	709.
%RSD	.29147	1.3153
#1	86149.	54666.
#2	86507.	53263.
#3	86023.	53783.

Approved: March 01, 2011

Sample Name: ICSAB Acquired: 2/25/2011 10:17:45 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48239**	**224.05**	**.24949**	**.03757**	**.24952**	**.25771**	**245.97**
Stddev	.00292	1.57	.00140	.00048	.00024	.00153	.18
%RSD	.60633	.70118	.56057	1.2813	.09471	.59494	.07369
#1	.48204	222.25	.25105	.03812	.24960	.25768	246.04
#2	.48548	224.74	.24836	.03721	.24971	.25927	246.10
#3	.47966	225.16	.24905	.03738	.24926	.25620	245.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50141**	**.24359**	**.23089**	**.23169**	**96.184**	**5.1328**	**.00786**
Stddev	.00042	.00032	.00183	.00091	.109	.0251	.00280
%RSD	.08285	.13143	.79205	.39384	.11283	.48825	35.620
#1	.50099	.24386	.23130	.23206	96.255	5.1562	.00806
#2	.50182	.24366	.23248	.23236	96.237	5.1064	.00496
#3	.50143	.24324	.22889	.23065	96.059	5.1359	.01055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**247.64**	**.23647**	**-.00067**	**5.1260**	**.47960**	F **-646.98**	**.47689**
Stddev	.48	.00049	.00020	.0323	.00163	24.95	.00333
%RSD	.19511	.20711	30.453	.62906	.33909	3.8569	.69806
#1	247.95	.23643	-.00084	5.1211	.48069	-622.40	.47601
#2	247.89	.23698	-.00045	5.1604	.48038	-672.29	.48057
#3	247.09	.23601	-.00073	5.0964	.47773	-646.25	.47409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.50000	
Low Limit						-.50000	

Approved: March 01, 2011

Sample Name: ICSAB Acquired: 2/25/2011 10:17:45 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.056**	F **232.50**	F **35.768**	**.50289**	**.24289**	**.98006**	**.00037**
Stddev	7.225	.28	3.240	.00166	.00321	.27989	.00022
%RSD	71.849	.11922	9.0572	.33007	1.3230	28.559	58.723
#1	17.620	232.31	33.757	.50107	.24625	.96231	.00019
#2	9.3214	232.82	39.506	.50433	.24257	.70946	.00061
#3	3.2260	232.37	34.043	.50326	.23985	1.2684	.00030
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.60000	.60000	.60000				
Low Limit	.40000	.40000	.40000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**-.01109**	**.45304**	**.23662**	**.47182**	F **-2.6139**
Stddev	.00009	.00037	.00423	.00060	.00097	.1828
%RSD	28.659	3.2906	.93344	.25517	.20654	6.9947
#1	-.00040	-.01125	.45052	.23675	.47192	-2.5898
#2	-.00022	-.01135	.45792	.23714	.47274	-2.8075
#3	-.00033	-.01067	.45067	.23596	.47080	-2.4443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85452.**	**53873.**
Stddev	303.	211.
%RSD	.35400	.39120
#1	85216.	53805.
#2	85347.	53705.
#3	85793.	54109.

Approved: March 01, 2011

Sample Name: L1102057103S Acquired: 2/25/2011 10:21:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1274) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment: WG357371-07

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00168**	**2.1888**	**.00310**	**.00545**	**.00546**	**.00003**	**.05062**
Stddev	.00062	.0267	.00145	.00117	.00014	.00001	.01415
%RSD	36.979	1.2219	46.698	21.506	2.5121	54.350	27.964
#1	.00175	2.1628	.00163	.00611	.00548	.00004	.06085
#2	.00103	2.1874	.00314	.00613	.00531	.00001	.03446
#3	.00227	2.2162	.00452	.00409	.00558	.00003	.05653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00123**	**.00452**	**.00246**	**4.3474**	**.22444**	**-.00265**
Stddev	.00002	.00021	.00023	.00006	.0106	.04775	.00172
%RSD	37.489	16.872	5.1170	2.4396	.24350	21.275	64.842
#1	.00005	.00135	.00426	.00249	4.3481	.26962	-.00286
#2	.00009	.00134	.00460	.00249	4.3365	.22923	-.00084
#3	.00005	.00099	.00469	.00239	4.3577	.17448	-.00426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05439**	**.04401**	**.00184**	**.13160**	**.00138**	**192.79**	**.00018**
Stddev	.01393	.00111	.00031	.00796	.00057	9.79	.00092
%RSD	25.617	2.5172	16.996	6.0486	41.081	5.0777	511.94
#1	.04553	.04361	.00220	.12980	.00135	182.55	-.00084
#2	.07045	.04526	.00168	.12470	.00083	193.76	.00095
#3	.04719	.04315	.00163	.14031	.00196	202.06	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057103S Acquired: 2/25/2011 10:21:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1274) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment: WG357371-07

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6446**	**.81270**	F **-61.050**	**.00333**	**-.00055**	**2.2659**	**.00146**
Stddev	2.8189	.06100	6.098	.00180	.00387	.0652	.00050
%RSD	171.41	7.5054	9.9885	54.238	704.32	2.8768	34.367
#1	4.2588	.86150	-58.716	.00422	-.00457	2.2506	.00197
#2	-1.3420	.83227	-67.970	.00450	-.00022	2.2097	.00146
#3	2.0170	.74432	-56.464	.00125	.00314	2.3373	.00096
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000				
Low Limit			-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00253**	**.03154**	**.00427**	**.01096**	**.00708**	**.30735**
Stddev	.00006	.00089	.00067	.00015	.00018	.24464
%RSD	2.4097	2.8264	15.644	1.3801	2.5792	79.596
#1	.00249	.03052	.00351	.01094	.00687	.04270
#2	.00251	.03220	.00477	.01082	.00717	.35412
#3	.00260	.03189	.00452	.01112	.00720	.52522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93672.**	**54280.**
Stddev	1427.	417.
%RSD	1.5239	.76876
#1	92257.	54719.
#2	93649.	54233.
#3	95111.	53889.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 10:35:31 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41005**	**10.358**	**.40408**	**.50399**	**1.0039**	**.05102**	**9.9961**
Stddev	.00510	.135	.00145	.00758	.0031	.00065	.0123
%RSD	1.2434	1.3006	.35918	1.5037	.30374	1.2685	.12300
#1	.40720	10.301	.40443	.50067	1.0067	.05078	10.007
#2	.41593	10.512	.40248	.51266	1.0043	.05175	9.9979
#3	.40701	10.261	.40532	.49863	1.0007	.05052	9.9830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05137**	**.20559**	**.50807**	**.50340**	**3.9720**	**50.659**	**1.0054**
Stddev	.00012	.00085	.00649	.00150	.0157	.072	.0047
%RSD	.22852	.41432	1.2777	.29755	.39436	.14291	.46450
#1	.05149	.20657	.50378	.50494	3.9871	50.730	1.0085
#2	.05126	.20513	.51554	.50330	3.9558	50.662	1.0076
#3	.05135	.20507	.50489	.50195	3.9732	50.585	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.052**	**.48814**	**1.0038**	**50.424**	**.50388**	F **5.9732**	**.50888**
Stddev	.080	.00138	.0018	.089	.00158	9.8660	.00078
%RSD	.79427	.28204	.18155	.17597	.31279	165.17	.15231
#1	10.049	.48961	1.0056	50.482	.50569	17.057	.50827
#2	10.134	.48792	1.0037	50.469	.50309	2.7126	.50862
#3	9.9741	.48688	1.0020	50.322	.50285	-1.8498	.50975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 10:35:31 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **5.6679**	**10.109**	F **22.176**	**1.2167**	**.40332**	F **4.2229**	**1.0195**
Stddev	9.6235	.053	1.048	.0040	.00634	.1219	.0031
%RSD	169.79	.52825	4.7260	.32710	1.5721	2.8857	.30381
#1	12.580	10.151	21.131	1.2195	.40745	4.1858	1.0226
#2	9.7476	10.049	22.169	1.2184	.39602	4.3590	1.0197
#3	-5.3234	10.128	23.227	1.2121	.40649	4.1240	1.0164
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98844**	**.99982**	**.51881**	**.99813**	**.99111**	F **.41499**
Stddev	.00295	.00203	.00042	.01275	.00266	.44144
%RSD	.29825	.20317	.08094	1.2776	.26820	106.37
#1	.99172	1.0021	.51857	.99234	.99403	-.09386
#2	.98756	.99908	.51856	1.0128	.99044	.69546
#3	.98603	.99826	.51929	.98930	.98884	.64338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88673.**	**52804.**
Stddev	687.	602.
%RSD	.77522	1.1392
#1	87923.	53368.
#2	88825.	52171.
#3	89272.	52872.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 10:39:07 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00865**	**-.00025**	**.00186**	**.00030**	**-.00002**	**-.00374**
Stddev	.00092	.00378	.00163	.00063	.00015	.00001	.00704
%RSD	629.70	43.772	662.00	33.769	50.762	91.044	188.32
#1	.00114	.00461	.00046	.00208	.00017	-.00003	.00034
#2	-.00003	.00921	-.00210	.00236	.00027	.00000	.00031
#3	-.00067	.01212	.00091	.00116	.00047	-.00002	-.01187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00007**	**.00017**	**.00006**	**-.00408**	**.05299**	**.00047**
Stddev	.00005	.00008	.00054	.00026	.00530	.01266	.00319
%RSD	102.94	115.73	323.80	440.27	129.99	23.899	672.41
#1	-.00008	-.00013	-.00032	-.00024	-.00374	.05178	.00332
#2	-.00006	-.00009	.00007	.00023	-.00954	.04097	.00108
#3	.00001	.00002	.00075	.00018	.00104	.06621	-.00298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01345**	**.00113**	**.00073**	**.01779**	**-.00052**	F **3.7368**	**-.00178**
Stddev	.00985	.00034	.00017	.00237	.00036	11.454	.00105
%RSD	73.244	30.043	22.598	13.298	69.911	306.53	58.969
#1	-.00208	.00103	.00090	.01839	-.00038	10.750	-.00250
#2	-.01907	.00085	.00056	.01518	-.00025	-9.4813	-.00226
#3	-.01921	.00151	.00074	.01979	-.00093	9.9420	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 10:39:07 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.93631**	F **-.02096**	F **5.9020**	**.00313**	**-.00128**	**-.01440**	**.00044**
Stddev	5.1768	.02478	1.1871	.00154	.00242	.03758	.00032
%RSD	552.89	118.19	20.114	49.075	189.20	260.99	72.633
#1	-1.7906	-.03803	4.6766	.00460	-.00359	-.05485	.00059
#2	-5.6328	.00746	5.9827	.00153	.00124	-.00775	.00007
#3	4.6145	-.03232	7.0467	.00326	-.00149	.01941	.00065
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00006**	**-.00069**	**-.00020**	**-.00010**	**-.04328**
Stddev	.00004	.00125	.00072	.00022	.00009	.30035
%RSD	53.118	2186.1	104.23	109.03	95.011	693.95
#1	.00010	.00069	-.00126	-.00013	-.00014	.25286
#2	.00010	-.00139	-.00091	-.00044	.00001	-.03504
#3	.00003	.00087	.00011	-.00003	-.00016	-.34767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90180.**	**52390.**
Stddev	233.	761.
%RSD	.25807	1.4517
#1	90449.	53202.
#2	90043.	52275.
#3	90048.	51694.

Approved: March 01, 2011

Sample Name: L1102057103S Acquired: 2/25/2011 10:42:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment: WG357371-07

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00194**	**2.2072**	**.00302**	**.00628**	**.00518**	**.00002**	**.04036**
Stddev	.00073	.0604	.00080	.00097	.00020	.00002	.00878
%RSD	37.516	2.7373	26.528	15.434	3.7806	90.430	21.745
#1	.00116	2.1575	.00346	.00518	.00499	.00001	.03890
#2	.00261	2.1896	.00209	.00665	.00518	.00001	.03241
#3	.00206	2.2744	.00350	.00701	.00538	.00004	.04978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00129**	**.00453**	**.00187**	**4.4212**	**.13763**	**-.00187**
Stddev	.00008	.00008	.00054	.00031	.0192	.02270	.00074
%RSD	123.41	6.0746	11.884	16.516	.43360	16.496	39.711
#1	-.00007	.00122	.00404	.00174	4.4325	.13408	-.00165
#2	.00002	.00137	.00445	.00223	4.3991	.16190	-.00126
#3	-.00014	.00128	.00511	.00165	4.4321	.11691	-.00269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06951**	**.04642**	**.00189**	**.14784**	**.00154**	**207.03**	**.00068**
Stddev	.01664	.00042	.00027	.01434	.00059	3.57	.00115
%RSD	23.934	.89694	14.075	9.6993	37.947	1.7240	169.44
#1	.05105	.04660	.00161	.16228	.00160	211.05	-.00019
#2	.07412	.04671	.00191	.13360	.00093	205.83	.00024
#3	.08335	.04594	.00214	.14765	.00210	204.22	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057103S Acquired: 2/25/2011 10:42:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment: WG357371-07

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.4273**	**.82038**	F **-59.937**	**.00332**	**.00037**	**2.2948**	**.00128**
Stddev	7.2033	.08091	4.110	.00135	.00160	.0530	.00016
%RSD	132.72	9.8628	6.8570	40.776	430.13	2.3109	12.754
#1	1.9011	.90913	-62.540	.00230	.00222	2.2852	.00146
#2	.66639	.80128	-62.072	.00281	-.00068	2.2472	.00115
#3	13.714	.75073	-55.199	.00486	-.00042	2.3519	.00124
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000				
Low Limit			-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00267**	**.03233**	**.00371**	**.01126**	**.00742**	**.37908**
Stddev	.00004	.00074	.00130	.00029	.00004	.39087
%RSD	1.4816	2.2883	35.084	2.5632	.53295	103.11
#1	.00263	.03227	.00335	.01106	.00738	.82994
#2	.00271	.03162	.00262	.01160	.00743	.13556
#3	.00267	.03310	.00515	.01113	.00746	.17175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**95079.**	**55228.**
Stddev	202.	778.
%RSD	.21283	1.4084
#1	95176.	55890.
#2	94847.	55423.
#3	95215.	54371.

Approved: March 01, 2011

Sample Name: L1102057104S Acquired: 2/25/2011 10:46:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment: WG357371-08

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**2.3813**	**.00301**	**.00581**	**.00508**	**.00005**	**.03642**
Stddev	.00067	.0536	.00093	.00041	.00037	.00002	.01899
%RSD	34.885	2.2499	30.976	7.0557	7.2184	51.492	52.140
#1	.00267	2.3201	.00220	.00579	.00482	.00004	.05579
#2	.00140	2.4195	.00281	.00623	.00492	.00007	.01783
#3	.00167	2.4043	.00403	.00541	.00550	.00003	.03564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00122**	**.00425**	**.00258**	**4.2483**	**.19444**	**.00092**
Stddev	.00010	.00015	.00010	.00058	.0199	.04892	.00043
%RSD	113.67	12.027	2.3523	22.395	.46731	25.162	46.799
#1	-.00001	.00113	.00427	.00196	4.2277	.16522	.00132
#2	-.00020	.00114	.00433	.00309	4.2673	.16717	.00046
#3	-.00006	.00139	.00414	.00269	4.2500	.25092	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06053**	**.02306**	**.00168**	**.12239**	**.00101**	**189.86**	**-.00089**
Stddev	.03950	.00016	.00009	.00607	.00021	12.13	.00140
%RSD	65.250	.69445	5.0769	4.9594	21.132	6.3896	157.15
#1	.04201	.02318	.00174	.12932	.00086	186.07	-.00073
#2	.10589	.02314	.00171	.11805	.00090	180.08	-.00237
#3	.03370	.02288	.00158	.11979	.00125	203.44	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057104S Acquired: 2/25/2011 10:46:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment: WG357371-08

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **13.725**	**.65160**	F **-46.392**	**.00227**	**-.00069**	**2.0082**	**.00122**
Stddev	7.037	.05561	2.159	.00081	.00276	.0938	.00039
%RSD	51.270	8.5343	4.6547	35.622	401.94	4.6699	32.151
#1	19.637	.71423	-44.735	.00172	-.00317	1.9049	.00089
#2	5.9417	.63253	-48.834	.00189	.00229	2.0881	.00165
#3	15.596	.60803	-45.607	.00319	-.00118	2.0314	.00113
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00243**	**.03342**	**.00322**	**.01078**	**.00675**	**.44098**
Stddev	.00009	.00086	.00075	.00043	.00005	.13458
%RSD	3.8661	2.5820	23.414	4.0153	.80432	30.518
#1	.00248	.03367	.00276	.01030	.00674	.59150
#2	.00249	.03246	.00409	.01090	.00681	.39922
#3	.00232	.03413	.00281	.01114	.00671	.33224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93082.**	**55168.**
Stddev	438.	1440.
%RSD	.47077	2.6099
#1	92600.	56824.
#2	93188.	54217.
#3	93457.	54462.

Approved: March 01, 2011

Sample Name: L1102057106 Acquired: 2/25/2011 10:50:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment: WG357371-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**2.3898**	**.00324**	**.00176**	**.00308**	**-.00006**	**.01575**
Stddev	.00012	.0379	.00025	.00079	.00034	.00002	.00607
%RSD	65.870	1.5855	7.8524	45.038	11.187	30.038	38.534
#1	.00014	2.4148	.00311	.00085	.00321	-.00006	.02188
#2	.00009	2.3462	.00309	.00209	.00269	-.00008	.00974
#3	.00031	2.4083	.00354	.00233	.00335	-.00004	.01563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00134**	**.00339**	**.00064**	**4.4551**	**.04783**	**-.00440**
Stddev	.00006	.00036	.00021	.00055	.0151	.01968	.00137
%RSD	29.953	26.969	6.1115	85.084	.33951	41.142	31.178
#1	-.00015	.00095	.00321	.00077	4.4711	.06952	-.00287
#2	-.00022	.00166	.00334	.00004	4.4533	.04287	-.00479
#3	-.00027	.00142	.00362	.00111	4.4410	.03111	-.00553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04588**	**.08632**	**.00005**	**-.00078**	**-.00025**	**207.28**	**-.00148**
Stddev	.02690	.00081	.00005	.00415	.00030	23.12	.00130
%RSD	58.645	.93710	93.963	530.76	119.37	11.152	88.158
#1	.05911	.08544	.00011	-.00439	.00008	181.47	-.00065
#2	.01492	.08703	.00001	-.00170	-.00049	214.29	-.00298
#3	.06360	.08649	.00005	.00375	-.00035	226.08	-.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057106 Acquired: 2/25/2011 10:50:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment: WG357371-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.460**	**.74473**	F **-55.516**	**.00091**	**-.00204**	**.49042**	**.00000**
Stddev	7.765	.04011	5.603	.00194	.00152	.12811	.0002
%RSD	67.755	5.3861	10.093	212.35	74.385	26.122	4052.2
#1	10.010	.77824	-61.836	.00309	-.00118	.59703	-.00018
#2	4.5224	.70028	-51.155	-.00065	-.00380	.52592	.00004
#3	19.847	.75566	-53.558	.00031	-.00115	.34830	.00013
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.01363**	**.00169**	**.00857**	**.00451**	**.30453**
Stddev	.00007	.00119	.00042	.00063	.00004	.06041
%RSD	27.861	8.7184	24.837	7.3648	.94692	19.837
#1	.00034	.01247	.00181	.00913	.00449	.37409
#2	.00024	.01358	.00204	.00789	.00456	.26520
#3	.00020	.01485	.00123	.00870	.00449	.27431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91806.**	**53665.**
Stddev	372.	857.
%RSD	.40485	1.5975
#1	92088.	52877.
#2	91385.	54578.
#3	91946.	53540.

Approved: March 01, 2011

Sample Name: L1102057105 Acquired: 2/25/2011 10:54:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**2.3955**	**.00374**	**.00100**	**.00298**	**-.00005**	**.02075**
Stddev	.00039	.0587	.00245	.00094	.00023	.00000	.01740
%RSD	34.876	2.4522	65.367	94.649	7.7066	3.8145	83.856
#1	.00106	2.3282	.00236	.00181	.00289	-.00005	.03770
#2	.00078	2.4362	.00230	.00121	.00324	-.00005	.02160
#3	.00156	2.4221	.00657	-.00004	.00281	-.00005	.00294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00040**	**.00317**	**.00081**	**4.5676**	**.04398**	**-.00156**
Stddev	.00005	.00018	.00041	.00029	.0112	.06698	.00013
%RSD	24.695	45.677	12.977	36.099	.24592	152.29	8.0742
#1	-.00020	.00061	.00272	.00084	4.5806	.05776	-.00157
#2	-.00023	.00025	.00353	.00050	4.5614	-.02881	-.00143
#3	-.00014	.00035	.00327	.00108	4.5608	.10300	-.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03992**	**.02345**	**-.00021**	**.00362**	**-.00053**	**195.52**	**-.00110**
Stddev	.00137	.00057	.00007	.01341	.00063	9.27	.00107
%RSD	3.4420	2.4386	31.468	370.31	120.50	4.7426	97.247
#1	.03926	.02380	-.00024	-.01151	-.00109	205.83	-.00231
#2	.04150	.02279	-.00013	.00834	-.00065	192.85	-.00065
#3	.03900	.02376	-.00026	.01403	.00016	187.87	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057105 Acquired: 2/25/2011 10:54:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.4915**	**.80685**	F **-63.025**	**.00107**	**-.00080**	**.17161**	**-.00017**
Stddev	.6413	.06177	9.566	.00169	.00334	.01314	.00017
%RSD	7.5526	7.6561	15.177	157.71	419.84	7.6573	100.64
#1	7.7716	.84075	-71.832	.00198	.00267	.16462	-.00035
#2	9.0017	.84425	-64.394	-.00088	-.00106	.18677	-.00016
#3	8.7012	.73555	-52.848	.00212	-.00400	.16344	-.00001
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000				
Low Limit			-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.01078**	**.00157**	**.00825**	**.00478**	**.58942**
Stddev	.00007	.00084	.00005	.00030	.00012	.14671
%RSD	27.692	7.8149	3.2201	3.6654	2.6031	24.890
#1	.00027	.01019	.00163	.00790	.00478	.72952
#2	.00018	.01174	.00154	.00844	.00491	.43689
#3	.00032	.01041	.00155	.00841	.00466	.60186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93212.**	**53670.**
Stddev	375.	177.
%RSD	.40249	.33031
#1	93613.	53869.
#2	93153.	53609.
#3	92869.	53530.

Approved: March 01, 2011

Sample Name: L1102057105PS Acquired: 2/25/2011 10:58:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment: WG357401-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22232**	**8.0507**	**.21451**	**1.1301**	**.50625**	**.02665**	**5.0797**
Stddev	.00088	.0389	.00288	.0086	.00204	.00014	.0061
%RSD	.39637	.48321	1.3446	.75906	.40370	.51193	.12034
#1	.22214	8.0678	.21304	1.1236	.50435	.02660	5.0742
#2	.22155	8.0062	.21266	1.1269	.50599	.02655	5.0863
#3	.22328	8.0781	.21783	1.1398	.50841	.02681	5.0786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02776**	**.10789**	**.26469**	**.26306**	**6.6722**	**25.776**	**.51313**
Stddev	.00017	.00098	.00167	.00147	.0372	.042	.00244
%RSD	.60793	.91009	.62968	.55717	.55709	.16421	.47569
#1	.02758	.10721	.26444	.26229	6.6522	25.769	.51031
#2	.02779	.10745	.26316	.26213	6.6493	25.738	.51449
#3	.02791	.10902	.26647	.26475	6.7151	25.822	.51459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.2284**	**.27062**	**.52118**	**26.186**	**.26424**	**239.82**	**.27000**
Stddev	.0200	.00128	.00312	.072	.00220	9.01	.00240
%RSD	.38337	.47288	.59797	.27502	.83375	3.7588	.89043
#1	5.2053	.27082	.52033	26.105	.26196	242.36	.26756
#2	5.2416	.26925	.51857	26.211	.26439	229.81	.27006
#3	5.2382	.27179	.52463	26.242	.26636	247.29	.27237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057105PS Acquired: 2/25/2011 10:58:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment: WG357401-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.811**	**6.7884**	F **-90.881**	**.64039**	**.22839**	F **317.13**	**.00190**
Stddev	7.772	.0193	2.621	.00554	.00309	2.55	.00012
%RSD	52.477	.28509	2.8839	.86551	1.3550	.80375	6.3019
#1	14.386	6.7740	-92.717	.63841	.22494	315.06	.00177
#2	22.787	6.7808	-87.880	.63610	.22931	316.34	.00199
#3	7.2595	6.8104	-92.048	.64665	.23092	319.97	.00195
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000		9.0000			90.000	
Low Limit	-.00400		-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49562**	**.50912**	**.28120**	**.52794**	**.53192**	**2.4736**
Stddev	.00201	.00130	.00055	.00442	.00368	.3382
%RSD	.40602	.25439	.19584	.83786	.69215	13.674
#1	.49398	.50785	.28082	.52423	.53000	2.1521
#2	.49503	.51044	.28183	.52676	.52959	2.8264
#3	.49787	.50908	.28096	.53283	.53616	2.4425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90419.**	**52716.**
Stddev	235.	64.
%RSD	.25993	.12120
#1	90508.	52657.
#2	90597.	52784.
#3	90153.	52709.

Approved: March 01, 2011

Sample Name: L1102057105SDL Acquired: 2/25/2011 11:01:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 1000 Custom ID2: Custom ID3:
Comment: WG357401-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**.50189**	**.00152**	**.00240**	**.00051**	**-.00008**	**.00732**
Stddev	.00005	.01448	.00093	.00063	.00032	.00003	.00785
%RSD	4.6678	2.8853	61.081	26.286	62.988	37.880	107.22
#1	.00095	.50151	.00165	.00191	.00065	-.00010	.00582
#2	.00104	.51656	.00053	.00218	.00072	-.00010	.00033
#3	.00101	.48760	.00237	.00311	.00014	-.00005	.01581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00031**	**.00054**	**.00043**	**.81618**	**-.00346**	**-.00074**
Stddev	.00006	.00010	.00051	.00037	.02813	.04066	.00061
%RSD	37.730	33.102	95.399	86.181	3.4468	1176.8	82.147
#1	-.00024	.00021	.00105	.00071	.84715	.03019	-.00034
#2	-.00014	.00032	.00054	.00001	.80921	.00808	-.00044
#3	-.00013	.00041	.00002	.00059	.79219	-.04864	-.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00818**	**.00556**	**.00078**	**.01106**	**-.00087**	**19.221**	**-.00078**
Stddev	.01642	.00099	.00023	.00737	.00022	5.282	.00136
%RSD	200.64	17.822	28.900	66.603	24.990	27.481	175.66
#1	.00692	.00495	.00085	.01085	-.00104	23.792	-.00225
#2	-.00757	.00502	.00097	.01853	-.00096	13.438	-.00050
#3	.02520	.00670	.00053	.00380	-.00062	20.432	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057105SDL Acquired: 2/25/2011 11:01:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 1000 Custom ID2: Custom ID3:
Comment: WG357401-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.547**	F **-.02385**	F **-.96708**	**.00002**	**.00045**	**-.69445**	**-.00018**
Stddev	5.809	.01942	4.0743	.00330	.00142	.08641	.00013
%RSD	39.937	81.412	421.30	18512.	317.43	12.442	71.013
#1	8.3410	-.00656	-5.6705	.00170	-.00115	-.79242	-.00012
#2	15.443	-.02014	1.2923	-.00379	.00092	-.66185	-.00009
#3	19.856	-.04486	1.4770	.00214	.00157	-.62909	-.00033
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00211**	**.00129**	**.00147**	**.00161**	F **-.33715**
Stddev	.00014	.00024	.00072	.00019	.00006	.46673
%RSD	191.44	11.562	56.320	13.123	3.7344	138.43
#1	.00019	.00239	.00190	.00168	.00162	-.53823
#2	.00012	.00198	.00148	.00139	.00154	.19641
#3	-.00009	.00196	.00049	.00132	.00166	-.66964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93766.**	**53210.**
Stddev	1188.	892.
%RSD	1.2670	1.6768
#1	92396.	53087.
#2	94396.	52385.
#3	94506.	54157.

Approved: March 01, 2011

Sample Name: L1102057105SDL Acquired: 2/25/2011 11:05:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5000 Custom ID2: Custom ID3:
Comment: WG357401-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.10398**	**.00236**	**.00109**	**-.00008**	**-.00005**	**-.00684**
Stddev	.00073	.00529	.00018	.00015	.00039	.00002	.01085
%RSD	181.96	5.0899	7.7805	13.892	506.31	37.207	158.54
#1	.00074	.10586	.00215	.00092	-.00033	-.00004	-.01709
#2	-.00044	.09800	.00250	.00114	.00037	-.00003	.00452
#3	.00091	.10807	.00243	.00121	-.00027	-.00006	-.00795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00019**	**-.00007**	**.00001**	**.06559**	**.03989**	**-.00313**
Stddev	.00004	.00020	.00053	.00044	.01777	.05386	.00223
%RSD	24.955	103.55	802.61	5387.0	27.091	135.03	71.247
#1	-.00022	.00001	-.00055	-.00042	.08196	.02543	-.00419
#2	-.00013	.00016	-.00013	.00000	.06811	.09951	-.00464
#3	-.00019	.00041	.00049	.00045	.04669	-.00527	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01060**	**.00137**	**-.00010**	**.02391**	**-.00112**	**19.116**	**-.00182**
Stddev	.02284	.00041	.00018	.00881	.00016	.614	.00100
%RSD	215.51	29.781	170.01	36.867	14.340	3.2107	54.995
#1	.00506	.00164	-.00031	.03136	-.00112	19.780	-.00254
#2	.03569	.00158	.00003	.02619	-.00096	19.001	-.00068
#3	-.00896	.00090	-.00004	.01418	-.00128	18.569	-.00225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057105SDL Acquired: 2/25/2011 11:05:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5000 Custom ID2: Custom ID3:
Comment: WG357401-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.1000**	**.00519**	**3.3283**	**.00105**	**-.00226**	**-.95198**	**-.00046**
Stddev	3.6384	.04201	2.1087	.00136	.00134	.13260	.00040
%RSD	71.342	809.09	63.356	129.85	59.394	13.929	87.301
#1	2.0581	.04403	4.5861	-.00005	-.00380	-1.1009	-.00090
#2	9.1306	-.03941	4.5049	.00063	-.00140	-.90839	-.00012
#3	4.1112	.01096	.89385	.00257	-.00157	-.84665	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00046**	**.00153**	**-.00001**	**.00127**	F **-.25527**
Stddev	.00013	.00086	.00093	.00036	.00007	.04402
%RSD	323.38	188.20	60.686	2840.2	5.5398	17.244
#1	.00001	.00088	.00065	.00039	.00119	-.20469
#2	-.00007	.00101	.00143	-.00031	.00131	-.27622
#3	.00018	-.00053	.00250	-.00012	.00132	-.28490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93456.**	**53964.**
Stddev	301.	641.
%RSD	.32162	1.1873
#1	93795.	53894.
#2	93223.	54637.
#3	93350.	53361.

Approved: March 01, 2011

Sample Name: L1102057107 Acquired: 2/25/2011 11:09:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**2.3552**	**.00311**	**.00202**	**.00535**	**-.00006**	**.15415**
Stddev	.00060	.0573	.00159	.00044	.00003	.00001	.01796
%RSD	185.80	2.4324	50.958	21.582	.62051	9.0501	11.654
#1	.00062	2.2978	.00451	.00176	.00539	-.00006	.15857
#2	-.00037	2.3555	.00139	.00179	.00535	-.00006	.16949
#3	.00072	2.4124	.00344	.00253	.00532	-.00007	.13439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00082**	**.00448**	**.00160**	**3.6613**	**.10291**	**-.00361**
Stddev	.00010	.00019	.00034	.00027	.0125	.03491	.00069
%RSD	44.480	23.528	7.6952	16.771	.34225	33.924	19.025
#1	.00022	.00081	.00465	.00180	3.6631	.06772	-.00306
#2	.00034	.00063	.00471	.00129	3.6727	.13753	-.00438
#3	.00013	.00102	.00408	.00170	3.6479	.10347	-.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12136**	**.04656**	**-.00017**	**.02623**	**-.00033**	F **1670.1**	**.00111**
Stddev	.01738	.00046	.00007	.00655	.00043	23.1	.00043
%RSD	14.320	.98631	44.390	24.986	127.81	1.3817	38.879
#1	.12343	.04709	-.00024	.01871	.00011	1691.4	.00129
#2	.10303	.04634	-.00018	.02923	-.00037	1673.3	.00143
#3	.13761	.04625	-.00009	.03075	-.00075	1645.6	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102057107 Acquired: 2/25/2011 11:09:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0244**	**.24306**	F **-3.5400**	**.00106**	**-.00150**	**.06241**	**-.00009**
Stddev	9.6690	.01698	3.7980	.00125	.00194	.15336	.00035
%RSD	943.89	6.9843	107.29	118.06	128.79	245.74	406.44
#1	11.902	.25074	-2.5992	.00195	-.00032	-.01941	-.00028
#2	-2.2367	.22360	-7.7200	-.00037	-.00374	.23932	.00032
#3	-6.5925	.25483	-.30081	.00159	-.00045	-.03269	-.00029
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000				
Low Limit			-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00185**	**.01778**	**.00218**	**.00666**	**.01104**	**.15685**
Stddev	.00009	.00140	.00111	.00052	.00014	.23523
%RSD	4.9396	7.8896	50.659	7.7560	1.2781	149.97
#1	.00179	.01683	.00281	.00613	.01088	.42847
#2	.00196	.01712	.00284	.00670	.01111	.01965
#3	.00182	.01939	.00091	.00716	.01114	.02244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91914.**	**53488.**
Stddev	321.	964.
%RSD	.34888	1.8014
#1	92244.	54498.
#2	91894.	53387.
#3	91603.	52578.

Approved: March 01, 2011

Sample Name: L1102057108 Acquired: 2/25/2011 11:13:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**1.7575**	**.00224**	**.00144**	**.00483**	**-.00008**	**.05870**
Stddev	.00032	.0333	.00130	.00084	.00014	.00003	.01053
%RSD	34.439	1.8977	58.176	58.493	2.9807	36.442	17.935
#1	.00061	1.7190	.00231	.00241	.00467	-.00005	.04952
#2	.00124	1.7773	.00350	.00088	.00487	-.00007	.07019
#3	.00091	1.7762	.00090	.00103	.00495	-.00011	.05639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00152**	**.00231**	**.00165**	**3.2066**	**.18523**	**-.00285**
Stddev	.00008	.00007	.00022	.00036	.0142	.04872	.00042
%RSD	64.691	4.8106	9.4308	22.030	.44211	26.300	14.880
#1	-.00011	.00148	.00240	.00199	3.1973	.24095	-.00246
#2	-.00006	.00148	.00246	.00127	3.1997	.16407	-.00330
#3	-.00022	.00161	.00206	.00167	3.2230	.15067	-.00279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16455**	**.05724**	**-.00024**	**.00859**	**.00013**	**424.19**	**-.00096**
Stddev	.01022	.00065	.00015	.00853	.00033	5.80	.00184
%RSD	6.2122	1.1315	62.780	99.243	266.96	1.3676	192.56
#1	.17055	.05660	-.00037	.01407	.00043	430.52	-.00245
#2	.15274	.05790	-.00007	-.00123	-.00023	419.13	-.00152
#3	.17034	.05722	-.00028	.01294	.00018	422.91	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057108 Acquired: 2/25/2011 11:13:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.4593**	**.12435**	F **-3.4547**	**.00182**	**-.00060**	**-.09245**	**-.00030**
Stddev	6.1209	.04895	3.6121	.00182	.00322	.10668	.00029
%RSD	176.94	39.366	104.56	100.25	533.70	115.40	95.989
#1	-3.6024	.14436	.39686	.00053	-.00037	-.05539	-.00037
#2	6.7364	.06856	-6.7667	.00390	-.00394	-.00924	-.00054
#3	7.2439	.16013	-3.9942	.00102	.00249	-.21272	.00002
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000				
Low Limit			-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.02352**	**.00227**	**.00643**	**.00509**	**.02960**
Stddev	.00008	.00210	.00042	.00029	.00008	.01265
%RSD	24.346	8.9316	18.309	4.5631	1.5144	42.739
#1	.00033	.02582	.00263	.00612	.00500	.03059
#2	.00041	.02301	.00237	.00648	.00513	.01648
#3	.00025	.02172	.00181	.00670	.00513	.04172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93220.**	**53374.**
Stddev	1144.	980.
%RSD	1.2275	1.8359
#1	91909.	54496.
#2	94014.	52937.
#3	93739.	52688.

Approved: March 01, 2011

Sample Name: L1102057109 Acquired: 2/25/2011 11:17:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00175**	**2.0891**	**.00308**	**.00184**	**.00440**	**-.00008**	**.07703**
Stddev	.00056	.0061	.00106	.00063	.00011	.00000	.00593
%RSD	32.202	.29109	34.523	34.363	2.4079	6.0441	7.7044
#1	.00222	2.0840	.00293	.00238	.00429	-.00008	.08256
#2	.00190	2.0958	.00421	.00200	.00442	-.00008	.07778
#3	.00112	2.0875	.00210	.00115	.00450	-.00007	.07076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00069**	**.00137**	**.00128**	**3.8462**	**.17540**	**-.00241**
Stddev	.00014	.00035	.00039	.00045	.0191	.08422	.00123
%RSD	155.46	50.013	28.534	35.345	.49538	48.015	51.155
#1	-.00020	.00091	.00099	.00170	3.8675	.12979	-.00304
#2	.00007	.00087	.00134	.00135	3.8306	.12382	-.00099
#3	-.00015	.00029	.00177	.00080	3.8406	.27258	-.00320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16004**	**.02121**	**-.00021**	**.00708**	**-.00001**	**224.28**	**-.00049**
Stddev	.01943	.00094	.00018	.00680	.00007	10.56	.00049
%RSD	12.143	4.4194	85.862	96.019	1093.9	4.7067	100.08
#1	.14905	.02193	-.00030	.00394	.00002	212.77	-.00102
#2	.14859	.02154	-.00032	.00242	-.00009	226.56	-.00044
#3	.18248	.02015	.00000	.01488	.00005	233.51	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057109 Acquired: 2/25/2011 11:17:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.563**	**.15567**	F **-.94488**	**-.00018**	**-.00309**	**.05038**	**-.00028**
Stddev	5.681	.01759	1.1559	.00209	.00023	.16036	.00017
%RSD	49.130	11.297	122.33	1188.6	7.4629	318.32	60.381
#1	18.082	.15503	-.30207	-.00257	-.00283	.08366	-.00027
#2	7.6721	.13842	-2.2793	.00082	-.00327	.19149	-.00011
#3	8.9344	.17357	-.25327	.00122	-.00317	-.12401	-.00045
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.02625**	**.00296**	**.00709**	**.00533**	**.21402**
Stddev	.00012	.00228	.00068	.00013	.00020	.19806
%RSD	17.743	8.6708	23.032	1.8674	3.7965	92.544
#1	.00054	.02524	.00373	.00710	.00529	.02996
#2	.00077	.02465	.00242	.00696	.00556	.18849
#3	.00066	.02885	.00274	.00722	.00516	.42360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92264.**	**53586.**
Stddev	455.	145.
%RSD	.49283	.27114
#1	91766.	53717.
#2	92658.	53610.
#3	92368.	53430.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 11:20:54 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41479**	**10.530**	**.40712**	**.50919**	**.99914**	**.05112**	**9.9492**
Stddev	.01388	.297	.00056	.01707	.00271	.00167	.0123
%RSD	3.3472	2.8169	.13844	3.3525	.27165	3.2577	.12316
#1	.40271	10.287	.40649	.49544	1.0016	.04967	9.9551
#2	.41172	10.443	.40730	.50383	.99624	.05075	9.9351
#3	.42996	10.861	.40757	.52830	.99956	.05294	9.9573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05174**	**.20532**	**.50855**	**.50269**	**3.9845**	**50.424**	**.99902**
Stddev	.00011	.00040	.01552	.00166	.0322	.094	.00405
%RSD	.21637	.19637	3.0522	.33032	.80756	.18620	.40501
#1	.05161	.20537	.49535	.50141	3.9492	50.346	1.0018
#2	.05183	.20490	.50465	.50208	3.9921	50.398	.99437
#3	.05177	.20570	.52565	.50456	4.0121	50.529	1.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9858**	**.48142**	**1.0094**	**50.109**	**.50628**	F **17.229**	**.50675**
Stddev	.0698	.00183	.0019	.157	.00110	7.209	.00194
%RSD	.69878	.37924	.18945	.31315	.21735	41.844	.38319
#1	9.9811	.47952	1.0078	50.058	.50501	19.786	.50452
#2	9.9185	.48157	1.0088	49.983	.50688	9.0900	.50807
#3	10.058	.48316	1.0115	50.285	.50695	22.812	.50766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 11:20:54 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **15.554**	**9.9104**	F **19.880**	**1.2252**	**.40752**	F **4.0177**	**1.0140**
Stddev	6.980	.0532	2.187	.0035	.00180	.1202	.0011
%RSD	44.875	.53644	11.000	.28258	.44258	2.9923	.11107
#1	22.541	9.8852	17.978	1.2283	.40844	3.9808	1.0131
#2	15.539	9.8745	22.269	1.2215	.40544	3.9203	1.0136
#3	8.5814	9.9715	19.392	1.2259	.40867	4.1521	1.0153
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97955**	**.99171**	**.51982**	**1.0023**	**.97981**	F **.52276**
Stddev	.00220	.00567	.00271	.0329	.00369	.31198
%RSD	.22452	.57166	.52094	3.2787	.37622	59.679
#1	.98008	.99297	.51703	.97470	.97627	.50269
#2	.97713	.98551	.52000	.99360	.97954	.22130
#3	.98144	.99664	.52243	1.0387	.98362	.84429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91973.**	**54083.**
Stddev	72.	1231.
%RSD	.07874	2.2760
#1	91994.	55112.
#2	92032.	54417.
#3	91892.	52719.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 11:24:31 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**-.01050**	**.00076**	**.00138**	**-.00048**	**-.00001**	**.01459**
Stddev	.00064	.00417	.00062	.00052	.00013	.00001	.01933
%RSD	78.067	39.687	81.042	37.309	27.534	209.38	132.52
#1	.00011	-.01530	.00005	.00195	-.00058	.00000	.02520
#2	.00134	-.00782	.00115	.00126	-.00052	.00000	.02629
#3	.00100	-.00838	.00109	.00094	-.00033	-.00002	-.00773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00009**	**.00020**	**.00065**	**-.00157**	**.02515**	**-.00008**
Stddev	.0001	.00011	.00023	.00047	.00779	.01361	.00132
%RSD	2244.4	116.91	115.49	72.469	496.82	54.123	1583.1
#1	.00011	.00021	-.00006	.00118	-.00327	.04073	-.00003
#2	-.00010	.00000	.00029	.00028	-.00836	.01909	.00121
#3	-.00002	.00007	.00036	.00049	.00693	.01561	-.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02235**	**.00123**	**.00084**	**.01841**	**-.00006**	F **-3.2628**	**-.00184**
Stddev	.00909	.00114	.00011	.01165	.00034	7.2276	.00073
%RSD	40.669	92.396	13.131	63.310	544.79	221.52	39.661
#1	-.03163	.00215	.00072	.02905	-.00044	-11.069	-.00130
#2	-.01347	.00158	.00085	.00595	.00021	-1.9165	-.00155
#3	-.02194	-.00004	.00094	.02022	.00005	3.1971	-.00267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 11:24:31 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.072**	**.03276**	F **3.8395**	**.00438**	**.00076**	**-.01467**	**.00040**
Stddev	8.788	.03898	2.7102	.00094	.00152	.11306	.00055
%RSD	79.371	119.00	70.587	21.557	200.34	770.85	138.44
#1	15.503	.00081	6.6618	.00473	.00162	-.08329	-.00007
#2	16.762	.07619	3.5994	.00331	-.00100	-.07653	.00027
#3	.95058	.02126	1.2574	.00509	.00165	.11582	.00100
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00011**	**.00017**	**-.00008**	**-.00003**	**.02074**
Stddev	.00005	.00103	.00053	.00010	.00008	.19924
%RSD	210.71	941.99	315.11	120.11	237.35	960.46
#1	-.00004	-.00125	-.00030	-.00012	-.00010	.24840
#2	.00005	.00076	.00005	.00003	.00005	-.06437
#3	.00007	.00016	.00075	-.00015	-.00006	-.12180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92028.**	**55494.**
Stddev	173.	790.
%RSD	.18787	1.4233
#1	92034.	56388.
#2	92197.	55207.
#3	91852.	54889.

Approved: March 01, 2011

Sample Name: L1102057110 Acquired: 2/25/2011 11:28:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**2.1042**	**.00243**	**.00225**	**.00400**	**-.00006**	**.06162**
Stddev	.00068	.0212	.00246	.00064	.00026	.00001	.00974
%RSD	113.84	1.0079	101.33	28.328	6.6312	18.408	15.813
#1	.00098	2.0943	.00089	.00281	.00383	-.00006	.06252
#2	-.00019	2.0897	.00527	.00240	.00385	-.00005	.07088
#3	.00099	2.1285	.00113	.00156	.00430	-.00007	.05146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00089**	**.00124**	**.00066**	**3.8074**	**.17644**	**-.00116**
Stddev	.00012	.00009	.00033	.00047	.0196	.02040	.00111
%RSD	307.61	10.076	26.451	71.869	.51525	11.561	96.418
#1	.00006	.00096	.00090	.00042	3.8229	.16848	.00013
#2	-.00001	.00091	.00127	.00035	3.8141	.19961	-.00188
#3	-.00017	.00079	.00155	.00120	3.7854	.16122	-.00172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14077**	**.03237**	**-.00003**	**.02393**	**-.00025**	**269.65**	**.00017**
Stddev	.03500	.00101	.00017	.00653	.00070	14.37	.00021
%RSD	24.861	3.1157	628.98	27.279	284.20	5.3280	128.74
#1	.11110	.03131	-.00020	.01648	-.00037	282.86	.00035
#2	.13185	.03332	.00014	.02864	.00051	271.73	.00021
#3	.17937	.03248	-.00002	.02669	-.00088	254.35	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057110 Acquired: 2/25/2011 11:28:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.940**	**.07829**	F **-2.6283**	**.00226**	**-.00087**	**.16032**	**-.00026**
Stddev	6.550	.04089	3.4936	.00122	.00186	.02409	.00016
%RSD	50.615	52.222	132.93	54.101	213.09	15.028	61.972
#1	5.6795	.06725	-6.5048	.00168	.00126	.14595	-.00044
#2	14.738	.04406	.27676	.00144	-.00173	.14688	-.00012
#3	18.404	.12357	-1.6567	.00367	-.00215	.18814	-.00022
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.03339**	**.00220**	**.00715**	**.00582**	**.39773**
Stddev	.00004	.00081	.00156	.00043	.00013	.20158
%RSD	9.0655	2.4134	70.882	5.9639	2.2294	50.681
#1	.00041	.03414	.00161	.00667	.00570	.34326
#2	.00038	.03254	.00396	.00729	.00596	.22899
#3	.00045	.03349	.00102	.00748	.00581	.62095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**94111.**	**56467.**
Stddev	343.	629.
%RSD	.36423	1.1132
#1	94227.	56847.
#2	93725.	56812.
#3	94381.	55741.

Approved: March 01, 2011

Sample Name: L1102057111 Acquired: 2/25/2011 11:32:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**1.5420**	**.00284**	**.00470**	**.00702**	**-.00004**	**.06702**
Stddev	.00041	.0212	.00051	.00046	.00043	.00001	.01264
%RSD	34.675	1.3776	17.812	9.8009	6.0978	27.093	18.859
#1	.00151	1.5289	.00342	.00488	.00667	-.00005	.07404
#2	.00130	1.5305	.00247	.00418	.00689	-.00003	.07459
#3	.00072	1.5665	.00263	.00505	.00750	-.00005	.05243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00459**	**.00461**	**.00084**	**10.095**	**.02055**	**.00010**
Stddev	.00007	.00004	.00059	.00055	.021	.03449	.00054
%RSD	443.35	.93430	12.742	65.563	.20745	167.87	517.72
#1	.00007	.00458	.00415	.00116	10.080	.05017	.00069
#2	.00005	.00455	.00442	.00117	10.085	-.01732	.00000
#3	-.00007	.00464	.00528	.00021	10.119	.02879	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04332**	**.18657**	**-.00021**	**.00108**	**-.00082**	**459.98**	**-.00131**
Stddev	.00876	.00084	.00009	.01493	.00016	1.64	.00040
%RSD	20.223	.44927	43.488	1380.7	19.670	.35724	30.512	
#1	.05276	.18634	-.00015	-.00605	-.00065	459.17	-.00175
#2	.03545	.18587	-.00032	.01824	-.00085	461.87	-.00120
#3	.04175	.18750	-.00017	-.00895	-.00097	458.90	-.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057111 Acquired: 2/25/2011 11:32:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.183**	**.15969**	F **-5.9494**	**.00011**	**-.00173**	**1.5742**	**-.00030**
Stddev	14.278	.02825	2.4832	.00190	.00160	.0994	.00031
%RSD	61.586	17.691	41.739	1694.8	92.818	6.3152	105.70
#1	26.254	.14877	-7.5946	-.00139	-.00048	1.4673	-.00053
#2	35.676	.19177	-3.0930	-.00053	-.00116	1.5915	.00006
#3	7.6200	.13853	-7.1607	.00225	-.00353	1.6638	-.00042
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.02712**	**.00264**	**.00484**	**.00722**	F **-.14307**
Stddev	.00001	.00153	.00077	.00037	.00006	.27586
%RSD	4.1142	5.6363	29.119	7.6249	.87721	192.82
#1	.00034	.02779	.00175	.00525	.00715	-.12156
#2	.00031	.02820	.00314	.00456	.00726	-.42905
#3	.00032	.02537	.00302	.00470	.00725	.12141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93986.**	**56123.**
Stddev	211.	630.
%RSD	.22410	1.1224
#1	94138.	56718.
#2	94074.	56187.
#3	93746.	55463.

Approved: March 01, 2011

Sample Name: L1102057112 Acquired: 2/25/2011 11:35:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**2.9178**	**.00425**	**.00168**	**.00346**	**-.00002**	**.05494**
Stddev	.00030	.0535	.00063	.00092	.00033	.00003	.01057
%RSD	25.642	1.8321	14.906	54.941	9.6674	148.84	19.236
#1	.00139	2.8678	.00352	.00162	.00310	-.00001	.06548
#2	.00132	2.9114	.00466	.00262	.00351	.00000	.05501
#3	.00083	2.9742	.00457	.00078	.00377	-.00006	.04434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00053**	**.00308**	**.00103**	**5.0723**	**.01734**	**.00056**
Stddev	.00009	.00003	.00009	.00059	.0166	.03523	.00137
%RSD	173.93	6.3881	2.8595	57.528	.32707	203.15	242.78
#1	.00005	.00051	.00301	.00153	5.0862	-.02133	.00120
#2	.00015	.00057	.00305	.00119	5.0767	.04761	-.00101
#3	-.00004	.00051	.00318	.00037	5.0539	.02575	.00150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08488**	**.01741**	**-.00020**	**.00216**	**-.00016**	F **2361.5**	**.00019**
Stddev	.02257	.00105	.00015	.00369	.00043	7.8	.00048
%RSD	26.586	6.0193	72.355	170.57	262.31	.32890	254.49
#1	.06595	.01632	-.00030	.00269	.00026	2357.2	.00019
#2	.10985	.01749	-.00026	-.00176	-.00016	2356.9	-.00029
#3	.07883	.01841	-.00003	.00556	-.00059	2370.5	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102057112 Acquired: 2/25/2011 11:35:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **18.704**	**.09123**	**1.2386**	**-.00054**	**-.00132**	**.41755**	**-.00012**
Stddev	1.426	.01671	2.0143	.00161	.00268	.03883	.00022
%RSD	7.6216	18.314	162.62	295.86	202.45	9.3001	180.46
#1	19.913	.07990	-.00057	-.00121	-.00211	.42003	.00011
#2	17.132	.11042	3.5628	-.00171	.00166	.37753	-.00015
#3	19.067	.08337	.15361	.00129	-.00352	.45508	-.00032
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.01067**	**.00125**	**.00953**	**.00658**	**.81308**
Stddev	.00009	.00103	.00016	.00074	.00008	.29411
%RSD	80.186	9.6838	12.766	7.7835	1.1861	36.172
#1	.00022	.01120	.00131	.00868	.00649	1.0433
#2	.00008	.00948	.00137	.00988	.00665	.48174
#3	.00004	.01133	.00107	.01003	.00658	.91425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93378.**	**55359.**
Stddev	239.	969.
%RSD	.25621	1.7507
#1	93332.	56290.
#2	93637.	55432.
#3	93166.	54356.

Approved: March 01, 2011

Sample Name: L1102057113 Acquired: 2/25/2011 11:39:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**2.0812**	**.00340**	**.00168**	**.00490**	**-.00003**	**.02992**
Stddev	.00040	.0041	.00104	.00022	.00022	.00002	.00636
%RSD	50.305	.19736	30.520	13.329	4.5166	58.054	21.270
#1	.00041	2.0794	.00313	.00192	.00513	-.00004	.03416
#2	.00121	2.0784	.00253	.00148	.00487	-.00001	.02260
#3	.00079	2.0859	.00455	.00164	.00469	-.00003	.03299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00092**	**.00250**	**.00061**	**4.2522**	**-.02956**	**.00130**
Stddev	.00010	.00010	.00042	.00062	.0119	.00971	.00084
%RSD	37.144	10.490	16.888	102.91	.28026	32.855	64.143
#1	-.00033	.00095	.00299	.00122	4.2647	-.03096	.00092
#2	-.00032	.00101	.00224	-.00002	4.2509	-.03849	.00073
#3	-.00015	.00082	.00228	.00062	4.2410	-.01922	.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04503**	**.06964**	**-.00012**	**.01229**	**-.00091**	**269.41**	**-.00126**
Stddev	.01080	.00033	.00011	.00930	.00036	28.90	.00262
%RSD	23.987	.47240	96.308	75.629	39.408	10.725	208.21
#1	.05647	.06989	-.00003	.01392	-.00086	292.29	-.00428
#2	.03500	.06975	-.00007	.00229	-.00130	236.94	.00022
#3	.04363	.06926	-.00024	.02066	-.00058	279.01	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057113 Acquired: 2/25/2011 11:39:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 200 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **24.408**	**.80023**	F **-63.358**	**.00126**	**-.00237**	**.16216**	**.00016**
Stddev	2.244	.03088	3.425	.00274	.00089	.13495	.00015
%RSD	9.1943	3.8593	5.4058	218.45	37.571	83.223	89.634
#1	21.860	.80795	-66.237	-.00011	-.00271	.20934	.00003
#2	26.091	.82653	-59.570	-.00053	-.00136	.00995	.00032
#3	25.274	.76622	-64.267	.00441	-.00304	.26719	.00015
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00801**	**.00251**	**.00731**	**.00379**	**1.0651**
Stddev	.00008	.00104	.00044	.00018	.00013	.1599
%RSD	36.006	12.941	17.549	2.5315	3.3643	15.011
#1	.00018	.00921	.00217	.00750	.00365	1.2368
#2	.00032	.00748	.00234	.00728	.00386	1.0380
#3	.00019	.00735	.00301	.00713	.00388	.92049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93037.**	**56803.**
Stddev	247.	213.
%RSD	.26533	.37453
#1	93322.	56892.
#2	92892.	56958.
#3	92896.	56561.

Approved: March 01, 2011

Sample Name: L1102031801 Acquired: 2/25/2011 11:43:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**2.3860**	**.00385**	**.00932**	**.01616**	F **-.00050**	**77.662**
Stddev	.00052	.0406	.00059	.00044	.00039	.00003	.267
%RSD	24.599	1.6994	15.428	4.7707	2.4253	6.3648	.34410
#1	.00253	2.3392	.00429	.00881	.01571	-.00050	77.359
#2	.00154	2.4097	.00317	.00954	.01642	-.00047	77.863
#3	.00232	2.4092	.00408	.00961	.01634	-.00053	77.764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						4.5000	
Low Limit						-.00050	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00661**	**.01785**	**.01063**	**6.9768**	**.29725**	**.00156**
Stddev	.00012	.00019	.00054	.00065	.0247	.02649	.00099
%RSD	987.89	2.9044	3.0511	6.0781	.35428	8.9099	63.309
#1	-.00013	.00639	.01739	.01116	6.9584	.26694	.00060
#2	.00011	.00672	.01845	.00991	7.0049	.31591	.00258
#3	-.00001	.00672	.01770	.01082	6.9670	.30891	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.0760**	**.17955**	**-.00017**	**.49142**	**.02863**	F **3173.8**	**.00941**
Stddev	.0295	.00151	.00022	.00671	.00043	24.0	.00168
%RSD	.58091	.84202	134.58	1.3645	1.5134	.75662	17.877
#1	5.0419	.17786	.00008	.49831	.02837	3146.2	.01119
#2	5.0927	.18078	-.00036	.49104	.02840	3186.0	.00920
#3	5.0933	.18000	-.00021	.48491	.02913	3189.4	.00784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102031801 Acquired: 2/25/2011 11:43:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **20.398**	F **97.964**	F **-1074.7**	**.00027**	**-.00197**	**7.5029**	**.00007**
Stddev	4.458	.593	6.8	.00056	.00444	.2019	.00019
%RSD	21.857	.60506	.63639	211.05	225.37	2.6911	288.46
#1	25.000	97.310	-1068.0	.00010	-.00237	7.6054	-.00008
#2	20.097	98.116	-1074.6	.00090	-.00620	7.6329	.00028
#3	16.098	98.466	-1081.7	-.00019	.00266	7.2703	.00000
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.69528**	**.20550**	**.00311**	**.01568**	**.07252**	**2.7468**
Stddev	.00340	.00164	.00033	.00045	.00046	.1301
%RSD	.48888	.79588	10.700	2.8456	.63777	4.7381
#1	.69919	.20390	.00345	.01557	.07201	2.8108
#2	.69356	.20717	.00279	.01617	.07264	2.5971
#3	.69308	.20543	.00309	.01529	.07292	2.8326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92164.**	**55840.**
Stddev	367.	920.
%RSD	.39865	1.6477
#1	91996.	56862.
#2	91911.	55077.
#3	92586.	55581.

Approved: March 01, 2011

Sample Name: L1102031802 Acquired: 2/25/2011 11:47:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00239**	**2.6750**	**.00327**	**.01017**	**.01902**	**-.00048**	**76.892**
Stddev	.00111	.0143	.00045	.00046	.00009	.00001	.212
%RSD	46.256	.53585	13.849	4.5416	.46301	2.6296	.27527
#1	.00307	2.6802	.00375	.01060	.01905	-.00049	76.683
#2	.00111	2.6588	.00323	.01022	.01892	-.00047	76.886
#3	.00299	2.6860	.00285	.00968	.01909	-.00047	77.106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00778**	**.02008**	**.01022**	**7.6269**	**.45013**	**.00005**
Stddev	.00008	.00023	.00021	.00034	.0158	.05165	.00167
%RSD	341.49	2.9564	1.0480	3.3382	.20652	11.474	3454.1
#1	-.00006	.00756	.02001	.00990	7.6132	.39884	-.00049
#2	.00009	.00775	.01992	.01017	7.6441	.44943	.00192
#3	.00004	.00802	.02032	.01058	7.6235	.50213	-.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.6917**	**.21593**	**-.00016**	**.53209**	**.02519**	F **3042.4**	**.01124**
Stddev	.0363	.00188	.00020	.01376	.00077	47.5	.00131
%RSD	.77451	.86884	130.44	2.5867	3.0756	1.5610	11.659
#1	4.6500	.21381	-.00023	.52517	.02445	2997.0	.00994
#2	4.7085	.21739	-.00031	.54794	.02514	3038.5	.01256
#3	4.7166	.21658	.00007	.52316	.02599	3091.7	.01120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102031802 Acquired: 2/25/2011 11:47:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **13.481**	F **102.11**	F **-1194.2**	**.00042**	**-.00120**	**7.1278**	**.00027**
Stddev	5.403	1.67	22.5	.00129	.00081	.0298	.00046
%RSD	40.077	1.6388	1.8801	303.81	67.419	.41772	171.00
#1	18.397	100.63	-1180.1	.00133	-.00212	7.1621	.00010
#2	7.6965	101.76	-1182.4	-.00105	-.00066	7.1126	.00079
#3	14.349	103.93	-1220.1	.00100	-.00080	7.1087	-.00008
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.66889**	**.19482**	**.00202**	**.01867**	**.04380**	**3.7275**
Stddev	.00402	.00148	.00066	.00019	.00063	.3194
%RSD	.60118	.75791	32.902	1.0028	1.4424	8.5688
#1	.66445	.19317	.00243	.01846	.04322	3.4090
#2	.66993	.19529	.00125	.01882	.04370	3.7258
#3	.67228	.19601	.00238	.01873	.04448	4.0478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91145.**	**55143.**
Stddev	23.	367.
%RSD	.02561	.66567
#1	91140.	54753.
#2	91170.	55482.
#3	91124.	55194.

Approved: March 01, 2011

Sample Name: L1102031803 Acquired: 2/25/2011 11:50:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00265**	**3.4389**	**.00357**	**.01179**	**.02239**	F **-.00061**	**86.179**
Stddev	.00055	.0868	.00064	.00157	.00030	.00004	.463
%RSD	20.901	2.5248	17.818	13.305	1.3396	5.9413	.53708
#1	.00223	3.5336	.00403	.01342	.02269	-.00065	85.668
#2	.00328	3.4198	.00383	.01165	.02239	-.00061	86.296
#3	.00244	3.3631	.00284	.01029	.02209	-.00057	86.571
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						4.5000	
Low Limit						-.00050	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00967**	**.02629**	**.01573**	**9.9254**	**.50307**	**-.00128**
Stddev	.00005	.00027	.00090	.00030	.0407	.02296	.00102
%RSD	48.165	2.8188	3.4352	1.9362	.41029	4.5642	79.852
#1	.00014	.00937	.02733	.01558	9.8793	.50672	-.00089
#2	.00013	.00972	.02577	.01608	9.9408	.52399	-.00245
#3	.00005	.00991	.02576	.01553	9.9562	.47851	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.5597**	**.27238**	**-.00010**	**.57400**	**.03097**	F **3434.8**	**.01039**
Stddev	.0299	.00245	.00025	.00860	.00037	28.1	.00100
%RSD	.53707	.89981	254.72	1.4988	1.1807	.81869	9.5766
#1	5.5261	.26960	.00019	.57193	.03055	3402.3	.01144
#2	5.5698	.27422	-.00020	.58345	.03113	3451.0	.00945
#3	5.5831	.27333	-.00029	.56662	.03122	3451.0	.01028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102031803 Acquired: 2/25/2011 11:50:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.1068**	F **112.25**	F **-1324.3**	**.00017**	**-.00288**	**8.4261**	**.00050**
Stddev	4.5968	.99	7.5	.00210	.00217	.1606	.00053
%RSD	56.703	.88211	.56284	1233.8	75.393	1.9056	104.63
#1	7.6559	111.35	-1318.8	.00246	-.00102	8.3458	.00038
#2	3.7521	112.08	-1332.8	-.00164	-.00526	8.6110	.00108
#3	12.913	113.31	-1321.3	-.00031	-.00236	8.3216	.00005
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.75927**	**.25437**	**.00228**	**.02377**	**.06604**	**5.4628**
Stddev	.00514	.00234	.00153	.00070	.00069	.1984
%RSD	.67702	.92123	67.332	2.9253	1.0408	3.6311
#1	.75340	.25167	.00376	.02455	.06530	5.5184
#2	.76148	.25595	.00070	.02355	.06616	5.2425
#3	.76294	.25547	.00236	.02321	.06665	5.6274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91685.**	**53862.**
Stddev	700.	1430.
%RSD	.76401	2.6545
#1	91903.	52355.
#2	92250.	54032.
#3	90901.	55199.

Approved: March 01, 2011

Sample Name: L1102031804 Acquired: 2/25/2011 11:54:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00137**	**1.0243**	**.00373**	**.01347**	**.00505**	**-.00016**	**166.07**
Stddev	.00064	.0042	.00025	.00021	.00016	.00005	.55
%RSD	46.856	.41211	6.6233	1.5829	3.1440	28.200	.33304
#1	.00201	1.0201	.00401	.01322	.00515	-.00020	165.68
#2	.00137	1.0243	.00356	.01361	.00486	-.00011	165.83
#3	.00073	1.0285	.00361	.01357	.00512	-.00017	166.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00431**	**.01377**	**.00332**	**3.7217**	**.17332**	**.00104**
Stddev	.00005	.00007	.00042	.00010	.0150	.04425	.00096
%RSD	72.373	1.6190	3.0563	3.1534	.40360	25.529	92.592
#1	.00012	.00439	.01354	.00327	3.7127	.20913	-.00006
#2	.00003	.00427	.01426	.00345	3.7134	.18699	.00174
#3	.00005	.00428	.01352	.00326	3.7391	.12386	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.985**	**.10440**	**-.00003**	**1.2493**	**.03984**	F **1360.1**	**.00247**
Stddev	.063	.00052	.00020	.0135	.00101	16.0	.00078
%RSD	.57360	.49365	796.83	1.0841	2.5387	1.1786	31.673
#1	10.913	.10407	-.00003	1.2481	.03994	1343.3	.00328
#2	11.011	.10500	-.00023	1.2364	.04080	1375.2	.00243
#3	11.030	.10415	.00018	1.2634	.03879	1361.9	.00171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102031804 Acquired: 2/25/2011 11:54:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.9915**	F **198.08**	F **-1805.8**	**-.00091**	**-.00237**	**12.203**	**-.00041**
Stddev	4.9572	.91	15.8	.00122	.00129	.228	.00039
%RSD	99.313	.45980	.87515	133.52	54.545	1.8655	94.840
#1	7.1986	197.14	-1790.7	-.00181	-.00110	12.408	-.00049
#2	-.68596	198.14	-1804.4	.00048	-.00368	12.243	.00001
#3	8.4618	198.96	-1822.2	-.00141	-.00231	11.958	-.00075
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4719**	**.05559**	**.00184**	**.00638**	**.01088**	**1.3265**
Stddev	.0088	.00021	.00062	.00025	.00008	.2236
%RSD	.60009	.37009	33.612	3.8703	.72918	16.853
#1	1.4725	.05582	.00123	.00612	.01079	1.5131
#2	1.4628	.05551	.00246	.00660	.01094	1.3877
#3	1.4805	.05544	.00183	.00642	.01090	1.0787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89834.**	**52619.**
Stddev	232.	257.
%RSD	.25834	.48922
#1	89652.	52911.
#2	89755.	52518.
#3	90096.	52427.

Approved: March 01, 2011

Sample Name: L1102031805 Acquired: 2/25/2011 11:58:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00238**	**8.8410**	**.00797**	**.01343**	**.02653**	**-.00022**	**77.185**
Stddev	.00056	.0969	.00142	.00091	.00038	.00002	.414
%RSD	23.509	1.0965	17.845	6.7585	1.4314	9.8093	.53595
#1	.00181	8.8429	.00762	.01442	.02615	-.00024	76.721
#2	.00240	8.9369	.00677	.01265	.02652	-.00024	77.321
#3	.00292	8.7431	.00954	.01321	.02691	-.00020	77.514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00785**	**.04107**	**.00817**	**13.304**	**.43665**	**.00376**
Stddev	.00015	.00018	.00066	.00032	.122	.04974	.00031
%RSD	79.429	2.3468	1.6019	3.8817	.91498	11.390	8.3213
#1	.00036	.00784	.04050	.00827	13.165	.42650	.00362
#2	.00008	.00767	.04179	.00843	13.359	.49068	.00411
#3	.00012	.00804	.04093	.00782	13.389	.39278	.00353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.7219**	**.37868**	**-.00021**	**.49250**	**.02267**	F **6457.7**	**.01418**
Stddev	.0228	.00418	.00022	.01274	.00049	92.8	.00088
%RSD	.61405	1.1041	104.01	2.5871	2.1425	1.4368	6.1819
#1	3.7210	.37400	-.00038	.47845	.02322	6377.3	.01431
#2	3.7452	.38002	.00004	.49575	.02232	6436.6	.01324
#3	3.6996	.38203	-.00030	.50330	.02245	6559.2	.01498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102031805 Acquired: 2/25/2011 11:58:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **17.980**	F **104.58**	F **-1446.8**	**.00266**	**-.00152**	**22.220**	**.00279**
Stddev	2.228	1.75	12.1	.00151	.00382	.245	.00019
%RSD	12.393	1.6726	.83475	56.788	250.61	1.1023	6.8937
#1	18.591	103.00	-1436.4	.00146	.00028	21.984	.00271
#2	19.840	104.28	-1444.0	.00216	-.00591	22.202	.00265
#3	15.510	106.46	-1460.0	.00436	.00105	22.473	.00301
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.69604**	**.17515**	**.00354**	**.02368**	**.04841**	**4.5688**
Stddev	.00791	.00141	.00051	.00058	.00107	.1294
%RSD	1.1371	.80290	14.262	2.4568	2.2196	2.8321
#1	.68768	.17352	.00376	.02396	.04741	4.4473
#2	.69700	.17599	.00297	.02407	.04827	4.7048
#3	.70342	.17593	.00391	.02302	.04954	4.5542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91226.**	**55405.**
Stddev	949.	709.
%RSD	1.0406	1.2798
#1	92052.	55129.
#2	91436.	54875.
#3	90189.	56210.

Approved: March 01, 2011

Sample Name: L1102031806 Acquired: 2/25/2011 12:02:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00225**	**7.0689**	**.00341**	**.00849**	**.04284**	**.00006**	**3.5091**
Stddev	.00061	.1848	.00078	.00097	.00018	.00003	.0235
%RSD	26.975	2.6147	22.922	11.415	.40863	48.999	.66949
#1	.00284	7.2816	.00356	.00929	.04277	.00007	3.5091
#2	.00229	6.9776	.00256	.00878	.04271	.00009	3.4856
#3	.00162	6.9474	.00410	.00741	.04304	.00003	3.5326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.03686**	**.04304**	**.01270**	**19.449**	**.39201**	**.00082**
Stddev	.00002	.00040	.00070	.00021	.131	.01468	.00078
%RSD	17.569	1.0827	1.6272	1.6924	.67459	3.7438	95.368
#1	-.00012	.03640	.04372	.01251	19.357	.37736	.00154
#2	-.00013	.03709	.04308	.01266	19.390	.39198	.00092
#3	-.00009	.03709	.04232	.01293	19.599	.40671	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0051**	**.84800**	**-.00022**	**.17892**	**.02509**	F **1704.5**	**.00247**
Stddev	.0191	.00664	.00023	.01165	.00019	5.3	.00021
%RSD	.95029	.78252	105.09	6.5105	.77109	.31187	8.6845
#1	2.0229	.84336	.00004	.16549	.02506	1700.7	.00240
#2	2.0074	.84503	-.00039	.18622	.02530	1710.5	.00230
#3	1.9850	.85560	-.00031	.18506	.02491	1702.2	.00271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102031806 Acquired: 2/25/2011 12:02:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **27.964**	F **14.006**	F **-801.15**	**.00028**	**-.00049**	**7.6037**	**.00020**
Stddev	7.233	.126	7.22	.00068	.00022	.0529	.00008
%RSD	25.867	.89635	.90062	244.02	43.977	.69598	39.882
#1	21.108	14.070	-802.32	.00106	-.00053	7.6495	.00017
#2	27.262	14.087	-807.71	-.00002	-.00068	7.6160	.00030
#3	35.523	13.861	-793.42	-.00020	-.00026	7.5458	.00015
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03652**	**.12344**	**.00434**	**.06401**	**.03345**	**13.068**
Stddev	.00042	.00088	.00134	.00104	.00013	.674
%RSD	1.1437	.71381	30.939	1.6303	.38041	5.1553
#1	.03630	.12245	.00560	.06519	.03331	13.769
#2	.03627	.12373	.00293	.06364	.03355	13.010
#3	.03701	.12414	.00450	.06320	.03350	12.425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92607.**	**57290.**
Stddev	956.	997.
%RSD	1.0328	1.7402
#1	93629.	56141.
#2	92460.	57928.
#3	91733.	57800.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 12:05:51 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42684**	**10.912**	**.40293**	**.52291**	**.99683**	**.05329**	**10.023**
Stddev	.01123	.259	.00262	.01270	.00390	.00131	.031
%RSD	2.6303	2.3741	.64947	2.4287	.39109	2.4540	.31410
#1	.41391	10.614	.40080	.50825	.99445	.05181	9.9899
#2	.43420	11.038	.40585	.53065	.99471	.05379	10.028
#3	.43239	11.083	.40213	.52983	1.0013	.05428	10.052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05219**	**.20652**	**.52951**	**.50354**	**4.0241**	**50.905**	**.99897**
Stddev	.00026	.00034	.01136	.00031	.0300	.253	.00298
%RSD	.49193	.16456	2.1456	.06099	.74470	.49670	.29829
#1	.05190	.20614	.51664	.50351	4.0023	50.687	.99790
#2	.05235	.20677	.53378	.50324	4.0118	50.846	.99668
#3	.05233	.20667	.53812	.50386	4.0583	51.182	1.0023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.225**	**.47916**	**1.0005**	**50.182**	**.50720**	F **54.235**	**.51253**
Stddev	.102	.00281	.0009	.307	.00033	21.402	.00066
%RSD	.99872	.58642	.08920	.61214	.06573	39.461	.12933
#1	10.122	.47654	1.0003	49.908	.50722	38.860	.51323
#2	10.226	.47882	.99970	50.124	.50686	78.678	.51244
#3	10.327	.48213	1.0015	50.514	.50752	45.167	.51191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 12:05:51 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.69845**	**10.142**	F **20.244**	**1.2122**	**.39902**	F **4.3301**	**1.0237**
Stddev	9.5936	.068	2.125	.0020	.00220	.0667	.0026
%RSD	1373.5	.66631	10.499	.16865	.55109	1.5396	.25291
#1	9.3660	10.064	18.636	1.2101	.40155	4.2531	1.0208
#2	-1.7223	10.189	19.443	1.2142	.39757	4.3701	1.0250
#3	-9.7391	10.172	22.654	1.2123	.39794	4.3670	1.0254
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96631**	**.99163**	**.52556**	**1.0307**	**.98683**	F **1.1368**
Stddev	.00300	.00198	.00307	.0256	.00089	.1938
%RSD	.31072	.19956	.58411	2.4786	.09016	17.051
#1	.96493	.99061	.52202	1.0013	.98716	1.3325
#2	.96426	.99037	.52751	1.0430	.98583	1.1329
#3	.96976	.99391	.52715	1.0477	.98752	.94487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87569.**	**49969.**
Stddev	214.	1093.
%RSD	.24442	2.1870
#1	87813.	51213.
#2	87485.	49528.
#3	87410.	49165.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 12:09:29 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.00336**	**.00201**	**.00107**	**.00020**	**-.00003**	**-.01805**
Stddev	.00053	.00246	.00057	.00166	.00026	.00003	.00811
%RSD	64.124	73.238	28.253	155.67	125.23	100.61	44.934
#1	.00024	.00598	.00262	.00013	-.00005	.00000	-.00903
#2	.00095	.00109	.00191	.00299	.00019	-.00007	-.02037
#3	.00128	.00302	.00150	.00009	.00047	-.00003	-.02474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00011**	**.00037**	**.00033**	**-.00111**	**.03358**	**-.00278**
Stddev	.00006	.00015	.00030	.00087	.00373	.01798	.00039
%RSD	41.976	134.92	80.170	261.19	334.75	53.548	13.883
#1	-.00012	-.00028	.00023	.00089	-.00357	.01439	-.00234
#2	-.00009	-.00006	.00071	.00077	.00318	.05004	-.00306
#3	-.00021	.00001	.00017	-.00067	-.00294	.03632	-.00294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01266**	**.00149**	**.00063**	**.02997**	**-.00108**	F **6.1889**	**-.00135**
Stddev	.01705	.00067	.00017	.00776	.00035	13.669	.00207
%RSD	134.62	44.813	26.538	25.881	31.992	220.87	153.43
#1	-.02712	.00105	.00068	.03655	-.00146	12.537	.00007
#2	-.01701	.00117	.00076	.02142	-.00100	15.530	-.00040
#3	.00614	.00226	.00044	.03193	-.00078	-9.5001	-.00372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 12:09:29 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1.8531**	**-.00476**	F **1.4250**	**.00350**	**-.00009**	**.03420**	**.00063**
Stddev	7.1609	.05074	7.3680	.00218	.00048	.08025	.00008
%RSD	386.43	1066.1	517.04	62.132	532.72	234.68	12.233
#1	-6.3253	-.05986	4.7002	.00102	.00036	-.05812	.00070
#2	4.8872	.04006	6.5876	.00508	-.00002	.07336	.00055
#3	6.9974	.00552	-7.0127	.00440	-.00060	.08734	.00065
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00062**	**.00068**	**-.00015**	**.00004**	**-.02029**
Stddev	.00015	.00109	.00102	.00021	.00028	.05790
%RSD	288.54	174.74	151.59	137.39	666.38	285.34
#1	.00011	.00025	.00011	-.00015	-.00013	.01095
#2	-.00012	-.00023	.00186	-.00037	.00037	.01528
#3	.00017	.00185	.00006	.00006	-.00011	-.08710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89998.**	**51947.**
Stddev	362.	272.
%RSD	.40243	.52440
#1	90220.	51662.
#2	90194.	51973.
#3	89580.	52205.

Approved: March 01, 2011

Sample Name: L1102031807 Acquired: 2/25/2011 12:13:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00358**	**7.1757**	**.00260**	**.01117**	**.04121**	F **-.00072**	**3.9598**
Stddev	.00096	.0881	.00156	.00030	.00016	.00003	.0038
%RSD	26.694	1.2274	60.001	2.6812	.38663	4.0923	.09570
#1	.00338	7.2738	.00426	.01148	.04113	-.00075	3.9594
#2	.00462	7.1500	.00117	.01088	.04111	-.00070	3.9563
#3	.00274	7.1034	.00238	.01115	.04140	-.00070	3.9638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						4.5000	
Low Limit						-.00050	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.02338**	**.05013**	**.01515**	**22.208**	**.59941**	**-.00304**
Stddev	.00008	.00011	.00077	.00021	.091	.02264	.00030
%RSD	394.64	.47188	1.5408	1.3876	.41193	3.7771	9.9958
#1	-.00012	.02327	.05061	.01497	22.292	.57618	-.00274
#2	.00005	.02339	.05055	.01510	22.220	.62141	-.00302
#3	.00000	.02349	.04924	.01538	22.110	.60064	-.00335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1457**	**.64323**	**.00000**	**.15511**	**.02035**	F **1755.7**	**.00240**
Stddev	.0184	.00186	.0002	.00748	.00047	15.6	.00071
%RSD	.85582	.28920	6526.0	4.8201	2.2895	.88945	29.665
#1	2.1656	.64473	.00006	.16016	.02063	1749.8	.00158
#2	2.1421	.64380	-.00024	.15863	.02060	1773.4	.00278
#3	2.1294	.64115	.00017	.14652	.01981	1743.8	.00285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102031807 Acquired: 2/25/2011 12:13:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **13.806**	F **15.850**	F **-917.86**	**-.00033**	**-.00045**	**8.5688**	**.00013**
Stddev	3.867	.071	8.58	.00265	.00305	.1101	.00009
%RSD	28.006	.44793	.93490	814.93	683.12	1.2854	73.223
#1	14.048	15.781	-912.79	-.00130	-.00061	8.5947	.00023
#2	9.8245	15.923	-927.77	-.00236	.00268	8.6637	.00009
#3	17.546	15.846	-913.03	.00268	-.00341	8.4480	.00006
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03679**	**.37678**	**.00477**	**.06664**	**.03966**	**21.384**
Stddev	.00008	.00170	.00006	.00095	.00045	.404
%RSD	.23059	.45202	1.2886	1.4209	1.1243	1.8895
#1	.03686	.37772	.00470	.06772	.03918	21.813
#2	.03680	.37482	.00479	.06622	.04006	21.327
#3	.03670	.37781	.00481	.06597	.03973	21.011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**94565.**	**56098.**
Stddev	1022.	358.
%RSD	1.0803	.63754
#1	95729.	55722.
#2	94150.	56139.
#3	93816.	56433.

Approved: March 01, 2011

Sample Name: L1102031808 Acquired: 2/25/2011 12:17:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG357371-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00236**	**6.9908**	**.00416**	**.01138**	**.03249**	**-.00023**	**34.987**
Stddev	.00018	.0102	.00065	.00088	.00041	.00003	.179
%RSD	7.4234	.14533	15.653	7.7335	1.2643	11.796	.51134
#1	.00229	6.9970	.00463	.01210	.03202	-.00025	34.790
#2	.00256	6.9963	.00443	.01163	.03270	-.00025	35.032
#3	.00224	6.9791	.00342	.01040	.03276	-.00020	35.139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.01605**	**.03596**	**.01088**	**15.410**	**.72508**	**.00021**
Stddev	.00014	.00023	.00011	.00080	.123	.05435	.00102
%RSD	271.57	1.4060	.29862	7.3312	.79595	7.4956	485.03
#1	-.00011	.01579	.03602	.01177	15.276	.68173	.00136
#2	-.00016	.01617	.03584	.01021	15.439	.70746	-.00059
#3	.00011	.01619	.03603	.01067	15.517	.78606	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.8495**	**.50131**	**-.00013**	**.28520**	**.02788**	F **4293.6**	**.00289**
Stddev	.0660	.00248	.00020	.01071	.00106	64.2	.00081
%RSD	2.3147	.49554	150.69	3.7553	3.8068	1.4953	27.987
#1	2.7911	.49886	-.00018	.27288	.02734	4236.9	.00292
#2	2.8363	.50123	-.00031	.29043	.02720	4280.6	.00207
#3	2.9210	.50383	.00009	.29229	.02910	4363.3	.00369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102031808 Acquired: 2/25/2011 12:17:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG357371-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **18.588**	F **52.512**	F **-1051.8**	**.00216**	**-.00172**	**5.4901**	**-.00011**
Stddev	16.704	.458	18.5	.00179	.00214	.1035	.00040
%RSD	89.861	.87253	1.7579	83.006	124.03	1.8847	365.54
#1	30.812	52.129	-1033.4	.00306	.00071	5.3853	.00011
#2	-.44439	52.388	-1051.7	.00333	-.00330	5.5921	-.00058
#3	25.397	53.020	-1070.4	.00010	-.00258	5.4930	.00013
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33959**	**.19393**	**.00355**	**.03950**	**.04537**	**8.0843**
Stddev	.00329	.00241	.00073	.00043	.00035	.2099
%RSD	.96980	1.2418	20.565	1.0884	.76900	2.5964
#1	.33614	.19115	.00361	.03993	.04504	8.2964
#2	.33992	.19525	.00424	.03950	.04534	8.0798
#3	.34270	.19540	.00279	.03907	.04574	7.8766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93724.**	**55109.**
Stddev	605.	57.
%RSD	.64584	.10311
#1	93454.	55163.
#2	93301.	55115.
#3	94418.	55050.

Approved: March 01, 2011

Sample Name: L1102031809S Acquired: 2/25/2011 12:20:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG357371-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00756**	**6.5325**	**.00686**	**.02578**	**.04039**	**-.00021**	**37.233**
Stddev	.00076	.1594	.00136	.00057	.00055	.00002	.159
%RSD	10.011	2.4397	19.814	2.2295	1.3499	10.015	.42835
#1	.00823	6.7158	.00598	.02634	.03981	-.00023	37.250
#2	.00771	6.4263	.00617	.02580	.04048	-.00019	37.066
#3	.00674	6.4554	.00842	.02519	.04089	-.00020	37.384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.01875**	**.03792**	**.01524**	**15.463**	**1.0834**	**.00848**
Stddev	.00014	.00032	.00099	.00081	.089	.0437	.00025
%RSD	37.174	1.7019	2.6137	5.3009	.57583	4.0328	2.9306
#1	.00037	.01841	.03903	.01446	15.479	1.1251	.00861
#2	.00025	.01879	.03712	.01518	15.368	1.0380	.00820
#3	.00054	.01905	.03760	.01608	15.544	1.0871	.00864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.7475**	**.49984**	**.00761**	**.70954**	**.03116**	F **4330.6**	**.00841**
Stddev	.0194	.00385	.00017	.01527	.00097	76.2	.00254
%RSD	.70746	.77097	2.2169	2.1528	3.1144	1.7588	30.234
#1	2.7301	.49939	.00757	.71621	.03084	4245.5	.00660
#2	2.7438	.49622	.00746	.69206	.03040	4354.2	.01131
#3	2.7685	.50389	.00779	.72034	.03225	4392.2	.00731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102031809S Acquired: 2/25/2011 12:20:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG357371-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **22.371**	F **55.411**	F **-1004.2**	**.00818**	**.00013**	**15.125**	**.00823**
Stddev	2.705	1.266	20.1	.00080	.00252	.275	.00013
%RSD	12.091	2.2840	1.9978	9.7314	1963.0	1.8198	1.5848
#1	25.436	54.263	-982.61	.00900	-.00242	14.873	.00837
#2	20.318	55.201	-1007.9	.00741	.00019	15.082	.00811
#3	21.359	56.768	-1022.2	.00813	.00262	15.418	.00821
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37359**	**.33205**	**.00873**	**.05162**	**.05164**	**6.8626**
Stddev	.00099	.00194	.00047	.00076	.00135	.2876
%RSD	.26581	.58439	5.4296	1.4656	2.6167	4.1912
#1	.37420	.33301	.00844	.05249	.05032	7.1705
#2	.37245	.32981	.00849	.05121	.05156	6.8165
#3	.37413	.33332	.00928	.05116	.05302	6.6008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91798.**	**56874.**
Stddev	907.	830.
%RSD	.98799	1.4594
#1	92408.	56038.
#2	92229.	57698.
#3	90755.	56885.

Approved: March 01, 2011

Sample Name: L1102031810SD Acquired: 2/25/2011 12:24:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG357371-06

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00726**	**7.3772**	**.00746**	**.02720**	**.04453**	**-.00029**	**26.365**
Stddev	.00077	.1966	.00171	.00032	.00041	.00004	.081
%RSD	10.561	2.6654	22.900	1.1726	.92802	13.378	.30734
#1	.00699	7.1768	.00549	.02693	.04443	-.00027	26.331
#2	.00667	7.3849	.00851	.02712	.04418	-.00026	26.308
#3	.00813	7.5698	.00839	.02755	.04499	-.00033	26.458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.02145**	**.04297**	**.01535**	**17.794**	**1.1475**	**.00655**
Stddev	.00004	.00053	.00154	.00017	.031	.0198	.00154
%RSD	10.670	2.4940	3.5921	1.0754	.17349	1.7252	23.518
#1	.00039	.02112	.04164	.01549	17.771	1.1258	.00702
#2	.00045	.02116	.04261	.01517	17.783	1.1645	.00483
#3	.00037	.02207	.04466	.01541	17.829	1.1521	.00781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.5741**	**.53902**	**.00765**	**.66437**	**.03147**	F **3664.9**	**.00664**
Stddev	.0340	.00304	.00031	.01513	.00052	65.6	.00207
%RSD	1.3190	.56441	4.0028	2.2777	1.6457	1.7900	31.251
#1	2.5350	.53801	.00730	.66637	.03105	3596.4	.00495
#2	2.5963	.53660	.00788	.64833	.03132	3671.2	.00601
#3	2.5910	.54244	.00776	.67840	.03205	3727.1	.00895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102031810SD Acquired: 2/25/2011 12:24:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG357371-06

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.200**	F **41.092**	F **-894.21**	**.00814**	**-.00099**	**13.567**	**.00846**
Stddev	3.574	.597	14.65	.00046	.00207	.192	.00011
%RSD	31.909	1.4540	1.6381	5.6582	209.24	1.4174	1.2904
#1	11.074	40.567	-883.08	.00829	.00140	13.378	.00853
#2	14.834	40.968	-888.74	.00851	-.00210	13.562	.00833
#3	7.6903	41.742	-910.80	.00762	-.00227	13.762	.00850
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25064**	**.37412**	**.00840**	**.06251**	**.04884**	**8.6259**
Stddev	.00095	.00143	.00143	.00114	.00062	.0663
%RSD	.37718	.38268	16.967	1.8214	1.2716	.76845
#1	.24974	.37314	.00723	.06146	.04822	8.6932
#2	.25057	.37346	.00799	.06235	.04885	8.5607
#3	.25163	.37576	.00999	.06372	.04946	8.6238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93157.**	**53750.**
Stddev	514.	486.
%RSD	.55185	.90430
#1	92923.	54189.
#2	92802.	53833.
#3	93747.	53228.

Approved: March 01, 2011

Sample Name: L1102057111 Acquired: 2/25/2011 12:28:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 400 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.79297**	**.00117**	**.00144**	**.00369**	**-.00009**	**.01042**
Stddev	.00069	.00807	.00047	.00156	.00030	.00001	.01046
%RSD	104.50	1.0172	40.272	108.33	8.1757	11.844	100.34
#1	-.00014	.79947	.00093	.00321	.00399	-.00009	.02186
#2	.00103	.79548	.00171	.00087	.00338	-.00008	.00134
#3	.00109	.78394	.00087	.00025	.00371	-.00010	.00808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00236**	**.00229**	**.00039**	**4.7627**	**.02681**	**-.00240**
Stddev	.00002	.00008	.00054	.00062	.0013	.04941	.00177
%RSD	200.59	3.3372	23.440	160.43	.02771	184.30	73.915
#1	-.00004	.00229	.00284	.00014	4.7639	.07878	-.00279
#2	.00000	.00245	.00176	.00109	4.7613	.02120	-.00394
#3	.00000	.00236	.00227	-.00007	4.7628	-.01956	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03518**	**.08891**	**-.00013**	**-.00391**	**-.00096**	**188.46**	**.00014**
Stddev	.03807	.00032	.00022	.00797	.00048	23.38	.00159
%RSD	108.21	.35844	165.91	203.67	49.599	12.403	1118.6
#1	.07631	.08861	-.00025	-.00013	-.00128	183.18	.00194
#2	.02806	.08886	-.00026	-.01306	-.00119	214.02	-.00108
#3	.00117	.08925	.00012	.00146	-.00041	168.17	-.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102057111 Acquired: 2/25/2011 12:28:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 400 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.5430**	**.07672**	**6.0418**	**.00058**	**-.00135**	**.28224**	**-.00020**
Stddev	10.824	.03214	7.4647	.00116	.00143	.01788	.00014
%RSD	195.27	41.887	123.55	201.37	105.50	6.3352	69.827
#1	-3.9671	.11337	13.789	.00109	-.00284	.28286	-.00012
#2	3.2750	.06346	5.4409	-.00075	-.00123	.29980	-.00037
#3	17.321	.05334	-1.1043	.00140	.00001	.26405	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.01079**	**.00115**	**.00235**	**.00378**	F **-.27399**
Stddev	.00005	.00092	.00063	.00045	.00002	.17849
%RSD	18.463	8.5279	55.027	19.091	.58328	65.145
#1	.00023	.01122	.00044	.00270	.00376	-.08941
#2	.00028	.00973	.00136	.00184	.00380	-.28685
#3	.00033	.01141	.00166	.00250	.00379	-.44569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93438.**	**53196.**
Stddev	453.	464.
%RSD	.48484	.87298
#1	93900.	52903.
#2	92995.	52953.
#3	93418.	53731.

Approved: March 01, 2011

Sample Name: L1102031804 Acquired: 2/25/2011 12:32:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 10 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00283**	**4.4338**	**.01281**	**.07017**	**.02412**	F **-.00064**	**792.91**
Stddev	.00019	.1076	.00297	.00072	.00023	.00002	13.32
%RSD	6.7454	2.4257	23.173	1.0200	.97033	2.9095	1.6796
#1	.00262	4.3359	.00940	.06934	.02395	-.00064	777.55
#2	.00288	4.4167	.01421	.07059	.02402	-.00062	799.94
#3	.00300	4.5489	.01481	.07058	.02438	-.00065	801.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						4.5000	
Low Limit						-.00050	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**.01948**	**.06258**	**.01492**	**18.068**	**.86892**	**.02424**
Stddev	.00010	.00019	.00132	.00029	.112	.02051	.00106
%RSD	10.589	.97107	2.1120	1.9222	.61910	2.3604	4.3653
#1	.00095	.01966	.06145	.01509	17.943	.87863	.02387
#2	.00104	.01928	.06226	.01509	18.158	.88277	.02543
#3	.00084	.01949	.06403	.01459	18.105	.84536	.02342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**54.200**	**.49850**	**.00043**	**6.3902**	**.19511**	F **6683.7**	**.00793**
Stddev	.363	.00407	.00016	.0336	.00032	19.5	.00035
%RSD	.67035	.81741	36.363	.52648	.16305	.29191	4.4100
#1	53.783	.49390	.00061	6.3534	.19517	6703.8	.00830
#2	54.368	.49991	.00040	6.4194	.19539	6682.4	.00760
#3	54.449	.50168	.00030	6.3977	.19476	6664.8	.00789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102031804 Acquired: 2/25/2011 12:32:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 10 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.533**	F **923.75**	F **-9249.8**	**.00292**	**-.00407**	**65.972**	**.00041**
Stddev	2.919	1.05	36.9	.00245	.00142	1.846	.00058
%RSD	12.405	.11407	.39920	83.852	34.758	2.7976	140.16
#1	22.100	924.39	-9253.5	.00559	-.00351	67.366	.00031
#2	26.891	924.34	-9284.7	.00076	-.00302	66.672	-.00011
#3	21.606	922.54	-9211.1	.00242	-.00569	63.879	.00104
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **7.1967**	**.27848**	**.00150**	**.02950**	**.04612**	**10.656**
Stddev	.0720	.00236	.00084	.00088	.00021	.159
%RSD	.99983	.84737	56.295	2.9690	.45026	1.4964
#1	7.1236	.27583	.00246	.02933	.04590	10.571
#2	7.2674	.27927	.00089	.02873	.04632	10.556
#3	7.1991	.28035	.00115	.03046	.04614	10.840
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84397.**	**52165.**
Stddev	228.	697.
%RSD	.27000	1.3362
#1	84523.	52924.
#2	84534.	52014.
#3	84134.	51555.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 12:35:57 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41171**	**10.470**	**.40616**	**.50138**	**.99785**	**.05093**	**10.109**
Stddev	.00413	.051	.00078	.00526	.00207	.00029	.029
%RSD	1.0026	.48539	.19232	1.0492	.20696	.57066	.28429
#1	.40997	10.475	.40627	.49749	.99637	.05066	10.115
#2	.41642	10.518	.40533	.50737	1.0002	.05124	10.134
#3	.40874	10.417	.40688	.49929	.99697	.05090	10.078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05270**	**.20779**	**.50529**	**.50470**	**3.9752**	**50.860**	**1.0049**
Stddev	.00008	.00034	.00403	.00136	.0057	.103	.0028
%RSD	.15365	.16221	.79659	.26960	.14259	.20202	.28157
#1	.05271	.20780	.50267	.50355	3.9687	50.749	1.0017
#2	.05277	.20812	.50992	.50620	3.9786	50.951	1.0071
#3	.05261	.20745	.50327	.50434	3.9783	50.879	1.0060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.179**	**.47541**	**1.0033**	**49.862**	**.51025**	F **25.979**	**.51488**
Stddev	.035	.00300	.0037	.114	.00077	17.215	.00243
%RSD	.34396	.63159	.36466	.22847	.15188	66.265	.47225
#1	10.142	.47205	.99938	49.741	.50994	44.653	.51397
#2	10.212	.47637	1.0066	49.967	.51113	10.741	.51764
#3	10.182	.47782	1.0037	49.879	.50967	22.542	.51303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 12:35:57 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **25.449**	**10.138**	F **20.083**	**1.2210**	**.40512**	F **4.1520**	**1.0252**
Stddev	6.523	.011	2.320	.0043	.00332	.1473	.0032
%RSD	25.632	.10494	11.552	.35427	.81942	3.5469	.31254
#1	30.743	10.150	19.588	1.2176	.40358	4.1047	1.0230
#2	27.443	10.130	22.610	1.2259	.40893	4.3171	1.0289
#3	18.162	10.133	18.051	1.2196	.40286	4.0342	1.0237
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96666**	**.98773**	**.52780**	**.98592**	**.98205**	F **1.2741**
Stddev	.00071	.00095	.00295	.00720	.00431	.1440
%RSD	.07334	.09608	.55825	.73043	.43845	11.301
#1	.96586	.98859	.52507	.97974	.97812	1.1114
#2	.96721	.98788	.53092	.99383	.98665	1.3262
#3	.96691	.98671	.52741	.98419	.98137	1.3848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89232.**	**53664.**
Stddev	204.	221.
%RSD	.22892	.41104
#1	89287.	53844.
#2	89005.	53418.
#3	89403.	53729.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 12:39:35 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**-.00464**	**.00210**	**.00175**	**-.00050**	**-.00004**	**-.00085**
Stddev	.00040	.00371	.00125	.00084	.00034	.00003	.00439
%RSD	30.790	79.877	59.504	47.817	68.960	75.151	513.74
#1	.00118	-.00892	.00348	.00147	-.00073	-.00001	.00419
#2	.00174	-.00241	.00177	.00269	-.00010	-.00005	-.00382
#3	.00096	-.00259	.00105	.00109	-.00067	-.00006	-.00293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00009**	**.00044**	**.00020**	**.00063**	**.00247**	**.00155**
Stddev	.00012	.00002	.00022	.00066	.00749	.03570	.00186
%RSD	286.02	20.549	50.703	325.88	1181.9	1446.5	119.62
#1	-.00012	-.00007	.00027	-.00031	.00107	.04219	.00357
#2	-.00011	-.00010	.00070	.00095	-.00707	-.02694	.00117
#3	.00010	-.00010	.00036	-.00003	.00790	-.00785	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01755**	**.00042**	**.00071**	**.00357**	**-.00040**	F **19.353**	**-.00203**
Stddev	.00683	.00066	.00018	.01084	.00081	9.925	.00095
%RSD	38.922	158.34	25.186	303.53	201.61	51.281	46.782
#1	-.01018	.00019	.00092	-.00893	-.00080	7.9056	-.00279
#2	-.02368	-.00010	.00064	.00934	-.00094	24.617	-.00233
#3	-.01880	.00116	.00058	.01030	.00053	25.537	-.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 12:39:35 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.625**	**.01439**	**-.19612**	**.00237**	**.00038**	**.09546**	**.00056**
Stddev	3.919	.05956	3.8719	.00107	.00299	.05996	.00036
%RSD	26.797	413.76	1974.2	44.982	793.66	62.810	64.233
#1	16.673	.07378	3.5857	.00299	.00103	.04192	.00077
#2	17.096	.01473	-.02174	.00114	-.00288	.16024	.00076
#3	10.106	-.04533	-4.1523	.00298	.00299	.08422	.00014
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000						
Low Limit	-1.0000						

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00017**	**.00058**	**.00012**	**-.00013**	**.01877**
Stddev	.00007	.00124	.00088	.00023	.00004	.09612
%RSD	94.901	746.99	150.83	193.81	27.861	511.99
#1	.00006	.00087	.00141	.00028	-.00011	.05041
#2	.00001	.00018	.00069	-.00014	-.00011	-.08917
#3	.00016	-.00154	-.00034	.00022	-.00018	.09509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90163.**	**53186.**
Stddev	589.	460.
%RSD	.65364	.86543
#1	90622.	53694.
#2	90369.	52797.
#3	89498.	53069.

Approved: March 01, 2011

Sample Name: PBS 48 Acquired: 2/25/2011 12:43:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357500-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**-.00331**	**-.00039**	**.00127**	**.00018**	**-.00001**	**.02686**
Stddev	.00105	.00591	.00263	.00074	.00020	.00003	.01370
%RSD	152.33	178.75	677.73	58.043	111.34	311.04	50.990
#1	.00033	.00201	.00116	.00173	.00041	-.00005	.03524
#2	-.00013	-.00226	-.00343	.00165	.00007	.00002	.01105
#3	.00187	-.00967	.00111	.00042	.00006	.00000	.03428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00048**	**.00140**	**.00153**	**.02030**	**-.03147**	**-.00051**
Stddev	.00007	.00009	.00049	.00015	.00089	.04713	.00078
%RSD	94.058	17.675	34.978	9.7351	4.3845	149.74	152.46
#1	.00002	-.00049	.00156	.00167	.02094	.00087	-.00082
#2	.00005	-.00056	.00178	.00153	.02069	-.08554	-.00109
#3	.00016	-.00039	.00085	.00138	.01929	-.00975	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02253**	**.00065**	**.00034**	**.02509**	**.00031**	F **-24.393**	**-.00078**
Stddev	.01893	.00068	.00025	.01056	.00012	14.228	.00143
%RSD	84.043	105.54	72.385	42.086	39.239	58.330	182.26
#1	-.03012	.00129	.00006	.01904	.00022	-8.0470	-.00235
#2	-.03649	.00072	.00051	.01894	.00044	-33.998	.00046
#3	-.00098	-.00007	.00045	.03728	.00026	-31.134	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: PBS 48 Acquired: 2/25/2011 12:43:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357500-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **15.829**	**.01979**	**7.6838**	**.00444**	**-.00151**	**2.5057**	**.00076**
Stddev	5.779	.03452	1.8003	.00076	.00132	.1009	.00020
%RSD	36.509	174.41	23.430	17.081	87.228	4.0286	26.688
#1	10.243	-.01996	7.6550	.00367	.00000	2.4598	.00085
#2	21.783	.03707	9.4983	.00446	-.00245	2.4358	.00053
#3	15.460	.04226	5.8980	.00519	-.00209	2.6214	.00091
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00021**	**-.00229**	**-.00005**	**.00188**	**.23693**
Stddev	.00016	.00027	.00014	.00033	.00002	.32915
%RSD	105.33	130.92	5.9645	608.60	1.1903	138.93
#1	.00029	-.00045	-.00244	-.00028	.00186	.30571
#2	-.00002	-.00025	-.00226	-.00020	.00189	-.12119
#3	.00017	.00008	-.00218	.00032	.00190	.52625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89996.**	**52136.**
Stddev	117.	972.
%RSD	.13042	1.8641
#1	89914.	51029.
#2	90130.	52529.
#3	89943.	52850.

Approved: March 01, 2011

Sample Name: LCSS 48 Acquired: 2/25/2011 12:47:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357500-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19762**	**-.00437**	**.19025**	**.00160**	**.00003**	**-.00001**	**.02573**
Stddev	.00300	.00472	.00083	.00130	.00025	.00002	.00739
%RSD	1.5162	107.84	.43433	81.292	880.93	429.21	28.738
#1	.19846	-.00134	.18937	.00133	.00031	-.00001	.02955
#2	.19429	-.00981	.19102	.00045	-.00009	.00002	.01721
#3	.20011	-.00197	.19036	.00301	-.00014	-.00003	.03043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02522**	**-.00033**	**.00105**	**.25017**	**.01431**	**-.01307**	**-.00134**
Stddev	.00005	.00004	.00044	.00072	.00194	.01995	.00211
%RSD	.21702	11.411	41.532	.28715	13.563	152.64	157.42
#1	.02526	-.00035	.00091	.25097	.01421	-.02482	-.00352
#2	.02516	-.00037	.00070	.24994	.01630	.00996	-.00121
#3	.02525	-.00029	.00155	.24959	.01242	-.02436	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02804**	**.24844**	**.00024**	**.04854**	**.00025**	F **-16.163**	**.25959**
Stddev	.00307	.00116	.00017	.01762	.00030	22.841	.00152
%RSD	10.935	.46508	68.531	36.308	122.77	141.31	.58485
#1	-.02571	.24934	.00041	.06720	.00030	4.0415	.26135
#2	-.02690	.24714	.00025	.03218	-.00008	-40.946	.25869
#3	-.03152	.24885	.00007	.04625	.00052	-11.584	.25874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: LCSS 48 Acquired: 2/25/2011 12:47:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357500-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.3696**	**.09609**	F **-1.5688**	**.00212**	**.00276**	**2.5921**	**.00071**
Stddev	1.7192	.04112	3.5079	.00038	.00097	.1752	.00040
%RSD	20.541	42.791	223.60	17.735	35.332	6.7603	57.259
#1	7.7152	.05445	2.0962	.00250	.00197	2.4172	.00065
#2	7.0738	.09715	-4.8949	.00175	.00246	2.5917	.00034
#3	10.320	.13666	-1.9077	.00212	.00385	2.7676	.00114
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000				
Low Limit			-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00023**	**-.00115**	**-.00009**	**.00224**	**.41038**
Stddev	.00012	.00079	.00061	.00034	.00010	.25280
%RSD	130.05	338.89	53.455	373.03	4.5079	61.601
#1	.00022	.00015	-.00048	.00021	.00212	.12831
#2	.00009	-.00114	-.00169	-.00002	.00228	.48633
#3	-.00002	.00029	-.00128	-.00046	.00231	.61649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90001.**	**52455.**
Stddev	160.	506.
%RSD	.17759	.96465
#1	89834.	52052.
#2	90015.	53023.
#3	90153.	52291.

Approved: March 01, 2011

Sample Name: L1102042506 Acquired: 2/25/2011 12:51:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02461**	**190.12**	**.16300**	**.20141**	**2.4447**	**.00185**	F **1144.1**
Stddev	.00064	4.96	.00090	.00158	.0147	.00004	10.8
%RSD	2.5987	2.6102	.55146	.78276	.59916	2.0576	.94024
#1	.02391	186.49	.16231	.19959	2.4542	.00190	1135.4
#2	.02476	188.09	.16401	.20222	2.4520	.00183	1156.2
#3	.02516	195.77	.16267	.20241	2.4278	.00183	1140.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00583**	**.10458**	**.34010**	**1.7050**	**280.85**	**47.238**	**.25879**
Stddev	.00016	.00046	.00510	.0045	1.39	.123	.00089
%RSD	2.7141	.43818	1.5000	.26474	.49357	.26026	.34475
#1	.00602	.10498	.33501	1.7097	281.70	47.318	.25911
#2	.00576	.10467	.34008	1.7045	281.60	47.300	.25948
#3	.00573	.10408	.34521	1.7007	279.25	47.097	.25778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**125.41**	**3.4508**	**.00851**	**1.8072**	**.25361**	F **38273.**	**.22750**
Stddev	.43	.0141	.00012	.0056	.00194	258.	.00337
%RSD	.33974	.40804	1.4598	.30949	.76662	.67524	1.4820
#1	125.40	3.4632	.00856	1.8010	.25540	38461.	.23122
#2	125.83	3.4537	.00837	1.8085	.25389	38381.	.22661
#3	124.98	3.4355	.00861	1.8120	.25154	37979.	.22466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042506 Acquired: 2/25/2011 12:51:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **30.708**	F **1240.2**	F **-8123.1**	**.01690**	**.00431**	F **222.27**	**.02862**
Stddev	6.460	4.8	28.1	.00357	.00104	2.79	.00059
%RSD	21.037	.39018	.34582	21.139	24.048	1.2554	2.0449
#1	28.958	1245.7	-8152.6	.01460	.00313	224.03	.02917
#2	37.864	1238.5	-8119.9	.02102	.00507	223.73	.02867
#3	25.304	1236.5	-8096.7	.01509	.00474	219.05	.02801
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.3659**	**3.5243**	**.01401**	**.43519**	**.64549**	F **198.34**
Stddev	.0118	.0213	.00237	.00620	.00195	2.62
%RSD	.49693	.60285	16.894	1.4252	.30145	1.3202
#1	2.3762	3.5422	.01614	.42868	.64747	195.45
#2	2.3684	3.5299	.01444	.43584	.64358	199.04
#3	2.3531	3.5008	.01146	.44103	.64541	200.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83545.**	**52123.**
Stddev	343.	270.
%RSD	.41084	.51745
#1	83558.	52382.
#2	83881.	52144.
#3	83195.	51844.

Approved: March 01, 2011

Sample Name: L1102042507 Acquired: 2/25/2011 12:55:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02334**	**190.47**	**.16872**	**.18891**	**2.4402**	**.00245**	F **1014.4**
Stddev	.00030	1.24	.00137	.00158	.0108	.00003	5.1
%RSD	1.2677	.64876	.81417	.83495	.44240	1.1151	.49938
#1	.02301	191.89	.16817	.19049	2.4490	.00248	1009.5
#2	.02342	189.85	.17028	.18890	2.4433	.00243	1014.2
#3	.02359	189.67	.16771	.18733	2.4281	.00243	1019.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00744**	**.10823**	**.29648**	**3.2696**	**294.41**	**47.243**	**.26626**
Stddev	.00012	.00025	.00068	.0033	1.01	.079	.00230
%RSD	1.5698	.22932	.22915	.10148	.34259	.16777	.86517
#1	.00754	.10808	.29660	3.2668	295.09	47.262	.26567
#2	.00746	.10852	.29575	3.2688	294.89	47.311	.26880
#3	.00731	.10809	.29710	3.2733	293.25	47.156	.26431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**125.26**	**3.6460**	**.01549**	**2.0182**	**.24156**	F **42005.**	**.34576**
Stddev	.11	.0106	.00009	.0127	.00122	34.	.00095
%RSD	.09140	.29094	.58012	.63165	.50658	.08119	.27482
#1	125.28	3.6457	.01557	2.0283	.24208	42007.	.34632
#2	125.36	3.6568	.01539	2.0223	.24017	42038.	.34630
#3	125.14	3.6356	.01551	2.0039	.24245	41970.	.34467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042507 Acquired: 2/25/2011 12:55:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **34.840**	F **1130.7**	F **-8921.5**	**.01809**	**.00305**	F **278.08**	**.06293**
Stddev	4.846	2.1	31.4	.00361	.00562	1.65	.00052
%RSD	13.910	.18194	.35240	19.984	184.01	.59315	.81915
#1	36.391	1129.3	-8932.3	.01424	.00396	279.17	.06320
#2	29.408	1129.8	-8886.0	.02141	-.00296	278.88	.06326
#3	38.720	1133.1	-8946.0	.01862	.00817	276.18	.06234
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.7411**	**3.4813**	**.01434**	**.43458**	**.85895**	F **208.11**
Stddev	.0153	.0184	.00234	.00123	.00220	.10
%RSD	.87919	.52813	16.304	.28189	.25611	.04925
#1	1.7530	3.4884	.01666	.43404	.85788	208.23
#2	1.7465	3.4950	.01438	.43371	.85750	208.06
#3	1.7238	3.4604	.01199	.43598	.86148	208.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82783.**	**53754.**
Stddev	265.	84.
%RSD	.32017	.15565
#1	83089.	53702.
#2	82629.	53850.
#3	82631.	53709.

Approved: March 01, 2011

Sample Name: L1102042507PS Acquired: 2/25/2011 12:58:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357551-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21266**	**186.75**	**.34365**	**1.0425**	**2.6843**	**.02645**	F **937.53**
Stddev	.00215	2.79	.00432	.0159	.0076	.00041	17.35
%RSD	1.0098	1.4946	1.2580	1.5299	.28120	1.5517	1.8501
#1	.21020	183.55	.34814	1.0241	2.6905	.02599	928.45
#2	.21414	188.00	.34330	1.0526	2.6865	.02677	957.53
#3	.21365	188.70	.33951	1.0508	2.6759	.02660	926.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03162**	**.18980**	**.50289**	**3.1729**	**268.46**	**67.731**	**.73873**
Stddev	.00005	.00068	.00850	.0126	.37	.141	.00487
%RSD	.14360	.35897	1.6893	.39766	.13822	.20859	.65942
#1	.03166	.19053	.49313	3.1845	268.66	67.870	.74057
#2	.03157	.18969	.50866	3.1747	268.68	67.737	.74241
#3	.03164	.18918	.50686	3.1595	268.03	67.587	.73320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**117.83**	**3.5218**	**.49232**	**27.079**	**.44425**	F **38367.**	**.53004**
Stddev	.16	.0175	.00298	.120	.00077	118.	.00453
%RSD	.13450	.49571	.60625	.44495	.17329	.30640	.85437
#1	117.66	3.5382	.49527	27.199	.44513	38466.	.53250
#2	117.98	3.5237	.49240	27.082	.44367	38398.	.53281
#3	117.83	3.5034	.48930	26.958	.44397	38237.	.52482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042507PS Acquired: 2/25/2011 12:58:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357551-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **24.596**	F **1031.3**	F **-7993.9**	**.57151**	**.18846**	F **548.08**	**.05888**
Stddev	10.981	2.2	60.7	.00257	.00531	2.51	.00021
%RSD	44.644	.21337	.75944	.44999	2.8172	.45801	.35744
#1	25.064	1033.2	-8063.9	.57422	.18918	550.47	.05911
#2	13.389	1031.9	-7962.8	.57119	.19337	548.30	.05869
#3	35.335	1028.9	-7955.1	.56911	.18283	545.46	.05883
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0416**	**3.6079**	**.22961**	**.86114**	**1.2056**	F **199.47**
Stddev	.0077	.0134	.00068	.01455	.0069	4.44
%RSD	.37879	.37111	.29819	1.6899	.57363	2.2277
#1	2.0496	3.6228	.23022	.84443	1.2106	194.34
#2	2.0411	3.6041	.22887	.87103	1.2084	202.20
#3	2.0341	3.5968	.22974	.86797	1.1977	201.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82565.**	**51756.**
Stddev	298.	380.
%RSD	.36139	.73442
#1	82686.	52177.
#2	82225.	51652.
#3	82784.	51438.

Approved: March 01, 2011

Sample Name: L1102042507SDL Acquired: 2/25/2011 13:02:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357551-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00541**	**52.723**	**.03689**	**.04369**	**.48728**	**.00046**	**228.01**
Stddev	.00115	.577	.00036	.00018	.00326	.00002	.56
%RSD	21.201	1.0944	.98927	.41786	.66800	4.2550	.24541
#1	.00659	53.369	.03731	.04390	.48594	.00048	227.99
#2	.00431	52.259	.03664	.04357	.48491	.00044	227.47
#3	.00533	52.540	.03673	.04360	.49099	.00046	228.59
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	**.02371**	**.07185**	**.69694**	**61.172**	**9.4566**	**.04996**
Stddev	.00008	.00025	.00067	.00285	.354	.0633	.00061
%RSD	5.4034	1.0636	.92870	.40942	.57906	.66898	1.2213
#1	.00160	.02364	.07250	.69497	61.165	9.5184	.04949
#2	.00144	.02351	.07117	.69564	60.822	9.3919	.04974
#3	.00156	.02399	.07188	.70021	61.530	9.4596	.05065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.748**	**.75636**	**.00302**	**.40171**	**.05123**	F **9039.9**	**.07173**
Stddev	.118	.00337	.00016	.01978	.00040	63.9	.00101
%RSD	.43966	.44575	5.4353	4.9233	.78649	.70662	1.4084
#1	26.854	.75467	.00310	.42040	.05079	8969.0	.07275
#2	26.621	.75417	.00312	.38100	.05159	9057.8	.07073
#3	26.768	.76024	.00283	.40372	.05130	9093.0	.07171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042507SDL Acquired: 2/25/2011 13:02:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357551-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.852**	F **251.69**	F **-1843.6**	**.00476**	**.00107**	**58.680**	**.01338**
Stddev	4.042	1.49	3.9	.00194	.00028	.215	.00021
%RSD	31.449	.59073	.20921	40.745	26.283	.36622	1.5546
#1	12.383	250.31	-1840.0	.00700	.00120	58.615	.01354
#2	17.108	251.49	-1843.1	.00372	.00075	58.506	.01315
#3	9.0656	253.27	-1847.6	.00357	.00127	58.920	.01346
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.34680**	**.69307**	**.00435**	**.10022**	**.18623**	**44.217**
Stddev	.00366	.00579	.00127	.00104	.00068	.846
%RSD	1.0545	.83488	29.156	1.0426	.36473	1.9125
#1	.34607	.69584	.00578	.10135	.18556	45.192
#2	.34356	.68642	.00336	.09930	.18621	43.682
#3	.35076	.69695	.00392	.10000	.18692	43.776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91511.**	**52375.**
Stddev	734.	826.
%RSD	.80247	1.5762
#1	92339.	51450.
#2	91254.	53037.
#3	90940.	52637.

Approved: March 01, 2011

Sample Name: L1102042507SDL Acquired: 2/25/2011 13:06:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357551-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**10.975**	**.00874**	**.00843**	**.09624**	**.00000**	**44.542**
Stddev	.00045	.113	.00182	.00155	.00018	.0000	.127
%RSD	26.623	1.0289	20.761	18.437	.19066	558.73	.28489
#1	.00207	10.854	.00712	.00696	.09625	-.00003	44.685
#2	.00183	10.991	.01070	.01005	.09606	.00001	44.443
#3	.00120	11.078	.00841	.00827	.09643	.00000	44.498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00501**	**.01458**	**.13928**	**12.176**	**1.8562**	**.00628**
Stddev	.00002	.00011	.00010	.00077	.058	.0210	.00105
%RSD	13.450	2.1517	.70506	.55519	.47402	1.1312	16.678
#1	.00021	.00511	.01468	.13947	12.240	1.8595	.00720
#2	.00018	.00489	.01448	.13842	12.160	1.8753	.00514
#3	.00016	.00503	.01458	.13993	12.129	1.8337	.00650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.3383**	**.15133**	**.00054**	**.08335**	**.00887**	F **1807.7**	**.01082**
Stddev	.0101	.00236	.00014	.00374	.00049	18.1	.00065
%RSD	.19011	1.5586	25.531	4.4850	5.5290	1.0037	6.0255
#1	5.3335	.15269	.00041	.08765	.00913	1787.0	.01143
#2	5.3315	.15269	.00053	.08088	.00917	1815.3	.01088
#3	5.3500	.14860	.00069	.08152	.00830	1820.8	.01014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042507SDL Acquired: 2/25/2011 13:06:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357551-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.7173**	F **53.005**	F **-362.89**	**.00072**	**-.00261**	**10.537**	**.00194**
Stddev	5.6083	.172	1.49	.00143	.00138	.090	.00016
%RSD	206.39	.32425	.41075	198.03	52.875	.85779	8.3861
#1	-3.5735	52.840	-361.29	.00236	-.00161	10.555	.00213
#2	7.1940	52.991	-363.14	.00003	-.00204	10.616	.00188
#3	4.5314	53.183	-364.24	-.00023	-.00419	10.439	.00182
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06849**	**.13579**	**.00270**	**.01954**	**.03783**	**6.4199**
Stddev	.00012	.00133	.00102	.00051	.00004	.2624
%RSD	.17297	.97876	37.743	2.6257	.10710	4.0879
#1	.06863	.13445	.00387	.01901	.03779	6.7182
#2	.06845	.13581	.00208	.02004	.03785	6.3168
#3	.06840	.13711	.00214	.01957	.03786	6.2246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91988.**	**52414.**
Stddev	467.	452.
%RSD	.50742	.86164
#1	92462.	52800.
#2	91974.	52526.
#3	91529.	51918.

Approved: March 01, 2011

Sample Name: L1102042508 Acquired: 2/25/2011 13:10:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01853**	**207.47**	**.10376**	**.18855**	**2.6656**	**.00548**	F **1213.8**
Stddev	.00040	2.20	.00107	.00103	.0027	.00008	21.6
%RSD	2.1525	1.0585	1.0355	.54369	.10322	1.5447	1.7761
#1	.01831	205.84	.10283	.18900	2.6627	.00551	1226.5
#2	.01829	206.61	.10493	.18927	2.6660	.00539	1188.9
#3	.01899	209.97	.10350	.18737	2.6681	.00555	1226.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00477**	**.11088**	**.30405**	**.77370**	**293.89**	**46.890**	**.28868**
Stddev	.00012	.00009	.00362	.00142	.64	.252	.00121
%RSD	2.5165	.07943	1.1906	.18299	.21867	.53653	.41948
#1	.00463	.11087	.30469	.77521	293.37	46.602	.28778
#2	.00481	.11080	.30015	.77241	293.69	47.001	.28819
#3	.00486	.11098	.30730	.77348	294.61	47.067	.29006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**132.62**	**3.6007**	**.00586**	**2.5946**	**.24944**	F **34595.**	**.19963**
Stddev	.34	.0078	.00016	.0080	.00023	40.	.00077
%RSD	.25759	.21804	2.7985	.30944	.09069	.11621	.38781
#1	132.35	3.5927	.00589	2.5878	.24924	34607.	.19930
#2	132.52	3.6010	.00568	2.6035	.24938	34629.	.20051
#3	133.00	3.6084	.00600	2.5926	.24968	34551.	.19907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042508 Acquired: 2/25/2011 13:10:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **30.938**	F **1323.7**	F **-6457.8**	**.01434**	**.00509**	F **293.52**	**.02119**
Stddev	3.986	4.5	16.0	.00364	.00431	3.66	.00042
%RSD	12.884	.33640	.24849	25.409	84.616	1.2483	1.9802
#1	32.326	1321.0	-6442.0	.01077	.01003	295.54	.02079
#2	34.044	1321.2	-6474.0	.01419	.00315	295.74	.02116
#3	26.443	1328.9	-6457.4	.01805	.00210	289.29	.02162
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1002**	**2.8437**	**.01286**	**.44737**	**.68304**	F **226.91**
Stddev	.0052	.0057	.00040	.00469	.00281	2.31
%RSD	.24940	.20067	3.1137	1.0478	.41173	1.0187
#1	2.0947	2.8382	.01296	.44743	.68351	227.53
#2	2.1009	2.8496	.01242	.44265	.68002	224.36
#3	2.1051	2.8432	.01320	.45202	.68558	228.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83113.**	**52282.**
Stddev	559.	468.
%RSD	.67304	.89523
#1	82530.	52123.
#2	83645.	52809.
#3	83165.	51914.

Approved: March 01, 2011

Sample Name: L1102042509 Acquired: 2/25/2011 13:13:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01053**	**182.66**	**.20265**	**.15953**	**2.0055**	**.00839**	**380.41**
Stddev	.00054	2.31	.00196	.00238	.0032	.00004	.75
%RSD	5.1238	1.2659	.96685	1.4909	.15864	.44611	.19662
#1	.01092	181.38	.20056	.16227	2.0088	.00836	379.59
#2	.00992	185.33	.20445	.15804	2.0025	.00843	380.58
#3	.01076	181.27	.20294	.15827	2.0053	.00840	381.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01102**	**.11143**	**.26464**	**7.5920**	**263.46**	**52.610**	**.21748**
Stddev	.00007	.00031	.00150	.0282	.25	.070	.00082
%RSD	.59196	.27831	.56612	.37156	.09355	.13234	.37640
#1	.01094	.11117	.26302	7.5642	263.40	52.589	.21830
#2	.01104	.11136	.26597	7.5912	263.26	52.553	.21666
#3	.01107	.11177	.26492	7.6206	263.74	52.687	.21747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**110.42**	**4.2014**	**.01967**	**1.2941**	**.22777**	F **44537.**	**.49302**
Stddev	.57	.0102	.00049	.0068	.00106	51.	.00276
%RSD	.51967	.24383	2.5082	.52300	.46611	.11427	.55999
#1	109.76	4.2117	.01918	1.2927	.22725	44486.	.49009
#2	110.76	4.1912	.01967	1.2882	.22900	44537.	.49339
#3	110.74	4.2012	.02017	1.3015	.22708	44588.	.49557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042509 Acquired: 2/25/2011 13:13:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **28.033**	F **503.52**	F **-11986.**	**.02311**	**.00573**	F **197.66**	**.05474**
Stddev	1.282	1.71	70.	.00149	.00359	.68	.00043
%RSD	4.5724	.33971	.58720	6.4393	62.675	.34535	.78302
#1	26.609	502.00	-11918.	.02478	.00167	198.39	.05427
#2	28.397	503.18	-11980.	.02192	.00702	197.53	.05511
#3	29.094	505.37	-12059.	.02262	.00849	197.04	.05486
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0432**	**1.1323**	**.01166**	**.35088**	**.91637**	F **218.78**
Stddev	.0050	.0042	.00114	.00145	.00312	1.75
%RSD	.48287	.37095	9.7519	.41327	.34057	.79995
#1	1.0487	1.1370	.01216	.35024	.91305	218.49
#2	1.0389	1.1289	.01246	.35254	.91683	220.66
#3	1.0420	1.1310	.01036	.34986	.91924	217.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85917.**	**52293.**
Stddev	145.	501.
%RSD	.16819	.95833
#1	85774.	52818.
#2	85915.	52243.
#3	86063.	51819.

Approved: March 01, 2011

Sample Name: L1102042510 Acquired: 2/25/2011 13:17:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03027**	**237.03**	**.12484**	**.24091**	**2.4698**	**.00040**	**695.10**
Stddev	.00060	1.42	.00378	.00069	.0043	.00004	14.94
%RSD	1.9904	.60078	3.0302	.28581	.17479	9.2814	2.1491
#1	.03080	237.03	.12317	.24012	2.4729	.00043	703.55
#2	.02962	238.46	.12917	.24131	2.4716	.00042	703.89
#3	.03039	235.61	.12219	.24131	2.4649	.00036	677.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00608**	**.11841**	**.36429**	**2.2696**	**336.30**	**55.514**	**.27715**
Stddev	.00010	.00030	.00305	.0033	.46	.008	.00194
%RSD	1.5734	.25746	.83654	.14536	.13800	.01479	.70165
#1	.00611	.11813	.36080	2.2729	336.23	55.515	.27840
#2	.00615	.11874	.36564	2.2695	336.80	55.521	.27491
#3	.00597	.11837	.36643	2.2663	335.88	55.505	.27814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**129.18**	**4.1265**	**.01202**	**2.0786**	**.25426**	F **37366.**	**.26931**
Stddev	.09	.0048	.00034	.0102	.00120	38.	.00274
%RSD	.06779	.11603	2.8517	.49115	.47183	.10283	1.0167
#1	129.09	4.1264	.01242	2.0893	.25514	37350.	.26952
#2	129.26	4.1314	.01187	2.0690	.25474	37338.	.27194
#3	129.20	4.1218	.01178	2.0775	.25289	37410.	.26647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042510 Acquired: 2/25/2011 13:17:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **22.788**	F **764.66**	F **-7836.6**	**.01201**	**.00354**	F **250.11**	**.02709**
Stddev	8.297	1.05	3.6	.00088	.00459	1.21	.00047
%RSD	36.408	.13786	.04557	7.3647	129.42	.48445	1.7315
#1	18.759	765.01	-7839.7	.01130	.00309	251.03	.02687
#2	32.331	765.49	-7837.3	.01300	-.00080	250.58	.02677
#3	17.276	763.47	-7832.7	.01172	.00834	248.74	.02763
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.7943**	**4.5414**	**.02010**	**.54902**	**.76856**	F **262.66**
Stddev	.0042	.0068	.00079	.00277	.00268	1.84
%RSD	.23135	.14949	3.9147	.50479	.34858	.69930
#1	1.7942	4.5373	.01965	.54590	.77046	260.59
#2	1.7984	4.5492	.02101	.54996	.76972	263.29
#3	1.7901	4.5376	.01965	.55120	.76549	264.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83976.**	**51135.**
Stddev	352.	311.
%RSD	.41942	.60872
#1	83587.	51250.
#2	84068.	50783.
#3	84273.	51373.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 13:21:25 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42389**	F **11.119**	**.40084**	**.51660**	**1.0077**	**.05303**	**10.123**
Stddev	.00434	.169	.00304	.00607	.0059	.00067	.050
%RSD	1.0244	1.5163	.75944	1.1744	.58424	1.2655	.49197
#1	.41927	10.948	.40412	.50981	1.0145	.05231	10.177
#2	.42450	11.123	.40030	.51848	1.0043	.05312	10.112
#3	.42789	11.285	.39811	.52150	1.0044	.05365	10.079
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		10.000					
Range		10.000%					

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05264**	**.20686**	**.52691**	**.49986**	**4.0069**	**51.629**	**1.0142**
Stddev	.00015	.00028	.00707	.00188	.0095	.068	.0028
%RSD	.28510	.13494	1.3411	.37513	.23729	.13257	.28037
#1	.05280	.20685	.51966	.49842	4.0146	51.708	1.0174
#2	.05251	.20714	.52730	.49919	3.9963	51.585	1.0130
#3	.05260	.20658	.53377	.50198	4.0100	51.594	1.0121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.299**	**.47266**	**.99218**	**51.011**	**.50563**	F **15.043**	**.51269**
Stddev	.033	.00169	.00062	.236	.00161	19.271	.00107
%RSD	.32247	.35816	.06281	.46220	.31920	128.10	.20854
#1	10.269	.47351	.99182	51.281	.50745	-4.7092	.51392
#2	10.292	.47376	.99182	50.841	.50439	16.045	.51220
#3	10.335	.47071	.99290	50.912	.50504	33.794	.51196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 13:21:25 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-3.6649**	**10.173**	F **19.694**	**1.2071**	**.39501**	F **4.2132**	**1.0226**
Stddev	6.9176	.085	6.036	.0006	.00327	.1924	.0007
%RSD	188.75	.83297	30.648	.05238	.82829	4.5675	.06822
#1	-9.3446	10.091	23.870	1.2072	.39648	4.0082	1.0222
#2	-5.6892	10.169	22.438	1.2064	.39728	4.2414	1.0234
#3	4.0390	10.260	12.773	1.2076	.39126	4.3900	1.0221
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97184**	**.98568**	**.52902**	**1.0124**	**.97480**	F **3.8076**
Stddev	.00603	.00697	.00123	.0119	.00440	.3654
%RSD	.62058	.70674	.23202	1.1726	.45187	9.5956
#1	.97878	.99355	.52929	1.0001	.96991	3.6681
#2	.96887	.98314	.53008	1.0133	.97603	3.5326
#3	.96787	.98033	.52768	1.0238	.97846	4.2222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89438.**	**51519.**
Stddev	671.	874.
%RSD	.75020	1.6957
#1	90180.	52460.
#2	89259.	51360.
#3	88875.	50735.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 13:25:02 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00137**	**.01175**	**.00062**	**.00139**	**.00029**	**-.00006**	**-.00919**
Stddev	.00017	.00130	.00229	.00143	.00041	.00001	.01636
%RSD	12.614	11.101	369.12	103.35	142.94	24.689	178.02
#1	.00122	.01253	.00248	.00187	.00003	-.00005	.00749
#2	.00156	.01248	.00130	-.00023	.00076	-.00004	-.02521
#3	.00132	.01025	-.00193	.00252	.00007	-.00007	-.00985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00004**	**.00039**	**-.00001**	**-.00118**	**.08775**	**-.00235**
Stddev	.00012	.00000	.00054	.00037	.00284	.02480	.00092
%RSD	458.86	12.517	138.07	3539.5	241.71	28.267	39.250
#1	.00007	-.00003	.00013	.00042	.00204	.10694	-.00291
#2	-.00016	-.00004	.00003	-.00023	-.00336	.09656	-.00286
#3	.00001	-.00004	.00101	-.00022	-.00221	.05974	-.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01005**	**.00098**	**.00081**	**.02414**	**-.00071**	F **-8.3218**	**-.00227**
Stddev	.02766	.00118	.00019	.01217	.00032	7.8864	.00165
%RSD	275.23	120.14	23.918	50.387	45.504	94.768	72.393
#1	.02160	.00222	.00104	.01955	-.00037	-5.5984	-.00341
#2	-.02954	-.00012	.00072	.01495	-.00101	-17.209	-.00039
#3	-.02220	.00084	.00069	.03794	-.00073	-2.1581	-.00303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 13:25:02 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-3.4498**	F **-.02501**	F **2.1194**	**.00274**	**-.00234**	**-.03842**	**.00004**
Stddev	9.3009	.02020	2.5304	.00054	.00283	.05098	.00015
%RSD	269.60	80.750	119.39	19.863	120.50	132.68	394.53
#1	-12.339	-.04617	.95432	.00223	.00046	-.03701	-.00013
#2	6.2141	-.00593	.38138	.00267	-.00229	-.09010	.00008
#3	-4.2244	-.02294	5.0224	.00331	-.00520	.01184	.00016
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00207**	**.00036**	**-.00028**	**-.00002**	F **-.34274**
Stddev	.00008	.00057	.00063	.00013	.00012	.11797
%RSD	1081.6	27.471	175.32	48.119	502.85	34.419
#1	.00004	-.00149	.00107	-.00024	.00011	-.43315
#2	.00006	-.00209	.00009	-.00043	-.00014	-.38578
#3	-.00008	-.00263	-.00009	-.00017	-.00005	-.20930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92583.**	**50514.**
Stddev	771.	89.
%RSD	.83263	.17704
#1	91732.	50487.
#2	92782.	50440.
#3	93235.	50613.

Approved: March 01, 2011

Sample Name: L1102042511 Acquired: 2/25/2011 13:28:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357500-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02529**	**231.66**	**.17220**	**.22347**	**2.8923**	**.00402**	**352.67**
Stddev	.00042	2.86	.00279	.00094	.0015	.00000	.58
%RSD	1.6683	1.2328	1.6229	.42085	.05186	.11003	.16399
#1	.02499	234.03	.17174	.22418	2.8934	.00402	352.11
#2	.02511	228.49	.17520	.22241	2.8930	.00402	352.64
#3	.02577	232.47	.16967	.22383	2.8906	.00401	353.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01238**	**.12696**	**.34036**	**3.6392**	**329.69**	**64.365**	**.26160**
Stddev	.00011	.00018	.00206	.0083	.60	.050	.00255
%RSD	.84917	.14429	.60474	.22793	.18138	.07815	.97403
#1	.01243	.12678	.34001	3.6300	329.70	64.414	.26455
#2	.01226	.12694	.33851	3.6413	329.09	64.313	.26019
#3	.01246	.12715	.34258	3.6462	330.28	64.369	.26008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**130.20**	**5.3094**	**.01666**	**1.6516**	**.27429**	F **52407.**	**1.0502**
Stddev	.30	.0184	.00026	.0112	.00057	88.	.0024
%RSD	.23053	.34632	1.5634	.67806	.20884	.16780	.23010
#1	129.92	5.3305	.01637	1.6450	.27420	52509.	1.0474
#2	130.17	5.2966	.01688	1.6645	.27376	52353.	1.0515
#3	130.52	5.3012	.01671	1.6453	.27490	52360.	1.0517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042511 Acquired: 2/25/2011 13:28:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357500-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **32.099**	F **454.28**	F **-10295.**	**.02698**	**.00664**	F **236.00**	**.12014**
Stddev	9.327	1.21	29.	.00202	.00419	1.84	.00026
%RSD	29.056	.26556	.28039	7.4769	63.148	.77772	.21967
#1	22.829	452.96	-10263.	.02850	.01041	238.11	.11983
#2	31.986	454.56	-10305.	.02775	.00212	234.80	.12033
#3	41.481	455.32	-10318.	.02469	.00738	235.09	.12025
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8018**	**3.2756**	**.01677**	**.44044**	**2.2146**	F **268.31**
Stddev	.0043	.0076	.00150	.00288	.0115	1.30
%RSD	.24168	.23056	8.9183	.65326	.51929	.48473
#1	1.8051	3.2843	.01608	.44127	2.2023	269.23
#2	1.8034	3.2708	.01848	.43724	2.2165	266.83
#3	1.7968	3.2718	.01574	.44281	2.2250	268.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85619.**	**54262.**
Stddev	120.	443.
%RSD	.13966	.81695
#1	85680.	54519.
#2	85695.	54516.
#3	85481.	53750.

Approved: March 01, 2011

Sample Name: L1102042512S Acquired: 2/25/2011 13:32:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357500-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21822**	**241.97**	**.35323**	**.23045**	**2.7597**	**.00200**	**332.55**
Stddev	.00030	1.56	.00218	.00050	.0032	.00000	.16
%RSD	.13722	.64440	.61789	.21893	.11404	.10045	.04822
#1	.21856	242.46	.35237	.23005	2.7603	.00201	332.58
#2	.21802	243.23	.35572	.23028	2.7563	.00200	332.37
#3	.21807	240.23	.35162	.23101	2.7625	.00200	332.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03664**	**.12422**	**.37188**	**3.9131**	**334.55**	**64.256**	**.25738**
Stddev	.00017	.00007	.00117	.0076	.27	.075	.00142
%RSD	.45137	.05342	.31460	.19283	.08156	.11748	.55061
#1	.03649	.12425	.37106	3.9160	334.45	64.251	.25763
#2	.03660	.12427	.37322	3.9187	334.34	64.183	.25866
#3	.03682	.12415	.37136	3.9045	334.86	64.334	.25586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**128.55**	**5.4278**	**.01735**	**1.6351**	**.27100**	F **51376.**	**1.5052**
Stddev	.14	.0015	.00004	.0159	.00093	31.	.0048
%RSD	.10938	.02721	.22128	.97534	.34283	.06128	.31695
#1	128.53	5.4273	.01733	1.6326	.27171	51352.	1.5023
#2	128.42	5.4295	.01739	1.6206	.27133	51412.	1.5107
#3	128.70	5.4267	.01732	1.6522	.26995	51365.	1.5025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042512S Acquired: 2/25/2011 13:32:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357500-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **32.194**	F **435.70**	F **-10421.**	**.02846**	**.00497**	F **201.18**	**.10416**
Stddev	4.677	.65	22.	.00292	.00294	.90	.00036
%RSD	14.527	.14990	.21485	10.276	59.095	.44796	.34657
#1	26.910	436.22	-10445.	.02890	.00597	201.52	.10378
#2	35.802	435.91	-10415.	.02534	.00166	201.87	.10422
#3	33.870	434.96	-10401.	.03114	.00728	200.16	.10449
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.7043**	**3.9956**	**.01820**	**.49159**	**2.0641**	F **291.57**
Stddev	.0026	.0013	.00178	.00253	.0081	1.39
%RSD	.15276	.03187	9.7942	.51473	.39478	.47511
#1	1.7016	3.9944	.01880	.49316	2.0681	292.13
#2	1.7045	3.9953	.01619	.49295	2.0694	292.58
#3	1.7068	3.9969	.01960	.48868	2.0547	289.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85903.**	**51898.**
Stddev	371.	155.
%RSD	.43232	.29898
#1	85669.	51821.
#2	85709.	51798.
#3	86332.	52077.

Approved: March 01, 2011

Sample Name: L1102042513SD Acquired: 2/25/2011 13:36:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357500-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23420**	**262.62**	**.36314**	**.25180**	**2.9326**	**-.00041**	**344.12**
Stddev	.00062	.82	.00243	.00153	.0050	.00002	1.06
%RSD	.26320	.31383	.67052	.60603	.16946	4.5058	.30937
#1	.23363	262.95	.36571	.25239	2.9292	-.00042	342.91
#2	.23413	263.23	.36283	.25294	2.9383	-.00043	344.54
#3	.23485	261.68	.36087	.25006	2.9303	-.00039	344.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03767**	**.12992**	**.39507**	**4.1441**	**357.45**	**69.307**	**.27917**
Stddev	.00006	.00005	.00133	.0067	.62	.247	.00201
%RSD	.15899	.03722	.33742	.16153	.17285	.35609	.71910
#1	.03770	.12994	.39660	4.1516	356.77	69.023	.27741
#2	.03760	.12996	.39418	4.1421	357.98	69.428	.28135
#3	.03770	.12987	.39442	4.1387	357.59	69.469	.27875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**136.86**	**5.5718**	**.01682**	**1.7965**	**.28371**	F **52546.**	**1.3395**
Stddev	.21	.0289	.00043	.0138	.00091	35.	.0009
%RSD	.15363	.51826	2.5652	.76751	.32102	.06574	.06722
#1	136.62	5.5385	.01675	1.7809	.28348	52510.	1.3390
#2	137.01	5.5862	.01728	1.8070	.28471	52579.	1.3389
#3	136.95	5.5906	.01643	1.8017	.28294	52549.	1.3405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042513SD Acquired: 2/25/2011 13:36:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357500-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **32.190**	F **450.06**	F **-10778.**	**.02386**	**.00972**	F **229.05**	**.15448**
Stddev	8.439	.52	31.	.00108	.00331	1.13	.00008
%RSD	26.216	.11611	.29100	4.5230	34.022	.49129	.04974
#1	22.885	450.53	-10810.	.02388	.00616	229.33	.15456
#2	34.337	450.16	-10777.	.02493	.01031	230.01	.15440
#3	39.348	449.50	-10748.	.02277	.01270	227.81	.15449
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8044**	**5.0940**	**.02008**	**.52858**	**2.1585**	F **310.71**
Stddev	.0025	.0184	.00120	.00053	.0065	.79
%RSD	.13860	.36022	5.9691	.09947	.30309	.25334
#1	1.8040	5.0730	.01898	.52800	2.1657	309.99
#2	1.8071	5.1063	.01990	.52873	2.1569	311.55
#3	1.8021	5.1028	.02136	.52902	2.1529	310.59
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86204.**	**52357.**
Stddev	54.	271.
%RSD	.06286	.51804
#1	86148.	52060.
#2	86256.	52592.
#3	86210.	52419.

Approved: March 01, 2011

Sample Name: L1102042514 Acquired: 2/25/2011 13:39:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02056**	**246.99**	**.11231**	**.21697**	**2.5138**	**.00559**	**631.49**
Stddev	.00045	2.14	.00118	.00094	.0086	.00004	.54
%RSD	2.2041	.86783	1.0474	.43195	.34085	.76143	.08502
#1	.02065	249.30	.11095	.21596	2.5178	.00563	632.02
#2	.02095	245.07	.11292	.21781	2.5196	.00554	630.95
#3	.02006	246.61	.11306	.21713	2.5039	.00560	631.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00537**	**.12710**	**.35604**	**1.2037**	**332.75**	**59.360**	**.29009**
Stddev	.00007	.00038	.00348	.0022	.69	.106	.00056
%RSD	1.3012	.30139	.97829	.17867	.20689	.17921	.19473
#1	.00543	.12695	.35789	1.2062	333.26	59.391	.29064
#2	.00539	.12681	.35203	1.2025	333.04	59.448	.28951
#3	.00529	.12753	.35821	1.2024	331.97	59.242	.29012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**141.22**	**4.6752**	**.00933**	**1.9791**	**.28255**	F **36975.**	**.28611**
Stddev	.21	.0029	.00021	.0080	.00041	223.	.00242
%RSD	.14996	.06086	2.2887	.40367	.14524	.60393	.84509
#1	141.21	4.6757	.00954	1.9818	.28245	36854.	.28450
#2	141.01	4.6778	.00935	1.9855	.28221	36838.	.28494
#3	141.43	4.6721	.00911	1.9702	.28301	37232.	.28889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042514 Acquired: 2/25/2011 13:39:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **31.343**	F **665.56**	F **-6118.3**	**.01409**	**.00558**	F **222.10**	**.02823**
Stddev	3.734	1.16	23.1	.00181	.00575	.91	.00080
%RSD	11.912	.17497	.37700	12.817	102.96	.40925	2.8274
#1	30.704	666.89	-6138.1	.01201	-.00105	221.27	.02819
#2	35.355	665.08	-6093.0	.01499	.00866	221.95	.02745
#3	27.970	664.72	-6124.0	.01528	.00914	223.07	.02904
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9897**	**3.1926**	**.01583**	**.46965**	**.88179**	F **248.90**
Stddev	.0119	.0089	.00064	.00353	.00423	1.39
%RSD	.59836	.28044	4.0511	.75145	.47989	.55848
#1	1.9916	3.2008	.01651	.47218	.88593	249.32
#2	2.0006	3.1940	.01575	.46562	.88196	247.35
#3	1.9770	3.1830	.01524	.47116	.87747	250.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83849.**	**52573.**
Stddev	754.	165.
%RSD	.89948	.31310
#1	83219.	52493.
#2	83644.	52762.
#3	84685.	52463.

Approved: March 01, 2011

Sample Name: L1102042515 Acquired: 2/25/2011 13:43:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02172**	**214.55**	**.10788**	**.18897**	**2.2206**	**.00260**	**698.41**
Stddev	.00066	2.31	.00277	.00065	.0086	.00006	.78
%RSD	3.0175	1.0769	2.5697	.34564	.38960	2.1150	.11207
#1	.02243	216.04	.11096	.18923	2.2115	.00256	697.51
#2	.02114	215.72	.10708	.18823	2.2216	.00266	698.78
#3	.02159	211.89	.10559	.18946	2.2288	.00258	698.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	**.11266**	**.32150**	**.96426**	**310.73**	**50.341**	**.25642**
Stddev	.00001	.00052	.00505	.00310	.95	.180	.00191
%RSD	.29086	.46193	1.5713	.32141	.30494	.35854	.74679
#1	.00425	.11297	.31952	.96682	309.74	50.149	.25709
#2	.00423	.11206	.32724	.96081	310.83	50.368	.25790
#3	.00425	.11296	.31774	.96514	311.63	50.507	.25426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**124.54**	**4.1024**	**.00675**	**1.4260**	**.24482**	F **29531.**	**.17991**
Stddev	.36	.0140	.00007	.0147	.00050	82.	.00270
%RSD	.28880	.33997	1.0026	1.0343	.20600	.27754	1.5020
#1	124.13	4.0930	.00680	1.4168	.24511	29564.	.18260
#2	124.74	4.0958	.00667	1.4182	.24424	29438.	.17720
#3	124.76	4.1184	.00677	1.4430	.24512	29591.	.17993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042515 Acquired: 2/25/2011 13:43:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **27.111**	F **726.42**	F **-4961.7**	**.01123**	**.00362**	F **224.10**	**.01266**
Stddev	5.523	3.09	13.7	.00213	.00488	1.49	.00005
%RSD	20.370	.42512	.27635	18.998	134.87	.66516	.38028
#1	33.480	728.51	-4959.6	.01168	-.00119	225.61	.01268
#2	23.653	722.87	-4949.2	.01309	.00856	224.07	.01269
#3	24.200	727.87	-4976.4	.00890	.00348	222.63	.01260
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2732**	**3.4711**	**.01799**	**.46966**	**.68353**	F **258.35**
Stddev	.0071	.0089	.00142	.00677	.00267	3.49
%RSD	.55603	.25764	7.8782	1.4406	.39109	1.3512
#1	1.2654	3.4673	.01701	.46585	.68551	256.86
#2	1.2748	3.4647	.01962	.47747	.68048	262.33
#3	1.2793	3.4813	.01734	.46565	.68458	255.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86060.**	**52000.**
Stddev	678.	575.
%RSD	.78786	1.1057
#1	85298.	52133.
#2	86598.	51370.
#3	86283.	52496.

Approved: March 01, 2011

Sample Name: L1102042516 Acquired: 2/25/2011 13:47:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02620**	**179.39**	**.11052**	**.19081**	**2.1615**	F **-.00066**	F **1092.8**
Stddev	.00096	1.95	.00059	.00139	.0036	.00003	10.8
%RSD	3.6517	1.0855	.52986	.73061	.16539	4.9745	.99109
#1	.02513	178.66	.11116	.18976	2.1636	-.00064	1080.3
#2	.02648	181.60	.11040	.19239	2.1635	-.00070	1100.0
#3	.02698	177.92	.11001	.19027	2.1574	-.00064	1098.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						4.5000	900.00
Low Limit						-.00050	-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00477**	**.09791**	**.31173**	**.78991**	**291.27**	**38.897**	**.23168**
Stddev	.00004	.00048	.00133	.00272	.71	.095	.00186
%RSD	.91721	.49469	.42740	.34401	.24310	.24388	.80175
#1	.00481	.09746	.31069	.78678	290.62	38.806	.22964
#2	.00477	.09843	.31323	.79159	292.02	38.995	.23327
#3	.00472	.09785	.31126	.79137	291.17	38.889	.23212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**110.94**	**2.9547**	**.00735**	**2.0895**	**.21668**	F **37229.**	**.23164**
Stddev	.37	.0160	.00047	.0193	.00114	80.	.00050
%RSD	.33525	.54123	6.4508	.92456	.52610	.21367	.21749
#1	110.58	2.9388	.00680	2.1032	.21567	37140.	.23106
#2	111.32	2.9708	.00759	2.0978	.21792	37256.	.23193
#3	110.90	2.9546	.00765	2.0674	.21645	37292.	.23193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042516 Acquired: 2/25/2011 13:47:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.787**	F **1183.7**	F **-6576.4**	**.01317**	**.00480**	F **225.94**	**.08050**
Stddev	.103	3.9	16.9	.00264	.00445	3.09	.00022
%RSD	.47323	.32863	.25667	20.058	92.578	1.3691	.27851
#1	21.711	1179.4	-6557.4	.01513	.00990	226.60	.08026
#2	21.904	1186.9	-6581.9	.01422	.00167	228.65	.08053
#3	21.744	1185.0	-6589.8	.01017	.00285	222.57	.08071
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0850**	**3.9537**	**.01654**	**.50445**	**.58713**	F **183.71**
Stddev	.0031	.0113	.00098	.00314	.00199	1.37
%RSD	.14775	.28569	5.9143	.62342	.33948	.74754
#1	2.0886	3.9439	.01755	.50238	.58483	182.91
#2	2.0830	3.9661	.01645	.50807	.58832	185.30
#3	2.0834	3.9511	.01560	.50289	.58824	182.93
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83468.**	**51644.**
Stddev	208.	378.
%RSD	.24913	.73183
#1	83657.	52046.
#2	83502.	51296.
#3	83245.	51590.

Approved: March 01, 2011

Sample Name: L1102042517 Acquired: 2/25/2011 13:51:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01404**	**194.64**	**.15547**	**.17659**	**2.3700**	**.00680**	F **961.32**
Stddev	.00073	1.37	.00535	.00143	.0038	.00004	8.22
%RSD	5.1700	.70427	3.4403	.80919	.15895	.52494	.85530
#1	.01326	194.58	.15917	.17494	2.3661	.00677	957.55
#2	.01415	193.29	.14934	.17752	2.3737	.00679	970.75
#3	.01470	196.03	.15791	.17730	2.3701	.00684	955.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00610**	**.10695**	**.28283**	**1.9152**	**271.56**	**53.167**	**.24801**
Stddev	.00012	.00060	.00229	.0117	.47	.034	.00083
%RSD	1.9171	.55692	.80883	.61089	.17276	.06478	.33557
#1	.00622	.10710	.28183	1.9232	271.04	53.147	.24828
#2	.00599	.10746	.28122	1.9207	271.66	53.147	.24708
#3	.00610	.10629	.28545	1.9018	271.97	53.206	.24868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**121.81**	**3.3151**	**.00801**	**1.9748**	**.23388**	F **41109.**	**.22912**
Stddev	.26	.0093	.00025	.0153	.00111	59.	.00127
%RSD	.21472	.28016	3.1506	.77291	.47626	.14374	.55613
#1	121.63	3.3055	.00830	1.9694	.23506	41086.	.23058
#2	121.68	3.3240	.00787	1.9920	.23372	41176.	.22823
#3	122.11	3.3159	.00785	1.9629	.23285	41064.	.22856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042517 Acquired: 2/25/2011 13:51:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **27.627**	F **1043.3**	F **-7669.2**	**.01667**	**-.00076**	F **274.36**	**.01993**
Stddev	2.478	6.1	47.5	.00175	.00170	2.29	.00036
%RSD	8.9714	.58668	.61929	10.526	223.99	.83644	1.7976
#1	24.979	1044.9	-7719.4	.01869	.00088	276.32	.02034
#2	28.011	1048.4	-7663.3	.01582	-.00064	274.93	.01973
#3	29.891	1036.5	-7624.9	.01550	-.00252	271.83	.01971
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8010**	**2.0406**	**.01066**	**.39961**	**.64583**	F **211.93**
Stddev	.0048	.0055	.00115	.00419	.00644	1.88
%RSD	.26759	.26997	10.830	1.0487	.99766	.88865
#1	1.7959	2.0346	.00939	.39741	.64849	210.70
#2	1.8055	2.0420	.01164	.39698	.65052	210.99
#3	1.8017	2.0454	.01096	.40444	.63849	214.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83865.**	**52118.**
Stddev	680.	351.
%RSD	.81063	.67266
#1	84270.	51719.
#2	83080.	52376.
#3	84245.	52259.

Approved: March 01, 2011

Sample Name: L1102042518 Acquired: 2/25/2011 13:55:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02154**	**262.33**	**.12142**	**.21239**	**3.4370**	**.00670**	F **933.22**
Stddev	.00072	.83	.00307	.00235	.0040	.00011	13.58
%RSD	3.3296	.31800	2.5281	1.1084	.11611	1.6881	1.4552
#1	.02220	263.04	.12401	.21475	3.4362	.00668	948.36
#2	.02163	262.54	.11803	.21237	3.4414	.00659	922.10
#3	.02077	261.41	.12223	.21004	3.4335	.00681	929.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00487**	**.13210**	**.33732**	**1.1023**	**323.54**	**55.574**	**.32769**
Stddev	.00013	.00054	.00282	.0030	.13	.069	.00046
%RSD	2.7621	.41238	.83559	.27283	.04095	.12438	.13892
#1	.00499	.13268	.33829	1.1057	323.48	55.526	.32809
#2	.00472	.13161	.33414	1.1009	323.44	55.544	.32719
#3	.00489	.13201	.33951	1.1002	323.69	55.653	.32779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**149.88**	**4.9559**	**.00850**	**2.1877**	**.28880**	F **28291.**	**.22701**
Stddev	.27	.0049	.00022	.0050	.00145	70.	.00112
%RSD	.17908	.09847	2.5866	.22725	.50380	.24797	.49242
#1	149.75	4.9550	.00875	2.1934	.29047	28280.	.22646
#2	149.70	4.9611	.00840	2.1858	.28778	28366.	.22627
#3	150.19	4.9514	.00834	2.1840	.28815	28227.	.22829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042518 Acquired: 2/25/2011 13:55:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **31.333**	F **1007.9**	F **-6555.6**	**.01219**	**.00349**	F **189.00**	**.01564**
Stddev	1.433	1.3	12.6	.00069	.00250	2.83	.00061
%RSD	4.5745	.12781	.19282	5.6755	71.515	1.4978	3.9291
#1	30.726	1008.3	-6563.4	.01292	.00230	190.06	.01541
#2	30.303	1006.4	-6562.3	.01211	.00636	191.15	.01518
#3	32.970	1008.9	-6541.0	.01154	.00181	185.79	.01634
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.4396**	**3.3320**	**.01641**	**.49141**	**.80917**	F **307.24**
Stddev	.0057	.0047	.00178	.00398	.00182	2.30
%RSD	.23362	.14250	10.830	.81074	.22441	.74926
#1	2.4346	3.3355	.01714	.49287	.81095	307.88
#2	2.4458	3.3339	.01771	.48690	.80732	304.68
#3	2.4385	3.3266	.01439	.49446	.80923	309.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83969.**	**53639.**
Stddev	572.	399.
%RSD	.68108	.74378
#1	84251.	53486.
#2	84344.	54092.
#3	83310.	53340.

Approved: March 01, 2011

Sample Name: L1102042519 Acquired: 2/25/2011 13:59:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08931**	**205.36**	**.17257**	**.19342**	**7.6298**	**.00951**	F **1439.7**
Stddev	.00195	2.81	.00112	.00199	.0045	.00020	13.4
%RSD	2.1853	1.3670	.65122	1.0280	.05909	2.0985	.92743
#1	.09031	207.03	.17155	.19560	7.6294	.00963	1427.1
#2	.09056	206.94	.17378	.19171	7.6344	.00961	1453.7
#3	.08706	202.12	.17239	.19294	7.6254	.00928	1438.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00833**	**.16634**	**.32255**	**2.0660**	**305.06**	**31.573**	**.63255**
Stddev	.00008	.00043	.00683	.0123	.77	.113	.00144
%RSD	.98774	.25836	2.1190	.59361	.25278	.35696	.22717
#1	.00840	.16653	.32557	2.0771	305.17	31.512	.63294
#2	.00834	.16663	.32736	2.0681	305.77	31.703	.63374
#3	.00824	.16584	.31473	2.0529	304.24	31.504	.63095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**221.76**	**8.4743**	**.00933**	**5.0329**	**.31361**	F **59579.**	**.37783**
Stddev	.77	.0300	.00015	.0031	.00163	151.	.00217
%RSD	.34880	.35424	1.5560	.06174	.51860	.25388	.57338
#1	221.98	8.5010	.00928	5.0362	.31419	59620.	.37618
#2	222.41	8.4800	.00949	5.0327	.31486	59705.	.38028
#3	220.90	8.4418	.00922	5.0300	.31177	59411.	.37702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042519 Acquired: 2/25/2011 13:59:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **30.245**	F **1629.7**	F **-9086.1**	**.01528**	**.00225**	F **218.67**	**.01863**
Stddev	6.682	4.0	73.7	.00225	.00162	1.57	.00031
%RSD	22.094	.24430	.81117	14.695	71.962	.71690	1.6806
#1	29.208	1630.8	-9166.0	.01391	.00122	219.83	.01894
#2	24.141	1633.0	-9071.5	.01787	.00412	219.28	.01864
#3	37.385	1625.3	-9020.7	.01406	.00142	216.88	.01832
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **6.7507**	**2.7307**	**.02384**	**.73883**	**1.0901**	F **274.50**
Stddev	.0511	.0061	.00043	.01286	.0054	4.74
%RSD	.75651	.22284	1.7913	1.7401	.49871	1.7265
#1	6.7665	2.7340	.02430	.74487	1.0940	277.37
#2	6.7920	2.7344	.02346	.74755	1.0924	277.09
#3	6.6936	2.7237	.02377	.72407	1.0839	269.03
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	4.5000					45.000
Low Limit	-.01000					-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80669.**	**50244.**
Stddev	298.	929.
%RSD	.36921	1.8490
#1	80977.	49997.
#2	80648.	49464.
#3	80383.	51272.

Approved: March 01, 2011

Sample Name: L1102042520 Acquired: 2/25/2011 14:03:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05434**	**229.14**	**.20106**	**.27537**	**3.6006**	^ *****	F **1176.4**
Stddev	.00039	1.35	.00139	.00058	.0037	-----	15.2
%RSD	.71849	.58941	.69218	.20958	.10133	-----	1.2929
#1	.05395	227.79	.19963	.27574	3.5998	^ -----	1193.2
#2	.05473	230.49	.20112	.27567	3.6045	^ -----	1172.6
#3	.05433	229.12	.20241	.27471	3.5973	^ -----	1163.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00935**	**.13557**	**.34363**	**4.4569**	**333.24**	**46.311**	**.54039**
Stddev	.00002	.00012	.00352	.0113	.18	.064	.00214
%RSD	.24602	.08817	1.0232	.25323	.05342	.13821	.39518
#1	.00938	.13569	.34625	4.4441	333.24	46.318	.54090
#2	.00935	.13546	.34501	4.4616	333.42	46.371	.54222
#3	.00933	.13555	.33964	4.4652	333.06	46.244	.53804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**211.49**	**4.1941**	**.01758**	**3.8042**	**.28316**	F **62215.**	**.34468**
Stddev	.48	.0111	.00022	.0068	.00032	227.	.00119
%RSD	.22842	.26372	1.2540	.17976	.11126	.36457	.34424
#1	211.30	4.2055	.01733	3.8115	.28321	62471.	.34528
#2	212.04	4.1935	.01776	3.7979	.28281	62136.	.34545
#3	211.14	4.1834	.01764	3.8032	.28344	62038.	.34331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042520 Acquired: 2/25/2011 14:03:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **24.276**	F **1422.7**	F **-17333.**	**.00996**	**.01376**	F **205.35**	**.02223**
Stddev	7.816	1.6	30.	.00247	.00301	2.77	.00007
%RSD	32.199	.11010	.17526	24.771	21.873	1.3513	.33676
#1	33.144	1421.4	-17303.	.00818	.01391	208.36	.02221
#2	18.387	1422.3	-17364.	.01278	.01068	204.78	.02231
#3	21.297	1424.4	-17332.	.00893	.01670	202.90	.02216
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.9170**	**8.1795**	**.02616**	**.65780**	**.77171**	F **216.26**
Stddev	.0023	.0038	.00054	.00448	.00397	1.03
%RSD	.05809	.04635	2.0745	.68086	.51453	.47854
#1	3.9148	8.1831	.02625	.66156	.76734	216.81
#2	3.9168	8.1799	.02665	.65898	.77267	216.91
#3	3.9193	8.1756	.02557	.65284	.77510	215.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81948.**	**50746.**
Stddev	416.	390.
%RSD	.50818	.76800
#1	82363.	50446.
#2	81951.	50606.
#3	81530.	51186.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 14:06:54 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43565**	F **11.464**	**.40702**	**.52661**	**1.0090**	**.05436**	**10.151**
Stddev	.00387	.110	.00324	.00365	.0014	.00035	.042
%RSD	.88781	.95560	.79653	.69349	.14378	.63963	.41537
#1	.43906	11.562	.40837	.52716	1.0102	.05473	10.194
#2	.43145	11.346	.40936	.52272	1.0093	.05404	10.150
#3	.43644	11.484	.40332	.52996	1.0073	.05431	10.110
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		10.000					
Range		10.000%					

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05370**	**.20901**	**.54002**	**.50227**	**3.9548**	**52.349**	**1.0191**
Stddev	.00014	.00030	.00333	.00089	.0038	.154	.0030
%RSD	.25231	.14171	.61670	.17658	.09610	.29433	.29481
#1	.05355	.20869	.54375	.50324	3.9547	52.527	1.0171
#2	.05379	.20907	.53736	.50149	3.9510	52.264	1.0226
#3	.05377	.20927	.53894	.50209	3.9586	52.256	1.0176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.285**	**.46740**	**.99904**	**51.270**	**.51267**	F **5.8188**	**.51897**
Stddev	.042	.00201	.00098	.073	.00036	18.768	.00013
%RSD	.40546	.43068	.09782	.14200	.07024	322.54	.02432
#1	10.331	.46962	1.0002	51.320	.51239	14.500	.51889
#2	10.250	.46688	.99847	51.304	.51307	-15.718	.51912
#3	10.276	.46570	.99848	51.187	.51254	18.675	.51891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 14:06:54 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-9.5453**	**10.204**	F **23.144**	**1.2229**	**.40308**	F **4.2228**	**1.0315**
Stddev	6.3403	.043	4.252	.0006	.00083	.1284	.0012
%RSD	66.423	.42436	18.372	.05108	.20471	3.0402	.11234
#1	-11.705	10.202	21.081	1.2233	.40295	4.1546	1.0303
#2	-2.4074	10.162	20.318	1.2232	.40396	4.1429	1.0326
#3	-14.524	10.248	28.035	1.2221	.40232	4.3709	1.0318
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96100**	**.97980**	**.53655**	**1.0345**	**.96836**	F **1.9163**
Stddev	.00181	.00070	.00176	.0078	.00132	.3288
%RSD	.18874	.07112	.32783	.75695	.13641	17.160
#1	.96079	.97939	.53497	1.0429	.96959	1.5745
#2	.96291	.98060	.53623	1.0273	.96852	1.9441
#3	.95930	.97940	.53845	1.0334	.96696	2.2304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91611.**	**50659.**
Stddev	431.	383.
%RSD	.47094	.75612
#1	92106.	50237.
#2	91416.	50984.
#3	91313.	50756.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 14:10:32 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**.00167**	**.00214**	**.00259**	**-.00007**	**-.00008**	**-.00681**
Stddev	.00049	.00145	.00116	.00224	.00039	.00003	.01732
%RSD	25.633	87.094	54.365	86.365	587.70	31.573	254.25
#1	.00225	.00320	.00345	.00497	.00001	-.00010	.00019
#2	.00135	.00149	.00126	.00052	-.00049	-.00005	.00591
#3	.00212	.00031	.00170	.00229	.00028	-.00009	-.02653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00002**	**.00046**	**.00020**	**-.00150**	**.06188**	**-.00013**
Stddev	.00002	.00014	.00027	.00070	.00407	.01275	.00144
%RSD	35.687	758.02	59.820	351.88	270.87	20.607	1078.4
#1	-.00007	.00008	.00019	-.00061	.00299	.07523	.00138
#2	-.00007	-.00015	.00045	.00055	-.00257	.06059	-.00148
#3	-.00004	.00012	.00074	.00065	-.00493	.04983	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01281**	**.00193**	**.00076**	**.01457**	**-.00042**	F **-10.870**	**-.00212**
Stddev	.02135	.00063	.00022	.01169	.00056	17.267	.00120
%RSD	166.69	32.622	28.531	80.285	133.37	158.86	56.448
#1	-.03630	.00222	.00084	.00960	.00017	-11.209	-.00074
#2	.00544	.00237	.00093	.00617	-.00048	6.5652	-.00273
#3	-.00758	.00121	.00052	.02792	-.00096	-27.964	-.00289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 14:10:32 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **15.234**	F **.01850**	F **1.2996**	**.00279**	**-.00174**	**.11313**	**.00062**
Stddev	6.844	.01623	.5323	.00210	.00366	.13607	.00023
%RSD	44.926	87.707	40.962	75.310	209.88	120.28	36.805
#1	12.246	.02790	.72640	.00062	.00241	.24679	.00036
#2	23.064	-.00024	1.3938	.00295	-.00314	-.02524	.00070
#3	10.392	.02784	1.7785	.00481	-.00450	.11785	.00078
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00013**	**.00024**	**-.00004**	**-.00014**	F **-.21111**
Stddev	.00003	.00048	.00087	.00015	.00003	.31266
%RSD	36.462	376.56	367.73	372.19	18.196	148.10
#1	-.00010	-.00030	-.00073	.00000	-.00017	-.48070
#2	-.00009	-.00050	.00049	.00009	-.00012	-.28427
#3	-.00005	.00041	.00095	-.00021	-.00013	.13163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92159.**	**52221.**
Stddev	233.	96.
%RSD	.25319	.18472
#1	92422.	52328.
#2	92077.	52196.
#3	91977.	52140.

Approved: March 01, 2011

Sample Name: L1102042521 Acquired: 2/25/2011 14:14:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04279**	**213.62**	**.19540**	**.26251**	**2.8956**	F **-.00494**	F **1320.9**
Stddev	.00058	3.12	.00387	.00096	.0049	.00001	4.3
%RSD	1.3521	1.4594	1.9794	.36721	.16972	.29958	.32575
#1	.04282	216.86	.19203	.26356	2.8990	-.00492	1322.3
#2	.04219	213.37	.19454	.26167	2.8900	-.00494	1324.3
#3	.04335	210.64	.19962	.26228	2.8978	-.00495	1316.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						4.5000	900.00
Low Limit						-.00050	-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00643**	**.12360**	**.33699**	**2.4852**	**317.74**	**48.315**	**.40457**
Stddev	.00018	.00011	.00077	.0058	.08	.136	.00127
%RSD	2.8385	.08704	.22815	.23220	.02607	.28142	.31431
#1	.00658	.12353	.33739	2.4892	317.69	48.185	.40574
#2	.00623	.12355	.33610	2.4880	317.68	48.456	.40475
#3	.00649	.12372	.33748	2.4786	317.83	48.302	.40322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**179.41**	**3.7658**	**.01194**	**3.3270**	**.27221**	F **58286.**	**.25851**
Stddev	.44	.0120	.00036	.0125	.00105	101.	.00098
%RSD	.24425	.31766	2.9874	.37682	.38456	.17246	.37756
#1	178.90	3.7630	.01205	3.3391	.27127	58332.	.25752
#2	179.64	3.7790	.01154	3.3140	.27333	58171.	.25853
#3	179.67	3.7555	.01223	3.3279	.27202	58355.	.25947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042521 Acquired: 2/25/2011 14:14:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **35.343**	F **1662.6**	F **-18532.**	**.01252**	**.01079**	F **196.89**	**.02418**
Stddev	2.422	1.3	146.	.00228	.00029	1.11	.00049
%RSD	6.8526	.07981	.78709	18.184	2.6573	.56372	2.0230
#1	35.372	1661.1	-18646.	.01261	.01103	197.35	.02362
#2	37.750	1663.4	-18582.	.01019	.01047	197.70	.02440
#3	32.907	1663.4	-18367.	.01474	.01085	195.62	.02452
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.1134**	**6.5162**	**.02169**	**.64397**	**.68096**	F **205.06**
Stddev	.0203	.0165	.00244	.00271	.00140	.75
%RSD	.49374	.25343	11.263	.42155	.20546	.36786
#1	4.1271	6.5240	.02397	.64372	.68034	205.42
#2	4.0900	6.5273	.01911	.64138	.68256	204.19
#3	4.1229	6.4972	.02201	.64680	.67997	205.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**80868.**	**52936.**
Stddev	640.	123.
%RSD	.79137	.23222
#1	81531.	52921.
#2	80821.	52822.
#3	80253.	53066.

Approved: March 01, 2011

Sample Name: L1102042522 Acquired: 2/25/2011 14:18:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02143**	**212.64**	**.11765**	**.18541**	**2.6545**	**.00378**	F **1249.8**
Stddev	.00019	2.76	.00287	.00065	.0119	.00005	5.3
%RSD	.87039	1.2985	2.4405	.35201	.44952	1.2394	.42132
#1	.02126	214.29	.11435	.18489	2.6411	.00374	1243.7
#2	.02140	214.19	.11959	.18614	2.6640	.00377	1252.7
#3	.02163	209.46	.11901	.18520	2.6584	.00383	1253.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00493**	**.10462**	**.29461**	**1.2463**	**259.57**	**42.209**	**.26797**
Stddev	.00005	.00020	.00247	.0023	1.26	.208	.00031
%RSD	.96197	.18687	.83712	.18511	.48421	.49169	.11410
#1	.00490	.10484	.29557	1.2489	258.14	41.972	.26825
#2	.00491	.10455	.29646	1.2455	260.50	42.360	.26801
#3	.00499	.10447	.29181	1.2444	260.08	42.294	.26764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**122.18**	**3.5493**	**.00811**	**2.2368**	**.22935**	F **31172.**	**.17900**
Stddev	.40	.0292	.00030	.0251	.00056	111.	.00124
%RSD	.33051	.82166	3.6711	1.1203	.24407	.35612	.69344
#1	121.72	3.5156	.00809	2.2186	.22989	31185.	.17954
#2	122.33	3.5657	.00842	2.2263	.22938	31275.	.17758
#3	122.48	3.5666	.00783	2.2653	.22877	31055.	.17988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042522 Acquired: 2/25/2011 14:18:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **28.899**	F **1386.9**	F **-7411.5**	**.01550**	**.00101**	F **220.81**	**.01159**
Stddev	7.165	.5	16.7	.00279	.00494	4.63	.00006
%RSD	24.792	.03329	.22510	18.025	490.62	2.0946	.54619
#1	30.408	1387.3	-7423.8	.01869	.00671	221.37	.01166
#2	35.189	1387.1	-7392.5	.01436	-.00162	225.13	.01155
#3	21.100	1386.4	-7418.1	.01346	-.00207	215.93	.01155
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.4505**	**3.1552**	**.01419**	**.45873**	**.61035**	F **196.96**
Stddev	.0164	.0153	.00224	.00398	.00144	1.77
%RSD	.67084	.48335	15.793	.86773	.23576	.89838
#1	2.4333	3.1381	.01658	.45950	.61200	197.88
#2	2.4660	3.1601	.01387	.46226	.60935	198.07
#3	2.4523	3.1674	.01213	.45442	.60970	194.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81903.**	**50859.**
Stddev	170.	195.
%RSD	.20701	.38274
#1	81927.	51031.
#2	82059.	50648.
#3	81723.	50897.

Approved: March 01, 2011

Sample Name: L1102042523 Acquired: 2/25/2011 14:22:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02749**	**215.91**	**.12316**	**.19395**	**3.2232**	**.00102**	F **1500.4**
Stddev	.00032	5.96	.00332	.00129	.0049	.00005	15.1
%RSD	1.1797	2.7583	2.6949	.66436	.15175	4.5472	1.0042
#1	.02712	218.50	.12699	.19259	3.2288	.00099	1517.7
#2	.02761	209.10	.12141	.19516	3.2200	.00107	1489.9
#3	.02774	220.14	.12109	.19409	3.2208	.00099	1493.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00508**	**.11160**	**.29661**	**.87128**	**265.62**	**41.109**	**.30493**
Stddev	.00001	.00049	.00776	.00295	.54	.137	.00182
%RSD	.12132	.43607	2.6148	.33829	.20406	.33293	.59541
#1	.00508	.11192	.29563	.87331	265.58	41.028	.30691
#2	.00507	.11184	.28939	.87264	265.10	41.032	.30336
#3	.00508	.11104	.30480	.86790	266.18	41.267	.30451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**142.64**	**4.1061**	**.00562**	**2.1093**	**.23753**	F **28712.**	**.19895**
Stddev	.66	.0139	.00033	.0107	.00060	63.	.00354
%RSD	.46606	.33816	5.8872	.50927	.25137	.21834	1.7791
#1	142.43	4.1217	.00553	2.1054	.23812	28761.	.19964
#2	142.11	4.0951	.00535	2.1011	.23755	28733.	.20210
#3	143.38	4.1015	.00599	2.1215	.23693	28641.	.19512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042523 Acquired: 2/25/2011 14:22:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **28.275**	F **1664.8**	F **-6621.4**	**.01241**	**.00383**	F **212.93**	**.01358**
Stddev	2.841	5.1	11.7	.00343	.00258	3.31	.00053
%RSD	10.047	.30847	.17699	27.671	67.572	1.5557	3.9078
#1	31.187	1670.0	-6634.9	.00857	.00314	215.39	.01419
#2	28.126	1664.9	-6615.6	.01348	.00165	214.24	.01329
#3	25.511	1659.7	-6613.7	.01518	.00669	209.17	.01326
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.2911**	**4.2319**	**.01485**	**.47639**	**.68371**	F **240.67**
Stddev	.0101	.0070	.00167	.01321	.00248	6.36
%RSD	.30610	.16493	11.264	2.7723	.36273	2.6412
#1	3.3026	4.2397	.01676	.47467	.68593	239.88
#2	3.2866	4.2262	.01411	.46413	.68418	234.75
#3	3.2840	4.2298	.01366	.49037	.68103	247.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81095.**	**49869.**
Stddev	436.	588.
%RSD	.53782	1.1786
#1	80718.	49830.
#2	80993.	50476.
#3	81573.	49302.

Approved: March 01, 2011

Sample Name: L1102042524 Acquired: 2/25/2011 14:25:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01693**	**180.79**	**.17783**	**.16450**	**2.4586**	**.00482**	F **1063.3**
Stddev	.00017	.77	.00224	.00142	.0037	.00003	15.8
%RSD	.99927	.42728	1.2608	.86261	.14913	.64374	1.4878
#1	.01689	180.69	.18040	.16288	2.4593	.00485	1079.8
#2	.01712	181.61	.17677	.16553	2.4619	.00482	1048.3
#3	.01678	180.07	.17631	.16508	2.4547	.00479	1062.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00713**	**.09805**	**.23879**	**4.5118**	**231.34**	**46.533**	**.23539**
Stddev	.00002	.00018	.00280	.0099	.21	.068	.00318
%RSD	.33304	.18682	1.1713	.21981	.09283	.14567	1.3527
#1	.00716	.09822	.24096	4.5228	231.36	46.507	.23801
#2	.00712	.09809	.23563	4.5036	231.55	46.482	.23185
#3	.00712	.09786	.23977	4.5089	231.12	46.610	.23631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**123.93**	**3.5543**	**.01525**	**1.4481**	**.20843**	F **37365.**	**.28521**
Stddev	.24	.0109	.00029	.0057	.00030	17.	.00081
%RSD	.19638	.30682	1.8771	.39698	.14505	.04671	.28240
#1	124.06	3.5547	.01507	1.4416	.20871	37374.	.28468
#2	123.65	3.5650	.01511	1.4503	.20849	37377.	.28481
#3	124.08	3.5432	.01558	1.4525	.20811	37345.	.28613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042524 Acquired: 2/25/2011 14:25:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **19.906**	F **1182.6**	F **-10318.**	**.01804**	**.00408**	F **190.76**	**.01392**
Stddev	3.413	1.6	44.	.00379	.00157	1.90	.00001
%RSD	17.147	.13739	.42867	21.017	38.548	.99689	.06187
#1	17.223	1184.2	-10351.	.01993	.00535	192.64	.01392
#2	23.748	1180.9	-10268.	.02052	.00458	190.81	.01391
#3	18.748	1182.7	-10336.	.01368	.00232	188.84	.01393
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.4197**	**2.2325**	**.01066**	**.35473**	**.60779**	F **193.36**
Stddev	.0106	.0036	.00169	.00216	.00210	1.16
%RSD	.43872	.16231	15.809	.60977	.34630	.60144
#1	2.4131	2.2320	.01231	.35707	.60962	194.69
#2	2.4319	2.2291	.01073	.35281	.60549	192.83
#3	2.4140	2.2363	.00895	.35430	.60826	192.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83280.**	**50770.**
Stddev	173.	245.
%RSD	.20747	.48331
#1	83099.	50666.
#2	83297.	51051.
#3	83443.	50595.

Approved: March 01, 2011

Sample Name: L1102042525 Acquired: 2/25/2011 14:29:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05430**	**182.64**	**.18992**	**.23623**	**3.7191**	^ *****	F **1229.4**
Stddev	.00036	1.26	.00339	.00192	.0049	-----	4.3
%RSD	.66989	.68746	1.7864	.81187	.13242	-----	.35381
#1	.05422	182.98	.18765	.23811	3.7247	^ -----	1225.5
#2	.05399	181.25	.18829	.23427	3.7168	^ -----	1228.6
#3	.05470	183.69	.19382	.23630	3.7157	^ -----	1234.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02173**	**.13433**	**.30353**	**11.614**	**298.08**	**47.663**	**.50071**
Stddev	.00012	.00043	.00283	.049	.47	.106	.00143
%RSD	.55604	.32066	.93251	.41786	.15862	.22282	.28565
#1	.02185	.13404	.30270	11.653	298.01	47.611	.50192
#2	.02161	.13483	.30121	11.628	297.64	47.593	.50107
#3	.02173	.13413	.30669	11.559	298.58	47.785	.49913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**228.33**	**4.0167**	**.06783**	**3.1451**	**.28506**	F **84645.**	**1.1705**
Stddev	.64	.0105	.00057	.0208	.00034	114.	.0058
%RSD	.27984	.26193	.84082	.66225	.12092	.13467	.49546
#1	227.76	4.0143	.06824	3.1543	.28467	84775.	1.1770
#2	228.22	4.0076	.06806	3.1212	.28530	84599.	1.1687
#3	229.02	4.0282	.06718	3.1596	.28522	84561.	1.1658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042525 Acquired: 2/25/2011 14:29:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **25.616**	F **1621.5**	F **-26552.**	**.01531**	**.01428**	F **172.39**	**.04844**
Stddev	1.807	5.8	87.	.00151	.00536	1.12	.00024
%RSD	7.0539	.35627	.32644	9.8629	37.554	.64885	.49251
#1	25.136	1626.5	-26596.	.01428	.01816	172.94	.04861
#2	24.097	1622.8	-26609.	.01462	.00816	173.13	.04854
#3	27.614	1615.2	-26452.	.01705	.01652	171.11	.04817
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.6346**	**7.6482**	**.02374**	**.53374**	**1.5859**	F **173.11**
Stddev	.0071	.0176	.00248	.00370	.0098	1.20
%RSD	.19505	.22960	10.456	.69387	.61758	.69224
#1	3.6428	7.6531	.02150	.53178	1.5938	172.56
#2	3.6305	7.6287	.02332	.53142	1.5889	172.29
#3	3.6305	7.6628	.02641	.53801	1.5749	174.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**81718.**	**50910.**
Stddev	415.	180.
%RSD	.50782	.35379
#1	81239.	51052.
#2	81951.	50970.
#3	81964.	50707.

Approved: March 01, 2011

Sample Name: L1102042526 Acquired: 2/25/2011 14:33:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02409**	**236.06**	**.16167**	**.23238**	**2.6620**	**.00356**	F **955.62**
Stddev	.00021	3.66	.00025	.00187	.0087	.00006	5.46
%RSD	.87232	1.5499	.15635	.80670	.32750	1.7690	.57131
#1	.02385	231.87	.16153	.23026	2.6525	.00349	954.12
#2	.02422	237.71	.16196	.23383	2.6695	.00362	961.67
#3	.02420	238.61	.16152	.23304	2.6640	.00357	951.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00628**	**.12067**	**.34097**	**1.9980**	**317.86**	**59.589**	**.28269**
Stddev	.00012	.00047	.01081	.0036	1.82	.279	.00130
%RSD	1.9624	.38717	3.1703	.17937	.57358	.46833	.46024
#1	.00635	.12109	.32864	2.0011	315.85	59.269	.28131
#2	.00636	.12076	.34544	1.9989	319.41	59.718	.28286
#3	.00614	.12017	.34882	1.9941	318.32	59.780	.28390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**137.79**	**4.2613**	**.00812**	**1.7292**	**.26623**	F **40020.**	**.34456**
Stddev	1.20	.0238	.00017	.0207	.00081	55.	.00261
%RSD	.87302	.55821	2.0459	1.1993	.30271	.13782	.75659
#1	136.42	4.2339	.00831	1.7059	.26680	40036.	.34685
#2	138.66	4.2746	.00802	1.7458	.26659	40066.	.34512
#3	138.29	4.2756	.00803	1.7359	.26531	39959.	.34173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042526 Acquired: 2/25/2011 14:33:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **25.544**	F **1059.3**	F **-8866.3**	**.01752**	**.00539**	F **197.79**	**.33426**
Stddev	6.482	2.0	10.7	.00089	.00732	3.76	.00141
%RSD	25.377	.19316	.12028	5.0794	135.85	1.9008	.42158
#1	25.636	1061.5	-8870.3	.01684	-.00236	201.05	.33560
#2	31.980	1059.2	-8874.5	.01720	.00633	198.63	.33438
#3	19.016	1057.4	-8854.3	.01853	.01219	193.68	.33279
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.4508**	**3.4576**	**.01647**	**.48113**	**.81337**	F **241.71**
Stddev	.0125	.0163	.00042	.01425	.00165	7.58
%RSD	.50876	.47056	2.5545	2.9620	.20311	3.1377
#1	2.4378	3.4388	.01605	.46468	.81444	232.98
#2	2.4627	3.4672	.01689	.48924	.81421	245.50
#3	2.4518	3.4667	.01647	.48948	.81147	246.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83015.**	**50224.**
Stddev	609.	955.
%RSD	.73368	1.9012
#1	82425.	51320.
#2	82980.	49573.
#3	83641.	49779.

Approved: March 01, 2011

Sample Name: L1102042527 Acquired: 2/25/2011 14:37:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01245**	**197.72**	**.13559**	**.18962**	**2.1971**	**.00757**	**497.09**
Stddev	.00012	2.77	.00101	.00203	.0055	.00007	.91
%RSD	.95148	1.4015	.74276	1.0720	.24935	.98608	.18349
#1	.01253	198.97	.13493	.19167	2.2024	.00761	496.16
#2	.01231	199.64	.13509	.18960	2.1973	.00762	497.99
#3	.01250	194.54	.13675	.18760	2.1915	.00749	497.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00753**	**.11058**	**.32394**	**4.0678**	**304.02**	**54.222**	**.22432**
Stddev	.00003	.00004	.00320	.0072	.83	.123	.00048
%RSD	.43032	.03497	.98804	.17752	.27437	.22627	.21326
#1	.00754	.11061	.32406	4.0597	304.19	54.295	.22438
#2	.00756	.11060	.32709	4.0735	304.76	54.290	.22382
#3	.00750	.11054	.32069	4.0702	303.12	54.080	.22477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**109.75**	**3.7694**	**.01941**	**1.4569**	**.23692**	F **42408.**	**.48246**
Stddev	.45	.0097	.00008	.0107	.00062	5.	.00056
%RSD	.41268	.25655	.43416	.73768	.26345	.01202	.11590
#1	109.45	3.7587	.01931	1.4681	.23620	42414.	.48190
#2	110.27	3.7777	.01943	1.4466	.23726	42407.	.48302
#3	109.53	3.7717	.01947	1.4560	.23731	42405.	.48246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042527 Acquired: 2/25/2011 14:37:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **22.567**	F **602.18**	F **-11075.**	**.01881**	**.00730**	F **247.90**	**.04564**
Stddev	3.715	.92	46.	.00112	.00212	2.09	.00009
%RSD	16.460	.15217	.41513	5.9772	29.070	.84187	.20303
#1	18.505	601.33	-11030.	.01778	.00515	249.65	.04566
#2	25.792	603.15	-11122.	.02001	.00939	248.47	.04572
#3	23.404	602.05	-11072.	.01863	.00737	245.59	.04554
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3687**	**1.5848**	**.01537**	**.45293**	**1.1548**	F **224.28**
Stddev	.0086	.0039	.00107	.00413	.0030	2.46
%RSD	.62931	.24708	6.9474	.91186	.25791	1.0976
#1	1.3750	1.5829	.01476	.45276	1.1521	225.27
#2	1.3723	1.5893	.01660	.45715	1.1580	226.09
#3	1.3589	1.5822	.01475	.44889	1.1543	221.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84777.**	**50949.**
Stddev	35.	454.
%RSD	.04159	.89047
#1	84791.	50873.
#2	84737.	50539.
#3	84804.	51436.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 14:41:18 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43851**	F **11.670**	**.40369**	**.53035**	**1.0135**	**.05490**	**10.186**
Stddev	.00493	.101	.00133	.00790	.0017	.00065	.016
%RSD	1.1243	.86435	.33058	1.4892	.16849	1.1768	.16095
#1	.43284	11.558	.40241	.52124	1.0154	.05416	10.169
#2	.44180	11.698	.40507	.53447	1.0120	.05522	10.202
#3	.44088	11.754	.40358	.53534	1.0130	.05533	10.187
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		10.000					
Range		10.000%					

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05318**	**.20839**	**.54409**	**.49974**	**3.9473**	**52.987**	**1.0285**
Stddev	.00018	.00044	.00598	.00057	.0251	.159	.0031
%RSD	.33638	.21269	1.0989	.11408	.63598	.30000	.29684
#1	.05305	.20789	.53741	.49913	3.9755	52.909	1.0310
#2	.05310	.20872	.54591	.50026	3.9388	52.883	1.0295
#3	.05338	.20856	.54894	.49983	3.9275	53.170	1.0251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.298**	**.46337**	**.98998**	**51.733**	**.50897**	F **19.463**	**.51472**
Stddev	.085	.00083	.00124	.038	.00043	11.758	.00060
%RSD	.82660	.17985	.12554	.07312	.08355	60.410	.11666
#1	10.255	.46315	.98864	51.761	.50849	32.226	.51425
#2	10.243	.46429	.99109	51.690	.50917	9.0721	.51450
#3	10.396	.46267	.99023	51.749	.50926	17.092	.51539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 14:41:18 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-2.5470**	**10.300**	F **19.473**	**1.2135**	**.39694**	F **4.0971**	**1.0276**
Stddev	10.603	.018	3.817	.0046	.00416	.0362	.0020
%RSD	416.31	.17837	19.603	.37775	1.0470	.88299	.19068
#1	1.7822	10.317	22.635	1.2082	.39661	4.1292	1.0261
#2	5.2069	10.281	20.551	1.2156	.40125	4.1043	1.0298
#3	-14.630	10.301	15.232	1.2166	.39296	4.0579	1.0269
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96264**	**.97242**	**.53663**	**1.0374**	**.97012**	F **2.3909**
Stddev	.00253	.00139	.00044	.0131	.00183	.7176
%RSD	.26334	.14266	.08182	1.2618	.18887	30.016
#1	.96548	.97280	.53648	1.0223	.96917	1.5641
#2	.96061	.97358	.53713	1.0442	.97224	2.8530
#3	.96182	.97088	.53629	1.0456	.96896	2.7555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89055.**	**49497.**
Stddev	356.	724.
%RSD	.39941	1.4621
#1	88656.	50299.
#2	89168.	49302.
#3	89340.	48891.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 14:44:56 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00225**	**.00825**	**.00066**	**.00141**	**.00021**	**-.00008**	**-.01274**
Stddev	.00082	.00190	.00077	.00119	.00026	.00003	.01281
%RSD	36.283	22.994	115.45	84.431	123.59	31.504	100.54
#1	.00311	.00626	.00030	.00215	.00029	-.00007	-.00667
#2	.00149	.00844	.00155	.00004	.00041	-.00007	-.00410
#3	.00215	.01004	.00015	.00205	-.00008	-.00011	-.02746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00003**	**.00031**	**.00043**	**.00380**	**.09353**	**-.00509**
Stddev	.00010	.00014	.00048	.00064	.00446	.02111	.00049
%RSD	2507.1	517.05	153.17	147.96	117.37	22.568	9.6145
#1	.00011	.00001	.00031	.00078	.00883	.11167	-.00560
#2	-.00002	.00009	.00080	-.00031	.00028	.09857	-.00506
#3	-.00008	-.00018	-.00017	.00082	.00230	.07036	-.00462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01734**	**.00156**	**.00065**	**.04367**	**-.00075**	F **3.8964**	**-.00131**
Stddev	.01627	.00076	.00009	.00988	.00066	8.6852	.00214
%RSD	93.850	48.634	13.262	22.628	88.603	222.90	163.67
#1	-.03501	.00068	.00056	.03778	-.00119	-6.1078	-.00377
#2	-.01406	.00198	.00073	.05508	-.00107	8.2909	-.00020
#3	-.00296	.00200	.00066	.03815	.00001	9.5062	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 14:44:56 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-5.9970**	F **-.02262**	F **7.5583**	**.00264**	**-.00261**	**-.02463**	**.00058**
Stddev	5.4930	.02190	.4854	.00064	.00171	.08229	.00033
%RSD	91.595	96.832	6.4224	24.453	65.526	334.13	57.061
#1	-3.3652	-.04543	8.0261	.00313	-.00211	-.11793	.00023
#2	-2.3152	-.02067	7.5919	.00287	-.00121	.03761	.00063
#3	-12.311	-.00176	7.0570	.00191	-.00452	.00644	.00089
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00012**	**.00026**	**-.00026**	**-.00013**	**-.08757**
Stddev	.00003	.00157	.00061	.00038	.00013	.10353
%RSD	23.870	1296.0	233.88	144.34	103.59	118.22
#1	-.00014	-.00140	.00030	-.00009	-.00016	-.03704
#2	-.00014	.00001	.00086	.00000	-.00024	-.01901
#3	-.00009	.00175	-.00037	-.00070	.00002	-.20666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**94123.**	**50639.**
Stddev	131.	295.
%RSD	.13964	.58347
#1	93986.	50362.
#2	94135.	50950.
#3	94247.	50605.

Approved: March 01, 2011

Sample Name: PBS 45 Acquired: 2/25/2011 14:48:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357587-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**-.00348**	**-.00142**	**.00305**	**-.00055**	**-.00006**	**.05243**
Stddev	.00057	.00298	.00092	.00077	.00021	.00002	.00556
%RSD	29.660	85.503	64.405	25.278	38.665	27.212	10.605
#1	.00225	-.00036	-.00226	.00323	-.00057	-.00008	.04623
#2	.00228	-.00629	-.00157	.00221	-.00076	-.00004	.05408
#3	.00127	-.00379	-.00044	.00372	-.00033	-.00006	.05698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00055**	**.00087**	**.00051**	**.01466**	**.00931**	**-.00230**
Stddev	.00005	.00005	.00003	.00019	.00051	.03359	.00094
%RSD	27.502	9.5570	3.1245	37.498	3.4621	360.92	40.839
#1	.00015	-.00056	.00090	.00055	.01524	.04558	-.00135
#2	.00025	-.00059	.00085	.00030	.01431	.00304	-.00232
#3	.00017	-.00049	.00086	.00067	.01443	-.02071	-.00323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00117**	**.00011**	**.00045**	**.06872**	**.00095**	F **-40.420**	**-.00123**
Stddev	.00895	.00096	.00025	.01301	.00048	7.650	.00112
%RSD	767.04	893.59	55.919	18.924	50.202	18.927	91.135
#1	-.00506	-.00094	.00073	.05575	.00041	-32.493	-.00078
#2	.01143	.00094	.00039	.08176	.00133	-41.007	-.00250
#3	-.00287	.00033	.00024	.06866	.00110	-47.760	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: PBS 45 Acquired: 2/25/2011 14:48:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357587-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.535**	**.11844**	F **-1.2727**	**.00646**	**.00027**	**2.2733**	**.00074**
Stddev	12.796	.05847	1.5999	.00074	.00174	.0696	.00030
%RSD	102.08	49.369	125.71	11.387	644.98	3.0623	40.858
#1	2.3575	.16291	.47313	.00731	.00202	2.2075	.00044
#2	26.900	.05221	-2.6689	.00602	.00026	2.3462	.00105
#3	8.3477	.14021	-1.6224	.00606	-.00147	2.2663	.00072
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00016**	**-.00109**	**-.00013**	**.00188**	**.74524**
Stddev	.00012	.00184	.00058	.00068	.00009	.46392
%RSD	127.75	1164.5	52.997	540.69	5.0106	62.251
#1	.00004	.00009	-.00051	-.00070	.00190	.29321
#2	.00002	.00204	-.00167	.00062	.00197	.72232
#3	.00024	-.00165	-.00109	-.00030	.00178	1.2202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91938.**	**52535.**
Stddev	198.	531.
%RSD	.21487	1.0115
#1	91710.	52128.
#2	92062.	53136.
#3	92042.	52341.

Approved: March 01, 2011

Sample Name: LCSS 45 Acquired: 2/25/2011 14:52:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357587-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20480**	**-.00096**	**.18718**	**.00196**	**-.00014**	**-.00005**	**.02604**
Stddev	.00156	.00449	.00127	.00059	.00032	.00001	.00769
%RSD	.76023	466.17	.67948	29.919	233.38	18.292	29.512
#1	.20646	.00407	.18779	.00206	-.00036	-.00006	.02945
#2	.20456	-.00242	.18572	.00133	-.00028	-.00004	.03144
#3	.20338	-.00454	.18803	.00249	.00023	-.00006	.01724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02548**	**-.00035**	**.00114**	**.24463**	**.00527**	**.04784**	**-.00584**
Stddev	.00015	.00020	.00048	.00051	.00728	.06440	.00156
%RSD	.59855	58.444	42.654	.20867	138.11	134.63	26.650
#1	.02531	-.00045	.00100	.24496	-.00107	.06242	-.00414
#2	.02560	-.00011	.00168	.24405	.00366	-.02261	-.00720
#3	.02554	-.00048	.00074	.24489	.01323	.10370	-.00618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02725**	**.23261**	**.00028**	**.05858**	**.00077**	F **-40.386**	**.25884**
Stddev	.01673	.00064	.00025	.01302	.00047	17.247	.00227
%RSD	61.400	.27578	91.140	22.217	61.438	42.705	.87629
#1	-.00918	.23240	.00055	.06152	.00088	-60.091	.25979
#2	-.03038	.23333	.00022	.06988	.00119	-33.033	.25625
#3	-.04220	.23210	.00006	.04435	.00025	-28.035	.26047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: LCSS 45 Acquired: 2/25/2011 14:52:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357587-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1014**	**.05339**	**6.0636**	**.00406**	**.00322**	**1.7391**	**.00034**
Stddev	2.8426	.05125	3.5533	.00150	.00079	.1812	.00009
%RSD	135.27	95.991	58.600	36.896	24.460	10.417	25.900
#1	3.1447	.08861	2.9825	.00565	.00343	1.6010	.00031
#2	4.2749	-.00541	9.9506	.00267	.00389	1.6721	.00044
#3	-1.1155	.07698	5.2577	.00386	.00235	1.9442	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00031**	**-.00194**	**-.00025**	**.00194**	**.59946**
Stddev	.00010	.00194	.00092	.00037	.00009	.10822
%RSD	266.48	633.28	47.133	144.98	4.7677	18.052
#1	-.00005	.00254	-.00189	.00001	.00198	.61599
#2	.00002	-.00082	-.00106	-.00067	.00183	.48393
#3	.00014	-.00081	-.00289	-.00010	.00201	.69846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90582.**	**50499.**
Stddev	110.	176.
%RSD	.12109	.34863
#1	90703.	50450.
#2	90553.	50352.
#3	90489.	50694.

Approved: March 01, 2011

Sample Name: L1102047815 Acquired: 2/25/2011 14:56:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00328**	**31.678**	**.03330**	**.02724**	**.25853**	**.00227**	**396.23**
Stddev	.00089	.190	.00095	.00064	.00050	.00003	.07
%RSD	27.264	.60083	2.8438	2.3566	.19366	1.1074	.01677
#1	.00303	31.469	.03268	.02667	.25797	.00224	396.19
#2	.00253	31.723	.03282	.02794	.25868	.00227	396.31
#3	.00427	31.841	.03439	.02711	.25893	.00229	396.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.01707**	**.04119**	**.11487**	**34.185**	**5.4963**	**.02505**
Stddev	.00008	.00019	.00063	.00078	.043	.0152	.00092
%RSD	4.0532	1.0951	1.5183	.67564	.12703	.27597	3.6910
#1	.00200	.01712	.04048	.11448	34.145	5.4788	.02495
#2	.00205	.01686	.04143	.11436	34.180	5.5050	.02417
#3	.00190	.01722	.04166	.11576	34.231	5.5052	.02602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.702**	**1.4629**	**.00091**	**.13422**	**.03808**	F **10948.**	**.09593**
Stddev	.028	.0044	.00009	.00899	.00019	24.	.00041
%RSD	.25843	.30014	9.9350	6.7010	.50153	.22075	.42258
#1	10.708	1.4594	.00080	.12702	.03818	10933.	.09563
#2	10.726	1.4678	.00097	.13133	.03786	10935.	.09577
#3	10.672	1.4615	.00094	.14430	.03820	10976.	.09639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047815 Acquired: 2/25/2011 14:56:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.04494**	F **445.56**	F **-4274.2**	**.00517**	**.00193**	F **93.198**	**.00194**
Stddev	13.206	.91	13.9	.00114	.00190	.841	.00024
%RSD	29387.	.20354	.32569	22.058	98.536	.90240	12.254
#1	-2.7857	445.96	-4258.2	.00533	.00081	93.120	.00166
#2	-11.665	446.19	-4283.5	.00395	.00412	94.075	.00207
#3	14.316	444.52	-4280.8	.00622	.00085	92.398	.00208
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07740**	**.06383**	**.00347**	**.06898**	**.13773**	**19.535**
Stddev	.00019	.00111	.00116	.00103	.00043	.289
%RSD	.24774	1.7442	33.402	1.4983	.31413	1.4781
#1	.07762	.06254	.00269	.06785	.13820	19.218
#2	.07729	.06437	.00480	.06988	.13766	19.783
#3	.07728	.06456	.00292	.06921	.13734	19.603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90328.**	**50271.**
Stddev	871.	296.
%RSD	.96398	.58937
#1	89472.	50594.
#2	90300.	50011.
#3	91213.	50207.

Approved: March 01, 2011

Sample Name: L1102047815PS Acquired: 2/25/2011 15:00:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357627-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22400**	**36.407**	**.23639**	**1.0994**	**.76196**	**.02995**	**400.85**
Stddev	.00029	.137	.00204	.0054	.00083	.00018	.33
%RSD	.12766	.37709	.86373	.49314	.10926	.60082	.08216
#1	.22430	36.547	.23662	1.1051	.76101	.03014	400.48
#2	.22398	36.273	.23831	1.0944	.76256	.02978	400.93
#3	.22373	36.400	.23425	1.0986	.76231	.02994	401.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02931**	**.11818**	**.30103**	**.35485**	**36.250**	**32.012**	**.55205**
Stddev	.00005	.00005	.00086	.00048	.050	.049	.00209
%RSD	.16561	.04133	.28608	.13430	.13916	.15389	.37947
#1	.02926	.11819	.30127	.35462	36.210	31.976	.55271
#2	.02931	.11823	.30008	.35540	36.234	32.068	.54971
#3	.02936	.11813	.30175	.35453	36.307	31.992	.55375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.602**	**1.7001**	**.50267**	**26.751**	**.28605**	F **11053.**	**.34471**
Stddev	.049	.0085	.00092	.030	.00012	42.	.00106
%RSD	.31211	.49970	.18263	.11365	.04360	.37773	.30775
#1	15.567	1.6909	.50277	26.719	.28611	11068.	.34474
#2	15.657	1.7015	.50352	26.779	.28591	11006.	.34575
#3	15.580	1.7077	.50170	26.755	.28613	11085.	.34363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047815PS Acquired: 2/25/2011 15:00:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357627-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.0099**	F **444.77**	F **-4344.8**	**.60773**	**.20436**	F **413.35**	**.00398**
Stddev	6.3873	.77	16.0	.00149	.00219	.80	.00042
%RSD	91.118	.17320	.36915	.24479	1.0704	.19267	10.670
#1	4.1730	443.92	-4338.1	.60625	.20455	413.76	.00364
#2	2.5325	444.99	-4363.1	.60771	.20644	413.85	.00384
#3	14.324	445.42	-4333.3	.60923	.20208	412.43	.00445
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.55330**	**.54598**	**.25600**	**.58206**	**.60203**	**20.747**
Stddev	.00155	.00012	.00140	.00362	.00063	.336
%RSD	.27992	.02183	.54874	.62151	.10474	1.6178
#1	.55152	.54593	.25463	.58566	.60134	20.388
#2	.55404	.54590	.25744	.57843	.60258	21.053
#3	.55434	.54612	.25594	.58209	.60218	20.800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89534.**	**51117.**
Stddev	450.	195.
%RSD	.50285	.38186
#1	89911.	50937.
#2	89656.	51090.
#3	89035.	51324.

Approved: March 01, 2011

Sample Name: L1102047815SDL Acquired: 2/25/2011 15:03:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357627-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00355**	**6.8145**	**.00785**	**.00857**	**.05133**	**.00029**	**78.530**
Stddev	.00047	.1794	.00149	.00207	.00048	.00001	.242
%RSD	13.131	2.6333	18.984	24.109	.93606	4.7541	.30828
#1	.00309	6.6314	.00619	.00901	.05078	.00028	78.256
#2	.00402	6.8222	.00832	.01039	.05168	.00031	78.620
#3	.00354	6.9900	.00906	.00632	.05151	.00028	78.715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00368**	**.00879**	**.02314**	**6.8256**	**1.0982**	**.00060**
Stddev	.00007	.00006	.00046	.00009	.0144	.0376	.00168
%RSD	26.719	1.6275	5.2866	.40672	.21160	3.4237	278.58
#1	.00035	.00373	.00859	.02304	6.8116	1.0660	-.00090
#2	.00021	.00369	.00845	.02318	6.8248	1.1395	.00242
#3	.00026	.00361	.00932	.02321	6.8405	1.0889	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1377**	**.29327**	**.00030**	**.05005**	**.00629**	F **2161.8**	**.01662**
Stddev	.0079	.00161	.00009	.00184	.00019	31.3	.00146
%RSD	.37113	.54791	30.369	3.6753	3.0722	1.4496	8.7849
#1	2.1316	.29512	.00037	.05014	.00650	2152.6	.01500
#2	2.1467	.29241	.00033	.04817	.00614	2136.2	.01702
#3	2.1349	.29226	.00020	.05185	.00622	2196.8	.01784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047815SDL Acquired: 2/25/2011 15:03:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357627-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-8.6845**	F **94.887**	F **-829.45**	**.00288**	**-.00198**	**17.859**	**.00008**
Stddev	4.2441	.296	9.33	.00222	.00093	.234	.00016
%RSD	48.870	.31186	1.1247	77.048	46.926	1.3079	191.04
#1	-4.3176	94.918	-819.70	.00513	-.00276	17.937	.00016
#2	-8.9416	94.577	-830.35	.00069	-.00095	18.044	-.00010
#3	-12.794	95.166	-838.29	.00282	-.00224	17.597	.00018
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01533**	**.01114**	**.00090**	**.01392**	**.02856**	**2.9734**
Stddev	.00021	.00053	.00063	.00005	.00015	.4859
%RSD	1.3733	4.7366	69.610	.32696	.52323	16.342
#1	.01545	.01172	.00038	.01390	.02844	2.6855
#2	.01546	.01069	.00073	.01389	.02850	2.7003
#3	.01509	.01101	.00159	.01397	.02872	3.5345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92041.**	**50131.**
Stddev	823.	1007.
%RSD	.89411	2.0082
#1	91154.	51203.
#2	92189.	49982.
#3	92779.	49206.

Approved: March 01, 2011

Sample Name: L1102047815SDL Acquired: 2/25/2011 15:07:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG357627-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00240**	**1.4335**	**.00210**	**.00222**	**.00980**	**-.00005**	**15.283**
Stddev	.00058	.0120	.00154	.00119	.00013	.00001	.033
%RSD	24.116	.83473	73.649	53.533	1.2785	22.481	.21660
#1	.00307	1.4289	.00031	.00237	.00971	-.00006	15.246
#2	.00199	1.4245	.00294	.00333	.00995	-.00007	15.296
#3	.00215	1.4470	.00304	.00097	.00976	-.00004	15.308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00085**	**.00220**	**.00458**	**1.2674**	**.23310**	**-.00410**
Stddev	.00014	.00007	.00033	.00103	.0044	.01734	.00241
%RSD	1909.0	7.8885	15.211	22.421	.34605	7.4371	58.789
#1	-.00006	.00081	.00206	.00439	1.2718	.23760	-.00132
#2	-.00012	.00081	.00258	.00569	1.2674	.21396	-.00543
#3	.00015	.00093	.00196	.00366	1.2630	.24774	-.00555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41120**	**.05826**	**-.00004**	**.03218**	**.00024**	**391.19**	**.00274**
Stddev	.02085	.00148	.00010	.01609	.00019	17.29	.00123
%RSD	5.0714	2.5482	261.41	50.001	78.671	4.4189	44.946
#1	.39827	.05727	-.00015	.01372	.00023	402.03	.00379
#2	.43525	.05996	-.00001	.04324	.00006	400.28	.00138
#3	.40006	.05753	.00005	.03959	.00045	371.25	.00304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 01, 2011

Sample Name: L1102047815SDL Acquired: 2/25/2011 15:07:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG357627-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.5032**	F **19.152**	F **-147.29**	**.00133**	**-.00078**	**2.7479**	**-.00041**
Stddev	2.5444	.019	4.51	.00064	.00198	.1045	.00027
%RSD	169.27	.09878	3.0627	48.106	253.86	3.8033	65.414
#1	4.4386	19.132	-146.74	.00086	.00047	2.7013	-.00066
#2	.14264	19.155	-152.06	.00107	.00026	2.8676	-.00043
#3	-.07175	19.170	-143.08	.00206	-.00307	2.6748	-.00013
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**.00166**	**.00153**	**.00251**	**.00627**	F **-.47862**
Stddev	.00023	.00258	.00087	.00022	.00012	.38113
%RSD	7.9383	155.38	56.982	8.8619	1.9753	79.629
#1	.00272	-.00131	.00241	.00266	.00621	-.06563
#2	.00315	.00326	.00066	.00261	.00618	-.81678
#3	.00280	.00302	.00152	.00226	.00641	-.55346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**95086.**	**50547.**
Stddev	268.	269.
%RSD	.28226	.53163
#1	94776.	50250.
#2	95251.	50616.
#3	95231.	50774.

Approved: March 01, 2011

Sample Name: L1102047816 Acquired: 2/25/2011 15:11:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00366**	**31.864**	**.03808**	**.02870**	**.27370**	**.00237**	**258.83**
Stddev	.00035	.178	.00185	.00157	.00083	.00001	.33
%RSD	9.6209	.55866	4.8661	5.4582	.30222	.59515	.12849
#1	.00397	31.671	.03891	.03036	.27275	.00237	258.46
#2	.00327	32.022	.03596	.02725	.27414	.00236	259.11
#3	.00373	31.898	.03938	.02848	.27423	.00238	258.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00262**	**.01774**	**.04532**	**.20347**	**39.163**	**6.2436**	**.02599**
Stddev	.00008	.00010	.00042	.00068	.115	.0647	.00135
%RSD	2.9510	.54212	.92311	.33633	.29275	1.0359	5.2017
#1	.00263	.01777	.04505	.20386	39.032	6.2328	.02447
#2	.00269	.01764	.04511	.20386	39.216	6.1849	.02704
#3	.00254	.01783	.04580	.20268	39.242	6.3129	.02648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.622**	**1.8936**	**.00119**	**.10920**	**.03969**	F **9247.8**	**.13888**
Stddev	.066	.0090	.00017	.00954	.00009	16.1	.00162
%RSD	.52077	.47705	14.314	8.7369	.23102	.17448	1.1681
#1	12.556	1.8883	.00121	.10166	.03958	9256.7	.13874
#2	12.621	1.9040	.00136	.10601	.03974	9257.4	.14057
#3	12.688	1.8885	.00102	.11992	.03974	9229.1	.13733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047816 Acquired: 2/25/2011 15:11:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.595**	F **306.40**	F **-3943.7**	**.00718**	**-.00014**	**75.150**	**.00350**
Stddev	5.866	.35	12.1	.00093	.00390	1.090	.00025
%RSD	40.188	.11311	.30786	12.978	2826.9	1.4499	7.0934
#1	21.273	306.64	-3949.1	.00807	.00120	75.550	.00345
#2	12.234	306.55	-3929.8	.00621	-.00453	75.984	.00376
#3	10.278	306.00	-3952.3	.00725	.00292	73.917	.00328
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06606**	**.06531**	**.00249**	**.06033**	**.18662**	**22.284**
Stddev	.00006	.00059	.00098	.00072	.00079	.059
%RSD	.09233	.89653	39.250	1.1988	.42285	.26443
#1	.06599	.06519	.00184	.05997	.18742	22.231
#2	.06609	.06480	.00203	.05987	.18660	22.275
#3	.06611	.06595	.00362	.06117	.18584	22.347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88238.**	**50039.**
Stddev	407.	440.
%RSD	.46134	.87836
#1	88265.	50458.
#2	87819.	50077.
#3	88632.	49581.

Approved: March 01, 2011

Sample Name: L1102047817 Acquired: 2/25/2011 15:14:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00317**	**27.405**	**.03423**	**.02764**	**.28137**	**.00224**	**356.19**
Stddev	.00044	.248	.00044	.00036	.00154	.00001	1.40
%RSD	13.999	.90431	1.2923	1.3174	.54758	.37629	.39168
#1	.00282	27.270	.03473	.02730	.27965	.00224	355.09
#2	.00367	27.255	.03389	.02759	.28183	.00223	355.73
#3	.00302	27.691	.03408	.02802	.28262	.00225	357.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00293**	**.01717**	**.04141**	**.25582**	**35.587**	**5.5654**	**.02551**
Stddev	.00012	.00017	.00031	.00194	.116	.0562	.00300
%RSD	4.0411	1.0058	.74779	.75667	.32508	1.0104	11.752
#1	.00284	.01698	.04105	.25435	35.459	5.5750	.02745
#2	.00288	.01730	.04158	.25510	35.617	5.5050	.02703
#3	.00306	.01724	.04160	.25801	35.685	5.6163	.02206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.728**	**1.7859**	**.00155**	**.10787**	**.03638**	F **8617.2**	**.14561**
Stddev	.093	.0095	.00018	.00600	.00072	39.3	.00302
%RSD	.72839	.53257	11.894	5.5654	1.9891	.45609	2.0720
#1	12.655	1.7829	.00135	.10984	.03556	8578.2	.14372
#2	12.696	1.7782	.00157	.11265	.03694	8616.7	.14402
#3	12.832	1.7965	.00172	.10113	.03663	8656.8	.14909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047817 Acquired: 2/25/2011 15:14:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.0874**	F **409.42**	F **-3961.1**	**.00679**	**-.00030**	F **91.249**	**.00314**
Stddev	5.1694	3.68	45.3	.00248	.00150	1.033	.00029
%RSD	126.47	.89836	1.1441	36.586	499.48	1.1325	9.2746
#1	7.3449	405.80	-3924.5	.00946	-.00101	90.748	.00285
#2	-1.8731	409.30	-3947.0	.00633	-.00131	92.437	.00316
#3	6.7904	413.16	-4011.8	.00456	.00142	90.562	.00343
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09647**	**.06264**	**.00368**	**.06167**	**.21021**	**20.321**
Stddev	.00040	.00048	.00073	.00040	.00174	.204
%RSD	.41360	.75951	19.840	.65144	.82996	1.0052
#1	.09601	.06285	.00384	.06122	.20872	20.457
#2	.09670	.06210	.00288	.06176	.20979	20.086
#3	.09670	.06298	.00431	.06201	.21213	20.421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87378.**	**48431.**
Stddev	91.	160.
%RSD	.10411	.33005
#1	87482.	48466.
#2	87316.	48570.
#3	87336.	48256.

Approved: March 01, 2011

Sample Name: L1102047818 Acquired: 2/25/2011 15:18:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00306**	**30.615**	**.03193**	**.03030**	**.28189**	**.00229**	**543.94**
Stddev	.00017	.334	.00130	.00167	.00213	.00001	3.44
%RSD	5.6835	1.0895	4.0766	5.5145	.75704	.51606	.63314
#1	.00324	30.240	.03195	.03088	.27973	.00228	540.20
#2	.00307	30.877	.03323	.02842	.28194	.00230	544.64
#3	.00289	30.730	.03062	.03161	.28400	.00230	546.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00236**	**.01805**	**.04366**	**.12141**	**36.469**	**5.3365**	**.03237**
Stddev	.00003	.00018	.00058	.00103	.242	.0871	.00331
%RSD	1.2106	1.0065	1.3187	.85184	.66288	1.6321	10.223
#1	.00238	.01790	.04301	.12023	36.241	5.2359	.03536
#2	.00233	.01801	.04409	.12216	36.443	5.3847	.02881
#3	.00238	.01825	.04389	.12184	36.723	5.3889	.03292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.619**	**1.6781**	**.00163**	**.15795**	**.03980**	F **9556.5**	**.11772**
Stddev	.092	.0081	.00046	.01717	.00055	87.2	.00114
%RSD	.67656	.48224	28.003	10.871	1.3807	.91286	.96763
#1	13.557	1.6717	.00180	.15049	.03931	9468.1	.11711
#2	13.574	1.6753	.00111	.14577	.04040	9558.9	.11702
#3	13.725	1.6872	.00198	.17759	.03970	9642.5	.11904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047818 Acquired: 2/25/2011 15:18:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.3372**	F **605.24**	F **-3762.0**	**.00891**	**-.00213**	F **99.283**	**.00244**
Stddev	7.6920	5.47	40.5	.00111	.00230	.792	.00026
%RSD	575.22	.90311	1.0775	12.435	108.34	.79742	10.536
#1	7.5224	599.10	-3716.8	.00767	-.00195	98.410	.00247
#2	-5.2219	607.05	-3774.0	.00923	.00008	99.955	.00216
#3	-6.3122	609.58	-3795.2	.00981	-.00451	99.485	.00268
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12176**	**.05834**	**.00334**	**.07172**	**.17906**	**18.597**
Stddev	.00063	.00188	.00239	.00101	.00151	.400
%RSD	.51486	3.2240	71.445	1.4097	.84077	2.1517
#1	.12133	.05971	.00076	.07056	.17733	18.341
#2	.12148	.05619	.00546	.07224	.17976	18.392
#3	.12248	.05911	.00381	.07238	.18008	19.058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86872.**	**48138.**
Stddev	1221.	222.
%RSD	1.4052	.46126
#1	86158.	48382.
#2	86177.	47947.
#3	88282.	48085.

Approved: March 01, 2011

Sample Name: L1102047819 Acquired: 2/25/2011 15:21:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00330**	**22.266**	**.02725**	**.02640**	**.26384**	**.00184**	**606.59**
Stddev	.00112	.287	.00039	.00045	.00115	.00002	2.35
%RSD	33.804	1.2870	1.4135	1.7175	.43562	.91460	.38691
#1	.00308	22.549	.02769	.02691	.26301	.00182	604.87
#2	.00231	22.273	.02705	.02625	.26336	.00184	605.63
#3	.00451	21.976	.02700	.02604	.26515	.00185	609.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00260**	**.01748**	**.03533**	**.11829**	**32.294**	**4.0469**	**.03359**
Stddev	.00005	.00019	.00081	.00173	.165	.0290	.00125
%RSD	2.0695	1.0680	2.3021	1.4611	.50987	.71589	3.7072
#1	.00257	.01728	.03563	.11677	32.149	4.0282	.03346
#2	.00256	.01765	.03594	.11794	32.260	4.0322	.03490
#3	.00266	.01751	.03440	.12017	32.473	4.0802	.03242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.837**	**1.4662**	**.00328**	**.35371**	**.03560**	F **8270.7**	**.12808**
Stddev	.072	.0090	.00018	.01043	.00072	137.9	.00230
%RSD	.60727	.61385	5.5663	2.9483	2.0187	1.6673	1.7983
#1	11.833	1.4659	.00324	.34599	.03487	8127.9	.12672
#2	11.767	1.4573	.00312	.34957	.03561	8281.0	.12678
#3	11.911	1.4753	.00348	.36558	.03631	8403.1	.13074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047819 Acquired: 2/25/2011 15:21:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.6097**	F **668.36**	F **-3553.6**	**.00496**	**-.00478**	F **94.708**	**.00313**
Stddev	4.9087	8.21	44.4	.00117	.00076	.894	.00025
%RSD	135.99	1.2281	1.2495	23.676	15.953	.94441	7.9494
#1	-1.4020	659.65	-3507.8	.00612	-.00501	93.770	.00339
#2	3.8226	669.49	-3556.6	.00377	-.00539	95.551	.00289
#3	8.4085	675.95	-3596.4	.00499	-.00392	94.802	.00312
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12102**	**.04177**	**.00345**	**.05370**	**.20224**	**13.442**
Stddev	.00104	.00219	.00060	.00015	.00206	.108
%RSD	.86047	5.2416	17.278	.28042	1.0200	.80633
#1	.11982	.03975	.00277	.05356	.20022	13.439
#2	.12150	.04146	.00386	.05386	.20214	13.552
#3	.12173	.04410	.00373	.05368	.20435	13.335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85904.**	**49448.**
Stddev	318.	329.
%RSD	.36979	.66625
#1	86270.	49193.
#2	85712.	49331.
#3	85729.	49820.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 15:25:30 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .45082	F 12.252	.40093	.54365	1.0067	F .05633	10.184
Stddev	.00223	.051	.00077	.00146	.0015	.00029	.009
%RSD	.49570	.41312	.19163	.26917	.14466	.51985	.09330
#1	.45230	12.299	.40113	.54517	1.0051	.05645	10.193
#2	.44825	12.198	.40008	.54225	1.0080	.05600	10.186
#3	.45191	12.258	.40158	.54353	1.0068	.05655	10.174
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	.40000	10.000				.05000	
Range	10.000%	10.000%				10.000%	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05367	.20816	F .55945	.49680	3.9267	52.774	1.0230
Stddev	.00007	.00021	.00265	.00116	.0081	.112	.0021
%RSD	.12162	.10225	.47413	.23365	.20571	.21293	.20379
#1	.05359	.20818	.55971	.49668	3.9209	52.689	1.0221
#2	.05371	.20837	.55668	.49570	3.9234	52.901	1.0253
#3	.05371	.20794	.56196	.49801	3.9359	52.731	1.0214
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.50000				
Range			10.000%				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.346	.45580	.97952	51.420	.50830	F 50.072	.51641
Stddev	.042	.00111	.00112	.057	.00115	7.484	.00186
%RSD	.40886	.24288	.11438	.11088	.22662	14.946	.35932
#1	10.372	.45560	.97842	51.367	.50762	41.515	.51593
#2	10.297	.45699	.97948	51.481	.50963	55.392	.51846
#3	10.368	.45480	.98066	51.412	.50765	53.309	.51485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 15:25:30 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-13.232**	**10.310**	F **20.472**	**1.2127**	**.39655**	F **4.3472**	**1.0268**
Stddev	8.609	.047	5.608	.0007	.00344	.0735	.0003
%RSD	65.058	.45927	27.394	.06048	.86642	1.6914	.02395
#1	-4.1662	10.329	14.027	1.2133	.39262	4.2730	1.0269
#2	-21.296	10.345	24.238	1.2119	.39895	4.3487	1.0269
#3	-14.235	10.256	23.150	1.2130	.39809	4.4200	1.0265
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94886**	**.95990**	**.53833**	**1.0551**	**.95794**	F **-.24871**
Stddev	.00334	.00272	.00057	.0057	.00221	.20243
%RSD	.35200	.28349	.10544	.53916	.23115	81.393
#1	.94597	.96161	.53870	1.0569	.95574	-.36607
#2	.95251	.96134	.53861	1.0487	.95792	-.36509
#3	.94809	.95676	.53768	1.0597	.96017	-.01496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87272.**	**47205.**
Stddev	154.	198.
%RSD	.17634	.41938
#1	87362.	47003.
#2	87095.	47399.
#3	87360.	47212.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 15:29:07 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00239**	**.02983**	**.00205**	**.00217**	**.00044**	**-.00013**	**-.02319**
Stddev	.00090	.00687	.00214	.00115	.00053	.00003	.01945
%RSD	37.774	23.043	104.34	52.784	119.40	25.720	83.846
#1	.00326	.02344	-.00042	.00093	.00007	-.00010	-.01209
#2	.00247	.03710	.00335	.00318	.00104	-.00016	-.04565
#3	.00145	.02894	.00323	.00241	.00021	-.00013	-.01184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00005**	**.00055**	**.00050**	**-.00212**	**.10175**	**-.00542**
Stddev	.00010	.00025	.00024	.00042	.00994	.03804	.00119
%RSD	208.80	551.17	42.893	83.872	468.39	37.390	21.970
#1	-.00010	.00024	.00044	.00098	-.00855	.10420	-.00410
#2	.00007	-.00013	.00082	.00017	-.00715	.13850	-.00576
#3	-.00011	-.00025	.00038	.00036	.00933	.06253	-.00640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01757**	**.00172**	**.00060**	**.00704**	**-.00134**	F **25.490**	**-.00336**
Stddev	.01514	.00036	.00007	.00609	.00053	20.319	.00087
%RSD	86.146	21.132	11.793	86.432	39.695	79.713	25.952
#1	-.02936	.00198	.00058	.01131	-.00090	42.802	-.00360
#2	-.02285	.00130	.00068	.00007	-.00193	30.547	-.00409
#3	-.00050	.00186	.00054	.00975	-.00119	3.1202	-.00240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 15:29:07 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-8.2922**	F **-.04626**	F **.99588**	**.00300**	**-.00069**	**.36802**	**.00039**
Stddev	4.3089	.04232	2.0986	.00230	.00275	.11843	.00029
%RSD	51.964	91.480	210.73	76.879	397.52	32.179	74.691
#1	-11.383	-.06971	-1.1862	.00274	-.00136	.46274	.00006
#2	-3.3702	.00259	2.9997	.00542	-.00305	.23525	.00060
#3	-10.123	-.07166	1.1742	.00083	.00233	.40609	.00051
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00052**	**-.00056**	**.00011**	**.00009**	F **-.74284**
Stddev	.00003	.00203	.00048	.00076	.00014	.17153
%RSD	55.399	387.20	86.714	681.83	156.80	23.091
#1	.00007	-.00080	-.00069	-.00041	.00015	-.63138
#2	.00009	.00162	-.00096	-.00024	-.00007	-.65679
#3	.00002	-.00240	-.00002	.00099	.00019	-.94036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88289.**	**47001.**
Stddev	474.	828.
%RSD	.53687	1.7608
#1	87748.	47957.
#2	88488.	46525.
#3	88631.	46521.

Approved: March 01, 2011

Sample Name: L1102047820 Acquired: 2/25/2011 15:32:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00255**	**19.922**	**.02676**	**.02111**	**.20282**	**.00161**	**725.72**
Stddev	.00055	.325	.00179	.00138	.00045	.00003	.84
%RSD	21.650	1.6312	6.6982	6.5355	.22199	2.1287	.11566
#1	.00312	19.561	.02517	.02180	.20268	.00157	724.80
#2	.00249	20.013	.02640	.02201	.20332	.00161	725.91
#3	.00203	20.192	.02870	.01952	.20245	.00164	726.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00162**	**.01338**	**.02979**	**.04319**	**24.094**	**2.7834**	**.03090**
Stddev	.00016	.00003	.00108	.00022	.048	.0343	.00117
%RSD	10.096	.23430	3.6404	.51123	.19959	1.2331	3.7958
#1	.00173	.01335	.02855	.04302	24.040	2.8050	.03220
#2	.00168	.01341	.03023	.04344	24.133	2.7438	.03059
#3	.00143	.01338	.03058	.04311	24.109	2.8013	.02991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.8834**	**.95789**	**.00199**	**.32334**	**.02872**	F **6782.5**	**.06917**
Stddev	.0180	.00285	.00011	.00893	.00085	25.8	.00146
%RSD	.18214	.29748	5.6239	2.7608	2.9454	.38110	2.1093
#1	9.8900	.95484	.00199	.31324	.02785	6753.8	.06983
#2	9.8972	.96047	.00210	.32658	.02954	6803.8	.07019
#3	9.8631	.95837	.00187	.33019	.02876	6790.1	.06750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047820 Acquired: 2/25/2011 15:32:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-2.6388**	F **753.07**	F **-2719.1**	**.00559**	**-.00080**	F **97.529**	**.00136**
Stddev	10.105	1.46	8.7	.00068	.00174	.958	.00019
%RSD	382.93	.19376	.31905	12.145	216.07	.98185	14.033
#1	-14.286	751.54	-2726.4	.00578	-.00173	98.034	.00158
#2	2.5831	754.44	-2709.5	.00483	.00120	98.129	.00122
#3	3.7866	753.25	-2721.5	.00615	-.00188	96.425	.00129
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11517**	**.02984**	**.00357**	**.05436**	**.11079**	**11.812**
Stddev	.00067	.00121	.00133	.00119	.00019	.466
%RSD	.58175	4.0414	37.190	2.1971	.17365	3.9491
#1	.11537	.03098	.00211	.05311	.11073	11.302
#2	.11573	.02858	.00388	.05450	.11063	11.916
#3	.11443	.02997	.00471	.05548	.11101	12.218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87128.**	**48038.**
Stddev	196.	183.
%RSD	.22441	.38134
#1	87353.	48241.
#2	86997.	47885.
#3	87035.	47989.

Approved: March 01, 2011

Sample Name: L1102047821 Acquired: 2/25/2011 15:36:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00403**	**31.312**	**.03203**	**.02936**	**.29042**	**.00218**	**342.04**
Stddev	.00043	.246	.00026	.00073	.00043	.00004	.67
%RSD	10.621	.78671	.81929	2.4731	.14743	1.7892	.19619
#1	.00359	31.082	.03175	.03019	.28993	.00214	341.28
#2	.00405	31.282	.03207	.02884	.29069	.00220	342.30
#3	.00444	31.572	.03227	.02906	.29065	.00221	342.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00244**	**.01708**	**.04445**	**.20636**	**38.004**	**6.2559**	**.02956**
Stddev	.00008	.00030	.00032	.00061	.133	.1125	.00204
%RSD	3.4154	1.7376	.72052	.29671	.34885	1.7983	6.8846
#1	.00253	.01737	.04410	.20614	37.852	6.1331	.03190
#2	.00236	.01678	.04455	.20588	38.060	6.3541	.02859
#3	.00244	.01710	.04472	.20705	38.099	6.2804	.02819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.971**	**1.6694**	**.00129**	**.10865**	**.03843**	F **8637.7**	**.12489**
Stddev	.005	.0158	.00010	.00958	.00011	14.1	.00143
%RSD	.03638	.94482	7.6684	8.8144	.28615	.16303	1.1479
#1	12.967	1.6513	.00140	.09766	.03853	8642.5	.12650
#2	12.971	1.6801	.00123	.11312	.03831	8648.8	.12375
#3	12.976	1.6768	.00123	.11517	.03844	8621.9	.12441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047821 Acquired: 2/25/2011 15:36:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.4688**	F **384.42**	F **-3687.1**	**.00611**	**-.00067**	**79.638**	**.00263**
Stddev	1.2358	1.12	12.8	.00136	.00331	.627	.00071
%RSD	16.546	.29190	.34829	22.274	490.77	.78783	27.020
#1	6.1832	384.27	-3685.4	.00475	.00285	79.944	.00232
#2	8.6479	383.38	-3675.2	.00612	-.00372	80.054	.00212
#3	7.5755	385.61	-3700.7	.00747	-.00115	78.917	.00344
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08472**	**.06278**	**.00326**	**.05781**	**.18497**	**21.462**
Stddev	.00055	.00208	.00039	.00089	.00096	.141
%RSD	.65255	3.3189	11.956	1.5315	.52016	.65758
#1	.08414	.06291	.00282	.05765	.18434	21.302
#2	.08523	.06063	.00339	.05701	.18449	21.569
#3	.08480	.06479	.00356	.05876	.18607	21.514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89495.**	**49982.**
Stddev	243.	565.
%RSD	.27164	1.1306
#1	89482.	50573.
#2	89744.	49924.
#3	89258.	49448.

Approved: March 01, 2011

Sample Name: L1102047822 Acquired: 2/25/2011 15:40:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00342**	**24.457**	**.02878**	**.02450**	**.25326**	**.00196**	**510.60**
Stddev	.00086	.194	.00207	.00178	.00126	.00002	1.04
%RSD	25.179	.79324	7.2037	7.2552	.49840	.87278	.20276
#1	.00246	24.318	.02657	.02433	.25181	.00198	509.58
#2	.00411	24.374	.03069	.02636	.25415	.00194	510.55
#3	.00371	24.678	.02907	.02281	.25381	.00197	511.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.01582**	**.03707**	**.10949**	**30.653**	**4.2955**	**.02908**
Stddev	.00011	.00010	.00050	.00063	.072	.0723	.00016
%RSD	5.2058	.61680	1.3401	.57622	.23363	1.6842	.55248
#1	.00216	.01575	.03650	.10881	30.589	4.2440	.02922
#2	.00196	.01593	.03738	.11005	30.730	4.2642	.02911
#3	.00213	.01579	.03734	.10961	30.639	4.3782	.02890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.351**	**1.5190**	**.00113**	**.13762**	**.03397**	F **8511.3**	**.10288**
Stddev	.067	.0031	.00024	.00195	.00056	5.0	.00036
%RSD	.58929	.20142	21.358	1.4194	1.6588	.05927	.34734
#1	11.318	1.5220	.00099	.13537	.03436	8517.0	.10277
#2	11.307	1.5159	.00141	.13881	.03332	8507.4	.10259
#3	11.428	1.5190	.00100	.13868	.03423	8509.6	.10328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047822 Acquired: 2/25/2011 15:40:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.0354**	F **548.07**	F **-3341.0**	**.00656**	**-.00053**	F **91.930**	**.00182**
Stddev	4.6643	.89	15.4	.00108	.00086	.779	.00028
%RSD	58.046	.16233	.45945	16.397	161.98	.84711	15.566
#1	11.821	547.05	-3331.9	.00765	-.00151	92.471	.00166
#2	9.4606	548.64	-3332.3	.00550	.00008	92.282	.00214
#3	2.8248	548.52	-3358.7	.00653	-.00015	91.038	.00165
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11157**	**.05321**	**.00445**	**.06134**	**.14565**	**16.806**
Stddev	.00047	.00177	.00258	.00030	.00059	.558
%RSD	.42491	3.3190	58.007	.49212	.40235	3.3221
#1	.11131	.05286	.00297	.06133	.14498	17.438
#2	.11211	.05512	.00743	.06104	.14608	16.379
#3	.11128	.05164	.00295	.06164	.14589	16.601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87330.**	**49539.**
Stddev	286.	142.
%RSD	.32805	.28724
#1	87445.	49581.
#2	87004.	49656.
#3	87541.	49381.

Approved: March 01, 2011

Sample Name: L1102047823 Acquired: 2/25/2011 15:43:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00317**	**19.684**	**.02316**	**.03550**	**.39152**	**.00178**	**529.09**
Stddev	.00060	.083	.00036	.00089	.00105	.00004	.48
%RSD	18.879	.42052	1.5591	2.4983	.26702	2.1717	.09137
#1	.00371	19.714	.02313	.03643	.39031	.00177	528.53
#2	.00252	19.591	.02353	.03540	.39222	.00183	529.36
#3	.00329	19.748	.02281	.03467	.39201	.00175	529.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00274**	**.01469**	**.03322**	**.14376**	**29.699**	**6.0225**	**.03616**
Stddev	.00013	.00006	.00053	.00065	.085	.0266	.00289
%RSD	4.7441	.40645	1.5826	.45419	.28509	.44191	7.9854
#1	.00259	.01467	.03383	.14308	29.602	6.0070	.03910
#2	.00280	.01475	.03288	.14439	29.738	6.0074	.03333
#3	.00282	.01464	.03295	.14380	29.757	6.0533	.03603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.857**	**1.7005**	**.00243**	**.33268**	**.02884**	F **22514.**	**.13359**
Stddev	.038	.0064	.00018	.00360	.00024	52.	.00239
%RSD	.25528	.37700	7.3749	1.0807	.83970	.23209	1.7913
#1	14.827	1.6931	.00254	.33498	.02859	22574.	.13270
#2	14.843	1.7038	.00222	.33452	.02908	22490.	.13631
#3	14.900	1.7046	.00253	.32854	.02885	22477.	.13178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047823 Acquired: 2/25/2011 15:43:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.373**	F **594.02**	F **-5953.2**	**.00775**	**.00158**	**84.254**	**.00230**
Stddev	10.126	.36	17.0	.00274	.00150	1.699	.00054
%RSD	89.030	.06046	.28512	35.373	94.608	2.0159	23.659
#1	4.0735	593.93	-5949.0	.01070	.00031	85.776	.00229
#2	7.1133	594.42	-5938.7	.00726	.00323	84.563	.00285
#3	22.933	593.72	-5971.9	.00528	.00121	82.422	.00176
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24136**	**.05204**	**.00375**	**.05676**	**.23983**	**16.415**
Stddev	.00123	.00249	.00011	.00050	.00031	.136
%RSD	.51147	4.7879	3.0179	.87507	.12956	.82577
#1	.24005	.05469	.00376	.05705	.23970	16.471
#2	.24151	.04975	.00385	.05704	.23960	16.513
#3	.24251	.05167	.00363	.05619	.24018	16.260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87926.**	**49041.**
Stddev	760.	126.
%RSD	.86457	.25676
#1	87303.	48981.
#2	87701.	48957.
#3	88773.	49186.

Approved: March 01, 2011

Sample Name: L1102047824 Acquired: 2/25/2011 15:47:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00394**	**32.032**	**.02752**	**.03114**	**.43173**	**.00298**	**301.35**
Stddev	.00079	.365	.00080	.00014	.00045	.00002	.44
%RSD	19.954	1.1395	2.8904	.44613	.10375	.55720	.14527
#1	.00353	32.336	.02674	.03103	.43208	.00300	300.87
#2	.00484	32.133	.02833	.03109	.43123	.00297	301.73
#3	.00344	31.627	.02748	.03129	.43189	.00297	301.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00292**	**.02536**	**.05479**	**.16116**	**45.644**	**9.2428**	**.03097**
Stddev	.00008	.00006	.00092	.00099	.050	.0443	.00101
%RSD	2.7780	.23565	1.6711	.61427	.10960	.47936	3.2516
#1	.00300	.02529	.05570	.16048	45.692	9.1917	.03026
#2	.00284	.02540	.05481	.16070	45.592	9.2702	.03052
#3	.00292	.02539	.05387	.16229	45.649	9.2664	.03212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.716**	**2.4405**	**.00190**	**.51826**	**.04388**	F **15478.**	**.15066**
Stddev	.040	.0102	.00034	.01302	.00022	23.	.00147
%RSD	.27172	.41836	17.890	2.5132	.49439	.15031	.97498
#1	14.671	2.4492	.00166	.51896	.04366	15480.	.14896
#2	14.747	2.4429	.00229	.50490	.04391	15500.	.15160
#3	14.731	2.4293	.00175	.53092	.04409	15454.	.15141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047824 Acquired: 2/25/2011 15:47:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.1780**	F **358.14**	F **-4763.3**	**.00430**	**-.00103**	**82.651**	**.00317**
Stddev	9.0957	1.00	25.1	.00257	.00260	.588	.00049
%RSD	175.66	.27942	.52677	59.758	251.91	.71160	15.579
#1	8.9407	357.22	-4734.5	.00250	-.00371	83.045	.00263
#2	-5.1953	357.98	-4774.4	.00724	.00150	82.932	.00360
#3	11.789	359.21	-4780.8	.00315	-.00089	81.975	.00328
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13824**	**.08299**	**.00373**	**.07288**	**.26074**	**26.590**
Stddev	.00030	.00139	.00064	.00063	.00165	.081
%RSD	.21778	1.6725	17.053	.86853	.63257	.30443
#1	.13848	.08143	.00447	.07350	.25918	26.684
#2	.13790	.08346	.00336	.07290	.26056	26.542
#3	.13834	.08408	.00337	.07223	.26247	26.545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90930.**	**50868.**
Stddev	61.	473.
%RSD	.06663	.93023
#1	90938.	50375.
#2	90986.	50910.
#3	90865.	51319.

Approved: March 01, 2011

Sample Name: L1102047825 Acquired: 2/25/2011 15:51:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00302**	**30.025**	**.02839**	**.02895**	**.35242**	**.00242**	**434.07**
Stddev	.00054	.155	.00055	.00166	.00106	.00003	.19
%RSD	17.800	.51646	1.9399	5.7432	.30117	1.0339	.04413
#1	.00263	29.942	.02802	.03063	.35207	.00239	433.85
#2	.00280	29.929	.02811	.02892	.35158	.00242	434.19
#3	.00363	30.204	.02902	.02730	.35361	.00244	434.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00233**	**.02019**	**.04569**	**.11482**	**40.028**	**6.4030**	**.03236**
Stddev	.00008	.00031	.00045	.00042	.033	.0147	.00242
%RSD	3.4196	1.5588	.97648	.36620	.08278	.23023	7.4727
#1	.00241	.01986	.04565	.11433	39.992	6.4173	.03490
#2	.00225	.02049	.04526	.11505	40.057	6.3879	.03009
#3	.00232	.02021	.04615	.11506	40.036	6.4036	.03208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.437**	**1.7233**	**.00130**	**1.7662**	**.04048**	F **10975.**	**.10581**
Stddev	.031	.0050	.00007	.0149	.00057	24.	.00183
%RSD	.23389	.28867	5.5978	.84435	1.4176	.22219	1.7276
#1	13.429	1.7271	.00138	1.7705	.04001	10951.	.10711
#2	13.411	1.7251	.00127	1.7786	.04112	10999.	.10372
#3	13.472	1.7177	.00124	1.7497	.04032	10974.	.10660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047825 Acquired: 2/25/2011 15:51:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.2702**	F **476.69**	F **-4124.9**	**.00431**	**.00201**	**78.307**	**.00216**
Stddev	7.6995	1.22	4.0	.00167	.00033	.836	.00003
%RSD	180.31	.25586	.09720	38.870	16.273	1.0670	1.4200
#1	13.119	475.36	-4126.4	.00349	.00238	79.220	.00212
#2	.58792	476.96	-4120.4	.00623	.00181	77.579	.00218
#3	-.89668	477.75	-4128.0	.00320	.00183	78.122	.00217
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12001**	**.06440**	**.00351**	**.06627**	**.16967**	**19.705**
Stddev	.00058	.00079	.00050	.00111	.00008	.155
%RSD	.48587	1.2271	14.131	1.6770	.04784	.78817
#1	.11964	.06530	.00335	.06561	.16958	19.642
#2	.11971	.06382	.00312	.06563	.16970	19.591
#3	.12068	.06407	.00407	.06755	.16973	19.882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89657.**	**49913.**
Stddev	115.	195.
%RSD	.12779	.38977
#1	89783.	50070.
#2	89560.	49972.
#3	89626.	49695.

Approved: March 01, 2011

Sample Name: L1102047826 Acquired: 2/25/2011 15:54:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00378**	**45.816**	**.02795**	**.03736**	**.50581**	**.00406**	**268.97**
Stddev	.00074	.644	.00022	.00162	.00059	.00003	.16
%RSD	19.508	1.4059	.77522	4.3327	.11635	.65815	.05918
#1	.00399	46.116	.02785	.03587	.50519	.00403	269.04
#2	.00296	46.255	.02780	.03908	.50590	.00407	269.08
#3	.00440	45.077	.02820	.03713	.50636	.00407	268.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00292**	**.02891**	**.06804**	**.15510**	**54.575**	**13.222**	**.04423**
Stddev	.00005	.00030	.00151	.00122	.129	.029	.00271
%RSD	1.7418	1.0476	2.2211	.78611	.23579	.21910	6.1284
#1	.00298	.02862	.06846	.15370	54.487	13.208	.04518
#2	.00290	.02887	.06929	.15565	54.723	13.255	.04117
#3	.00289	.02923	.06636	.15595	54.516	13.203	.04633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.484**	**2.4496**	**.00210**	**.18479**	**.05042**	F **22611.**	**.12332**
Stddev	.092	.0046	.00019	.00918	.00071	71.	.00234
%RSD	.44756	.18949	9.1712	4.9651	1.4103	.31559	1.8957
#1	20.580	2.4450	.00232	.18216	.05069	22530.	.12537
#2	20.473	2.4543	.00199	.19499	.05095	22643.	.12077
#3	20.397	2.4495	.00200	.17722	.04961	22662.	.12381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047826 Acquired: 2/25/2011 15:54:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.406**	F **313.93**	F **-4178.1**	**.00499**	**.00176**	**77.907**	**.00349**
Stddev	7.598	.66	17.7	.00084	.00206	.611	.00028
%RSD	66.617	.21137	.42311	16.882	116.49	.78453	8.0563
#1	9.9913	313.31	-4161.3	.00593	.00135	77.263	.00339
#2	4.6140	313.85	-4176.4	.00475	.00400	78.479	.00327
#3	19.611	314.63	-4196.6	.00429	-.00005	77.979	.00381
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17916**	**.08521**	**.00608**	**.08327**	**.26177**	**34.472**
Stddev	.00018	.00140	.00073	.00145	.00046	.315
%RSD	.09954	1.6451	12.044	1.7473	.17382	.91238
#1	.17902	.08446	.00614	.08393	.26127	34.819
#2	.17910	.08683	.00678	.08427	.26185	34.391
#3	.17936	.08435	.00532	.08160	.26217	34.205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92412.**	**50359.**
Stddev	97.	615.
%RSD	.10542	1.2210
#1	92493.	50010.
#2	92304.	49999.
#3	92438.	51069.

Approved: March 01, 2011

Sample Name: L1102047827 Acquired: 2/25/2011 15:58:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00302**	**34.856**	**.02951**	**.02915**	**.41059**	**.00319**	**337.38**
Stddev	.00040	.119	.00023	.00105	.00084	.00001	.50
%RSD	13.197	.34093	.77087	3.6088	.20548	.26092	.14752
#1	.00343	34.780	.02953	.03028	.40980	.00318	336.81
#2	.00264	34.795	.02927	.02895	.41148	.00320	337.75
#3	.00299	34.993	.02972	.02821	.41048	.00318	337.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00226**	**.02461**	**.04901**	**.09637**	**45.587**	**8.7461**	**.03784**
Stddev	.00006	.00008	.00083	.00064	.089	.0403	.00121
%RSD	2.6344	.31954	1.7005	.66804	.19569	.46114	3.1920
#1	.00221	.02467	.04805	.09589	45.484	8.7082	.03786
#2	.00226	.02464	.04959	.09710	45.633	8.7416	.03903
#3	.00233	.02452	.04937	.09612	45.643	8.7885	.03662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.540**	**2.0574**	**.00162**	**.16315**	**.04431**	F **14184.**	**.09800**
Stddev	.036	.0121	.00037	.01148	.00076	33.	.00086
%RSD	.22984	.58711	23.141	7.0351	1.7158	.23108	.87845
#1	15.500	2.0486	.00144	.14997	.04387	14156.	.09893
#2	15.569	2.0712	.00136	.16849	.04388	14176.	.09785
#3	15.550	2.0524	.00205	.17098	.04519	14220.	.09722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047827 Acquired: 2/25/2011 15:58:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **13.288**	F **366.15**	F **-2912.3**	**.00463**	**.00081**	F **91.489**	**.00221**
Stddev	6.831	.19	7.0	.00105	.00139	.334	.00001
%RSD	51.408	.05285	.24168	22.690	171.46	.36524	.60532
#1	21.158	366.23	-2915.9	.00585	.00089	91.716	.00220
#2	9.8173	365.93	-2904.2	.00404	-.00062	91.645	.00220
#3	8.8892	366.30	-2916.9	.00401	.00215	91.105	.00222
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12952**	**.07373**	**.00369**	**.07279**	**.19306**	**25.382**
Stddev	.00026	.00104	.00105	.00103	.00011	.127
%RSD	.19900	1.4061	28.400	1.4150	.05633	.49896
#1	.12933	.07260	.00255	.07164	.19314	25.503
#2	.12941	.07395	.00391	.07310	.19310	25.393
#3	.12981	.07463	.00462	.07362	.19294	25.251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91704.**	**52282.**
Stddev	174.	173.
%RSD	.19026	.33036
#1	91595.	52480.
#2	91611.	52204.
#3	91905.	52162.

Approved: March 01, 2011

Sample Name: L1102047828 Acquired: 2/25/2011 16:01:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00353**	**24.967**	**.02971**	**.02711**	**.34155**	**.00221**	**428.21**
Stddev	.00053	.252	.00088	.00074	.00064	.00003	1.01
%RSD	14.926	1.0106	2.9636	2.7332	.18825	1.2815	.23482
#1	.00351	24.724	.02871	.02626	.34129	.00219	427.17
#2	.00301	24.951	.03034	.02744	.34108	.00219	428.29
#3	.00406	25.228	.03009	.02763	.34228	.00224	429.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00373**	**.01838**	**.04601**	**.19217**	**35.573**	**6.8078**	**.03422**
Stddev	.00005	.00012	.00098	.00080	.083	.0261	.00114
%RSD	1.3679	.65818	2.1276	.41767	.23264	.38299	3.3202
#1	.00379	.01824	.04523	.19261	35.488	6.7804	.03325
#2	.00369	.01846	.04570	.19265	35.578	6.8107	.03547
#3	.00372	.01843	.04711	.19124	35.653	6.8323	.03393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.801**	**2.3735**	**.00224**	**.15677**	**.03770**	F **12172.**	**.20381**
Stddev	.076	.0008	.00008	.00790	.00041	48.	.00036
%RSD	.45383	.03526	3.3556	5.0369	1.0885	.39533	.17441
#1	16.732	2.3726	.00222	.15143	.03799	12202.	.20378
#2	16.883	2.3742	.00232	.15304	.03789	12198.	.20418
#3	16.787	2.3738	.00217	.16584	.03723	12117.	.20348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047828 Acquired: 2/25/2011 16:01:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **16.008**	F **465.40**	F **-3926.9**	**.00431**	**-.00148**	**82.705**	**.00353**
Stddev	3.759	1.54	15.0	.00172	.00266	1.113	.00026
%RSD	23.481	.33000	.38112	39.985	180.17	1.3459	7.4174
#1	11.863	466.90	-3944.2	.00589	.00033	83.801	.00383
#2	19.196	465.48	-3917.3	.00247	-.00023	82.738	.00343
#3	16.965	463.83	-3919.4	.00458	-.00453	81.576	.00334
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13566**	**.06022**	**.00460**	**.06115**	**.31750**	**19.148**
Stddev	.00061	.00067	.00086	.00062	.00155	.226
%RSD	.44780	1.1172	18.753	1.0088	.48848	1.1796
#1	.13535	.06065	.00362	.06049	.31895	18.909
#2	.13528	.06056	.00525	.06125	.31769	19.358
#3	.13636	.05944	.00492	.06171	.31586	19.177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90503.**	**52195.**
Stddev	258.	603.
%RSD	.28484	1.1554
#1	90475.	52789.
#2	90260.	52211.
#3	90773.	51584.

Approved: March 01, 2011

Sample Name: L1102047829 Acquired: 2/25/2011 16:05:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00312**	**20.768**	**.02668**	**.02291**	**.28390**	**.00181**	**483.71**
Stddev	.00063	.021	.00099	.00091	.00033	.00004	.59
%RSD	20.109	.10274	3.7053	3.9817	.11639	2.2320	.12187
#1	.00256	20.750	.02749	.02303	.28425	.00181	483.05
#2	.00380	20.791	.02558	.02375	.28359	.00185	483.93
#3	.00300	20.762	.02697	.02194	.28386	.00177	484.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00287**	**.01635**	**.03682**	**.15277**	**29.424**	**5.0452**	**.02883**
Stddev	.00003	.00016	.00007	.00056	.012	.0798	.00148
%RSD	.92631	.99276	.19910	.36410	.04155	1.5811	5.1473
#1	.00290	.01628	.03678	.15221	29.438	4.9803	.02725
#2	.00287	.01624	.03678	.15278	29.419	5.1342	.02906
#3	.00285	.01654	.03691	.15332	29.415	5.0210	.03019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.686**	**1.7888**	**.00146**	**.18319**	**.03145**	F **8455.9**	**.15048**
Stddev	.030	.0069	.00013	.01671	.00024	12.0	.00119
%RSD	.23589	.38527	8.7077	9.1232	.76338	.14159	.79205
#1	12.652	1.7874	.00160	.19611	.03172	8450.2	.15006
#2	12.706	1.7962	.00137	.16432	.03126	8469.7	.15183
#3	12.701	1.7827	.00140	.18915	.03138	8447.9	.14956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047829 Acquired: 2/25/2011 16:05:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.9257**	F **508.58**	F **-2839.9**	**.00649**	**-.00144**	F **93.286**	**.00247**
Stddev	4.1240	.70	8.6	.00216	.00093	.857	.00017
%RSD	69.596	.13687	.30233	33.205	64.612	.91879	6.6893
#1	1.8233	508.02	-2835.0	.00834	-.00097	93.965	.00265
#2	10.071	508.37	-2834.8	.00412	-.00251	93.571	.00241
#3	5.8827	509.36	-2849.8	.00702	-.00083	92.323	.00234
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12094**	**.05073**	**.00451**	**.05397**	**.21499**	**16.232**
Stddev	.00051	.00033	.00136	.00079	.00093	.204
%RSD	.41927	.65600	30.053	1.4658	.43382	1.2564
#1	.12136	.05036	.00607	.05342	.21432	16.065
#2	.12107	.05083	.00362	.05488	.21459	16.459
#3	.12038	.05100	.00385	.05361	.21605	16.173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90154.**	**51303.**
Stddev	179.	70.
%RSD	.19804	.13593
#1	90125.	51377.
#2	90346.	51239.
#3	89993.	51293.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 16:09:13 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43266**	F **11.395**	**.40453**	**.52148**	**1.0059**	**.05398**	**10.254**
Stddev	.00352	.062	.00174	.00366	.0010	.00034	.042
%RSD	.81278	.54548	.43001	.70168	.10326	.62967	.40959
#1	.42862	11.323	.40653	.51737	1.0063	.05365	10.303
#2	.43430	11.434	.40364	.52269	1.0047	.05398	10.230
#3	.43506	11.426	.40341	.52438	1.0067	.05433	10.231
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		10.000					
Range		10.000%					

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05391**	**.20801**	**.53125**	**.49493**	**3.9136**	**52.642**	**1.0306**
Stddev	.00012	.00057	.00392	.00138	.0187	.033	.0039
%RSD	.23085	.27523	.73697	.27879	.47789	.06192	.37825
#1	.05377	.20772	.52674	.49362	3.9156	52.630	1.0338
#2	.05397	.20764	.53322	.49480	3.8940	52.617	1.0263
#3	.05400	.20867	.53378	.49637	3.9312	52.679	1.0317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.180**	**.46738**	**.98150**	**50.850**	**.50947**	F **34.563**	**.51305**
Stddev	.014	.00282	.00275	.050	.00113	8.253	.00191
%RSD	.13315	.60344	.28060	.09808	.22120	23.879	.37288
#1	10.166	.46817	.97948	50.885	.50817	44.037	.51291
#2	10.193	.46425	.98040	50.793	.51009	28.931	.51120
#3	10.181	.46973	.98464	50.872	.51016	30.720	.51502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 16:09:13 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.5320**	**10.033**	F **18.807**	**1.2146**	**.39902**	F **4.1319**	**1.0203**
Stddev	12.849	.045	4.152	.0063	.00305	.0843	.0032
%RSD	150.60	.45197	22.075	.51789	.76315	2.0415	.31401
#1	15.628	10.080	14.013	1.2131	.39552	4.2252	1.0190
#2	-6.2999	9.9896	21.241	1.2092	.40052	4.0611	1.0180
#3	16.268	10.030	21.166	1.2215	.40103	4.1093	1.0240
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94657**	**.96219**	**.53523**	**1.0150**	**.94093**	F **.07408**
Stddev	.00229	.00255	.00185	.0094	.00319	.09889
%RSD	.24228	.26540	.34483	.92605	.33875	133.49
#1	.94837	.96416	.53355	1.0046	.93865	.01132
#2	.94399	.95930	.53495	1.0178	.93958	.02285
#3	.94736	.96310	.53720	1.0228	.94457	.18808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91216.**	**51619.**
Stddev	201.	385.
%RSD	.21982	.74645
#1	91234.	52059.
#2	91007.	51457.
#3	91407.	51341.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 16:12:49 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00290**	**-.00013**	**.00076**	**.00238**	**-.00042**	**-.00010**	**.00197**
Stddev	.00014	.00260	.00066	.00085	.00015	.00001	.00522
%RSD	4.9984	1987.3	87.071	35.572	34.252	12.081	264.30
#1	.00307	-.00312	.00057	.00287	-.00059	-.00012	.00049
#2	.00280	.00114	.00021	.00288	-.00031	-.00009	.00778
#3	.00283	.00159	.00150	.00140	-.00038	-.00010	-.00234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00003**	**-.00014**	**.00013**	**-.00225**	**.06043**	**-.00209**
Stddev	.00018	.00017	.00019	.00026	.00610	.01290	.00376
%RSD	1301.2	489.55	133.48	203.96	271.62	21.353	180.36
#1	.00021	-.00020	-.00034	.00041	.00080	.07153	.00078
#2	-.00002	-.00005	-.00011	.00007	-.00927	.06349	-.00635
#3	-.00015	.00014	.00003	-.00010	.00173	.04627	-.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01541**	**.00106**	**.00048**	**.01809**	**-.00101**	F **-1.8413**	**-.00151**
Stddev	.02027	.00051	.00014	.00968	.00060	26.888	.00126
%RSD	131.53	47.971	30.266	53.504	59.850	1460.2	83.935
#1	-.01817	.00155	.00063	.02701	-.00114	-30.773	-.00013
#2	.00610	.00053	.00046	.01947	-.00154	2.8705	-.00262
#3	-.03417	.00109	.00035	.00780	-.00035	22.379	-.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 16:12:49 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **16.063**	F **.01746**	F **.90118**	**.00261**	**.00094**	**.03615**	**-.00001**
Stddev	15.179	.03473	3.1873	.00181	.00179	.16979	.00009
%RSD	94.496	198.95	353.67	69.285	191.81	469.69	919.72
#1	14.523	.01907	2.9279	.00056	.00236	-.10733	-.00011
#2	31.953	.05135	2.5483	.00329	.00152	-.00783	.00007
#3	1.7125	-.01805	-2.7726	.00398	-.00108	.22361	.00001
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00067**	**.00011**	**.00020**	**-.00001**	F **-.32649**
Stddev	.00012	.00193	.00098	.00030	.00013	.20504
%RSD	564.09	289.47	861.90	147.58	1793.3	62.802
#1	.00014	-.00156	-.00100	-.00014	.00013	-.12036
#2	.00003	.00168	.00049	.00035	-.00002	-.53043
#3	-.00010	.00188	.00085	.00040	-.00012	-.32869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92643.**	**52021.**
Stddev	752.	548.
%RSD	.81178	1.0530
#1	93391.	52649.
#2	92650.	51770.
#3	91887.	51644.

Approved: March 01, 2011

Sample Name: L1102047830 Acquired: 2/25/2011 16:16:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00320**	**43.622**	**.02980**	**.03557**	**.60679**	**.00394**	**208.52**
Stddev	.00086	.366	.00034	.00139	.00355	.00001	1.05
%RSD	26.887	.83915	1.1499	3.9034	.58500	.31057	.50211
#1	.00419	43.259	.02955	.03490	.60327	.00393	207.41
#2	.00274	43.616	.02966	.03717	.60672	.00396	208.64
#3	.00266	43.991	.03019	.03464	.61037	.00395	209.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00293**	**.03195**	**.05658**	**.15598**	**56.084**	**13.073**	**.04263**
Stddev	.00005	.00057	.00050	.00307	.355	.080	.00018
%RSD	1.6921	1.7873	.88413	1.9697	.63241	.61037	.43121
#1	.00297	.03135	.05606	.15308	55.728	12.995	.04281
#2	.00287	.03201	.05706	.15568	56.087	13.155	.04264
#3	.00295	.03249	.05661	.15920	56.437	13.068	.04244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.921**	**2.6729**	**.00202**	**2.3267**	**.05244**	F **26250.**	**.13878**
Stddev	.115	.0144	.00037	.0220	.00065	288.	.00187
%RSD	.60785	.53871	18.081	.94323	1.2361	1.0974	1.3481
#1	18.797	2.6573	.00170	2.3128	.05170	25946.	.13665
#2	19.024	2.6756	.00195	2.3153	.05291	26284.	.14016
#3	18.941	2.6857	.00242	2.3520	.05271	26519.	.13954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047830 Acquired: 2/25/2011 16:16:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.319**	F **295.69**	F **-6392.0**	**.00513**	**.00125**	**72.166**	**.00545**
Stddev	7.142	4.51	112.1	.00153	.00155	.289	.00017
%RSD	69.211	1.5244	1.7538	29.830	124.61	.40006	3.0568
#1	7.0548	290.96	-6283.1	.00497	-.00053	72.500	.00564
#2	18.510	296.18	-6385.9	.00674	.00192	71.998	.00533
#3	5.3931	299.93	-6507.0	.00369	.00235	72.001	.00537
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15812**	**.08566**	**.00471**	**.08135**	**.34685**	**37.688**
Stddev	.00121	.00164	.00130	.00116	.00607	.238
%RSD	.76626	1.9193	27.495	1.4214	1.7495	.63146
#1	.15704	.08596	.00335	.08079	.34042	37.511
#2	.15789	.08713	.00593	.08058	.34767	37.595
#3	.15943	.08388	.00487	.08268	.35247	37.959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92999.**	**52603.**
Stddev	243.	183.
%RSD	.26154	.34809
#1	93246.	52668.
#2	92991.	52396.
#3	92759.	52744.

Approved: March 01, 2011

Sample Name: L1102047831 Acquired: 2/25/2011 16:20:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00334**	**42.084**	**.03384**	**.03524**	**.50740**	**.00346**	**365.38**
Stddev	.00062	.149	.00100	.00112	.00288	.00003	1.23
%RSD	18.585	.35385	2.9611	3.1875	.56755	.74555	.33655
#1	.00276	41.944	.03353	.03639	.50415	.00343	364.00
#2	.00400	42.240	.03303	.03518	.50840	.00347	365.80
#3	.00327	42.068	.03496	.03415	.50964	.00348	366.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00265**	**.02766**	**.05443**	**.11438**	**52.034**	**10.410**	**.04253**
Stddev	.00014	.00010	.00033	.00142	.169	.037	.00220
%RSD	5.1310	.36298	.60991	1.2371	.32410	.35958	5.1748
#1	.00264	.02755	.05421	.11301	51.855	10.368	.04414
#2	.00252	.02774	.05481	.11431	52.057	10.440	.04342
#3	.00279	.02771	.05427	.11583	52.190	10.423	.04002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.551**	**2.3698**	**.00171**	**2.0583**	**.05054**	F **18481.**	**.15186**
Stddev	.021	.0076	.00014	.0085	.00046	89.	.00280
%RSD	.12588	.32125	8.2793	.41422	.90480	.48093	1.8431
#1	16.530	2.3612	.00176	2.0488	.05069	18381.	.14865
#2	16.571	2.3724	.00155	2.0654	.05002	18511.	.15376
#3	16.554	2.3758	.00182	2.0607	.05090	18552.	.15318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047831 Acquired: 2/25/2011 16:20:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **19.475**	F **440.22**	F **-5935.7**	**.00567**	**.00087**	**89.785**	**.00296**
Stddev	5.135	3.04	55.3	.00080	.00058	.747	.00020
%RSD	26.367	.68969	.93224	14.101	66.818	.83246	6.6651
#1	17.594	437.17	-5873.5	.00575	.00095	89.396	.00281
#2	25.285	440.24	-5954.1	.00642	.00140	90.647	.00289
#3	15.546	443.25	-5979.5	.00483	.00025	89.312	.00319
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13969**	**.08080**	**.00599**	**.08432**	**.26479**	**27.874**
Stddev	.00056	.00218	.00071	.00023	.00196	.168
%RSD	.40301	2.6950	11.918	.26826	.74020	.60303
#1	.13905	.08044	.00536	.08457	.26285	27.712
#2	.13994	.08314	.00677	.08412	.26474	27.863
#3	.14009	.07883	.00585	.08427	.26677	28.047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91145.**	**52008.**
Stddev	136.	341.
%RSD	.14908	.65506
#1	91064.	51898.
#2	91301.	51736.
#3	91068.	52390.

Approved: March 01, 2011

Sample Name: L1102047832 Acquired: 2/25/2011 16:23:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00376**	**25.692**	**.03117**	**.02457**	**.35777**	**.00234**	**366.13**
Stddev	.00045	.104	.00077	.00127	.00153	.00001	1.19
%RSD	11.895	.40341	2.4821	5.1513	.42847	.22545	.32582
#1	.00427	25.652	.03032	.02394	.35609	.00234	365.10
#2	.00342	25.810	.03135	.02603	.35811	.00233	365.84
#3	.00360	25.614	.03183	.02375	.35910	.00233	367.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00290**	**.02117**	**.04165**	**.11134**	**37.763**	**6.7369**	**.03283**
Stddev	.00005	.00018	.00047	.00053	.162	.0207	.00230
%RSD	1.7945	.83166	1.1170	.47371	.42970	.30676	7.0037
#1	.00289	.02108	.04208	.11195	37.587	6.7324	.03198
#2	.00296	.02138	.04115	.11104	37.794	6.7594	.03544
#3	.00285	.02106	.04171	.11103	37.907	6.7188	.03108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.235**	**2.7803**	**.00167**	**.15662**	**.03999**	F **14988.**	**.17152**
Stddev	.096	.0081	.00017	.00727	.00075	39.	.00140
%RSD	.47286	.29101	10.260	4.6405	1.8854	.25997	.81743
#1	20.145	2.7716	.00166	.15120	.03982	14944.	.16990
#2	20.226	2.7818	.00151	.16488	.03933	15002.	.17234
#3	20.336	2.7875	.00185	.15378	.04081	15017.	.17232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047832 Acquired: 2/25/2011 16:23:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.483**	F **395.80**	F **-2556.9**	**.00409**	**-.00048**	**77.821**	**.00219**
Stddev	10.775	1.08	7.6	.00052	.00284	.248	.00064
%RSD	102.79	.27345	.29686	12.792	585.69	.31929	29.246
#1	20.436	394.67	-2557.2	.00401	.00143	78.033	.00279
#2	-.95935	395.90	-2549.2	.00465	.00086	77.881	.00151
#3	11.973	396.83	-2564.3	.00361	-.00374	77.548	.00228
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13558**	**.06299**	**.00444**	**.06344**	**.26813**	**20.664**
Stddev	.00099	.00181	.00129	.00031	.00033	.257
%RSD	.73381	2.8768	29.134	.49020	.12447	1.2443
#1	.13446	.06243	.00574	.06351	.26775	20.466
#2	.13636	.06501	.00316	.06371	.26828	20.955
#3	.13592	.06151	.00442	.06310	.26836	20.572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90795.**	**51921.**
Stddev	148.	58.
%RSD	.16252	.11173
#1	90881.	51988.
#2	90624.	51889.
#3	90878.	51885.

Approved: March 01, 2011

Sample Name: L1102047833 Acquired: 2/25/2011 16:27:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00393**	**26.508**	**.02704**	**.02269**	**.37140**	**.00218**	**276.11**
Stddev	.00046	.227	.00145	.00083	.00145	.00004	1.11
%RSD	11.708	.85557	5.3601	3.6662	.38959	1.7409	.40335
#1	.00419	26.766	.02655	.02328	.36984	.00222	274.89
#2	.00420	26.419	.02589	.02305	.37167	.00217	276.38
#3	.00340	26.339	.02867	.02173	.37269	.00215	277.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00178**	**.02222**	**.03838**	**.08358**	**37.216**	**5.0315**	**.02657**
Stddev	.00006	.00019	.00016	.00187	.158	.0417	.00095
%RSD	3.4201	.86976	.41178	2.2327	.42506	.82868	3.5657
#1	.00185	.02207	.03856	.08144	37.097	5.0326	.02731
#2	.00172	.02216	.03831	.08443	37.154	4.9892	.02550
#3	.00178	.02244	.03827	.08487	37.395	5.0726	.02689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.576**	**1.9550**	**.00072**	**.21315**	**.03796**	F **10531.**	**.09960**
Stddev	.028	.0033	.00015	.00026	.00132	109.	.00207
%RSD	.20400	.16971	20.999	.12285	3.4672	1.0359	2.0797
#1	13.556	1.9529	.00055	.21316	.03709	10417.	.09762
#2	13.565	1.9533	.00085	.21340	.03732	10541.	.10175
#3	13.608	1.9589	.00075	.21288	.03948	10635.	.09942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047833 Acquired: 2/25/2011 16:27:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.1279**	F **303.45**	F **-1687.7**	**.00288**	**.00164**	**77.699**	**.00204**
Stddev	9.9033	2.93	27.2	.00108	.00154	.343	.00018
%RSD	161.61	.96565	1.6103	37.611	94.073	.44128	8.6380
#1	-5.3035	300.33	-1663.1	.00287	.00117	77.738	.00183
#2	11.586	303.86	-1683.2	.00398	.00336	78.020	.00214
#3	12.101	306.15	-1716.9	.00181	.00038	77.338	.00214
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10807**	**.06198**	**.00402**	**.06551**	**.16242**	**21.697**
Stddev	.00093	.00052	.00007	.00082	.00273	.321
%RSD	.86073	.83352	1.6704	1.2548	1.6806	1.4774
#1	.10796	.06238	.00395	.06639	.15950	21.881
#2	.10721	.06216	.00407	.06476	.16286	21.883
#3	.10906	.06140	.00404	.06537	.16490	21.327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92352.**	**51950.**
Stddev	280.	642.
%RSD	.30334	1.2367
#1	92251.	51210.
#2	92137.	52282.
#3	92669.	52360.

Approved: March 01, 2011

Sample Name: L1102047834 Acquired: 2/25/2011 16:31:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357587-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00428**	**29.194**	**.03417**	**.02679**	**.34451**	**.00252**	**336.13**
Stddev	.00068	.127	.00095	.00131	.00048	.00002	.67
%RSD	15.985	.43351	2.7720	4.8837	.13937	.90647	.20012
#1	.00455	29.268	.03339	.02529	.34506	.00254	335.40
#2	.00351	29.267	.03389	.02769	.34415	.00252	336.72
#3	.00479	29.048	.03522	.02738	.34433	.00249	336.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00315**	**.02028**	**.04491**	**.12030**	**40.476**	**6.9124**	**.04003**
Stddev	.00017	.00019	.00010	.00117	.082	.0495	.00080
%RSD	5.5515	.94097	.22110	.97158	.20182	.71654	1.9862
#1	.00304	.02010	.04480	.11900	40.392	6.9694	.03997
#2	.00305	.02027	.04499	.12063	40.555	6.8803	.04085
#3	.00335	.02048	.04494	.12126	40.482	6.8874	.03927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.499**	**3.0470**	**.00131**	**.32755**	**.04140**	F **13847.**	**.20003**
Stddev	.068	.0101	.00022	.01020	.00053	128.	.00249
%RSD	.30212	.33032	16.481	3.1131	1.2788	.92513	1.2473
#1	22.480	3.0431	.00134	.33260	.04081	13719.	.19789
#2	22.575	3.0584	.00150	.33424	.04155	13847.	.20277
#3	22.443	3.0394	.00108	.31582	.04184	13975.	.19943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047834 Acquired: 2/25/2011 16:31:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357587-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.496**	F **370.07**	F **-3016.9**	**.00297**	**.00327**	**76.035**	**.00297**
Stddev	4.872	2.85	32.6	.00209	.00106	.442	.00038
%RSD	22.663	.76996	1.0802	70.497	32.354	.58123	12.810
#1	27.010	367.20	-2982.0	.00531	.00432	75.888	.00312
#2	19.701	370.11	-3022.4	.00231	.00328	76.532	.00254
#3	17.776	372.89	-3046.5	.00128	.00220	75.686	.00325
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13088**	**.06163**	**.00470**	**.06327**	**.29086**	**21.366**
Stddev	.00016	.00173	.00117	.00014	.00301	.275
%RSD	.12553	2.8129	24.976	.21798	1.0336	1.2887
#1	.13070	.06222	.00512	.06342	.28791	21.107
#2	.13092	.06298	.00338	.06321	.29074	21.335
#3	.13103	.05967	.00561	.06316	.29392	21.656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92039.**	**52243.**
Stddev	34.	185.
%RSD	.03721	.35391
#1	92013.	52194.
#2	92078.	52088.
#3	92027.	52448.

Approved: March 01, 2011

Sample Name: L1102047834S Acquired: 2/25/2011 16:34:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357587-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04270**	**26.486**	**.07199**	**.02685**	**.35871**	**.00248**	**343.64**
Stddev	.00038	.146	.00133	.00145	.00095	.00001	.80
%RSD	.88981	.55246	1.8494	5.3868	.26589	.54751	.23145
#1	.04312	26.654	.07352	.02846	.35763	.00247	344.56
#2	.04262	26.414	.07108	.02641	.35946	.00250	343.18
#3	.04238	26.389	.07137	.02567	.35902	.00249	343.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00825**	**.01999**	**.04365**	**.17035**	**39.371**	**6.6407**	**.03433**
Stddev	.00004	.00008	.00061	.00017	.059	.0159	.00159
%RSD	.47568	.37829	1.4082	.10216	.15091	.23897	4.6221
#1	.00827	.02000	.04390	.17027	39.319	6.6436	.03290
#2	.00821	.02006	.04411	.17023	39.359	6.6549	.03406
#3	.00828	.01991	.04296	.17055	39.436	6.6236	.03604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.693**	**3.1500**	**.00161**	**.35119**	**.04037**	F **14213.**	**.24990**
Stddev	.031	.0076	.00029	.00072	.00027	55.	.00094
%RSD	.14074	.24300	18.038	.20433	.66188	.38655	.37752
#1	21.662	3.1568	.00190	.35101	.04014	14163.	.25043
#2	21.724	3.1515	.00132	.35198	.04032	14272.	.25045
#3	21.692	3.1417	.00162	.35058	.04067	14205.	.24881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047834S Acquired: 2/25/2011 16:34:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357587-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.849**	F **373.89**	F **-3188.8**	**.00594**	**.00166**	**85.043**	**.00305**
Stddev	4.776	.47	24.2	.00166	.00085	1.208	.00045
%RSD	37.172	.12549	.75906	28.029	51.148	1.4209	14.714
#1	18.178	373.86	-3164.7	.00751	.00068	84.878	.00253
#2	8.9566	373.43	-3188.8	.00612	.00221	86.325	.00334
#3	11.411	374.37	-3213.1	.00419	.00209	83.925	.00328
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13417**	**.06645**	**.00531**	**.06516**	**.27986**	**19.959**
Stddev	.00036	.00036	.00031	.00061	.00030	.130
%RSD	.26828	.54273	5.7808	.93698	.10894	.65372
#1	.13376	.06685	.00562	.06528	.27968	20.031
#2	.13431	.06616	.00501	.06570	.27970	19.809
#3	.13443	.06633	.00528	.06450	.28021	20.038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92011.**	**52620.**
Stddev	234.	148.
%RSD	.25457	.28047
#1	91768.	52526.
#2	92031.	52543.
#3	92235.	52790.

Approved: March 01, 2011

Sample Name: L1102047834SD Acquired: 2/25/2011 16:38:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357587-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04335**	**27.398**	**.07044**	**.02724**	**.36361**	**.00254**	**364.12**
Stddev	.00056	.139	.00218	.00111	.00061	.00003	.21
%RSD	1.3028	.50766	3.0931	4.0854	.16751	1.2366	.05851
#1	.04399	27.383	.07188	.02597	.36306	.00253	364.23
#2	.04315	27.267	.07150	.02808	.36352	.00257	364.26
#3	.04292	27.544	.06793	.02766	.36426	.00251	363.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00858**	**.02124**	**.04523**	**.17550**	**40.633**	**6.8476**	**.03580**
Stddev	.00005	.00010	.00080	.00022	.068	.0670	.00132
%RSD	.53676	.49155	1.7678	.12422	.16703	.97873	3.6961
#1	.00852	.02124	.04494	.17526	40.560	6.7917	.03501
#2	.00860	.02135	.04462	.17567	40.647	6.9219	.03506
#3	.00861	.02114	.04614	.17559	40.693	6.8293	.03732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.561**	**3.2308**	**.00152**	**.36920**	**.04142**	F **14953.**	**.26345**
Stddev	.068	.0066	.00023	.00776	.00040	36.	.00177
%RSD	.30300	.20395	15.452	2.1022	.95961	.24057	.67311
#1	22.603	3.2243	.00128	.37817	.04105	14917.	.26193
#2	22.482	3.2306	.00151	.36477	.04184	14953.	.26302
#3	22.597	3.2374	.00175	.36467	.04139	14989.	.26540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047834SD Acquired: 2/25/2011 16:38:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357587-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.570**	F **399.87**	F **-3270.8**	**.00640**	**-.00045**	**89.384**	**.00353**
Stddev	8.416	.66	22.6	.00174	.00135	.313	.00034
%RSD	66.951	.16604	.69176	27.260	302.06	.35038	9.7794
#1	20.437	399.10	-3263.3	.00837	.00107	89.025	.00322
#2	3.6962	400.18	-3296.2	.00504	-.00091	89.528	.00390
#3	13.576	400.31	-3252.8	.00579	-.00150	89.600	.00346
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14207**	**.06815**	**.00520**	**.06720**	**.29441**	**20.279**
Stddev	.00033	.00171	.00131	.00039	.00043	.533
%RSD	.23251	2.5151	25.212	.58395	.14455	2.6302
#1	.14170	.06675	.00455	.06738	.29428	20.852
#2	.14217	.06765	.00435	.06747	.29489	20.189
#3	.14234	.07006	.00671	.06675	.29407	19.796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90818.**	**52618.**
Stddev	729.	156.
%RSD	.80295	.29739
#1	90229.	52737.
#2	90592.	52675.
#3	91634.	52441.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 16:42:05 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43923**	F **11.674**	**.40078**	**.52577**	**.99970**	**.05487**	**10.082**
Stddev	.00480	.034	.00073	.00291	.00117	.00033	.021
%RSD	1.0933	.28969	.18266	.55388	.11716	.60068	.21152
#1	.43736	11.660	.40146	.52395	1.0008	.05474	10.069
#2	.44469	11.713	.40087	.52912	.99848	.05525	10.071
#3	.43565	11.650	.40000	.52422	.99979	.05463	10.107
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		10.000					
Range		10.000%					

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05367**	**.20697**	**.54047**	**.49076**	**3.8934**	**52.400**	**1.0234**
Stddev	.00010	.00023	.00283	.00070	.0171	.151	.0035
%RSD	.19424	.11012	.52452	.14253	.43957	.28737	.34183
#1	.05376	.20715	.53843	.49012	3.9029	52.308	1.0263
#2	.05369	.20671	.54371	.49151	3.8737	52.573	1.0195
#3	.05356	.20704	.53928	.49066	3.9037	52.317	1.0245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.168**	**.46249**	**.97283**	**50.830**	**.50512**	F **19.896**	**.51087**
Stddev	.061	.00298	.00053	.015	.00108	11.149	.00076
%RSD	.60309	.64389	.05460	.02994	.21401	56.035	.14822
#1	10.099	.45906	.97248	50.818	.50485	7.0799	.51173
#2	10.189	.46436	.97256	50.847	.50631	25.253	.51054
#3	10.216	.46406	.97344	50.824	.50420	27.355	.51033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 16:42:05 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.6847**	**10.055**	F **28.034**	**1.2095**	**.39266**	F **3.9797**	**1.0162**
Stddev	12.480	.044	4.769	.0043	.00180	.0849	.0003
%RSD	740.76	.43420	17.011	.35923	.45865	2.1325	.03346
#1	-15.918	10.105	24.191	1.2093	.39101	3.9502	1.0159
#2	7.3799	10.038	33.371	1.2139	.39458	4.0753	1.0161
#3	3.4845	10.023	26.541	1.2052	.39239	3.9135	1.0165
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94124**	**.95360**	**.53087**	**1.0247**	**.93490**	F **.03571**
Stddev	.00255	.00256	.00077	.0077	.00161	.12235
%RSD	.27094	.26888	.14497	.75374	.17224	342.63
#1	.94406	.95115	.53175	1.0206	.93486	.11812
#2	.94053	.95627	.53057	1.0337	.93331	-.10488
#3	.93911	.95337	.53030	1.0200	.93653	.09388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91265.**	**50623.**
Stddev	164.	226.
%RSD	.17983	.44562
#1	91332.	50743.
#2	91384.	50363.
#3	91078.	50764.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 16:45:41 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00220**	**.00688**	**.00085**	**.00211**	**-.00056**	**-.00009**	**.00597**
Stddev	.00008	.00395	.00154	.00143	.00016	.00002	.01261
%RSD	3.6593	57.387	181.32	67.741	29.368	21.284	211.14
#1	.00212	.00918	-.00044	.00051	-.00048	-.00007	-.00390
#2	.00219	.00913	.00043	.00326	-.00075	-.00009	.02017
#3	.00228	.00232	.00256	.00256	-.00045	-.00011	.00165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00005**	**.00064**	**-.00066**	**-.00004**	**.07878**	**-.00195**
Stddev	.00008	.00023	.00031	.00029	.00510	.04542	.00231
%RSD	394.71	474.00	49.525	44.973	13105.	57.659	118.56
#1	.00011	.00018	.00098	-.00080	-.00294	.12712	-.00335
#2	.00002	-.00005	.00037	-.00085	.00585	.07224	-.00321
#3	-.00006	-.00028	.00055	-.00032	-.00302	.03698	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.04002**	**.00048**	**.00049**	**.02214**	**-.00050**	F **-5.4190**	**-.00413**
Stddev	.03519	.00006	.00018	.00899	.00054	6.1553	.00178
%RSD	87.930	13.503	38.082	40.589	108.07	113.59	43.068
#1	-.03047	.00049	.00069	.02878	-.00043	-1.8254	-.00523
#2	-.07901	.00041	.00034	.01192	.00000	-12.526	-.00208
#3	-.01059	.00053	.00043	.02573	-.00107	-1.9053	-.00509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 16:45:41 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.218**	F **-.10448**	F **12.463**	**.00370**	**-.00244**	**.01790**	**-.00001**
Stddev	6.404	.05379	2.655	.00045	.00194	.17661	.00026
%RSD	52.413	51.483	21.302	12.223	79.384	986.66	2530.4
#1	7.3305	-.14633	10.162	.00378	-.00024	-.15413	.00026
#2	9.8563	-.12330	15.368	.00321	-.00322	.19875	-.00004
#3	19.467	-.04381	11.859	.00410	-.00387	.00908	-.00025
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00027**	**.00057**	**-.00044**	**-.00003**	F **-.29042**
Stddev	.00009	.00115	.00033	.00018	.00002	.16533
%RSD	71.598	419.80	57.862	40.431	64.895	56.928
#1	.00019	-.00006	.00095	-.00035	-.00001	-.21350
#2	.00002	-.00152	.00037	-.00032	-.00004	-.17757
#3	.00018	.00075	.00039	-.00064	-.00004	-.48020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92788.**	**50783.**
Stddev	161.	443.
%RSD	.17314	.87313
#1	92604.	51236.
#2	92903.	50350.
#3	92857.	50762.

Approved: March 01, 2011

Sample Name: L1102042302 Acquired: 2/25/2011 16:49:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03402**	**230.21**	**.19076**	**.25202**	**3.4991**	F **-.00163**	F **1152.1**
Stddev	.00081	2.60	.00192	.00122	.0063	.00005	17.7
%RSD	2.3916	1.1287	1.0076	.48316	.18144	2.9278	1.5331
#1	.03399	229.63	.19282	.25085	3.4969	-.00159	1147.7
#2	.03322	227.96	.19047	.25192	3.4941	-.00163	1137.1
#3	.03484	233.06	.18900	.25328	3.5062	-.00168	1171.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						4.5000	900.00
Low Limit						-.00050	-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00858**	**.13511**	**.33665**	**3.6628**	**322.36**	**43.760**	**.53145**
Stddev	.00014	.00030	.00113	.0073	1.16	.219	.00170
%RSD	1.6839	.22256	.33424	.19924	.36122	.50142	.31974
#1	.00861	.13518	.33535	3.6550	321.52	43.571	.52988
#2	.00842	.13536	.33720	3.6695	321.86	43.708	.53122
#3	.00870	.13478	.33739	3.6640	323.69	44.000	.53325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**205.63**	**4.0013**	**.01288**	**3.5660**	**.27851**	F **56415.**	**.31304**
Stddev	.48	.0385	.00033	.0084	.00156	217.	.00120
%RSD	.23461	.96244	2.5595	.23507	.56124	.38494	.38194
#1	205.21	3.9716	.01252	3.5754	.27698	56649.	.31220
#2	205.52	3.9875	.01317	3.5632	.28011	56376.	.31441
#3	206.16	4.0448	.01294	3.5594	.27843	56220.	.31250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042302 Acquired: 2/25/2011 16:49:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **28.455**	F **1346.2**	F **-14990.**	**.01500**	**.00529**	F **243.62**	**.01855**
Stddev	6.184	2.2	77.	.00521	.00381	1.81	.00017
%RSD	21.733	.16396	.51609	34.755	72.086	.74205	.90032
#1	29.113	1344.8	-14905.	.00962	.00092	245.27	.01841
#2	21.968	1348.8	-15056.	.02003	.00797	243.90	.01849
#3	34.283	1345.1	-15009.	.01535	.00697	241.69	.01873
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.6930**	**4.9359**	**.02229**	**.63155**	**.73427**	F **197.83**
Stddev	.0140	.0313	.00235	.00508	.00319	1.58
%RSD	.37976	.63504	10.536	.80428	.43463	.80011
#1	3.6852	4.9136	.02085	.62576	.73063	196.03
#2	3.6845	4.9223	.02500	.63365	.73660	199.00
#3	3.7092	4.9717	.02101	.63524	.73558	198.46
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82054.**	**49552.**
Stddev	73.	146.
%RSD	.08880	.29366
#1	81970.	49682.
#2	82102.	49579.
#3	82090.	49395.

Approved: March 01, 2011

Sample Name: L1102042302PS Acquired: 2/25/2011 16:53:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357516-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23604**	**207.24**	**.37695**	**1.1316**	**3.6210**	**.02424**	F **1032.3**
Stddev	.00262	1.83	.00819	.0098	.0150	.00025	14.2
%RSD	1.1095	.88214	2.1736	.86147	.41290	1.0182	1.3788
#1	.23312	207.89	.38630	1.1209	3.6040	.02398	1016.0
#2	.23682	205.18	.37351	1.1338	3.6267	.02427	1038.6
#3	.23818	208.66	.37104	1.1400	3.6322	.02448	1042.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03496**	**.21835**	**.52878**	**3.5679**	**289.18**	**65.544**	**.99884**
Stddev	.00027	.00295	.00309	.0439	1.61	.332	.00630
%RSD	.75840	1.3495	.58384	1.2291	.55840	.50710	.63118
#1	.03526	.22161	.52560	3.6174	287.42	65.167	.99157
#2	.03486	.21755	.52897	3.5526	289.54	65.670	1.0028
#3	.03476	.21589	.53176	3.5338	290.59	65.795	1.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**186.79**	**3.8064**	**.50710**	**29.282**	**.49013**	F **51573.**	**.51868**
Stddev	1.21	.0199	.00617	.163	.00685	625.	.00611
%RSD	.64741	.52168	1.2163	.55691	1.3968	1.2127	1.1779
#1	185.44	3.8061	.51391	29.098	.49752	52254.	.52571
#2	187.15	3.7867	.50551	29.339	.48887	51441.	.51565
#3	187.78	3.8264	.50188	29.409	.48400	51025.	.51467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042302PS Acquired: 2/25/2011 16:53:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357516-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **31.853**	F **1227.4**	F **-13728.**	**.60282**	**.20320**	F **538.39**	**.01841**
Stddev	3.638	13.7	171.	.01237	.00743	6.63	.00032
%RSD	11.421	1.1122	1.2429	2.0523	3.6561	1.2307	1.7238
#1	35.472	1242.6	-13917.	.61621	.21078	545.63	.01830
#2	28.197	1223.2	-13684.	.60045	.19593	536.93	.01877
#3	31.890	1216.3	-13584.	.59181	.20289	532.62	.01817
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.7680**	**4.8881**	**.24514**	**1.0302**	**1.1032**	F **181.45**
Stddev	.0246	.0212	.00210	.0094	.0108	2.16
%RSD	.65371	.43327	.85749	.91211	.97994	1.1911
#1	3.7400	4.8655	.24633	1.0199	1.1157	179.10
#2	3.7778	4.8913	.24638	1.0327	1.0978	181.89
#3	3.7862	4.9075	.24271	1.0382	1.0962	183.36
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83238.**	**52165.**
Stddev	512.	175.
%RSD	.61522	.33478
#1	82653.	52365.
#2	83453.	52088.
#3	83607.	52043.

Approved: March 01, 2011

Sample Name: L1102042302SDL Acquired: 2/25/2011 16:57:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357516-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00904**	**57.045**	**.04178**	**.05801**	**.70051**	**-.00044**	**261.67**
Stddev	.00047	.221	.00129	.00042	.00097	.00002	.11
%RSD	5.2420	.38729	3.0764	.73199	.13897	4.1541	.04187
#1	.00850	56.800	.04199	.05845	.69974	-.00043	261.75
#2	.00920	57.230	.04295	.05797	.70017	-.00046	261.72
#3	.00941	57.103	.04040	.05760	.70160	-.00043	261.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.02923**	**.07454**	**.78033**	**67.375**	**8.9093**	**.10221**
Stddev	.00008	.00023	.00042	.00084	.045	.0388	.00207
%RSD	4.0849	.77361	.55768	.10793	.06680	.43521	2.0277
#1	.00215	.02924	.07410	.78107	67.323	8.9230	.10022
#2	.00210	.02945	.07462	.78050	67.397	8.9394	.10436
#3	.00198	.02900	.07492	.77941	67.404	8.8656	.10206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**43.563**	**.85135**	**.00266**	**.74791**	**.05935**	F **11959.**	**.06510**
Stddev	.052	.00199	.00014	.01578	.00037	6.	.00056
%RSD	.11878	.23335	5.1331	2.1095	.61714	.05435	.86456
#1	43.540	.85221	.00250	.76556	.05939	11957.	.06491
#2	43.623	.84908	.00275	.73519	.05897	11966.	.06573
#3	43.527	.85276	.00272	.74297	.05970	11954.	.06465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042302SDL Acquired: 2/25/2011 16:57:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357516-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.162**	F **293.39**	F **-3116.7**	**.00308**	**.00457**	**49.128**	**.00347**
Stddev	8.679	.55	3.3	.00157	.00235	.158	.00033
%RSD	85.412	.18823	.10716	51.156	51.506	.32149	9.4418
#1	11.395	294.02	-3120.6	.00486	.00545	49.022	.00367
#2	.93158	293.02	-3114.6	.00246	.00635	49.310	.00309
#3	18.158	293.12	-3115.1	.00190	.00190	49.054	.00364
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.74110**	**1.0052**	**.00640**	**.13661**	**.15911**	**40.028**
Stddev	.00016	.0031	.00032	.00072	.00041	.337
%RSD	.02126	.30649	5.0253	.52795	.25586	.84243
#1	.74110	1.0077	.00603	.13579	.15957	39.720
#2	.74094	1.0060	.00657	.13714	.15898	40.388
#3	.74126	1.0017	.00660	.13691	.15879	39.976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91846.**	**52422.**
Stddev	204.	294.
%RSD	.22257	.56117
#1	91617.	52760.
#2	92011.	52277.
#3	91910.	52228.

Approved: March 01, 2011

Sample Name: L1102042302SDL Acquired: 2/25/2011 17:00:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357516-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	**13.113**	**.01019**	**.01204**	**.14271**	**-.00024**	**53.157**
Stddev	.00048	.098	.00058	.00093	.00046	.00005	.077
%RSD	11.280	.74904	5.6963	7.7077	.32580	18.669	.14528
#1	.00454	13.099	.01022	.01258	.14219	-.00020	53.099
#2	.00369	13.218	.00960	.01097	.14309	-.00029	53.245
#3	.00449	13.023	.01076	.01257	.14285	-.00024	53.128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00637**	**.01715**	**.16417**	**13.934**	**1.8312**	**.01649**
Stddev	.00013	.00008	.00017	.00047	.020	.0315	.00091
%RSD	38.859	1.3136	.96480	.28871	.14111	1.7224	5.5136
#1	.00046	.00633	.01726	.16463	13.919	1.8560	.01708
#2	.00020	.00647	.01723	.16420	13.926	1.8419	.01545
#3	.00037	.00632	.01696	.16368	13.956	1.7957	.01695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.0451**	**.17509**	**.00018**	**.16006**	**.01212**	F **2496.8**	**.01140**
Stddev	.0283	.00100	.00016	.00066	.00027	13.1	.00024
%RSD	.31310	.57243	93.609	.40936	2.2205	.52341	2.1183
#1	9.0773	.17470	.00012	.16010	.01243	2492.8	.01129
#2	9.0240	.17623	.00036	.16070	.01194	2486.3	.01123
#3	9.0340	.17435	.00005	.15939	.01198	2511.5	.01168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042302SDL Acquired: 2/25/2011 17:00:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357516-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.1317**	F **64.641**	F **-636.39**	**.00021**	**-.00183**	**9.5219**	**.00040**
Stddev	6.8805	.120	5.03	.00125	.00296	.0667	.00052
%RSD	112.21	.18562	.78999	593.38	161.53	.69992	128.29
#1	-.98529	64.519	-632.59	-.00123	-.00460	9.5121	.00096
#2	12.748	64.645	-634.49	.00103	-.00220	9.5929	.00032
#3	6.6319	64.759	-642.09	.00083	.00129	9.4607	-.00007
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15179**	**.20319**	**.00440**	**.02950**	**.03420**	**6.0161**
Stddev	.00056	.00077	.00099	.00032	.00013	.4842
%RSD	.36627	.37659	22.449	1.0973	.37411	8.0488
#1	.15115	.20281	.00463	.02961	.03435	5.8146
#2	.15203	.20407	.00332	.02976	.03414	6.5686
#3	.15218	.20268	.00526	.02914	.03412	5.6652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**95029.**	**51346.**
Stddev	136.	535.
%RSD	.14272	1.0410
#1	95182.	51115.
#2	94925.	50966.
#3	94980.	51957.

Approved: March 01, 2011

Sample Name: L1102042303 Acquired: 2/25/2011 17:04:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02009**	**234.49**	**.16031**	**.20547**	**2.2970**	**.00481**	**585.28**
Stddev	.00069	2.89	.00062	.00033	.0013	.00005	.83
%RSD	3.4359	1.2342	.38858	.15933	.05591	.96856	.14214
#1	.01941	232.46	.16100	.20513	2.2985	.00477	585.25
#2	.02079	233.20	.15980	.20549	2.2965	.00486	584.46
#3	.02007	237.80	.16013	.20579	2.2960	.00481	586.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00882**	**.12619**	**.35954**	**4.5567**	**322.19**	**55.534**	**.26349**
Stddev	.00003	.00006	.00122	.0039	.11	.027	.00127
%RSD	.39264	.04562	.34023	.08567	.03346	.04914	.48095
#1	.00878	.12624	.35815	4.5607	322.08	55.550	.26330
#2	.00884	.12613	.35999	4.5566	322.29	55.503	.26485
#3	.00883	.12620	.36047	4.5529	322.21	55.551	.26234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**128.92**	**4.1274**	**.01421**	**1.7446**	**.26078**	F **48928.**	**1.0996**
Stddev	.29	.0029	.00031	.0031	.00072	115.	.0026
%RSD	.22648	.07035	2.1588	.17511	.27589	.23402	.23986
#1	128.97	4.1267	.01442	1.7412	.26000	49058.	1.1024
#2	128.61	4.1306	.01386	1.7455	.26094	48840.	1.0973
#3	129.19	4.1250	.01435	1.7471	.26141	48887.	1.0990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042303 Acquired: 2/25/2011 17:04:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **28.930**	F **673.95**	F **-10222.**	**.02457**	**.00276**	F **271.19**	**.19479**
Stddev	4.291	.96	24.	.00139	.00319	.80	.00064
%RSD	14.834	.14219	.23272	5.6528	115.34	.29376	.32823
#1	28.357	675.04	-10202.	.02616	.00307	271.69	.19516
#2	33.479	673.24	-10248.	.02365	.00579	271.62	.19406
#3	24.953	673.58	-10214.	.02388	-.00057	270.28	.19516
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2527**	**2.6151**	**.01542**	**.48889**	**1.1901**	F **249.89**
Stddev	.0017	.0027	.00063	.00259	.0020	1.31
%RSD	.13257	.10380	4.0735	.52896	.16899	.52448
#1	1.2545	2.6120	.01612	.48626	1.1914	248.83
#2	1.2522	2.6169	.01524	.49143	1.1910	251.36
#3	1.2513	2.6164	.01491	.48897	1.1878	249.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84917.**	**49421.**
Stddev	870.	50.
%RSD	1.0243	.10146
#1	83913.	49389.
#2	85457.	49479.
#3	85380.	49395.

Approved: March 01, 2011

Sample Name: L1102042304 Acquired: 2/25/2011 17:08:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02469**	**245.47**	**.13404**	**.21963**	**2.6772**	**.00308**	F **1183.7**
Stddev	.00045	3.31	.00063	.00135	.0019	.00003	8.5
%RSD	1.8363	1.3466	.47049	.61514	.07031	1.1371	.72210
#1	.02456	242.33	.13356	.21837	2.6752	.00307	1190.1
#2	.02520	245.17	.13476	.21947	2.6790	.00304	1186.9
#3	.02432	248.92	.13381	.22106	2.6773	.00311	1174.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00618**	**.11683**	**.34048**	**1.6775**	**299.34**	**55.987**	**.31026**
Stddev	.00012	.00029	.00175	.0041	.61	.252	.00202
%RSD	1.8824	.24599	.51487	.24467	.20258	.44973	.65223
#1	.00631	.11716	.33910	1.6778	298.98	55.729	.31134
#2	.00609	.11668	.33989	1.6815	299.01	56.001	.30793
#3	.00615	.11665	.34245	1.6733	300.04	56.232	.31152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**144.69**	**3.7489**	**.00874**	**2.1951**	**.26036**	F **40518.**	**.69194**
Stddev	.41	.0187	.00017	.0177	.00006	25.	.00070
%RSD	.28144	.49957	1.9136	.80664	.02369	.06201	.10107
#1	144.28	3.7304	.00888	2.1770	.26043	40495.	.69267
#2	144.70	3.7486	.00855	2.2124	.26035	40545.	.69127
#3	145.09	3.7679	.00878	2.1959	.26031	40515.	.69188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042304 Acquired: 2/25/2011 17:08:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **24.569**	F **1329.9**	F **-9349.1**	**.02015**	**.00402**	F **238.72**	**.03668**
Stddev	1.447	2.3	22.3	.00430	.00196	1.80	.00029
%RSD	5.8904	.17094	.23854	21.367	48.875	.75440	.78797
#1	24.059	1327.7	-9352.0	.02256	.00490	239.38	.03681
#2	26.202	1332.2	-9369.8	.02271	.00177	240.10	.03688
#3	23.446	1329.7	-9325.5	.01518	.00539	236.68	.03635
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.5089**	**3.5657**	**.01694**	**.48057**	**.82622**	F **236.10**
Stddev	.0037	.0116	.00022	.00285	.00190	1.98
%RSD	.14662	.32442	1.3146	.59374	.22978	.83803
#1	2.5062	3.5531	.01670	.47775	.82573	234.03
#2	2.5074	3.5759	.01714	.48050	.82832	236.29
#3	2.5131	3.5679	.01697	.48346	.82462	237.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83203.**	**50200.**
Stddev	196.	258.
%RSD	.23500	.51328
#1	83424.	50295.
#2	83131.	50396.
#3	83053.	49908.

Approved: March 01, 2011

Sample Name: L1102042305 Acquired: 2/25/2011 17:12:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00985**	**224.91**	**.17063**	**.17897**	**2.7499**	**.01132**	**420.53**
Stddev	.00035	1.07	.00200	.00062	.0007	.00007	.41
%RSD	3.5292	.47370	1.1737	.34901	.02561	.65357	.09724
#1	.00976	225.98	.16852	.17868	2.7504	.01125	420.09
#2	.00956	224.88	.17084	.17969	2.7502	.01140	420.90
#3	.01024	223.85	.17251	.17854	2.7491	.01132	420.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00798**	**.13465**	**.30501**	**4.2225**	**300.54**	**55.687**	**.27509**
Stddev	.00007	.00040	.00143	.0038	.37	.085	.00187
%RSD	.87588	.29564	.46913	.08971	.12434	.15227	.68113
#1	.00791	.13420	.30440	4.2192	300.18	55.589	.27521
#2	.00805	.13495	.30664	4.2217	300.93	55.741	.27689
#3	.00798	.13480	.30398	4.2266	300.51	55.732	.27315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**124.63**	**5.4462**	**.01431**	**1.3876**	**.27761**	F **41417.**	**.33545**
Stddev	.14	.0103	.00015	.0153	.00018	66.	.00295
%RSD	.11060	.18858	1.0332	1.0994	.06335	.16055	.87946
#1	124.48	5.4428	.01446	1.3865	.27741	41342.	.33235
#2	124.74	5.4577	.01431	1.4034	.27773	41470.	.33822
#3	124.68	5.4381	.01416	1.3729	.27769	41437.	.33577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042305 Acquired: 2/25/2011 17:12:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **29.790**	F **501.10**	F **-9008.4**	**.02152**	**.00409**	F **290.77**	**.01588**
Stddev	3.427	.46	23.4	.00120	.00411	.58	.00012
%RSD	11.505	.09101	.25952	5.5755	100.48	.19887	.77330
#1	29.934	500.74	-8981.6	.02253	.00373	290.69	.01601
#2	26.293	500.94	-9018.4	.02020	.00837	291.38	.01577
#3	33.144	501.61	-9025.1	.02183	.00017	290.23	.01586
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2912**	**1.0973**	**.01110**	**.43010**	**.90969**	F **270.82**
Stddev	.0012	.0009	.00139	.00281	.00116	1.09
%RSD	.09082	.07845	12.496	.65326	.12726	.40073
#1	1.2919	1.0977	.00985	.42689	.90903	269.64
#2	1.2919	1.0963	.01087	.43211	.90901	271.78
#3	1.2899	1.0979	.01259	.43129	.91103	271.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86954.**	**51134.**
Stddev	303.	142.
%RSD	.34882	.27864
#1	86647.	51077.
#2	87253.	51029.
#3	86961.	51296.

Approved: March 01, 2011

Sample Name: L1102042306 Acquired: 2/25/2011 17:15:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02525**	**299.72**	**.14608**	**.24677**	**3.9112**	**.00559**	F **1014.8**
Stddev	.00067	3.11	.00502	.00152	.0034	.00003	18.0
%RSD	2.6626	1.0387	3.4388	.61664	.08793	.55933	1.7727
#1	.02549	300.00	.14620	.24770	3.9150	.00557	998.35
#2	.02449	302.69	.15105	.24761	3.9101	.00563	1012.0
#3	.02578	296.48	.14100	.24502	3.9084	.00558	1034.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00635**	**.14185**	**.38058**	**1.8384**	**339.07**	**58.485**	**.35559**
Stddev	.00012	.00016	.00064	.0059	.55	.064	.00088
%RSD	1.8760	.11278	.16883	.32314	.16142	.10943	.24886
#1	.00639	.14196	.38018	1.8452	339.16	58.547	.35460
#2	.00622	.14167	.38132	1.8342	339.58	58.490	.35629
#3	.00645	.14193	.38024	1.8357	338.49	58.419	.35589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**147.93**	**5.7840**	**.00995**	**2.2411**	**.30697**	F **38514.**	**.25605**
Stddev	.25	.0120	.00028	.0208	.00101	93.	.00298
%RSD	.17228	.20727	2.8239	.92723	.32764	.24225	1.1622
#1	147.83	5.7815	.01027	2.2173	.30785	38441.	.25325
#2	148.22	5.7970	.00979	2.2512	.30718	38619.	.25572
#3	147.74	5.7734	.00979	2.2550	.30588	38482.	.25917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042306 Acquired: 2/25/2011 17:15:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **27.725**	F **1121.8**	F **-8300.2**	**.01673**	**.00626**	F **266.64**	**.01989**
Stddev	3.087	2.7	53.1	.00284	.00103	1.71	.00020
%RSD	11.133	.23803	.63965	16.995	16.438	.64228	1.0048
#1	26.008	1123.9	-8361.0	.01771	.00722	268.13	.01969
#2	31.288	1118.8	-8276.9	.01353	.00517	267.02	.01988
#3	25.878	1122.8	-8262.8	.01896	.00639	264.77	.02009
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.5253**	**3.9190**	**.01842**	**.56301**	**.91300**	F **315.82**
Stddev	.0028	.0038	.00128	.00142	.00433	.70
%RSD	.11212	.09777	6.9288	.25164	.47463	.22306
#1	2.5252	3.9161	.01841	.56218	.91800	315.01
#2	2.5282	3.9233	.01971	.56465	.91025	316.22
#3	2.5225	3.9176	.01716	.56221	.91075	316.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84358.**	**50303.**
Stddev	361.	272.
%RSD	.42834	.54138
#1	84573.	50160.
#2	84561.	50131.
#3	83941.	50617.

Approved: March 01, 2011

Sample Name: L1102042307 Acquired: 2/25/2011 17:19:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01431**	**301.45**	**.19030**	**.21844**	**2.6982**	**.01141**	**563.83**
Stddev	.00030	2.86	.00188	.00219	.0029	.00007	.93
%RSD	2.0927	.94986	.98700	1.0048	.10668	.60647	.16491
#1	.01416	298.16	.18981	.21986	2.7000	.01137	562.80
#2	.01465	302.76	.19237	.21591	2.6948	.01137	564.59
#3	.01411	303.42	.18871	.21954	2.6997	.01149	564.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00807**	**.13421**	**.38622**	**4.6156**	**339.77**	**78.992**	**.31056**
Stddev	.00007	.00041	.00314	.0076	.41	.040	.00328
%RSD	.87832	.30420	.81348	.16466	.11950	.05108	1.0560
#1	.00815	.13397	.38420	4.6111	339.45	78.946	.31215
#2	.00805	.13468	.38463	4.6244	339.62	79.009	.31274
#3	.00802	.13397	.38984	4.6112	340.22	79.022	.30679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**147.86**	**5.2019**	**.01245**	**1.8725**	**.30727**	F **38284.**	**.35229**
Stddev	.61	.0187	.00059	.0216	.00046	86.	.00184
%RSD	.41536	.35874	4.7355	1.1535	.14961	.22492	.52319
#1	147.21	5.1969	.01280	1.8802	.30757	38350.	.35427
#2	147.95	5.2226	.01177	1.8892	.30674	38316.	.35200
#3	148.43	5.1863	.01277	1.8481	.30750	38187.	.35062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042307 Acquired: 2/25/2011 17:19:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **26.768**	F **626.12**	F **-7963.0**	**.02046**	**.00409**	F **408.66**	**.01778**
Stddev	9.059	1.57	9.9	.00234	.00194	1.63	.00031
%RSD	33.844	.25010	.12401	11.440	47.466	.39768	1.7214
#1	37.018	624.79	-7968.4	.02272	.00380	409.74	.01813
#2	19.831	627.85	-7969.0	.02063	.00231	409.45	.01764
#3	23.457	625.72	-7951.6	.01804	.00616	406.79	.01756
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1269**	**1.9398**	**.01449**	**.44434**	**.92389**	F **336.47**
Stddev	.0027	.0035	.00210	.00367	.00182	2.45
%RSD	.23474	.18174	14.504	.82573	.19741	.72881
#1	1.1281	1.9391	.01273	.44253	.92387	336.85
#2	1.1239	1.9437	.01681	.44193	.92573	333.85
#3	1.1288	1.9367	.01392	.44856	.92208	338.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84649.**	**49808.**
Stddev	314.	380.
%RSD	.37080	.76249
#1	84806.	50202.
#2	84288.	49780.
#3	84854.	49444.

Approved: March 01, 2011

Sample Name: L1102042308 Acquired: 2/25/2011 17:23:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01939**	**295.13**	**.12460**	**.22127**	**3.1383**	**.00871**	F **1108.3**
Stddev	.00036	5.61	.00207	.00183	.0049	.00007	7.6
%RSD	1.8416	1.8997	1.6576	.82557	.15724	.82319	.68296
#1	.01973	288.74	.12470	.22247	3.1409	.00864	1106.2
#2	.01902	297.39	.12661	.21917	3.1414	.00878	1102.1
#3	.01942	299.25	.12249	.22217	3.1326	.00872	1116.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00536**	**.12749**	**.37491**	**1.3844**	**320.39**	**66.936**	**.34302**
Stddev	.00009	.00063	.00272	.0044	.32	.147	.00083
%RSD	1.5886	.49428	.72654	.32021	.09952	.21985	.24089
#1	.00542	.12802	.37192	1.3892	320.09	66.801	.34354
#2	.00540	.12765	.37554	1.3836	320.73	67.093	.34207
#3	.00526	.12679	.37726	1.3805	320.35	66.913	.34345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**149.71**	**4.7581**	**.00701**	**3.3467**	**.29250**	F **23465.**	**.23034**
Stddev	.60	.0152	.00027	.0107	.00073	139.	.00120
%RSD	.39883	.31865	3.8406	.32016	.24938	.59159	.52139
#1	149.06	4.7519	.00710	3.3572	.29322	23625.	.23166
#2	149.84	4.7754	.00722	3.3470	.29252	23391.	.23003
#3	150.23	4.7471	.00670	3.3358	.29176	23380.	.22932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042308 Acquired: 2/25/2011 17:23:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **26.528**	F **1210.0**	F **-5768.2**	**.01359**	**.00280**	F **265.93**	**.01503**
Stddev	4.318	6.0	13.9	.00150	.00641	2.47	.00092
%RSD	16.276	.49808	.24149	11.020	229.20	.92808	6.1207
#1	28.810	1216.2	-5778.1	.01440	-.00459	268.12	.01607
#2	21.548	1209.7	-5774.1	.01186	.00619	266.40	.01467
#3	29.227	1204.1	-5752.2	.01451	.00680	263.25	.01433
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1909**	**2.9340**	**.01473**	**.48109**	**.82503**	F **320.98**
Stddev	.0069	.0041	.00097	.00406	.00460	2.67
%RSD	.31583	.14062	6.6065	.84393	.55813	.83307
#1	2.1950	2.9322	.01361	.47669	.82962	318.06
#2	2.1947	2.9387	.01526	.48189	.82505	321.57
#3	2.1829	2.9311	.01532	.48470	.82042	323.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83603.**	**49981.**
Stddev	312.	269.
%RSD	.37266	.53722
#1	83284.	50274.
#2	83619.	49921.
#3	83906.	49747.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 17:27:12 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .44800	F 12.048	.40429	.53267	1.0156	F .05591	10.291
Stddev	.00106	.030	.00121	.00147	.0015	.00012	.026
%RSD	.23596	.24695	.29835	.27682	.14468	.21541	.25257
#1	.44771	12.078	.40347	.53384	1.0165	.05596	10.305
#2	.44712	12.019	.40568	.53101	1.0139	.05577	10.307
#3	.44918	12.048	.40373	.53316	1.0163	.05599	10.261
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	.40000	10.000				.05000	
Range	10.000%	10.000%				10.000%	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05470	.20994	F .55202	.49276	3.9424	53.386	1.0467
Stddev	.00012	.00022	.00114	.00033	.0136	.101	.0015
%RSD	.22191	.10715	.20742	.06735	.34495	.18827	.14824
#1	.05468	.20986	.55332	.49296	3.9581	53.292	1.0458
#2	.05459	.20976	.55156	.49237	3.9344	53.374	1.0457
#3	.05483	.21019	.55117	.49294	3.9348	53.492	1.0484
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.50000				
Range			10.000%				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.268	F .44604	.97728	51.728	.51095	F 5.0316	.51716
Stddev	.039	.00140	.00033	.073	.00015	10.417	.00072
%RSD	.37761	.31373	.03407	.14043	.02967	207.02	.14019
#1	10.237	.44443	.97761	51.738	.51079	13.755	.51670
#2	10.311	.44672	.97728	51.651	.51109	-6.5016	.51679
#3	10.255	.44697	.97694	51.795	.51098	7.8411	.51800
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 17:27:12 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.7667**	**10.197**	F **29.231**	**1.2206**	**.39809**	F **3.8203**	**1.0305**
Stddev	2.5637	.045	3.509	.0021	.00119	.0611	.0004
%RSD	145.11	.43715	12.005	.17329	.29859	1.5981	.04346
#1	-4.7268	10.201	29.549	1.2183	.39763	3.7504	1.0300
#2	-.31730	10.151	32.570	1.2224	.39721	3.8633	1.0307
#3	-.25600	10.239	25.574	1.2212	.39945	3.8473	1.0308
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94898**	**.95448**	**.54196**	**1.0394**	**.93445**	F **7.0347**
Stddev	.00260	.00209	.00061	.0019	.00020	.9061
%RSD	.27393	.21903	.11228	.18573	.02087	12.880
#1	.94984	.95252	.54196	1.0389	.93430	5.9911
#2	.94606	.95425	.54136	1.0416	.93439	7.4915
#3	.95104	.95668	.54257	1.0378	.93467	7.6215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92708.**	**51580.**
Stddev	155.	217.
%RSD	.16703	.42041
#1	92848.	51578.
#2	92734.	51364.
#3	92542.	51797.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 17:30:49 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00326**	**.00224**	**.00212**	**.00239**	**-.00062**	**-.00010**	**-.00183**
Stddev	.00038	.00080	.00042	.00090	.00009	.00003	.00838
%RSD	11.778	35.520	19.690	37.673	14.035	35.597	457.60
#1	.00284	.00247	.00255	.00151	-.00073	-.00009	.00044
#2	.00359	.00136	.00172	.00235	-.00059	-.00014	.00517
#3	.00334	.00291	.00209	.00332	-.00056	-.00007	-.01111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00002**	**.00015**	**.00007**	**-.00214**	**.07900**	**-.00272**
Stddev	.00007	.00010	.00024	.00073	.00213	.02870	.00128
%RSD	175.32	485.65	161.66	970.97	99.778	36.332	47.016
#1	.00010	-.00012	-.00011	.00090	-.00246	.10468	-.00227
#2	-.00003	-.00002	.00020	-.00023	.00014	.04802	-.00172
#3	.00005	.00007	.00036	-.00045	-.00409	.08429	-.00416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01788**	**.00107**	**.00066**	**.02080**	**-.00056**	F **-18.954**	**-.00225**
Stddev	.01450	.00103	.00023	.00840	.00022	18.107	.00193
%RSD	81.089	95.880	35.341	40.378	38.829	95.531	85.628
#1	-.03445	.00215	.00040	.01344	-.00062	-7.5049	-.00225
#2	-.01163	.00011	.00086	.02995	-.00032	-9.5277	-.00033
#3	-.00755	.00095	.00072	.01901	-.00075	-39.830	-.00419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 17:30:49 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.0333**	F **-.14377**	F **10.680**	**.00369**	**-.00162**	**-.07610**	**.00025**
Stddev	7.9534	.00435	2.668	.00043	.00087	.18942	.00030
%RSD	197.19	3.0245	24.977	11.634	53.620	248.92	122.53
#1	7.3290	-.14115	7.9016	.00339	-.00063	-.17146	.00013
#2	-5.0382	-.14137	13.221	.00418	-.00227	-.19888	.00059
#3	9.8090	-.14879	10.919	.00350	-.00196	.14205	.00002
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00090**	**.00049**	**.00028**	**-.00018**	**.04250**
Stddev	.00009	.00088	.00086	.00052	.00004	.22306
%RSD	933.06	97.818	176.80	184.09	20.478	524.89
#1	.00004	.00014	.00048	.00061	-.00018	-.02704
#2	.00005	.00068	.00135	.00055	-.00014	-.13752
#3	-.00011	.00186	-.00037	-.00031	-.00021	.29205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**94048.**	**51504.**
Stddev	434.	261.
%RSD	.46154	.50580
#1	93748.	51657.
#2	93851.	51652.
#3	94546.	51203.

Approved: March 01, 2011

Sample Name: L1102042309 Acquired: 2/25/2011 17:34:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357473-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01263**	**221.71**	**.15358**	**.19577**	**1.9909**	**.00832**	**561.98**
Stddev	.00051	2.05	.00150	.00104	.0011	.00004	1.12
%RSD	4.0033	.92434	.97677	.53046	.05571	.52288	.19951
#1	.01219	221.99	.15299	.19458	1.9921	.00827	561.07
#2	.01253	223.61	.15528	.19649	1.9900	.00832	561.63
#3	.01318	219.54	.15246	.19624	1.9905	.00836	563.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00653**	**.11390**	**.31908**	**3.1187**	**297.06**	**61.364**	**.24702**
Stddev	.00007	.00013	.00072	.0020	.61	.169	.00083
%RSD	1.0900	.11504	.22684	.06387	.20594	.27503	.33765
#1	.00659	.11402	.31832	3.1209	296.63	61.191	.24765
#2	.00655	.11392	.31976	3.1181	296.79	61.372	.24608
#3	.00646	.11376	.31916	3.1170	297.76	61.528	.24735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**122.10**	**3.7553**	**.01104**	**1.6081**	**.25567**	F **43696.**	**.23508**
Stddev	.41	.0279	.00018	.0020	.00101	99.	.00218
%RSD	.33495	.74224	1.5869	.12369	.39611	.22695	.92676
#1	121.75	3.7341	.01087	1.6059	.25643	43767.	.23277
#2	122.01	3.7448	.01122	1.6094	.25452	43739.	.23537
#3	122.55	3.7868	.01103	1.6091	.25605	43583.	.23710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042309 Acquired: 2/25/2011 17:34:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357473-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **40.962**	F **640.59**	F **-9349.7**	**.01800**	**.00661**	F **319.61**	**.01439**
Stddev	4.754	1.17	20.4	.00486	.00232	1.46	.00016
%RSD	11.606	.18315	.21806	26.981	35.040	.45831	1.1406
#1	46.447	641.81	-9332.0	.01375	.00677	320.04	.01429
#2	38.418	640.50	-9372.0	.01695	.00885	320.82	.01431
#3	38.021	639.47	-9345.2	.02329	.00422	317.98	.01458
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1896**	**1.6418**	**.01284**	**.40484**	**.67427**	F **255.09**
Stddev	.0025	.0051	.00128	.00129	.00215	1.22
%RSD	.20886	.31059	10.000	.31878	.31846	.47852
#1	1.1922	1.6380	.01259	.40354	.67662	255.33
#2	1.1872	1.6398	.01170	.40612	.67240	256.18
#3	1.1894	1.6476	.01423	.40487	.67379	253.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87345.**	**52302.**
Stddev	370.	98.
%RSD	.42402	.18742
#1	87041.	52251.
#2	87758.	52415.
#3	87237.	52239.

Approved: March 01, 2011

Sample Name: L1102042310S Acquired: 2/25/2011 17:38:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357473-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23001**	**281.30**	**.34066**	**.25977**	**2.0545**	F **-.00093**	**555.52**
Stddev	.00147	1.24	.00104	.00103	.0050	.00007	.62
%RSD	.63913	.44125	.30674	.39738	.24435	7.3132	.11098
#1	.22869	281.62	.34169	.25892	2.0602	-.00087	554.88
#2	.22974	279.93	.33960	.26092	2.0522	-.00101	556.11
#3	.23159	282.35	.34067	.25949	2.0509	-.00092	555.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						4.5000	
Low Limit						-.00050	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03263**	**.11672**	**.38175**	**3.2937**	**328.65**	**72.438**	**.27285**
Stddev	.00008	.00028	.00214	.0019	.24	.090	.00069
%RSD	.23936	.23861	.56185	.05881	.07321	.12409	.25414
#1	.03256	.11648	.37935	3.2926	328.66	72.356	.27339
#2	.03271	.11702	.38348	3.2959	328.41	72.535	.27207
#3	.03263	.11665	.38242	3.2925	328.89	72.424	.27310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**131.64**	**4.1178**	**.01047**	**1.8858**	**.26539**	F **42921.**	**.46261**
Stddev	.20	.0036	.00023	.0212	.00086	45.	.00210
%RSD	.15052	.08752	2.1556	1.1251	.32445	.10565	.45298
#1	131.41	4.1157	.01050	1.8774	.26463	42972.	.46209
#2	131.70	4.1156	.01068	1.9099	.26522	42903.	.46491
#3	131.79	4.1219	.01024	1.8700	.26632	42887.	.46082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042310S Acquired: 2/25/2011 17:38:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357473-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **38.384**	F **632.14**	F **-9207.0**	**.01468**	**.00575**	F **325.33**	**.01776**
Stddev	2.422	.61	16.9	.00234	.00680	2.19	.00044
%RSD	6.3104	.09606	.18383	15.924	118.21	.67280	2.4507
#1	40.222	631.68	-9226.5	.01514	.01104	326.43	.01735
#2	39.291	632.83	-9195.9	.01215	.00813	326.75	.01772
#3	35.639	631.91	-9198.7	.01676	-.00192	322.81	.01822
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2322**	**4.8370**	**.01773**	**.50176**	**.71097**	F **305.80**
Stddev	.0057	.0113	.00075	.00209	.00100	.75
%RSD	.46664	.23387	4.2082	.41718	.14048	.24554
#1	1.2388	4.8486	.01739	.49936	.71016	305.12
#2	1.2281	4.8260	.01859	.50275	.71209	305.68
#3	1.2298	4.8364	.01722	.50319	.71067	306.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85637.**	**50971.**
Stddev	121.	185.
%RSD	.14143	.36303
#1	85622.	51183.
#2	85524.	50841.
#3	85764.	50890.

Approved: March 01, 2011

Sample Name: L1102042311SD Acquired: 2/25/2011 17:42:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357473-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23337**	**279.95**	**.34402**	**.24858**	**2.0570**	**.00117**	**558.01**
Stddev	.00162	4.09	.00113	.00051	.0027	.00003	.52
%RSD	.69444	1.4620	.32766	.20709	.12928	2.8698	.09279
#1	.23331	276.03	.34274	.24874	2.0591	.00119	558.00
#2	.23178	279.63	.34447	.24800	2.0540	.00119	557.50
#3	.23502	284.19	.34486	.24899	2.0579	.00113	558.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03299**	**.11673**	**.38414**	**3.2381**	**327.77**	**70.167**	**.26669**
Stddev	.00007	.00009	.00323	.0088	.82	.093	.00187
%RSD	.21837	.07504	.84214	.27304	.25086	.13252	.69933
#1	.03297	.11663	.38260	3.2404	327.89	70.231	.26883
#2	.03307	.11677	.38196	3.2456	326.89	70.060	.26585
#3	.03294	.11679	.38786	3.2283	328.52	70.211	.26540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**130.06**	**4.0978**	**.01133**	**1.8325**	**.26171**	F **42390.**	**.46181**
Stddev	.25	.0100	.00009	.0069	.00093	52.	.00356
%RSD	.18893	.24371	.79265	.37643	.35456	.12376	.77047
#1	129.81	4.0984	.01123	1.8399	.26278	42391.	.46276
#2	130.06	4.0875	.01139	1.8315	.26108	42442.	.46481
#3	130.31	4.1075	.01138	1.8262	.26128	42338.	.45788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042311SD Acquired: 2/25/2011 17:42:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357473-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **38.429**	F **628.44**	F **-9057.9**	**.01627**	**.00474**	F **347.89**	**.01682**
Stddev	8.010	.89	34.2	.00097	.00321	.49	.00039
%RSD	20.843	.14233	.37757	5.9890	67.849	.14085	2.3313
#1	46.094	628.80	-9027.0	.01564	.00207	347.33	.01713
#2	30.114	629.11	-9094.6	.01740	.00830	348.24	.01638
#3	39.078	627.43	-9052.0	.01579	.00384	348.11	.01695
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2287**	**4.0989**	**.01848**	**.50901**	**.70224**	F **299.08**
Stddev	.0052	.0078	.00176	.00162	.00354	1.13
%RSD	.42606	.18947	9.5153	.31890	.50384	.37638
#1	1.2314	4.1053	.01658	.50826	.70384	298.87
#2	1.2227	4.0902	.01883	.50790	.70470	298.08
#3	1.2320	4.1011	.02005	.51087	.69819	300.30
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86365.**	**49987.**
Stddev	534.	406.
%RSD	.61810	.81152
#1	85974.	50169.
#2	86147.	50269.
#3	86973.	49522.

Approved: March 01, 2011

Sample Name: L1102042312 Acquired: 2/25/2011 17:45:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02254**	**246.18**	**.11765**	**.23014**	**2.4836**	**.00400**	F **1231.9**
Stddev	.00036	.42	.00415	.00200	.0023	.00003	13.1
%RSD	1.5819	.17174	3.5297	.87090	.09333	.70762	1.0673
#1	.02247	246.67	.12099	.23239	2.4862	.00399	1235.6
#2	.02223	245.93	.11894	.22854	2.4829	.00398	1217.3
#3	.02293	245.94	.11300	.22948	2.4817	.00404	1242.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00534**	**.11339**	**.32254**	**1.2197**	**283.76**	**61.096**	**.28446**
Stddev	.00015	.00021	.00241	.0014	.43	.207	.00236
%RSD	2.8337	.18338	.74640	.11661	.15002	.33837	.83017
#1	.00552	.11363	.32491	1.2206	284.17	61.241	.28639
#2	.00527	.11324	.32010	1.2204	283.32	60.859	.28518
#3	.00524	.11330	.32260	1.2180	283.78	61.187	.28183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**140.67**	**3.3480**	**.00891**	**2.5360**	**.25377**	F **37092.**	**.17615**
Stddev	.34	.0080	.00026	.0101	.00054	15.	.00163
%RSD	.24135	.23834	2.9074	.39767	.21086	.04073	.92645
#1	140.89	3.3548	.00919	2.5397	.25412	37086.	.17602
#2	140.28	3.3393	.00868	2.5438	.25316	37080.	.17785
#3	140.84	3.3500	.00887	2.5246	.25405	37109.	.17459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042312 Acquired: 2/25/2011 17:45:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **38.559**	F **1415.7**	F **-11572.**	**.01611**	**.00343**	F **279.75**	**.01399**
Stddev	6.608	4.1	49.	.00165	.00356	1.50	.00028
%RSD	17.137	.29279	.42432	10.249	103.99	.53481	1.9683
#1	35.257	1411.0	-11625.	.01593	.00754	280.78	.01409
#2	34.253	1418.6	-11563.	.01785	.00159	280.43	.01420
#3	46.168	1417.6	-11528.	.01456	.00116	278.03	.01368
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.4535**	**3.2209**	**.01357**	**.43907**	**.59974**	F **216.76**
Stddev	.0028	.0064	.00117	.00330	.00177	1.68
%RSD	.11426	.19905	8.6504	.75186	.29440	.77580
#1	2.4553	3.2256	.01267	.44229	.59800	218.15
#2	2.4503	3.2136	.01313	.43570	.60153	214.89
#3	2.4550	3.2234	.01490	.43922	.59969	217.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84312.**	**50758.**
Stddev	458.	426.
%RSD	.54320	.83950
#1	84839.	50283.
#2	84015.	51107.
#3	84082.	50884.

Approved: March 01, 2011

Sample Name: L1102042313 Acquired: 2/25/2011 17:49:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03037**	**197.31**	**.16313**	**.21907**	**2.9238**	F **-.00125**	F **1188.4**
Stddev	.00073	2.75	.00343	.00171	.0062	.00005	7.2
%RSD	2.4164	1.3926	2.1025	.78012	.21111	3.8673	.60267
#1	.03098	194.76	.15921	.21924	2.9299	-.00129	1180.2
#2	.03057	196.95	.16559	.21729	2.9175	-.00127	1191.2
#3	.02955	200.22	.16459	.22069	2.9239	-.00120	1193.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						4.5000	900.00
Low Limit						-.00050	-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00951**	**.12555**	**.31820**	**4.9640**	**292.01**	**49.998**	**.37329**
Stddev	.00013	.00048	.00348	.0083	.67	.103	.00216
%RSD	1.3642	.38212	1.0926	.16693	.22877	.20574	.57791
#1	.00937	.12609	.31723	4.9731	291.92	49.964	.37473
#2	.00953	.12537	.31531	4.9617	291.39	49.916	.37433
#3	.00963	.12518	.32206	4.9570	292.72	50.113	.37081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**158.04**	**3.7807**	**.02031**	**2.6038**	**.25452**	F **67473.**	**.38784**
Stddev	.68	.0071	.00022	.0107	.00070	44.	.00200
%RSD	.42862	.18683	1.0740	.41120	.27428	.06529	.51691
#1	157.58	3.7801	.02013	2.5940	.25533	67510.	.39015
#2	157.73	3.7740	.02025	2.6022	.25406	67425.	.38659
#3	158.82	3.7881	.02055	2.6153	.25418	67485.	.38677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042313 Acquired: 2/25/2011 17:49:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.662**	F **1375.0**	F **-12708.**	**.01772**	**.00695**	F **274.48**	**.02884**
Stddev	1.814	2.8	18.	.00183	.00144	1.65	.00051
%RSD	7.6682	.20109	.14450	10.318	20.681	.59939	1.7832
#1	22.248	1378.2	-12727.	.01698	.00733	275.94	.02929
#2	25.708	1373.7	-12691.	.01637	.00815	274.80	.02894
#3	23.029	1373.1	-12706.	.01980	.00536	272.69	.02828
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.7500**	**4.1732**	**.01698**	**.49877**	**.92663**	F **197.93**
Stddev	.0069	.0102	.00172	.00508	.00315	2.61
%RSD	.25074	.24474	10.112	1.0193	.34001	1.3175
#1	2.7575	4.1790	.01836	.49624	.93002	196.67
#2	2.7439	4.1614	.01751	.49544	.92379	196.18
#3	2.7486	4.1791	.01506	.50462	.92608	200.93
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83456.**	**49861.**
Stddev	182.	416.
%RSD	.21809	.83383
#1	83281.	50151.
#2	83442.	50048.
#3	83645.	49385.

Approved: March 01, 2011

Sample Name: L1102042314 Acquired: 2/25/2011 17:53:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02823**	**190.54**	**.17614**	**.20502**	**3.0004**	F **-.00140**	F **1210.5**
Stddev	.00035	3.05	.00096	.00084	.0051	.00006	19.5
%RSD	1.2247	1.5981	.54580	.41097	.17024	4.5184	1.6144
#1	.02821	189.87	.17667	.20411	3.0029	-.00145	1228.6
#2	.02790	187.89	.17671	.20517	3.0037	-.00133	1189.8
#3	.02859	193.86	.17503	.20577	2.9945	-.00142	1213.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						4.5000	900.00
Low Limit						-.00050	-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00581**	**.10986**	**.32299**	**1.3072**	**286.59**	**40.791**	**.32253**
Stddev	.00011	.00033	.00492	.0034	.19	.029	.00089
%RSD	1.9627	.30100	1.5241	.25930	.06788	.07023	.27670
#1	.00569	.11013	.32220	1.3045	286.80	40.766	.32320
#2	.00583	.10996	.31850	1.3110	286.41	40.786	.32151
#3	.00592	.10949	.32825	1.3061	286.55	40.822	.32287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**130.96**	**3.4569**	**.00798**	**2.5266**	**.23923**	F **52514.**	**.20097**
Stddev	.59	.0019	.00010	.0223	.00153	83.	.00296
%RSD	.45209	.05574	1.2833	.88184	.63896	.15746	1.4747
#1	130.67	3.4578	.00808	2.5277	.24062	52472.	.20136
#2	130.57	3.4581	.00799	2.5484	.23948	52609.	.20372
#3	131.65	3.4546	.00788	2.5038	.23759	52460.	.19783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042314 Acquired: 2/25/2011 17:53:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **27.623**	F **1342.1**	F **-8476.2**	**.01509**	**.00578**	F **207.48**	**.01833**
Stddev	3.811	3.5	36.1	.00180	.00229	1.58	.00038
%RSD	13.797	.26319	.42563	11.918	39.529	.76270	2.0913
#1	31.451	1340.6	-8449.9	.01523	.00354	208.27	.01871
#2	23.829	1346.1	-8517.3	.01322	.00811	208.52	.01795
#3	27.589	1339.5	-8461.4	.01681	.00571	205.66	.01833
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.7161**	**4.1677**	**.01890**	**.51366**	**.62185**	F **177.95**
Stddev	.0071	.0132	.00052	.00719	.00297	2.46
%RSD	.26285	.31759	2.7381	1.3997	.47708	1.3836
#1	2.7221	4.1792	.01837	.51125	.61968	176.81
#2	2.7179	4.1706	.01940	.50799	.62523	176.26
#3	2.7082	4.1532	.01894	.52175	.62064	180.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84228.**	**51064.**
Stddev	246.	624.
%RSD	.29222	1.2218
#1	84132.	51175.
#2	84044.	51624.
#3	84507.	50392.

Approved: March 01, 2011

Sample Name: L1102042315 Acquired: 2/25/2011 17:57:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02035**	**209.48**	**.19226**	**.20690**	**3.0109**	**.00619**	F **1302.5**
Stddev	.00040	5.83	.00151	.00129	.0010	.00018	16.5
%RSD	1.9569	2.7828	.78788	.62229	.03203	2.9546	1.2693
#1	.02023	204.65	.19395	.20562	3.0113	.00601	1299.3
#2	.02003	207.83	.19103	.20819	3.0098	.00618	1320.3
#3	.02080	215.95	.19182	.20690	3.0117	.00638	1287.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01102**	**.12702**	**.30454**	**7.4612**	**282.79**	**43.930**	**.36710**
Stddev	.00011	.00032	.00701	.0051	.79	.147	.00452
%RSD	1.0249	.25382	2.3029	.06865	.27981	.33434	1.2318
#1	.01090	.12731	.29757	7.4653	282.13	43.783	.36904
#2	.01106	.12667	.30444	7.4554	282.57	43.930	.36194
#3	.01111	.12708	.31160	7.4628	283.67	44.077	.37033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**165.33**	**3.8347**	**.02133**	**2.4570**	**.25430**	F **51213.**	**.57471**
Stddev	1.02	.0034	.00032	.0194	.00088	139.	.00262
%RSD	.61575	.08959	1.4917	.78853	.34460	.27181	.45596
#1	164.26	3.8336	.02164	2.4662	.25329	51361.	.57607
#2	165.43	3.8386	.02101	2.4348	.25482	51195.	.57637
#3	166.29	3.8320	.02135	2.4701	.25479	51084.	.57169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042315 Acquired: 2/25/2011 17:57:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **29.131**	F **1559.4**	F **-16829.**	**.02197**	**.00739**	F **289.47**	**.04568**
Stddev	7.953	1.7	76.	.00222	.00314	1.63	.00018
%RSD	27.300	.10868	.45307	10.127	42.511	.56361	.40263
#1	38.120	1561.0	-16778.	.02123	.00549	290.82	.04547
#2	26.265	1557.7	-16793.	.02447	.01102	289.94	.04582
#3	23.009	1559.6	-16917.	.02021	.00567	287.66	.04575
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.3179**	**2.4261**	**.01598**	**.50356**	**.94749**	F **188.61**
Stddev	.0023	.0075	.00184	.01193	.00222	4.21
%RSD	.06846	.30695	11.519	2.3683	.23384	2.2306
#1	3.3200	2.4341	.01757	.49217	.94770	184.66
#2	3.3181	2.4249	.01397	.50257	.94518	188.14
#3	3.3155	2.4194	.01641	.51596	.94959	193.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84147.**	**49983.**
Stddev	129.	775.
%RSD	.15370	1.5511
#1	83999.	50862.
#2	84204.	49691.
#3	84239.	49396.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 18:01:13 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .45444	F 12.236	.40722	.53957	1.0204	F .05703	10.388
Stddev	.00140	.058	.00266	.00046	.0029	.00020	.027
%RSD	.30795	.47002	.65418	.08486	.28334	.35191	.25675
#1	.45307	12.225	.40421	.53940	1.0173	.05704	10.413
#2	.45439	12.185	.40927	.53923	1.0230	.05682	10.360
#3	.45587	12.299	.40818	.54009	1.0210	.05722	10.392
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	.40000	10.000				.05000	
Range	10.000%	10.000%				10.000%	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .05533	.21142	F .56152	.49650	3.9167	54.270	1.0549
Stddev	.00008	.00005	.00153	.00045	.0052	.133	.0025
%RSD	.15156	.02552	.27234	.09037	.13336	.24581	.23592
#1	.05541	.21149	.56197	.49634	3.9180	54.128	1.0541
#2	.05524	.21139	.55982	.49700	3.9211	54.287	1.0577
#3	.05533	.21140	.56278	.49615	3.9109	54.393	1.0530
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.05000		.50000				
Range	10.000%		10.000%				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.411	F .44419	.98159	52.050	.51489	F -6.0123	.52150
Stddev	.054	.00147	.00169	.221	.00037	7.3759	.00101
%RSD	.51479	.33197	.17229	.42447	.07217	122.68	.19418
#1	10.352	.44323	.98231	51.809	.51459	-12.752	.52033
#2	10.423	.44589	.98280	52.243	.51477	-7.1527	.52212
#3	10.457	.44346	.97965	52.098	.51531	1.8674	.52205
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 18:01:13 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.8384**	**10.252**	F **25.110**	**1.2274**	**.39903**	F **3.9030**	**1.0401**
Stddev	2.0095	.059	.948	.0018	.00275	.0706	.0024
%RSD	22.736	.57838	3.7768	.14438	.68916	1.8086	.23163
#1	9.6810	10.183	26.167	1.2293	.39629	3.8577	1.0376
#2	10.289	10.286	24.829	1.2258	.39901	3.9844	1.0424
#3	6.5448	10.286	24.333	1.2272	.40179	3.8670	1.0404
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94905**	**.95502**	**.54906**	**1.0522**	**.93777**	F **1.4468**
Stddev	.00714	.00273	.00159	.0033	.00202	.2699
%RSD	.75208	.28606	.28982	.31284	.21500	18.657
#1	.94129	.95818	.55077	1.0539	.93758	1.1666
#2	.95532	.95338	.54762	1.0484	.93988	1.4687
#3	.95055	.95352	.54881	1.0542	.93586	1.7051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92313.**	**50677.**
Stddev	208.	416.
%RSD	.22497	.82009
#1	92494.	50938.
#2	92357.	50894.
#3	92086.	50197.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 18:04:49 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00368**	**.00928**	**.00124**	**.00202**	**-.00037**	**-.00014**	**.00600**
Stddev	.00034	.00276	.00174	.00134	.00010	.00002	.00562
%RSD	9.1531	29.776	141.08	66.467	26.734	16.583	93.647
#1	.00351	.01189	.00322	.00328	-.00029	-.00014	.00838
#2	.00346	.00639	-.00005	.00217	-.00033	-.00016	.01004
#3	.00407	.00955	.00054	.00061	-.00048	-.00012	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00001**	**.00016**	**-.00049**	**-.00295**	**.07909**	**-.00207**
Stddev	.00002	.00018	.00030	.00056	.00408	.04142	.00217
%RSD	114.74	1330.9	186.54	114.44	138.66	52.365	104.76
#1	-.00004	.00021	.00046	-.00054	-.00367	.12338	-.00409
#2	.00000	-.00016	-.00014	.00010	.00145	.04132	-.00234
#3	-.00002	-.00001	.00017	-.00101	-.00662	.07257	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02046**	**.00172**	**.00063**	**.01663**	**-.00027**	F **-19.028**	**-.00218**
Stddev	.01438	.00100	.00022	.00938	.00022	11.734	.00131
%RSD	70.308	58.104	35.051	56.368	80.082	61.669	60.042
#1	-.03533	.00079	.00077	.02736	-.00052	-32.552	-.00326
#2	-.00662	.00160	.00074	.01002	-.00016	-12.986	-.00072
#3	-.01942	.00278	.00038	.01251	-.00013	-11.545	-.00256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 18:04:49 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.2011**	F **-.12435**	F **15.543**	**.00260**	**-.00354**	**-.05500**	**.00004**
Stddev	4.4697	.03231	2.129	.00301	.00450	.16233	.00017
%RSD	106.39	25.986	13.698	115.62	127.10	295.11	493.52
#1	4.2722	-.14212	17.550	.00549	-.00610	-.23221	-.00010
#2	8.6349	-.14387	15.769	.00284	-.00616	-.01931	.00023
#3	-.30371	-.08705	13.310	-.00052	.00165	.08650	-.00002
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00064**	**.00122**	**-.00022**	**-.00009**	F **-.46707**
Stddev	.00006	.00153	.00094	.00013	.00012	.42064
%RSD	35.654	239.34	77.418	60.704	133.05	90.059
#1	.00010	-.00057	.00013	-.00025	-.00023	-.92253
#2	.00020	-.00220	.00172	-.00033	.00000	-.09320
#3	.00020	.00086	.00180	-.00007	-.00004	-.38549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**94172.**	**50094.**
Stddev	70.	141.
%RSD	.07460	.28073
#1	94133.	49977.
#2	94253.	50250.
#3	94129.	50055.

Approved: March 01, 2011

Sample Name: PBS AI Acquired: 2/25/2011 18:08:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357511-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00353**	**.00657**	**.00052**	**.00162**	**-.00029**	**-.00012**	**.02173**
Stddev	.00052	.00506	.00011	.00110	.00026	.00001	.01129
%RSD	14.680	77.015	22.176	67.502	90.113	9.3327	51.957
#1	.00394	.00380	.00061	.00249	-.00009	-.00013	.03135
#2	.00371	.01241	.00039	.00198	-.00058	-.00011	.02453
#3	.00295	.00350	.00055	.00039	-.00020	-.00012	.00930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00034**	**.00072**	**-.00062**	**.00523**	**.04457**	**-.00322**
Stddev	.00008	.00017	.00030	.00027	.00595	.04392	.00153
%RSD	70.295	48.497	41.085	43.959	113.69	98.530	47.587
#1	.00009	-.00053	.00039	-.00092	.00279	.03575	-.00474
#2	.00005	-.00025	.00080	-.00038	.01201	.09223	-.00324
#3	.00021	-.00024	.00097	-.00056	.00089	.00573	-.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00175**	**.00002**	**.00035**	**.02951**	**.00036**	F **-44.253**	**-.00190**
Stddev	.03075	.00156	.00012	.00683	.00026	8.229	.00067
%RSD	1759.8	8800.5	33.272	23.151	72.771	18.594	35.122
#1	.02969	-.00146	.00047	.02296	.00015	-53.330	-.00147
#2	-.03175	.00165	.00036	.02898	.00066	-37.281	-.00267
#3	-.00318	-.00014	.00023	.03660	.00029	-42.149	-.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: PBS AI Acquired: 2/25/2011 18:08:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357511-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.1343**	F **-.02623**	**5.8817**	**.00335**	**.00188**	**1.7060**	**.00052**
Stddev	16.367	.01233	3.8228	.00097	.00123	.1256	.00026
%RSD	229.42	47.009	64.994	29.075	65.670	7.3613	49.552
#1	25.961	-.01275	1.4678	.00401	.00154	1.5749	.00065
#2	-3.7108	-.03695	8.0497	.00381	.00085	1.7177	.00022
#3	-.84748	-.02899	8.1276	.00223	.00325	1.8252	.00069
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000					
Low Limit		-.00400					

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00043**	**-.00130**	**-.00009**	**.00218**	**.23081**
Stddev	.00010	.00037	.00023	.00045	.00007	.42518
%RSD	297.81	86.115	17.453	482.63	3.1438	184.21
#1	.00012	.00001	-.00149	.00001	.00210	-.04324
#2	.00006	.00058	-.00105	-.00059	.00224	.01506
#3	-.00008	.00070	-.00136	.00029	.00219	.72061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90013.**	**48947.**
Stddev	561.	332.
%RSD	.62290	.67796
#1	89828.	49313.
#2	89569.	48863.
#3	90643.	48665.

Approved: March 01, 2011

Sample Name: LCSS AI Acquired: 2/25/2011 18:12:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357511-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21812**	**.00085**	**.18847**	**.00105**	**-.00039**	**-.00011**	**.03191**
Stddev	.00370	.00359	.00156	.00097	.00016	.00001	.00845
%RSD	1.6963	421.90	.82947	92.188	40.255	10.028	26.490
#1	.22199	.00475	.18738	.00023	-.00036	-.00010	.03422
#2	.21462	-.00230	.19026	.00081	-.00056	-.00012	.03897
#3	.21774	.00010	.18777	.00212	-.00025	-.00011	.02254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02621**	**-.00036**	**.00142**	**.24299**	**.00636**	**.05815**	**-.00253**
Stddev	.00021	.00005	.00037	.00092	.00824	.03694	.00286
%RSD	.78878	15.391	26.166	.37815	129.59	63.530	112.96
#1	.02644	-.00030	.00103	.24198	.00770	.05520	-.00190
#2	.02605	-.00036	.00146	.24378	.01384	.02277	-.00564
#3	.02613	-.00041	.00177	.24320	-.00247	.09647	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**.22406**	**.00019**	**.03772**	**.00032**	F **-45.082**	**.26076**
Stddev	.01431	.00150	.00013	.00718	.00061	19.360	.00138
%RSD	1646.1	.67135	69.738	19.038	190.08	42.945	.52793
#1	.00123	.22542	.00004	.04247	-.00036	-43.401	.26196
#2	-.01362	.22432	.00029	.02946	.00080	-26.617	.25926
#3	.01500	.22244	.00024	.04122	.00052	-65.228	.26106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: LCSS AI Acquired: 2/25/2011 18:12:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357511-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.1631**	**.02128**	**4.4768**	**.00415**	**-.00067**	**1.5332**	**.00043**
Stddev	5.4801	.04998	4.6414	.00209	.00036	.0737	.00036
%RSD	88.917	234.84	103.67	50.264	53.273	4.8070	82.229
#1	1.1939	-.03580	5.6318	.00372	-.00026	1.4529	.00056
#2	5.2549	.04249	-.63293	.00642	-.00087	1.5490	.00071
#3	12.041	.05715	8.4317	.00232	-.00088	1.5977	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00040**	**-.00107**	**-.00082**	**.00165**	**.28422**
Stddev	.00011	.00133	.00062	.00022	.00004	.17862
%RSD	121.65	330.83	58.171	27.456	2.5494	62.846
#1	-.00001	-.00173	-.00178	-.00073	.00170	.17719
#2	.00007	-.00041	-.00075	-.00064	.00164	.49042
#3	.00020	.00093	-.00067	-.00107	.00162	.18505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90379.**	**49039.**
Stddev	459.	757.
%RSD	.50782	1.5436
#1	90167.	48476.
#2	90065.	49899.
#3	90906.	48741.

Approved: March 01, 2011

Sample Name: L1102047601 Acquired: 2/25/2011 18:16:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00791**	**34.358**	**.04745**	**.07390**	**.66689**	**.00308**	**331.47**
Stddev	.00032	.231	.00041	.00212	.00054	.00003	.40
%RSD	4.0730	.67369	.85795	2.8643	.08165	.85302	.12110
#1	.00793	34.584	.04772	.07620	.66751	.00307	331.47
#2	.00758	34.369	.04764	.07203	.66651	.00307	331.07
#3	.00822	34.121	.04698	.07348	.66664	.00311	331.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00958**	**.02195**	**.06869**	**.46793**	**45.355**	**9.5036**	**.04621**
Stddev	.00020	.00019	.00105	.00059	.097	.0416	.00355
%RSD	2.0610	.88716	1.5294	.12710	.21450	.43773	7.6727
#1	.00966	.02178	.06969	.46764	45.453	9.4630	.04932
#2	.00973	.02217	.06880	.46862	45.258	9.5017	.04695
#3	.00936	.02191	.06760	.46754	45.353	9.5462	.04235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.450**	**4.6789**	**.00337**	**1.8700**	**.04864**	F **42237.**	**.80663**
Stddev	.077	.0192	.00021	.0225	.00049	150.	.00351
%RSD	.26310	.41067	6.3790	1.2052	1.0059	.35576	.43567
#1	29.526	4.6855	.00345	1.8960	.04843	42071.	.80669
#2	29.371	4.6573	.00312	1.8571	.04920	42365.	.80309
#3	29.454	4.6940	.00352	1.8569	.04830	42274.	.81012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047601 Acquired: 2/25/2011 18:16:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.3749**	F **403.81**	F **-6437.6**	**.01241**	**-.00021**	**64.786**	**.02125**
Stddev	10.352	.20	15.8	.00165	.00182	.523	.00019
%RSD	435.88	.04848	.24508	13.293	874.72	.80730	.88252
#1	11.644	403.87	-6419.6	.01059	-.00231	64.785	.02104
#2	4.2759	403.59	-6448.7	.01280	.00080	65.309	.02141
#3	-8.7954	403.97	-6444.7	.01382	.00089	64.263	.02131
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29842**	**.06959**	**.00808**	**.07516**	**1.2865**	**27.359**
Stddev	.00058	.00158	.00172	.00011	.0029	.366
%RSD	.19378	2.2658	21.278	.15113	.22275	1.3379
#1	.29899	.06985	.00995	.07503	1.2889	27.456
#2	.29844	.06790	.00773	.07526	1.2833	27.667
#3	.29783	.07102	.00657	.07518	1.2873	26.954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91382.**	**48379.**
Stddev	323.	166.
%RSD	.35308	.34280
#1	91174.	48192.
#2	91753.	48437.
#3	91217.	48508.

Approved: March 01, 2011

Sample Name: L1102047601PS Acquired: 2/25/2011 18:19:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357602-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23805**	**40.032**	**.25245**	**1.1857**	**1.1745**	**.03225**	**339.65**
Stddev	.00276	.333	.00179	.0123	.0016	.00035	.08
%RSD	1.1588	.83098	.71037	1.0368	.13512	1.0897	.02370
#1	.23565	39.674	.25099	1.1761	1.1763	.03197	339.66
#2	.23744	40.090	.25191	1.1814	1.1732	.03213	339.57
#3	.24107	40.332	.25445	1.1995	1.1740	.03265	339.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03710**	**.12251**	**.33882**	**.70326**	**47.708**	**36.679**	**.57562**
Stddev	.00007	.00030	.00276	.00336	.046	.055	.00115
%RSD	.19692	.24464	.81460	.47732	.09728	.14941	.19909
#1	.03704	.12268	.33624	.70700	47.749	36.742	.57623
#2	.03707	.12216	.33850	.70226	47.658	36.649	.57430
#3	.03718	.12268	.34173	.70051	47.718	36.645	.57633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.606**	**4.9591**	**.49144**	**28.360**	**.29497**	F **42765.**	**1.0507**
Stddev	.061	.0099	.00137	.042	.00100	81.	.0045
%RSD	.17577	.19937	.27826	.14879	.33995	.18954	.42933
#1	34.558	4.9689	.49280	28.404	.29548	42764.	1.0555
#2	34.674	4.9491	.49144	28.319	.29562	42846.	1.0501
#3	34.585	4.9594	.49007	28.358	.29382	42684.	1.0465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047601PS Acquired: 2/25/2011 18:19:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357602-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.9663**	F **406.21**	F **-6540.1**	**.60515**	**.20239**	F **386.20**	**.02324**
Stddev	9.2123	1.60	25.0	.00308	.00036	.72	.00025
%RSD	102.74	.39466	.38269	.50850	.17868	.18689	1.0589
#1	12.597	407.98	-6567.6	.60257	.20208	385.41	.02301
#2	-1.5082	405.78	-6534.2	.60855	.20229	386.38	.02350
#3	15.810	404.86	-6518.6	.60432	.20279	386.82	.02321
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.76510**	**.53893**	**.25970**	**.60327**	**1.7264**	**28.396**
Stddev	.00122	.00276	.00156	.00624	.0120	.657
%RSD	.15961	.51207	.59943	1.0340	.69452	2.3129
#1	.76626	.54208	.26147	.59972	1.7398	27.770
#2	.76523	.53779	.25911	.59961	1.7228	28.338
#3	.76382	.53692	.25853	.61047	1.7167	29.080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90897.**	**48189.**
Stddev	541.	333.
%RSD	.59466	.69161
#1	90286.	48530.
#2	91093.	48172.
#3	91312.	47864.

Approved: March 01, 2011

Sample Name: L1102047601SDL Acquired: 2/25/2011 18:23:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357602-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00377**	**7.2281**	**.01301**	**.01776**	**.13223**	**.00045**	**65.805**
Stddev	.00011	.0559	.00075	.00050	.00090	.00002	.139
%RSD	2.9728	.77378	5.7766	2.8190	.67766	3.9310	.21191
#1	.00389	7.2865	.01255	.01758	.13123	.00044	65.941
#2	.00367	7.2229	.01260	.01737	.13297	.00047	65.810
#3	.00375	7.1750	.01388	.01832	.13249	.00045	65.663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00185**	**.00466**	**.01361**	**.09526**	**9.1155**	**1.8613**	**.00474**
Stddev	.00007	.00013	.00053	.00096	.0086	.0265	.00378
%RSD	3.6278	2.7087	3.8994	1.0060	.09383	1.4237	79.810
#1	.00187	.00471	.01398	.09627	9.1229	1.8780	.00720
#2	.00190	.00475	.01385	.09513	9.1175	1.8308	.00038
#3	.00177	.00451	.01300	.09437	9.1061	1.8752	.00664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.8867**	**.95078**	**.00083**	**.37544**	**.00866**	F **8266.1**	**.16430**
Stddev	.0229	.00264	.00022	.00839	.00038	111.1	.00148
%RSD	.38914	.27805	26.685	2.2343	4.4046	1.3445	.90193
#1	5.8659	.95383	.00106	.36968	.00900	8355.5	.16554
#2	5.8829	.94935	.00082	.37158	.00825	8301.1	.16471
#3	5.9113	.94916	.00062	.38506	.00874	8141.7	.16266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047601SDL Acquired: 2/25/2011 18:23:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357602-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.315**	F **85.180**	F **-1233.7**	**.00279**	**-.00428**	**12.095**	**.00344**
Stddev	8.827	.567	26.7	.00150	.00170	.243	.00020
%RSD	85.574	.66587	2.1616	53.835	39.708	2.0126	5.7268
#1	11.213	85.634	-1255.6	.00112	-.00562	12.269	.00340
#2	1.0733	85.361	-1241.5	.00404	-.00485	12.198	.00365
#3	18.658	84.544	-1204.0	.00321	-.00237	11.817	.00326
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06004**	**.01141**	**.00278**	**.01424**	**.26254**	**3.4036**
Stddev	.00039	.00082	.00071	.00032	.00174	.3475
%RSD	.65338	7.1485	25.488	2.2787	.66237	10.209
#1	.05964	.01082	.00200	.01459	.26430	3.6886
#2	.06005	.01107	.00296	.01394	.26251	3.5057
#3	.06042	.01234	.00338	.01418	.26082	3.0165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93081.**	**50166.**
Stddev	271.	299.
%RSD	.29072	.59577
#1	92881.	50373.
#2	93389.	49823.
#3	92974.	50302.

Approved: March 01, 2011

Sample Name: L1102047601SDL Acquired: 2/25/2011 18:27:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357602-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00359**	**1.5689**	**.00507**	**.00497**	**.02649**	**-.00009**	**13.068**
Stddev	.00052	.0187	.00078	.00142	.00035	.00002	.030
%RSD	14.591	1.1889	15.449	28.552	1.3327	19.820	.23096
#1	.00420	1.5818	.00597	.00657	.02690	-.00007	13.046
#2	.00332	1.5475	.00465	.00386	.02630	-.00011	13.102
#3	.00327	1.5773	.00459	.00449	.02627	-.00009	13.055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00111**	**.00310**	**.01954**	**1.7678**	**.45843**	**-.00432**
Stddev	.00010	.00013	.00009	.00009	.0118	.02429	.00081
%RSD	32.055	11.285	2.9879	.46514	.66677	5.2991	18.675
#1	.00039	.00120	.00305	.01944	1.7761	.45886	-.00377
#2	.00036	.00116	.00304	.01962	1.7730	.43393	-.00525
#3	.00020	.00097	.00320	.01955	1.7543	.48251	-.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1781**	**.19046**	**-.00021**	**.10282**	**.00101**	F **1619.6**	**.03041**
Stddev	.0358	.00091	.00007	.00322	.00032	17.4	.00117
%RSD	3.0369	.47897	31.534	3.1287	31.597	1.0743	3.8542
#1	1.2147	.18968	-.00014	.10289	.00130	1626.8	.03097
#2	1.1762	.19146	-.00028	.10601	.00067	1632.2	.03120
#3	1.1432	.19024	-.00021	.09958	.00105	1599.7	.02907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047601SDL Acquired: 2/25/2011 18:27:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357602-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-2.4955**	F **17.628**	F **-241.66**	**.00171**	**-.00401**	**1.9530**	**.00041**
Stddev	4.3537	.049	3.28	.00059	.00216	.0724	.00017
%RSD	174.46	.27658	1.3593	34.668	53.849	3.7073	42.255
#1	-2.8620	17.666	-241.42	.00204	-.00152	1.9193	.00027
#2	-6.6544	17.573	-245.06	.00206	-.00541	2.0362	.00035
#3	2.0298	17.645	-238.50	.00102	-.00510	1.9037	.00060
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01197**	**.00252**	**.00248**	**.00282**	**.05456**	F **-.16083**
Stddev	.00014	.00058	.00032	.00045	.00020	.20147
%RSD	1.1980	23.173	12.814	16.015	.35912	125.27
#1	.01184	.00284	.00219	.00242	.05438	-.34766
#2	.01212	.00288	.00243	.00272	.05454	-.18747
#3	.01196	.00185	.00282	.00331	.05477	.05263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92204.**	**48397.**
Stddev	618.	213.
%RSD	.67050	.43930
#1	92883.	48170.
#2	92058.	48592.
#3	91673.	48430.

Approved: March 01, 2011

Sample Name: L1102047602 Acquired: 2/25/2011 18:30:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00680**	**36.824**	**.05090**	**.06936**	**.54723**	**.00354**	**373.65**
Stddev	.00068	.373	.00168	.00103	.00339	.00005	1.60
%RSD	10.058	1.0128	3.2920	1.4783	.61939	1.2838	.42885
#1	.00682	36.394	.05130	.06841	.54344	.00349	372.32
#2	.00747	37.020	.05234	.07045	.54828	.00353	373.20
#3	.00611	37.059	.04906	.06922	.54997	.00358	375.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00794**	**.02390**	**.07222**	**.41098**	**47.003**	**9.1473**	**.04799**
Stddev	.00007	.00023	.00043	.00555	.296	.0333	.00237
%RSD	.94099	.94535	.60065	1.3493	.63035	.36441	4.9292
#1	.00788	.02364	.07179	.40532	46.689	9.1278	.04791
#2	.00793	.02402	.07266	.41122	47.045	9.1284	.04567
#3	.00802	.02404	.07222	.41640	47.277	9.1858	.05040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.701**	**4.4914**	**.00292**	**2.8713**	**.05465**	F **31433.**	**.71511**
Stddev	.191	.0045	.00014	.0137	.00076	386.	.00705
%RSD	.58344	.09905	4.9245	.47722	1.3831	1.2295	.98583
#1	32.497	4.4891	.00307	2.8562	.05381	31026.	.70759
#2	32.729	4.4886	.00288	2.8829	.05529	31477.	.71615
#3	32.876	4.4966	.00279	2.8749	.05485	31795.	.72157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047602 Acquired: 2/25/2011 18:30:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.7482**	F **458.07**	F **-6042.2**	**.00896**	**.00099**	**78.056**	**.01555**
Stddev	11.881	5.22	68.9	.00092	.00079	.513	.00024
%RSD	206.70	1.1397	1.1404	10.280	79.376	.65726	1.5706
#1	-6.5723	452.51	-5972.1	.00856	.00057	77.505	.01534
#2	6.6816	458.83	-6044.7	.01001	.00051	78.520	.01581
#3	17.135	462.87	-6109.8	.00831	.00190	78.144	.01549
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27277**	**.06582**	**.00637**	**.07974**	**1.0033**	**24.691**
Stddev	.00227	.00071	.00107	.00079	.0118	.459
%RSD	.83225	1.0847	16.741	.99323	1.1727	1.8572
#1	.27063	.06558	.00749	.07905	.99053	24.180
#2	.27253	.06525	.00624	.07958	1.0058	24.825
#3	.27515	.06662	.00537	.08060	1.0137	25.067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88774.**	**47370.**
Stddev	638.	325.
%RSD	.71906	.68544
#1	88501.	47201.
#2	88316.	47165.
#3	89503.	47745.

Approved: March 01, 2011

Sample Name: L1102047603 Acquired: 2/25/2011 18:34:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00879**	**37.720**	**.04733**	**.06983**	**.74795**	**.00291**	**240.53**
Stddev	.00034	.355	.00108	.00047	.00319	.00003	1.13
%RSD	3.8435	.94173	2.2907	.67998	.42632	.91997	.46875
#1	.00903	37.472	.04609	.06936	.74533	.00289	239.63
#2	.00840	37.561	.04811	.07031	.74703	.00294	240.18
#3	.00894	38.127	.04778	.06983	.75150	.00291	241.80
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01105**	**.02428**	**.07835**	**1.0017**	**52.798**	**10.516**	**.03956**
Stddev	.00021	.00035	.00054	.0105	.254	.100	.00133
%RSD	1.9071	1.4429	.68597	1.0462	.48144	.94936	3.3653
#1	.01081	.02394	.07775	.98981	52.577	10.402	.03829
#2	.01113	.02426	.07880	1.0059	52.741	10.560	.04095
#3	.01121	.02464	.07849	1.0095	53.076	10.587	.03944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.288**	**3.9717**	**.00398**	**1.4603**	**.05128**	F **55808.**	**1.0344**
Stddev	.087	.0165	.00013	.0020	.00137	576.	.0093
%RSD	.34447	.41441	3.1861	.13703	2.6645	1.0326	.89940
#1	25.242	3.9527	.00390	1.4595	.05046	55255.	1.0256
#2	25.233	3.9823	.00390	1.4625	.05052	55763.	1.0334
#3	25.388	3.9800	.00412	1.4588	.05286	56405.	1.0441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047603 Acquired: 2/25/2011 18:34:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.7162**	F **380.55**	F **-10832.**	**.00985**	**.00231**	**62.663**	**.03398**
Stddev	6.4313	3.49	72.	.00207	.00129	.338	.00030
%RSD	374.74	.91809	.66211	20.977	55.920	.53878	.88055
#1	8.8039	376.67	-10754.	.00747	.00141	62.273	.03364
#2	.09161	381.55	-10850.	.01106	.00380	62.872	.03419
#3	-3.7470	383.45	-10894.	.01103	.00174	62.843	.03411
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28291**	**.09186**	**.00648**	**.08085**	**2.2105**	**28.472**
Stddev	.00124	.00151	.00043	.00002	.0216	.283
%RSD	.43783	1.6470	6.6305	.02515	.97809	.99318
#1	.28148	.09023	.00603	.08083	2.1857	28.325
#2	.28365	.09322	.00689	.08085	2.2202	28.294
#3	.28361	.09214	.00650	.08087	2.2255	28.798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91910.**	**49298.**
Stddev	462.	31.
%RSD	.50290	.06233
#1	91487.	49262.
#2	91839.	49314.
#3	92403.	49316.

Approved: March 01, 2011

Sample Name: L1102047604 Acquired: 2/25/2011 18:38:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00904**	**39.979**	**.05538**	**.07255**	**.74071**	**.00349**	**284.70**
Stddev	.00046	.162	.00212	.00099	.00411	.00005	1.71
%RSD	5.0800	.40640	3.8364	1.3625	.55493	1.3747	.60049
#1	.00932	39.791	.05717	.07142	.73650	.00347	283.16
#2	.00930	40.074	.05303	.07326	.74092	.00346	284.39
#3	.00851	40.072	.05594	.07296	.74472	.00355	286.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01180**	**.02578**	**.08308**	**.95186**	**53.134**	**10.368**	**.04676**
Stddev	.00008	.00019	.00041	.00523	.322	.096	.00149
%RSD	.71599	.72194	.49249	.54938	.60548	.92989	3.1938
#1	.01171	.02559	.08262	.94592	52.838	10.334	.04555
#2	.01181	.02580	.08339	.95389	53.088	10.294	.04843
#3	.01188	.02596	.08323	.95578	53.476	10.477	.04632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.726**	**5.1193**	**.00307**	**2.5707**	**.05793**	F **41843.**	**1.2728**
Stddev	.157	.0256	.00029	.0018	.00022	324.	.0080
%RSD	.54510	.50010	9.5656	.06889	.37856	.77429	.63043
#1	28.604	5.0954	.00275	2.5709	.05818	41547.	1.2648
#2	28.671	5.1162	.00314	2.5723	.05778	41794.	1.2728
#3	28.903	5.1463	.00333	2.5688	.05783	42189.	1.2808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047604 Acquired: 2/25/2011 18:38:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **20.238**	F **411.37**	F **-9952.6**	**.00962**	**.00311**	**71.351**	**.03996**
Stddev	8.206	2.11	26.3	.00122	.00170	.427	.00021
%RSD	40.546	.51320	.26413	12.652	54.518	.59866	.51301
#1	27.939	409.09	-9924.8	.00924	.00379	70.893	.03988
#2	11.607	411.76	-9956.1	.01098	.00118	71.739	.03981
#3	21.167	413.26	-9977.0	.00864	.00438	71.420	.04020
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26003**	**.08251**	**.00770**	**.08367**	**1.9779**	**30.701**
Stddev	.00144	.00014	.00166	.00051	.0063	.172
%RSD	.55344	.17300	21.578	.60697	.31812	.55971
#1	.25840	.08243	.00650	.08311	1.9708	30.522
#2	.26114	.08268	.00702	.08409	1.9829	30.716
#3	.26054	.08242	.00960	.08382	1.9800	30.864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91139.**	**49735.**
Stddev	113.	125.
%RSD	.12411	.25079
#1	91041.	49799.
#2	91113.	49815.
#3	91263.	49591.

Approved: March 01, 2011

Sample Name: L1102047605 Acquired: 2/25/2011 18:41:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00799**	**39.555**	**.05827**	**.04250**	**.72051**	**.00321**	**174.62**
Stddev	.00064	.201	.00100	.00090	.00149	.00003	.43
%RSD	8.0303	.50844	1.7247	2.1292	.20742	.82000	.24780
#1	.00873	39.336	.05718	.04146	.72154	.00324	174.97
#2	.00762	39.599	.05845	.04288	.72119	.00321	174.76
#3	.00763	39.731	.05916	.04315	.71879	.00318	174.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01599**	**.02560**	**.08365**	**.86823**	**56.612**	**9.1337**	**.03911**
Stddev	.00010	.00010	.00095	.00193	.138	.0263	.00101
%RSD	.63472	.39321	1.1301	.22207	.24327	.28825	2.5732
#1	.01592	.02571	.08262	.86795	56.587	9.1200	.03964
#2	.01595	.02552	.08387	.87028	56.760	9.1169	.03974
#3	.01611	.02556	.08447	.86646	56.488	9.1640	.03795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.058**	**4.3146**	**.00366**	**.74036**	**.05471**	F **31158.**	**1.0607**
Stddev	.055	.0196	.00019	.01454	.00081	57.	.0043
%RSD	.27225	.45448	5.1060	1.9646	1.4788	.18346	.40958
#1	20.088	4.3276	.00360	.74991	.05405	31185.	1.0640
#2	20.090	4.3240	.00387	.74755	.05561	31197.	1.0624
#3	19.995	4.2920	.00352	.72362	.05447	31092.	1.0558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047605 Acquired: 2/25/2011 18:41:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **16.802**	F **323.30**	F **-12091.**	**.01083**	**-.00119**	**67.924**	**.02639**
Stddev	3.835	.82	57.	.00196	.00089	.510	.00055
%RSD	22.824	.25344	.47195	18.083	74.471	.75021	2.0728
#1	12.894	322.79	-12028.	.01170	-.00018	68.246	.02616
#2	16.951	324.24	-12139.	.00859	-.00182	68.190	.02701
#3	20.560	322.86	-12107.	.01221	-.00157	67.337	.02599
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15344**	**.07902**	**.00644**	**.07893**	**2.4691**	**27.495**
Stddev	.00105	.00038	.00118	.00090	.0045	.462
%RSD	.68384	.48533	18.285	1.1365	.18323	1.6806
#1	.15384	.07938	.00515	.07799	2.4720	27.087
#2	.15422	.07904	.00747	.07904	2.4715	27.997
#3	.15224	.07862	.00669	.07977	2.4639	27.401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91966.**	**50362.**
Stddev	436.	220.
%RSD	.47429	.43687
#1	91601.	50611.
#2	91848.	50194.
#3	92449.	50281.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 18:45:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .46573	F 12.582	.39956	F .55361	1.0044	F .05807	10.244
Stddev	.00392	.197	.00084	.00588	.0064	.00078	.073
%RSD	.84210	1.5663	.21001	1.0624	.63612	1.3497	.71573
#1	.47023	12.801	.39912	.56035	.99706	.05897	10.159
#2	.46396	12.420	.39903	.54954	1.0077	.05758	10.279
#3	.46301	12.526	.40052	.55093	1.0085	.05765	10.293
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	.40000	10.000		.50000		.05000	
Range	10.000%	10.000%		10.000%		10.000%	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05467	.20826	F .57207	.48735	3.8769	53.589	1.0387
Stddev	.00019	.00054	.00648	.00132	.0183	.211	.0041
%RSD	.35639	.25961	1.1335	.26985	.47211	.39429	.39478
#1	.05489	.20877	.57952	.48884	3.8566	53.347	1.0341
#2	.05452	.20833	.56771	.48685	3.8920	53.734	1.0400
#3	.05461	.20769	.56899	.48636	3.8823	53.686	1.0420
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.50000				
Range			10.000%				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.322	.45123	.96235	51.223	.50615	F 26.851	.51618
Stddev	.036	.00290	.00405	.220	.00136	5.118	.00077
%RSD	.34792	.64210	.42034	.42985	.26859	19.061	.14904
#1	10.280	.45455	.96513	50.973	.50772	24.208	.51608
#2	10.339	.44924	.96422	51.309	.50538	32.750	.51547
#3	10.346	.44990	.95771	51.387	.50536	23.594	.51700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 18:45:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.98448**	**10.059**	F **28.895**	**1.2112**	**.39247**	F **3.9140**	**1.0246**
Stddev	1.8231	.030	2.108	.0020	.00144	.0803	.0035
%RSD	185.19	.30219	7.2947	.16659	.36571	2.0521	.33989
#1	2.2647	10.089	30.839	1.2135	.39406	3.9767	1.0279
#2	1.7916	10.028	26.655	1.2105	.39208	3.8235	1.0248
#3	-1.1029	10.061	29.190	1.2096	.39127	3.9418	1.0210
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.92804**	**.93852**	**.54238**	**1.0717**	**.91589**	F **.09245**
Stddev	.00574	.00833	.00063	.0126	.00399	.32730
%RSD	.61843	.88756	.11576	1.1733	.43600	354.02
#1	.92179	.92891	.54243	1.0862	.91868	.23485
#2	.92923	.94294	.54172	1.0640	.91767	.32443
#3	.93309	.94371	.54297	1.0649	.91131	-.28193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89514.**	**47826.**
Stddev	199.	830.
%RSD	.22193	1.7359
#1	89292.	46872.
#2	89675.	48226.
#3	89576.	48381.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 18:48:55 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00392**	**.01859**	**.00253**	**.00245**	**-.00002**	**-.00016**	**-.01837**
Stddev	.00055	.00525	.00115	.00075	.00020	.00003	.01695
%RSD	13.973	28.238	45.622	30.708	1271.9	15.797	92.246
#1	.00417	.01254	.00164	.00304	-.00025	-.00013	-.00832
#2	.00329	.02132	.00211	.00269	.00012	-.00018	-.00886
#3	.00430	.02190	.00384	.00160	.00007	-.00016	-.03794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00004**	**.00037**	**-.00046**	**.00492**	**.07399**	**-.00246**
Stddev	.00008	.00010	.00014	.00008	.00528	.06152	.00251
%RSD	204.88	240.80	36.437	18.301	107.22	83.135	101.92
#1	.00003	.00007	.00032	-.00055	.00188	.05288	-.00531
#2	-.00002	-.00012	.00027	-.00044	.00187	.14329	-.00150
#3	-.00013	-.00008	.00053	-.00039	.01102	.02581	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01977**	**.00072**	**.00044**	**.02047**	**-.00079**	F **-8.9791**	**-.00253**
Stddev	.01385	.00037	.00008	.00528	.00069	2.4119	.00099
%RSD	70.075	51.684	17.276	25.783	87.964	26.861	39.122
#1	-.01550	.00042	.00053	.01678	-.00157	-10.831	-.00308
#2	-.03526	.00114	.00041	.02651	-.00027	-6.2518	-.00314
#3	-.00856	.00061	.00039	.01811	-.00052	-9.8545	-.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 18:48:55 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.8727**	**-.13607**	F **13.444**	**.00215**	**-.00147**	**-.01590**	**.00020**
Stddev	15.299	.06695	3.481	.00164	.00409	.11697	.00022
%RSD	816.91	49.198	25.891	76.581	278.64	735.60	111.17
#1	13.785	-.20359	12.005	.00373	.00325	-.10178	-.00005
#2	-2.6171	-.06971	17.414	.00227	-.00379	.11732	.00029
#3	-16.786	-.13492	10.914	.00044	-.00386	-.06324	.00035
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00105**	**.00112**	**-.00011**	**-.00011**	F **-.88450**
Stddev	.00007	.00069	.00029	.00040	.00007	.25173
%RSD	79.833	66.223	25.577	360.34	59.743	28.461
#1	.00013	-.00184	.00114	.00032	-.00012	-.67801
#2	.00001	-.00077	.00140	-.00019	-.00017	-.81057
#3	.00014	-.00054	.00082	-.00046	-.00004	-1.1649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93741.**	**46610.**
Stddev	2135.	852.
%RSD	2.2772	1.8282
#1	92341.	47544.
#2	92684.	46411.
#3	96198.	45875.

Approved: March 01, 2011

Sample Name: L1102047606 Acquired: 2/25/2011 18:52:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00836**	**34.142**	**.05278**	**.04376**	**.82600**	**.00296**	**205.11**
Stddev	.00040	.158	.00194	.00051	.00632	.00001	1.41
%RSD	4.7977	.46234	3.6786	1.1744	.76501	.29397	.68943
#1	.00826	34.283	.05248	.04326	.81953	.00297	203.69
#2	.00881	33.971	.05100	.04428	.82633	.00296	205.12
#3	.00803	34.172	.05485	.04373	.83215	.00295	206.52
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01402**	**.02691**	**.08047**	**1.1991**	**54.548**	**9.4101**	**.03212**
Stddev	.00012	.00049	.00055	.0215	.384	.0907	.00024
%RSD	.88261	1.8271	.68796	1.7959	.70369	.96378	.73624
#1	.01387	.02648	.08110	1.1776	54.194	9.3607	.03203
#2	.01409	.02680	.08023	1.1991	54.493	9.3549	.03239
#3	.01409	.02745	.08007	1.2207	54.956	9.5148	.03194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.915**	**4.6132**	**.00347**	**.44151**	**.06399**	F **65068.**	**1.4179**
Stddev	.131	.0317	.00009	.02580	.00115	931.	.0226
%RSD	.73267	.68771	2.4683	5.8441	1.8025	1.4302	1.5914
#1	17.811	4.5884	.00338	.43453	.06279	64104.	1.3946
#2	17.871	4.6023	.00348	.41991	.06408	65140.	1.4196
#3	18.062	4.6490	.00355	.47008	.06509	65961.	1.4396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047606 Acquired: 2/25/2011 18:52:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.9436**	F **339.31**	F **-9946.5**	**.01450**	**.00202**	**83.320**	**.03969**
Stddev	6.4897	5.82	153.0	.00173	.00433	1.129	.00120
%RSD	81.697	1.7139	1.5387	11.954	214.11	1.3554	3.0273
#1	10.648	333.51	-9789.5	.01518	-.00198	82.282	.03835
#2	12.644	339.28	-9954.9	.01578	.00143	83.156	.04005
#3	.53915	345.14	-10095.	.01252	.00662	84.523	.04067
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19727**	**.08450**	**.00605**	**.07728**	**2.5018**	**25.266**
Stddev	.00172	.00190	.00140	.00047	.0541	.234
%RSD	.87233	2.2430	23.073	.61203	2.1615	.92554
#1	.19576	.08241	.00579	.07783	2.4486	25.039
#2	.19691	.08610	.00756	.07707	2.5002	25.254
#3	.19914	.08498	.00480	.07696	2.5567	25.506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93087.**	**51108.**
Stddev	455.	444.
%RSD	.48892	.86969
#1	93490.	50602.
#2	93179.	51438.
#3	92594.	51282.

Approved: March 01, 2011

Sample Name: L1102047607 Acquired: 2/25/2011 18:56:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00750**	**33.638**	**.04498**	**.03778**	**.83642**	**.00321**	**329.98**
Stddev	.00074	.413	.00066	.00085	.00737	.00002	2.69
%RSD	9.8469	1.2266	1.4773	2.2528	.88143	.69370	.81378
#1	.00834	33.323	.04459	.03744	.82860	.00322	327.38
#2	.00720	33.486	.04575	.03715	.83744	.00319	329.83
#3	.00695	34.105	.04460	.03875	.84324	.00323	332.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01213**	**.02520**	**.22103**	**.61988**	**51.157**	**8.1891**	**.04418**
Stddev	.00022	.00052	.00186	.01092	.445	.0870	.00203
%RSD	1.8139	2.0821	.84089	1.7623	.87026	1.0626	4.5883
#1	.01188	.02466	.21912	.60813	50.700	8.0928	.04468
#2	.01221	.02524	.22115	.62178	51.182	8.2124	.04196
#3	.01230	.02570	.22283	.62973	51.589	8.2620	.04592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.795**	**4.3873**	**.00254**	**.40587**	**.05680**	F **38609.**	**.81022**
Stddev	.332	.0260	.00005	.00730	.00044	572.	.01384
%RSD	1.1514	.59360	1.9928	1.7980	.77156	1.4820	1.7078
#1	28.452	4.3629	.00259	.40256	.05653	38015.	.79561
#2	28.819	4.3843	.00253	.40082	.05657	38654.	.81192
#3	29.113	4.4148	.00249	.41424	.05731	39157.	.82313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047607 Acquired: 2/25/2011 18:56:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **15.821**	F **409.89**	F **-5341.0**	**.01060**	**-.00125**	**77.033**	**.02510**
Stddev	6.901	5.96	78.5	.00272	.00260	.939	.00028
%RSD	43.620	1.4533	1.4691	25.636	208.44	1.2185	1.1135
#1	7.9535	403.96	-5256.6	.01373	-.00042	76.032	.02478
#2	18.656	409.84	-5354.8	.00897	.00084	77.174	.02528
#3	20.852	415.88	-5411.7	.00909	-.00415	77.893	.02524
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18694**	**.06985**	**.00690**	**.07562**	**3.2388**	**24.017**
Stddev	.00151	.00100	.00134	.00082	.0548	.161
%RSD	.80774	1.4313	19.498	1.0867	1.6924	.67154
#1	.18526	.07028	.00571	.07470	3.1823	23.883
#2	.18739	.07055	.00836	.07586	3.2423	23.970
#3	.18819	.06870	.00662	.07629	3.2917	24.196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91036.**	**49586.**
Stddev	226.	151.
%RSD	.24807	.30410
#1	91239.	49738.
#2	91076.	49585.
#3	90793.	49436.

Approved: March 01, 2011

Sample Name: L1102047608 Acquired: 2/25/2011 18:59:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00684**	**39.383**	**.04584**	**.04072**	**.64167**	**.00366**	**266.35**
Stddev	.00068	.215	.00089	.00117	.00429	.00006	1.57
%RSD	9.9454	.54577	1.9432	2.8683	.66875	1.5970	.58946
#1	.00756	39.194	.04530	.04186	.63780	.00360	264.53
#2	.00677	39.339	.04535	.04077	.64094	.00370	267.22
#3	.00620	39.617	.04687	.03953	.64628	.00370	267.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00836**	**.02729**	**.08297**	**.82235**	**56.192**	**8.1368**	**.04906**
Stddev	.00012	.00041	.00088	.01093	.363	.0864	.00134
%RSD	1.4325	1.5190	1.0547	1.3292	.64608	1.0616	2.7374
#1	.00829	.02689	.08224	.81160	55.856	8.0404	.04759
#2	.00829	.02726	.08272	.82200	56.143	8.1626	.05021
#3	.00850	.02771	.08394	.83346	56.577	8.2073	.04939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.352**	**4.1716**	**.00240**	**.58689**	**.05452**	F **31187.**	**.81985**
Stddev	.120	.0253	.00013	.01463	.00091	539.	.01163
%RSD	.47274	.60680	5.3774	2.4929	1.6651	1.7292	1.4191
#1	25.237	4.1441	.00225	.59883	.05365	30658.	.80862
#2	25.344	4.1940	.00250	.57057	.05445	31167.	.81908
#3	25.476	4.1765	.00244	.59127	.05546	31736.	.83185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047608 Acquired: 2/25/2011 18:59:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **16.044**	F **353.46**	F **-6376.6**	**.00968**	**-.00216**	**74.455**	**.02376**
Stddev	7.023	4.96	42.0	.00227	.00166	.924	.00040
%RSD	43.774	1.4041	.65849	23.446	76.859	1.2411	1.6846
#1	7.9412	348.55	-6335.1	.01155	-.00301	73.520	.02340
#2	20.378	353.37	-6375.7	.01033	-.00025	74.477	.02370
#3	19.814	358.47	-6419.1	.00715	-.00322	75.367	.02419
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19001**	**.06967**	**.00651**	**.08100**	**1.5677**	**26.320**
Stddev	.00131	.00097	.00014	.00104	.0157	.430
%RSD	.68871	1.3983	2.1154	1.2845	.99828	1.6346
#1	.18861	.06925	.00652	.07991	1.5531	25.946
#2	.19023	.06898	.00664	.08111	1.5658	26.224
#3	.19120	.07079	.00636	.08199	1.5842	26.791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93347.**	**50221.**
Stddev	39.	173.
%RSD	.04193	.34381
#1	93301.	50054.
#2	93372.	50399.
#3	93366.	50210.

Approved: March 01, 2011

Sample Name: L1102047609 Acquired: 2/25/2011 19:03:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00896**	**35.070**	**.04192**	**.06622**	**.75654**	**.00301**	**234.40**
Stddev	.00056	.135	.00067	.00121	.00442	.00004	1.20
%RSD	6.2179	.38450	1.5976	1.8224	.58417	1.4893	.51293
#1	.00944	35.017	.04138	.06747	.75194	.00296	233.30
#2	.00835	34.969	.04172	.06614	.75692	.00304	234.21
#3	.00909	35.223	.04267	.06506	.76075	.00304	235.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01055**	**.02750**	**.06954**	**.94255**	**52.875**	**9.9404**	**.03943**
Stddev	.00011	.00050	.00062	.01572	.301	.1283	.00074
%RSD	1.0592	1.8173	.88633	1.6681	.56872	1.2913	1.8872
#1	.01050	.02707	.06885	.92741	52.579	9.9306	.03885
#2	.01048	.02737	.07002	.94145	52.868	9.8172	.03917
#3	.01068	.02804	.06976	.95879	53.180	10.073	.04027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.163**	**4.8784**	**.00197**	**1.9813**	**.05585**	F **53297.**	**1.0311**
Stddev	.162	.0257	.00012	.0193	.00066	766.	.0134
%RSD	.64437	.52720	5.9907	.97358	1.1783	1.4380	1.2972
#1	25.050	4.8511	.00207	1.9596	.05513	52512.	1.0174
#2	25.090	4.8819	.00198	1.9881	.05601	53335.	1.0317
#3	25.349	4.9022	.00184	1.9963	.05642	54043.	1.0441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047609 Acquired: 2/25/2011 19:03:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.061**	F **375.15**	F **-10727.**	**.01047**	**.00076**	**69.717**	**.04194**
Stddev	4.981	5.44	149.	.00326	.00098	.482	.00037
%RSD	23.649	1.4498	1.3928	31.159	129.89	.69091	.88482
#1	25.484	370.18	-10592.	.01003	-.00030	69.171	.04153
#2	22.032	374.31	-10701.	.00746	.00094	70.082	.04206
#3	15.666	380.96	-10888.	.01394	.00164	69.899	.04224
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23320**	**.08754**	**.00634**	**.07768**	**1.8214**	**27.869**
Stddev	.00115	.00164	.00149	.00045	.0309	.129
%RSD	.49391	1.8792	23.507	.57328	1.6984	.46278
#1	.23199	.08710	.00514	.07719	1.7937	28.010
#2	.23332	.08615	.00587	.07780	1.8158	27.840
#3	.23429	.08936	.00801	.07805	1.8548	27.757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92873.**	**52442.**
Stddev	246.	141.
%RSD	.26438	.26903
#1	93051.	52325.
#2	92976.	52599.
#3	92593.	52402.

Approved: March 01, 2011

Sample Name: L1102047610 Acquired: 2/25/2011 19:07:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00790**	**31.059**	**.04199**	**.04047**	**.76405**	**.00276**	**269.15**
Stddev	.00037	.342	.00163	.00127	.00290	.00009	1.36
%RSD	4.6338	1.0998	3.8790	3.1308	.37928	3.1818	.50596
#1	.00799	30.942	.04327	.03912	.76131	.00267	268.01
#2	.00749	30.791	.04016	.04164	.76375	.00277	268.78
#3	.00821	31.443	.04255	.04064	.76708	.00284	270.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01197**	**.02343**	**.07271**	**.90540**	**50.762**	**9.0570**	**.03946**
Stddev	.00023	.00030	.00057	.00965	.233	.0537	.00129
%RSD	1.9098	1.2872	.77822	1.0661	.45885	.59246	3.2641
#1	.01171	.02319	.07266	.89549	50.596	9.0505	.03799
#2	.01214	.02333	.07217	.90594	50.661	9.0069	.04037
#3	.01207	.02377	.07330	.91477	51.028	9.1136	.04003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.115**	**3.9819**	**.00223**	**.42578**	**.04742**	F **58198.**	**1.4073**
Stddev	.148	.0253	.00019	.00679	.00041	505.	.0161
%RSD	.64189	.63443	8.5787	1.5949	.86954	.86688	1.1420
#1	22.992	3.9698	.00239	.42109	.04694	57703.	1.3917
#2	23.072	3.9650	.00229	.42269	.04767	58181.	1.4064
#3	23.279	4.0110	.00202	.43357	.04765	58711.	1.4238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047610 Acquired: 2/25/2011 19:07:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **16.837**	F **358.63**	F **-6797.2**	**.01158**	**.00343**	**69.889**	**.03939**
Stddev	6.457	3.24	20.7	.00043	.00063	.066	.00036
%RSD	38.352	.90240	.30432	3.7409	18.246	.09426	.91997
#1	22.837	355.40	-6774.4	.01160	.00286	69.894	.03898
#2	17.670	358.61	-6802.5	.01113	.00410	69.952	.03958
#3	10.003	361.87	-6814.7	.01200	.00332	69.821	.03963
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20466**	**.07261**	**.00600**	**.06652**	**2.1401**	**22.402**
Stddev	.00054	.00143	.00029	.00072	.0198	.332
%RSD	.26600	1.9722	4.8753	1.0853	.92356	1.4803
#1	.20416	.07395	.00634	.06630	2.1197	22.030
#2	.20458	.07110	.00581	.06594	2.1413	22.510
#3	.20524	.07277	.00586	.06733	2.1592	22.666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92599.**	**52229.**
Stddev	287.	333.
%RSD	.30998	.63740
#1	92872.	51928.
#2	92626.	52586.
#3	92300.	52172.

Approved: March 01, 2011

Sample Name: L1102047611 Acquired: 2/25/2011 19:10:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00641**	**35.136**	**.04084**	**.03651**	**.60150**	**.00286**	**224.88**
Stddev	.00061	.599	.00034	.00082	.00320	.00005	1.21
%RSD	9.4962	1.7036	.82116	2.2443	.53282	1.6671	.53856
#1	.00636	34.481	.04122	.03556	.59813	.00281	223.91
#2	.00583	35.271	.04066	.03700	.60185	.00288	224.50
#3	.00705	35.655	.04063	.03697	.60451	.00290	226.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00941**	**.02362**	**.07124**	**.59479**	**51.709**	**9.5194**	**.03693**
Stddev	.00007	.00015	.00156	.00328	.357	.0813	.00087
%RSD	.71851	.62288	2.1907	.55098	.68972	.85388	2.3499
#1	.00944	.02347	.06944	.59131	51.333	9.4852	.03672
#2	.00946	.02362	.07209	.59524	51.751	9.4608	.03619
#3	.00933	.02376	.07220	.59782	52.043	9.6122	.03789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.872**	**3.9703**	**.00235**	**.22629**	**.04860**	F **38552.**	**1.0886**
Stddev	.175	.0279	.00038	.00237	.00057	114.	.0063
%RSD	.92989	.70231	16.186	1.0452	1.1628	.29554	.57708
#1	18.723	3.9507	.00195	.22662	.04917	38421.	1.0816
#2	18.826	3.9579	.00237	.22847	.04857	38633.	1.0906
#3	19.065	4.0022	.00271	.22377	.04804	38600.	1.0937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047611 Acquired: 2/25/2011 19:10:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.691**	F **287.82**	F **-4773.9**	**.01249**	**-.00130**	**67.954**	**.03260**
Stddev	5.538	1.28	23.4	.00167	.00256	.596	.00019
%RSD	47.367	.44540	.49016	13.369	196.98	.87707	.57314
#1	18.018	286.67	-4757.1	.01369	.00025	68.162	.03245
#2	9.3294	287.58	-4764.0	.01321	-.00425	68.418	.03254
#3	7.7258	289.20	-4800.7	.01059	.00010	67.282	.03281
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13491**	**.07311**	**.00606**	**.07729**	**1.8051**	**25.097**
Stddev	.00084	.00109	.00091	.00130	.0116	.414
%RSD	.62502	1.4961	14.992	1.6769	.64104	1.6511
#1	.13394	.07223	.00545	.07586	1.7963	24.655
#2	.13534	.07433	.00562	.07761	1.8009	25.160
#3	.13546	.07275	.00710	.07839	1.8182	25.477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92522.**	**50069.**
Stddev	528.	906.
%RSD	.57087	1.8103
#1	91966.	51098.
#2	93018.	49719.
#3	92582.	49390.

Approved: March 01, 2011

Sample Name: L1102047612 Acquired: 2/25/2011 19:14:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00730**	**28.354**	**.04147**	**.04346**	**.61181**	**.00264**	**331.19**
Stddev	.00025	.302	.00008	.00104	.00557	.00002	2.89
%RSD	3.4352	1.0651	.20288	2.3993	.91115	.94132	.87224
#1	.00742	28.032	.04143	.04462	.60632	.00265	328.49
#2	.00701	28.401	.04157	.04258	.61164	.00262	330.82
#3	.00747	28.630	.04141	.04319	.61747	.00267	334.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00923**	**.02272**	**.06072**	**.61652**	**44.690**	**8.8334**	**.03411**
Stddev	.00025	.00038	.00078	.00994	.346	.0720	.00177
%RSD	2.6982	1.6942	1.2851	1.6123	.77331	.81528	5.1857
#1	.00897	.02237	.05989	.60676	44.351	8.7541	.03334
#2	.00924	.02265	.06083	.61617	44.676	8.8947	.03613
#3	.00947	.02313	.06143	.62663	45.042	8.8515	.03285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.534**	**4.0092**	**.00276**	**.38039**	**.04909**	F **55568.**	**.99559**
Stddev	.170	.0366	.00027	.01550	.00107	938.	.01319
%RSD	.66659	.91271	9.7953	4.0751	2.1757	1.6879	1.3252
#1	25.350	3.9768	.00245	.36793	.04834	54628.	.98255
#2	25.564	4.0020	.00288	.37549	.04862	55570.	.99529
#3	25.687	4.0489	.00294	.39775	.05031	56504.	1.0089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047612 Acquired: 2/25/2011 19:14:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.330**	F **412.37**	F **-5216.4**	**.01042**	**-.00211**	**74.749**	**.03240**
Stddev	12.085	6.63	61.6	.00042	.00268	.898	.00035
%RSD	106.66	1.6090	1.1803	4.0034	126.93	1.2010	1.0949
#1	6.6216	405.83	-5155.9	.00997	-.00479	73.883	.03201
#2	2.3078	412.18	-5214.4	.01049	.00056	74.688	.03246
#3	25.060	419.09	-5279.0	.01079	-.00210	75.675	.03271
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24510**	**.06490**	**.00633**	**.06669**	**1.7526**	**21.945**
Stddev	.00217	.00202	.00162	.00082	.0262	.174
%RSD	.88654	3.1059	25.620	1.2343	1.4972	.79514
#1	.24275	.06305	.00637	.06585	1.7261	22.143
#2	.24553	.06460	.00469	.06673	1.7533	21.880
#3	.24704	.06705	.00793	.06749	1.7785	21.813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90745.**	**50361.**
Stddev	160.	218.
%RSD	.17579	.43205
#1	90773.	50520.
#2	90889.	50113.
#3	90574.	50449.

Approved: March 01, 2011

Sample Name: L1102047613 Acquired: 2/25/2011 19:17:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357511-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00698**	**36.208**	**.04216**	**.04745**	**.60219**	**.00320**	**306.44**
Stddev	.00051	.220	.00024	.00021	.00115	.00001	.63
%RSD	7.3136	.60774	.56066	.44571	.19129	.30599	.20490
#1	.00750	36.458	.04242	.04767	.60352	.00319	306.85
#2	.00648	36.041	.04210	.04725	.60154	.00320	305.72
#3	.00694	36.126	.04195	.04742	.60150	.00321	306.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00748**	**.02358**	**.06974**	**.55187**	**49.814**	**9.8038**	**.04209**
Stddev	.00020	.00009	.00008	.00119	.032	.0343	.00237
%RSD	2.6964	.37522	.11231	.21540	.06394	.35035	5.6275
#1	.00738	.02355	.06970	.55087	49.851	9.7643	.03952
#2	.00771	.02352	.06969	.55318	49.794	9.8261	.04419
#3	.00735	.02368	.06983	.55156	49.798	9.8211	.04257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.574**	**4.1875**	**.00232**	**.33487**	**.05126**	F **44541.**	**.85398**
Stddev	.073	.0138	.00028	.00940	.00057	114.	.00282
%RSD	.25497	.32835	11.862	2.8080	1.1177	.25517	.32983
#1	28.653	4.2023	.00208	.33207	.05067	44424.	.85073
#2	28.560	4.1750	.00226	.32719	.05131	44548.	.85567
#3	28.510	4.1854	.00262	.34536	.05181	44651.	.85553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047613 Acquired: 2/25/2011 19:17:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357511-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.1144**	F **359.13**	F **-4458.0**	**.01490**	**.00227**	**62.499**	**.02621**
Stddev	8.5357	1.16	12.7	.00178	.00047	.397	.00015
%RSD	105.19	.32408	.28470	11.933	20.603	.63460	.58255
#1	-.72530	357.97	-4457.3	.01285	.00242	62.298	.02622
#2	8.7589	359.12	-4471.0	.01595	.00264	62.956	.02636
#3	16.310	360.30	-4445.6	.01592	.00175	62.244	.02605
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24884**	**.06683**	**.00637**	**.07681**	**1.2100**	**24.665**
Stddev	.00031	.00238	.00026	.00027	.0009	.276
%RSD	.12273	3.5662	4.1480	.35723	.07697	1.1179
#1	.24919	.06890	.00663	.07655	1.2096	24.794
#2	.24870	.06737	.00610	.07709	1.2111	24.853
#3	.24863	.06423	.00639	.07680	1.2094	24.349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90827.**	**50306.**
Stddev	129.	335.
%RSD	.14198	.66670
#1	90931.	49919.
#2	90867.	50491.
#3	90683.	50509.

Approved: March 01, 2011

Sample Name: L1102047614S Acquired: 2/25/2011 19:21:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357511-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05265**	**39.677**	**.08614**	**.05100**	**.62219**	**.00339**	**312.82**
Stddev	.00021	.349	.00166	.00184	.00568	.00004	2.48
%RSD	.39798	.87912	1.9286	3.6077	.91364	1.0618	.79165
#1	.05261	39.467	.08422	.04887	.61588	.00337	310.66
#2	.05287	39.485	.08707	.05208	.62377	.00337	312.28
#3	.05246	40.080	.08713	.05204	.62691	.00344	315.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01399**	**.02515**	**.07288**	**.64460**	**51.942**	**10.280**	**.04731**
Stddev	.00017	.00041	.00052	.00986	.520	.081	.00230
%RSD	1.2001	1.6328	.71734	1.5293	1.0019	.79088	4.8535
#1	.01380	.02485	.07289	.63485	51.417	10.195	.04949
#2	.01408	.02499	.07340	.64437	51.950	10.288	.04492
#3	.01410	.02562	.07235	.65456	52.458	10.357	.04752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.731**	**4.2753**	**.00253**	**.34268**	**.05557**	F **48714.**	**1.0248**
Stddev	.146	.0460	.00005	.01695	.00067	611.	.0150
%RSD	.48956	1.0759	1.8896	4.9466	1.2095	1.2542	1.4676
#1	29.620	4.2321	.00256	.32968	.05498	48078.	1.0095
#2	29.678	4.2701	.00247	.33651	.05542	48768.	1.0253
#3	29.896	4.3237	.00255	.36185	.05630	49296.	1.0395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047614S Acquired: 2/25/2011 19:21:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357511-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.5415**	F **381.10**	F **-4644.6**	**.01926**	**-.00088**	**72.789**	**.02454**
Stddev	6.1181	4.89	38.2	.00051	.00254	.325	.00017
%RSD	172.76	1.2829	.82225	2.6341	287.30	.44608	.68697
#1	-1.1874	376.20	-4608.0	.01946	.00106	72.421	.02436
#2	10.451	381.14	-4641.5	.01868	-.00376	72.914	.02468
#3	1.3607	385.98	-4684.2	.01963	.00005	73.033	.02460
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25300**	**.07451**	**.00605**	**.08397**	**1.3267**	**26.073**
Stddev	.00275	.00009	.00132	.00107	.0209	.290
%RSD	1.0852	.11813	21.801	1.2745	1.5754	1.1131
#1	.24998	.07450	.00453	.08339	1.3061	25.831
#2	.25367	.07443	.00686	.08330	1.3259	25.994
#3	.25535	.07461	.00676	.08520	1.3479	26.395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91379.**	**48932.**
Stddev	435.	307.
%RSD	.47561	.62835
#1	91733.	48624.
#2	91510.	49239.
#3	90894.	48931.

Approved: March 01, 2011

Sample Name: L1102047615SD Acquired: 2/25/2011 19:25:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357511-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05284**	**39.229**	**.08903**	**.05093**	**.61557**	**.00348**	**312.54**
Stddev	.00051	.220	.00332	.00139	.00647	.00002	3.95
%RSD	.97354	.56061	3.7265	2.7282	1.0504	.52390	1.2623
#1	.05257	38.989	.08532	.04933	.60897	.00348	308.54
#2	.05251	39.420	.09171	.05167	.61587	.00350	312.65
#3	.05343	39.279	.09006	.05179	.62189	.00346	316.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01441**	**.02637**	**.07318**	**.70041**	**52.181**	**10.420**	**.04624**
Stddev	.00033	.00057	.00046	.01579	.531	.155	.00103
%RSD	2.2933	2.1756	.62660	2.2547	1.0172	1.4829	2.2242
#1	.01408	.02584	.07267	.68483	51.661	10.251	.04655
#2	.01441	.02629	.07356	.69998	52.161	10.457	.04509
#3	.01474	.02698	.07330	.71641	52.722	10.553	.04708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.688**	**4.2729**	**.00260**	**.34968**	**.05807**	F **50483.**	**1.0429**
Stddev	.417	.0496	.00014	.01078	.00160	944.	.0196
%RSD	1.4044	1.1613	5.3148	3.0817	2.7574	1.8704	1.8756
#1	29.241	4.2280	.00258	.34312	.05652	49541.	1.0240
#2	29.757	4.2644	.00247	.36211	.05796	50478.	1.0418
#3	30.067	4.3262	.00275	.34379	.05972	51429.	1.0630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047615SD Acquired: 2/25/2011 19:25:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357511-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.702**	F **391.69**	F **-4996.9**	**.01862**	**.00318**	**74.785**	**.02541**
Stddev	13.404	7.13	90.8	.00194	.00061	.923	.00041
%RSD	114.54	1.8207	1.8173	10.440	19.194	1.2337	1.6259
#1	15.231	384.48	-4902.7	.01658	.00301	73.728	.02501
#2	-3.1133	391.86	-5004.2	.01883	.00266	75.197	.02537
#3	22.988	398.74	-5083.9	.02046	.00385	75.430	.02584
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25677**	**.07814**	**.00644**	**.08599**	**1.3731**	**26.894**
Stddev	.00169	.00173	.00066	.00033	.0272	.334
%RSD	.65856	2.2113	10.183	.38843	1.9812	1.2408
#1	.25484	.07733	.00643	.08570	1.3469	26.997
#2	.25751	.07696	.00710	.08636	1.3710	27.164
#3	.25797	.08012	.00579	.08592	1.4012	26.521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93301.**	**50477.**
Stddev	171.	440.
%RSD	.18339	.87200
#1	93417.	50329.
#2	93381.	50130.
#3	93105.	50972.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 19:28:53 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .44440	F 12.067	.40034	.52334	.99925	F .05572	10.158
Stddev	.00228	.045	.00366	.00071	.00179	.00014	.023
%RSD	.51309	.37643	.91386	.13593	.17950	.25281	.22911
#1	.44179	12.016	.40161	.52335	.99841	.05556	10.136
#2	.44604	12.085	.40319	.52405	.99803	.05580	10.157
#3	.44535	12.102	.39621	.52263	1.0013	.05580	10.182
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	.40000	10.000				.05000	
Range	10.000%	10.000%				10.000%	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05499	.20824	.54512	.48704	3.8224	53.119	1.0363
Stddev	.00009	.00040	.00155	.00101	.0194	.158	.0039
%RSD	.15525	.19280	.28522	.20764	.50669	.29804	.37465
#1	.05504	.20870	.54376	.48781	3.8109	53.204	1.0373
#2	.05489	.20809	.54478	.48741	3.8115	52.936	1.0320
#3	.05505	.20794	.54681	.48590	3.8447	53.217	1.0396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.156	F .44234	.95908	50.676	.50777	F 45.055	.51401
Stddev	.056	.00121	.00026	.087	.00115	19.690	.00159
%RSD	.55201	.27342	.02763	.17249	.22596	43.702	.30926
#1	10.099	.44177	.95933	50.673	.50906	67.790	.51546
#2	10.159	.44151	.95910	50.590	.50738	33.886	.51231
#3	10.211	.44372	.95880	50.765	.50686	33.489	.51424
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 19:28:53 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **16.921**	**9.9628**	F **25.900**	**1.2085**	**.39177**	F **3.8175**	**1.0225**
Stddev	8.202	.0384	1.316	.0054	.00066	.1454	.0015
%RSD	48.472	.38519	5.0811	.44415	.16753	3.8094	.14712
#1	25.788	9.9209	25.689	1.2146	.39104	3.7059	1.0242
#2	9.6056	9.9962	27.309	1.2067	.39196	3.7646	1.0216
#3	15.369	9.9713	24.702	1.2043	.39230	3.9819	1.0216
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.92011**	**.92691**	**.54068**	**1.0157**	**.90923**	F **-.05827**
Stddev	.00157	.00293	.00213	.0042	.00128	.15086
%RSD	.17011	.31663	.39389	.40816	.14073	258.88
#1	.92127	.92530	.53876	1.0110	.90947	.04027
#2	.91833	.92513	.54297	1.0190	.91037	-.23195
#3	.92073	.93030	.54029	1.0169	.90784	.01686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90743.**	**50352.**
Stddev	131.	244.
%RSD	.14490	.48414
#1	90598.	50458.
#2	90854.	50524.
#3	90778.	50073.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 19:32:30 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .00462	.01144	.00002	.00265	-.00052	-.00016	-.00278
Stddev	.00037	.00140	.00082	.00105	.00021	.00001	.02077
%RSD	8.0472	12.252	4839.5	39.758	41.573	9.0787	746.18
#1	.00462	.00982	.00089	.00147	-.00062	-.00014	.00245
#2	.00500	.01228	-.00075	.00299	-.00027	-.00017	.01487
#3	.00425	.01222	-.00009	.00348	-.00066	-.00016	-.02567
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.00400						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00001	-.00012	.00003	-.00023	-.00118	.09379	-.00189
Stddev	.00008	.00008	.00019	.00028	.00565	.01046	.00106
%RSD	1072.3	68.009	701.92	124.74	479.87	11.147	55.933
#1	-.00003	-.00013	-.00010	-.00055	-.00769	.09073	-.00276
#2	-.00005	-.00003	-.00007	-.00006	.00240	.10544	-.00071
#3	.00010	-.00018	.00025	-.00006	.00175	.08521	-.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01367	.00153	.00069	.02348	-.00096	F 8.3319	-.00292
Stddev	.01227	.00047	.00016	.02017	.00024	8.0115	.00145
%RSD	89.782	30.417	23.093	85.914	24.425	96.155	49.665
#1	-.00807	.00200	.00057	.03340	-.00118	.76404	-.00131
#2	-.02774	.00152	.00087	.03677	-.00071	7.5082	-.00413
#3	-.00519	.00107	.00063	.00027	-.00100	16.723	-.00333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 19:32:30 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-4.0605**	**-.13779**	F **14.206**	**.00371**	**-.00183**	**.03372**	**.00021**
Stddev	1.4759	.05027	4.618	.00216	.00154	.19694	.00006
%RSD	36.347	36.482	32.510	58.326	83.985	584.06	29.563
#1	-5.5198	-.09398	12.677	.00410	-.00115	-.07866	.00029
#2	-4.0929	-.12671	19.395	.00138	-.00076	-.08130	.00018
#3	-2.5686	-.19267	10.546	.00566	-.00360	.26112	.00017
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00014**	**.00004**	**-.00022**	**-.00010**	F **-.47265**
Stddev	.00012	.00080	.00158	.00021	.00006	.32982
%RSD	138.39	570.07	3935.8	94.202	64.076	69.781
#1	-.00001	.00103	-.00172	.00000	-.00006	-.85097
#2	.00005	-.00008	.00050	-.00024	-.00017	-.24555
#3	.00022	-.00053	.00134	-.00041	-.00006	-.32144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92000.**	**48649.**
Stddev	232.	203.
%RSD	.25225	.41749
#1	92122.	48809.
#2	92145.	48718.
#3	91732.	48421.

Approved: March 01, 2011

Sample Name: L1102047616 Acquired: 2/25/2011 19:36:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00769**	**36.179**	**.04121**	**.04667**	**.57154**	**.00322**	**292.27**
Stddev	.00030	.062	.00039	.00056	.00133	.00002	.78
%RSD	3.8443	.17125	.94162	1.1939	.23347	.65365	.26804
#1	.00800	36.236	.04124	.04718	.57026	.00322	291.52
#2	.00766	36.188	.04158	.04608	.57144	.00320	292.21
#3	.00741	36.113	.04080	.04676	.57292	.00324	293.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00769**	**.02349**	**.06683**	**.54755**	**48.284**	**9.4634**	**.04217**
Stddev	.00020	.00015	.00082	.00356	.133	.0389	.00191
%RSD	2.6260	.62737	1.2307	.64993	.27460	.41080	4.5186
#1	.00746	.02337	.06646	.54400	48.132	9.4214	.04002
#2	.00784	.02345	.06625	.54755	48.373	9.4981	.04364
#3	.00777	.02366	.06777	.55111	48.348	9.4707	.04286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.689**	**4.0655**	**.00260**	**.32520**	**.05023**	F **45188.**	**.89062**
Stddev	.032	.0124	.00040	.01170	.00034	313.	.00770
%RSD	.11591	.30578	15.267	3.5982	.67002	.69302	.86475
#1	27.655	4.0579	.00249	.33065	.04985	44876.	.88177
#2	27.718	4.0799	.00226	.31177	.05037	45186.	.89430
#3	27.696	4.0588	.00303	.33319	.05047	45502.	.89580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047616 Acquired: 2/25/2011 19:36:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.1234**	F **354.90**	F **-4595.0**	**.01512**	**.00089**	**62.156**	**.02135**
Stddev	5.0555	2.44	18.1	.00327	.00315	.412	.00003
%RSD	449.99	.68885	.39419	21.595	352.39	.66337	.15036
#1	-.96530	352.28	-4585.2	.01888	.00067	61.708	.02135
#2	3.8511	355.30	-4584.0	.01296	-.00214	62.519	.02131
#3	-6.2561	357.12	-4615.9	.01353	.00414	62.242	.02138
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24016**	**.06184**	**.00665**	**.07612**	**1.2522**	**24.298**
Stddev	.00128	.00146	.00093	.00023	.0073	.309
%RSD	.53125	2.3676	14.007	.30014	.58506	1.2725
#1	.23871	.06204	.00668	.07626	1.2447	24.015
#2	.24070	.06029	.00756	.07586	1.2527	24.628
#3	.24108	.06319	.00570	.07624	1.2593	24.250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**90482.**	**48647.**
Stddev	115.	187.
%RSD	.12762	.38495
#1	90589.	48494.
#2	90359.	48590.
#3	90499.	48856.

Approved: March 01, 2011

Sample Name: L1102047617 Acquired: 2/25/2011 19:39:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00866**	**43.526**	**.04414**	**.06588**	**.78441**	**.00303**	**367.57**
Stddev	.00097	.213	.00055	.00094	.00781	.00002	3.94
%RSD	11.254	.48956	1.2388	1.4312	.99594	.78436	1.0708
#1	.00958	43.290	.04474	.06484	.77656	.00303	363.39
#2	.00876	43.583	.04402	.06668	.78447	.00301	368.13
#3	.00764	43.704	.04367	.06611	.79219	.00306	371.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01326**	**.02854**	**.08511**	**.89544**	**58.251**	**11.062**	**.05042**
Stddev	.00027	.00050	.00057	.01830	.633	.083	.00251
%RSD	2.0334	1.7540	.66590	2.0441	1.0863	.74796	4.9877
#1	.01299	.02809	.08485	.87727	57.656	10.993	.04960
#2	.01326	.02845	.08472	.89517	58.181	11.039	.05324
#3	.01353	.02908	.08576	.91388	58.916	11.154	.04841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.176**	**4.0996**	**.00320**	**1.1038**	**.05681**	F **86090.**	**1.2388**
Stddev	.249	.0511	.00009	.0213	.00100	1794.	.0249
%RSD	.75005	1.2470	2.8084	1.9261	1.7663	2.0843	2.0072
#1	32.940	4.0482	.00325	1.1158	.05602	84249.	1.2135
#2	33.152	4.1000	.00325	1.0793	.05647	86187.	1.2398
#3	33.436	4.1505	.00310	1.1163	.05794	87834.	1.2632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047617 Acquired: 2/25/2011 19:39:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.2164**	F **494.34**	F **-8447.4**	**.01406**	**.00155**	**69.698**	**.03856**
Stddev	.8059	9.81	133.6	.00149	.00267	.840	.00049
%RSD	36.359	1.9840	1.5816	10.629	172.13	1.2053	1.2766
#1	2.4114	484.37	-8318.8	.01522	.00255	68.781	.03802
#2	2.9069	494.66	-8437.8	.01238	.00358	69.883	.03870
#3	1.3310	503.98	-8585.5	.01458	-.00147	70.430	.03897
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28855**	**.11535**	**.00653**	**.09396**	**2.5780**	**27.374**
Stddev	.00273	.00072	.00084	.00033	.0454	.301
%RSD	.94535	.62685	12.930	.34706	1.7613	1.0992
#1	.28616	.11474	.00576	.09361	2.5331	27.078
#2	.28796	.11517	.00639	.09404	2.5770	27.366
#3	.29152	.11615	.00743	.09424	2.6239	27.679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91721.**	**47685.**
Stddev	437.	305.
%RSD	.47686	.63863
#1	91309.	47445.
#2	91675.	47583.
#3	92180.	48028.

Approved: March 01, 2011

Sample Name: L1102047618 Acquired: 2/25/2011 19:43:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00845**	**33.833**	**.04248**	**.03896**	**.55312**	**.00313**	**333.71**
Stddev	.00028	.303	.00162	.00076	.00611	.00005	4.04
%RSD	3.3684	.89432	3.8053	1.9452	1.1046	1.4475	1.2097
#1	.00812	33.485	.04367	.03980	.54743	.00312	329.64
#2	.00856	33.974	.04312	.03832	.55236	.00310	333.79
#3	.00865	34.039	.04064	.03876	.55957	.00318	337.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00943**	**.02549**	**.07210**	**.79701**	**49.825**	**8.4744**	**.04110**
Stddev	.00009	.00054	.00097	.01602	.573	.0856	.00086
%RSD	.95335	2.1324	1.3481	2.0106	1.1499	1.0104	2.0950
#1	.00934	.02500	.07099	.78014	49.276	8.3865	.04206
#2	.00944	.02539	.07257	.79887	49.779	8.4790	.04039
#3	.00952	.02607	.07275	.81203	50.419	8.5576	.04084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.215**	**4.2383**	**.00267**	**.39444**	**.05261**	F **32069.**	**.86719**
Stddev	.322	.0447	.00010	.00618	.00090	524.	.01355
%RSD	1.2265	1.0534	3.7115	1.5673	1.7117	1.6330	1.5621
#1	25.900	4.1967	.00256	.39524	.05164	31518.	.85306
#2	26.202	4.2326	.00275	.38789	.05279	32130.	.86844
#3	26.543	4.2855	.00272	.40018	.05341	32560.	.88007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047618 Acquired: 2/25/2011 19:43:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.9571**	F **437.84**	F **-6971.8**	**.01643**	**.00060**	**70.979**	**.03083**
Stddev	13.566	6.96	103.5	.00026	.00192	.893	.00049
%RSD	273.67	1.5900	1.4845	1.5878	321.53	1.2581	1.6026
#1	2.6396	430.53	-6863.7	.01673	-.00155	69.953	.03036
#2	-7.3008	438.59	-6981.5	.01624	.00214	71.394	.03078
#3	19.533	444.39	-7070.0	.01633	.00120	71.588	.03135
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18703**	**.06783**	**.00604**	**.07413**	**1.4507**	**23.876**
Stddev	.00197	.00150	.00042	.00053	.0288	.251
%RSD	1.0548	2.2162	6.9327	.71358	1.9855	1.0503
#1	.18508	.06609	.00591	.07366	1.4204	23.744
#2	.18698	.06870	.00570	.07404	1.4540	23.718
#3	.18902	.06868	.00651	.07470	1.4777	24.165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91986.**	**49860.**
Stddev	152.	135.
%RSD	.16501	.27094
#1	91942.	49842.
#2	91861.	49735.
#3	92154.	50003.

Approved: March 01, 2011

Sample Name: L1102047619 Acquired: 2/25/2011 19:47:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00817**	**35.249**	**.04979**	**.03935**	**.67346**	**.00323**	**319.31**
Stddev	.00021	.457	.00202	.00178	.00847	.00002	3.87
%RSD	2.5921	1.2975	4.0563	4.5207	1.2580	.59599	1.2127
#1	.00806	34.829	.04747	.04022	.66471	.00323	315.39
#2	.00804	35.182	.05073	.03730	.67406	.00322	319.40
#3	.00842	35.736	.05117	.04052	.68162	.00325	323.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01082**	**.02628**	**.07929**	**.97377**	**53.261**	**10.024**	**.04100**
Stddev	.00007	.00045	.00168	.01652	.675	.072	.00044
%RSD	.65435	1.6960	2.1135	1.6962	1.2675	.71583	1.0729
#1	.01073	.02591	.07757	.95721	52.577	9.9590	.04068
#2	.01086	.02616	.07937	.97386	53.277	10.011	.04150
#3	.01085	.02677	.08092	.99025	53.927	10.101	.04081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.296**	**5.0823**	**.00272**	**.25299**	**.05443**	F **34354.**	**1.1184**
Stddev	.197	.0826	.00016	.00936	.00102	577.	.0171
%RSD	.92331	1.6248	6.0613	3.6987	1.8780	1.6788	1.5275
#1	21.088	4.9948	.00289	.24545	.05326	33745.	1.1008
#2	21.323	5.0931	.00270	.25004	.05484	34426.	1.1193
#3	21.478	5.1589	.00257	.26346	.05518	34892.	1.1350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047619 Acquired: 2/25/2011 19:47:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **16.890**	F **404.98**	F **-5575.1**	**.01253**	**.00449**	F **90.509**	**.04742**
Stddev	6.137	6.46	100.6	.00151	.00137	.920	.00037
%RSD	36.333	1.5941	1.8045	12.078	30.501	1.0169	.78463
#1	10.706	398.56	-5476.9	.01078	.00589	89.465	.04724
#2	16.986	404.90	-5570.5	.01337	.00316	90.856	.04718
#3	22.979	411.47	-5678.0	.01343	.00442	91.205	.04785
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18206**	**.08081**	**.00520**	**.08355**	**1.6443**	**26.231**
Stddev	.00353	.00181	.00055	.00072	.0293	.188
%RSD	1.9395	2.2345	10.614	.85892	1.7787	.71832
#1	.17879	.07926	.00509	.08321	1.6170	26.037
#2	.18159	.08037	.00580	.08306	1.6407	26.242
#3	.18580	.08279	.00472	.08437	1.6751	26.413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91527.**	**50568.**
Stddev	172.	101.
%RSD	.18768	.20032
#1	91481.	50684.
#2	91717.	50510.
#3	91383.	50508.

Approved: March 01, 2011

Sample Name: L1102047620 Acquired: 2/25/2011 19:50:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00755**	**42.311**	**.05138**	**.04531**	**.60321**	**.00352**	**173.49**
Stddev	.00021	.687	.00145	.00172	.00495	.00010	1.36
%RSD	2.8045	1.6238	2.8296	3.7860	.81992	2.7440	.78495
#1	.00769	42.023	.05256	.04333	.59785	.00343	172.10
#2	.00731	41.815	.04976	.04636	.60420	.00350	173.54
#3	.00766	43.095	.05181	.04624	.60759	.00362	174.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00704**	**.02635**	**.07578**	**.66890**	**58.974**	**12.030**	**.03810**
Stddev	.00016	.00030	.00164	.00626	.396	.047	.00127
%RSD	2.2693	1.1445	2.1633	.93524	.67225	.39069	3.3207
#1	.00688	.02602	.07512	.66413	58.536	12.000	.03867
#2	.00706	.02645	.07458	.66659	59.079	12.007	.03898
#3	.00720	.02660	.07765	.67598	59.308	12.084	.03665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.392**	**4.8473**	**.00271**	**.25515**	**.05512**	F **26173.**	**.81870**
Stddev	.098	.0277	.00018	.00655	.00076	254.	.00828
%RSD	.56607	.57042	6.7105	2.5654	1.3866	.96926	1.0113
#1	17.292	4.8155	.00275	.25765	.05425	25890.	.81049
#2	17.395	4.8608	.00287	.24772	.05568	26250.	.81856
#3	17.489	4.8656	.00251	.26007	.05542	26380.	.82704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047620 Acquired: 2/25/2011 19:50:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **17.200**	F **237.41**	F **-4563.5**	**.01438**	**-.00075**	**81.897**	**.03522**
Stddev	7.394	1.80	6.6	.00127	.00286	.380	.00017
%RSD	42.987	.76030	.14559	8.8138	380.21	.46415	.49484
#1	18.924	235.47	-4558.5	.01559	.00245	81.460	.03510
#2	9.0964	237.71	-4561.0	.01448	-.00164	82.074	.03514
#3	23.579	239.04	-4571.1	.01306	-.00306	82.156	.03542
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13852**	**.08068**	**.00720**	**.09217**	**1.3298**	**26.446**
Stddev	.00072	.00051	.00114	.00106	.0058	.102
%RSD	.52240	.63639	15.770	1.1499	.43868	.38579
#1	.13772	.08123	.00789	.09184	1.3239	26.423
#2	.13871	.08022	.00589	.09131	1.3302	26.357
#3	.13913	.08058	.00783	.09336	1.3355	26.557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93030.**	**51510.**
Stddev	166.	305.
%RSD	.17794	.59231
#1	93215.	51507.
#2	92897.	51816.
#3	92977.	51206.

Approved: March 01, 2011

Sample Name: L1102047621 Acquired: 2/25/2011 19:54:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00602**	**27.642**	**.03936**	**.02957**	**.45273**	**.00259**	**467.46**
Stddev	.00064	.391	.00090	.00070	.00652	.00005	7.56
%RSD	10.573	1.4137	2.2810	2.3525	1.4402	1.7640	1.6182
#1	.00532	27.272	.03995	.02904	.44661	.00255	460.59
#2	.00657	27.605	.03981	.03036	.45199	.00258	466.21
#3	.00617	28.051	.03833	.02931	.45959	.00264	475.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00559**	**.02304**	**.06021**	**.35101**	**44.829**	**6.1909**	**.04298**
Stddev	.00007	.00016	.00032	.00218	.661	.1278	.00134
%RSD	1.2332	.70107	.52863	.62081	1.4734	2.0649	3.1137
#1	.00551	.02286	.06008	.34850	44.228	6.0780	.04361
#2	.00560	.02317	.05998	.35224	44.721	6.1650	.04389
#3	.00564	.02310	.06058	.35230	45.536	6.3297	.04145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.220**	**3.9648**	**.00326**	**.36921**	**.04645**	F **16930.**	**.49302**
Stddev	.315	.0573	.00023	.00765	.00055	78.	.00472
%RSD	1.4825	1.4448	6.9935	2.0718	1.1766	.45952	.95684
#1	20.970	3.9158	.00301	.36252	.04588	16841.	.48812
#2	21.116	3.9508	.00331	.37755	.04697	16974.	.49753
#3	21.573	4.0278	.00346	.36757	.04650	16976.	.49342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047621 Acquired: 2/25/2011 19:54:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.559**	F **589.71**	F **-7945.4**	**.00804**	**-.00047**	**76.567**	**.01143**
Stddev	11.656	3.19	27.4	.00306	.00245	.583	.00039
%RSD	49.478	.54132	.34427	38.113	521.58	.76103	3.4029
#1	13.101	586.03	-7914.3	.00466	.00099	76.040	.01130
#2	21.450	591.37	-7965.6	.01064	-.00329	77.193	.01112
#3	36.126	591.73	-7956.2	.00881	.00089	76.469	.01187
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18501**	**.05433**	**.00633**	**.07298**	**.69892**	**21.882**
Stddev	.00191	.00178	.00136	.00070	.00379	.326
%RSD	1.0304	3.2804	21.457	.95451	.54180	1.4898
#1	.18301	.05367	.00728	.07258	.69455	21.804
#2	.18523	.05297	.00695	.07258	.70124	21.602
#3	.18680	.05634	.00478	.07379	.70097	22.240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89481.**	**49686.**
Stddev	152.	277.
%RSD	.16981	.55704
#1	89426.	49774.
#2	89652.	49908.
#3	89364.	49376.

Approved: March 01, 2011

Sample Name: L1102047622 Acquired: 2/25/2011 19:57:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00541**	**37.188**	**.03187**	**.02877**	**.64616**	**.00298**	**203.94**
Stddev	.00036	.406	.00215	.00067	.00566	.00003	1.50
%RSD	6.6175	1.0911	6.7364	2.3113	.87534	1.0673	.73489
#1	.00565	36.744	.03221	.02953	.64042	.00295	202.38
#2	.00557	37.539	.02958	.02826	.64634	.00301	204.08
#3	.00500	37.282	.03383	.02854	.65173	.00299	205.37
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00330**	**.02670**	**.06292**	**.15240**	**46.322**	**10.777**	**.02748**
Stddev	.00018	.00031	.00034	.00187	.450	.066	.00131
%RSD	5.5655	1.1585	.53571	1.2245	.97065	.61403	4.7698
#1	.00312	.02644	.06282	.15030	45.889	10.701	.02670
#2	.00329	.02662	.06329	.15300	46.292	10.809	.02674
#3	.00348	.02704	.06264	.15389	46.786	10.821	.02899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.568**	**2.2250**	**.00173**	**.21236**	**.04248**	F **17476.**	**.26057**
Stddev	.144	.0249	.00006	.01462	.00118	161.	.00206
%RSD	.92653	1.1194	3.1981	6.8854	2.7810	.91869	.79203
#1	15.408	2.1988	.00169	.21535	.04137	17307.	.25819
#2	15.605	2.2278	.00179	.19647	.04372	17495.	.26183
#3	15.689	2.2484	.00170	.22525	.04234	17626.	.26169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102047622 Acquired: 2/25/2011 19:57:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.7640**	F **255.25**	F **-3375.5**	**.00612**	**.00018**	**63.116**	**.00479**
Stddev	9.0919	2.69	41.1	.00249	.00059	.268	.00015
%RSD	190.85	1.0555	1.2172	40.709	330.65	.42507	3.1713
#1	13.743	252.44	-3332.5	.00364	-.00032	62.824	.00479
#2	-4.4370	255.51	-3379.5	.00610	.00002	63.174	.00463
#3	4.9863	257.80	-3414.4	.00862	.00084	63.351	.00493
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16626**	**.04283**	**.00499**	**.08751**	**.26533**	**27.775**
Stddev	.00151	.00165	.00059	.00071	.00296	.343
%RSD	.90677	3.8481	11.802	.81006	1.1139	1.2338
#1	.16480	.04377	.00433	.08687	.26216	27.717
#2	.16617	.04093	.00517	.08827	.26581	28.143
#3	.16782	.04380	.00546	.08740	.26801	27.466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91206.**	**48671.**
Stddev	72.	315.
%RSD	.07934	.64809
#1	91123.	48739.
#2	91259.	48327.
#3	91234.	48946.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 20:01:36 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .46632	F 12.891	.39784	F .55059	1.0074	F .05851	10.153
Stddev	.00355	.061	.00137	.00393	.0019	.00035	.035
%RSD	.76180	.46955	.34530	.71463	.18795	.59033	.34657
#1	.46408	12.900	.39718	.54711	1.0095	.05839	10.141
#2	.47042	12.947	.39942	.55486	1.0061	.05890	10.125
#3	.46447	12.827	.39692	.54980	1.0064	.05825	10.192
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	.40000	10.000		.50000		.05000	
Range	10.000%	10.000%		10.000%		10.000%	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .05530	.20948	F .57600	.48613	3.8977	53.753	1.0431
Stddev	.00013	.00033	.00208	.00036	.0031	.079	.0018
%RSD	.23000	.15569	.36045	.07389	.08042	.14701	.16816
#1	.05518	.20953	.57442	.48653	3.8941	53.844	1.0433
#2	.05543	.20977	.57835	.48600	3.8997	53.698	1.0413
#3	.05527	.20913	.57524	.48585	3.8993	53.719	1.0448
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.05000		.50000				
Range	10.000%		10.000%				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.357	F .44698	.96002	51.608	.50922	F 31.764	.51872
Stddev	.018	.00192	.00169	.101	.00039	9.195	.00068
%RSD	.17712	.42959	.17601	.19616	.07680	28.948	.13196
#1	10.375	.44708	.96151	51.724	.50896	41.231	.51806
#2	10.358	.44885	.96036	51.540	.50967	31.193	.51942
#3	10.339	.44501	.95819	51.558	.50903	22.868	.51866
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 20:01:36 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.5318**	**10.081**	F **36.161**	**1.2100**	**.39158**	F **3.7417**	**1.0297**
Stddev	7.6536	.054	2.963	.0014	.00149	.0115	.0008
%RSD	168.89	.53310	8.1943	.11148	.38148	.30845	.08053
#1	-3.3121	10.124	32.859	1.2115	.39282	3.7396	1.0304
#2	4.9278	10.099	38.589	1.2092	.38992	3.7313	1.0299
#3	11.980	10.021	37.035	1.2092	.39201	3.7541	1.0287
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.93132**	**.93108**	**.54358**	**1.0645**	**.90825**	F **-.13125**
Stddev	.00306	.00341	.00155	.0066	.00189	.50729
%RSD	.32908	.36657	.28550	.62141	.20787	386.51
#1	.93411	.93381	.54477	1.0596	.91041	.45322
#2	.93182	.93218	.54414	1.0720	.90745	-.38973
#3	.92804	.92726	.54183	1.0619	.90689	-.45723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**89952.**	**46949.**
Stddev	1037.	138.
%RSD	1.1525	.29330
#1	89177.	46942.
#2	89548.	46815.
#3	91129.	47090.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 20:05:13 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.00424**	**.00402**	**.00097**	**.00182**	**-.00071**	**-.00014**	**.00904**
Stddev	.00071	.00829	.00054	.00032	.00025	.00002	.00848
%RSD	16.840	205.92	56.311	17.336	34.609	14.616	93.888
#1	.00404	.00943	.00103	.00149	-.00045	-.00012	.00000
#2	.00503	.00816	.00040	.00212	-.00076	-.00015	.01027
#3	.00365	-.00552	.00148	.00187	-.00093	-.00015	.01683
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.00400						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00009**	**-.00007**	**-.00029**	**-.00108**	**.03681**	**-.00266**
Stddev	.00006	.00002	.00071	.00051	.00280	.05703	.00334
%RSD	108.95	18.113	1049.1	178.11	258.80	154.93	125.54
#1	-.00007	-.00008	-.00089	-.00054	.00052	.06245	-.00472
#2	.00001	-.00011	.00038	-.00062	.00055	-.02854	.00119
#3	-.00011	-.00009	.00030	.00030	-.00431	.07653	-.00446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01921**	**.00032**	**.00051**	**.00983**	**-.00054**	F **-1.6004**	**-.00176**
Stddev	.00078	.00090	.00029	.01363	.00046	2.3632	.00192
%RSD	4.0505	280.24	56.102	138.58	86.484	147.66	109.08
#1	-.01831	.00085	.00060	.02124	-.00001	-3.5145	-.00243
#2	-.01972	.00083	.00075	.01351	-.00073	-2.3277	-.00325
#3	-.01960	-.00072	.00019	-.00526	-.00087	1.0409	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 20:05:13 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2.4896**	**-.16971**	F **14.619**	**.00380**	**-.00124**	**-.04758**	**.00038**
Stddev	6.2244	.04376	4.140	.00053	.00443	.12982	.00026
%RSD	250.01	25.787	28.321	13.856	356.35	272.83	67.213
#1	-.35946	-.20842	11.789	.00402	.00177	-.16507	.00033
#2	-1.8003	-.12222	12.696	.00419	.00082	-.06947	.00015
#3	9.6287	-.17847	19.370	.00320	-.00632	.09179	.00066
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00079**	**.00017**	**-.00036**	**-.00010**	F **-.43661**
Stddev	.00016	.00061	.00096	.00011	.00011	.29857
%RSD	450.74	76.480	571.74	30.624	104.21	68.385
#1	.00022	-.00010	-.00087	-.00035	.00001	-.74267
#2	-.00007	-.00109	.00102	-.00026	-.00021	-.42102
#3	-.00005	-.00120	.00035	-.00047	-.00010	-.14613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92944.**	**49886.**
Stddev	254.	339.
%RSD	.27372	.68034
#1	93111.	49670.
#2	93069.	49711.
#3	92651.	50277.

Approved: March 01, 2011

Sample Name: PBS 79 Acquired: 2/25/2011 20:09:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357505-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00496**	**.00548**	**-.00122**	**.00355**	**-.00042**	**-.00015**	**.14622**
Stddev	.00062	.00249	.00054	.00077	.00037	.00002	.00825
%RSD	12.497	45.417	44.658	21.536	88.596	16.125	5.6410
#1	.00566	.00775	-.00127	.00444	-.00070	-.00013	.14177
#2	.00475	.00282	-.00065	.00315	-.00056	-.00015	.15573
#3	.00448	.00586	-.00173	.00308	.00000	-.00018	.14114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00034**	**.00144**	**.00059**	**.03204**	**.11725**	**-.00503**
Stddev	.00009	.00016	.00037	.00026	.00349	.08172	.00131
%RSD	52.830	46.640	25.741	44.132	10.904	69.701	25.958
#1	.00015	-.00051	.00101	.00064	.03604	.11298	-.00360
#2	.00011	-.00034	.00169	.00082	.02960	.03774	-.00616
#3	.00029	-.00019	.00161	.00031	.03047	.20102	-.00533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05573**	**.00103**	**.00043**	**.11915**	**.00060**	F **-25.354**	**-.00140**
Stddev	.02165	.00044	.00010	.00877	.00023	22.070	.00163
%RSD	38.851	42.373	22.486	7.3579	38.558	87.050	116.52
#1	.03251	.00113	.00032	.12697	.00044	-12.864	-.00287
#2	.07537	.00055	.00050	.10968	.00050	-12.361	-.00168
#3	.05932	.00141	.00047	.12082	.00087	-50.837	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: PBS 79 Acquired: 2/25/2011 20:09:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357505-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.48129**	**1.2647**	F **-85.564**	**.00283**	**-.00084**	**2.7843**	**.00067**
Stddev	3.2448	.0471	5.155	.00118	.00165	.2249	.00015
%RSD	674.18	3.7228	6.0242	41.660	196.37	8.0780	22.714
#1	2.8063	1.2665	-88.890	.00416	-.00205	2.5722	.00081
#2	-.56871	1.2167	-79.626	.00244	.00103	2.7606	.00070
#3	-3.6815	1.3108	-88.176	.00190	-.00150	3.0202	.00051
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**.00075**	**-.00155**	**-.00048**	**.00223**	**.33710**
Stddev	.00003	.00170	.00094	.00031	.00006	.06198
%RSD	3.8550	225.47	60.616	63.536	2.6537	18.387
#1	.00062	-.00117	-.00100	-.00067	.00228	.29626
#2	.00066	.00137	-.00263	-.00013	.00217	.40842
#3	.00067	.00205	-.00101	-.00065	.00225	.30662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91612.**	**48673.**
Stddev	312.	194.
%RSD	.34093	.39890
#1	91260.	48734.
#2	91716.	48829.
#3	91858.	48455.

Approved: March 01, 2011

Sample Name: LCSS 79 Acquired: 2/25/2011 20:12:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357505-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22460**	**.00066**	**.19292**	**.00277**	**-.00049**	**-.00011**	**.16992**
Stddev	.00252	.00580	.00080	.00112	.00011	.00001	.01560
%RSD	1.1216	877.31	.41357	40.411	21.333	7.3927	9.1824
#1	.22729	.00659	.19350	.00164	-.00061	-.00012	.15205
#2	.22422	-.00500	.19325	.00280	-.00046	-.00011	.18083
#3	.22229	.00039	.19201	.00388	-.00041	-.00011	.17687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02752**	**-.00036**	**.00188**	**.24933**	**.01908**	**.07389**	**-.00591**
Stddev	.00015	.00006	.00023	.00013	.00342	.03074	.00225
%RSD	.53247	16.222	12.029	.05123	17.942	41.598	37.985
#1	.02754	-.00041	.00164	.24947	.01597	.09250	-.00492
#2	.02766	-.00037	.00209	.24931	.02275	.03841	-.00848
#3	.02737	-.00030	.00190	.24921	.01852	.09075	-.00434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10038**	**.22682**	**.00035**	**.07083**	**.00087**	F **-43.031**	**.26817**
Stddev	.02814	.00066	.00018	.01139	.00031	14.788	.00240
%RSD	28.031	.29017	52.664	16.080	35.287	34.366	.89546
#1	.07581	.22637	.00045	.08294	.00116	-60.099	.26554
#2	.13108	.22758	.00014	.06922	.00055	-34.056	.27025
#3	.09426	.22652	.00046	.06033	.00089	-34.936	.26870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: LCSS 79 Acquired: 2/25/2011 20:12:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357505-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.7587**	**.76932**	F **-38.987**	**.00339**	**-.00218**	**1.9498**	**.00037**
Stddev	8.2774	.01851	1.879	.00266	.00080	.0278	.00016
%RSD	220.22	2.4064	4.8198	78.692	36.647	1.4243	43.915
#1	-2.8730	.75047	-36.950	.00327	-.00126	1.9418	.00056
#2	13.035	.78747	-39.360	.00610	-.00261	1.9807	.00028
#3	1.1138	.77001	-40.652	.00078	-.00268	1.9268	.00028
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000				
Low Limit			-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**-.00077**	**-.00042**	**-.00036**	**.00183**	**.26224**
Stddev	.00006	.00064	.00092	.00017	.00008	.09126
%RSD	9.2769	84.079	220.06	46.546	4.4160	34.802
#1	.00061	-.00071	-.00006	-.00053	.00188	.36339
#2	.00074	-.00015	.00027	-.00019	.00174	.18606
#3	.00069	-.00143	-.00147	-.00035	.00187	.23726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91564.**	**49652.**
Stddev	566.	345.
%RSD	.61771	.69527
#1	91783.	49253.
#2	90922.	49862.
#3	91987.	49840.

Approved: March 01, 2011

Sample Name: L1102042528 Acquired: 2/25/2011 20:16:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03844**	**246.43**	**.20739**	**.23796**	**2.6437**	F **-.00452**	F **1061.6**
Stddev	.00087	2.64	.00230	.00064	.0086	.00010	8.6
%RSD	2.2629	1.0706	1.1077	.26767	.32463	2.2576	.81124
#1	.03935	248.74	.20876	.23867	2.6343	-.00463	1071.2
#2	.03762	246.99	.20867	.23778	2.6457	-.00443	1054.7
#3	.03833	243.56	.20474	.23744	2.6512	-.00450	1058.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						4.5000	900.00
Low Limit						-.00050	-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02840**	**.12549**	**.33177**	**6.4482**	**267.33**	**54.422**	**.31762**
Stddev	.00012	.00007	.00135	.0144	.77	.213	.00107
%RSD	.41512	.05589	.40631	.22348	.28841	.39165	.33721
#1	.02839	.12555	.33207	6.4635	266.66	54.190	.31640
#2	.02853	.12551	.33029	6.4461	267.15	54.468	.31842
#3	.02830	.12542	.33294	6.4349	268.17	54.609	.31803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**146.37**	**3.8298**	**.01973**	**2.7371**	**.25861**	F **61964.**	**1.0057**
Stddev	.27	.0183	.00020	.0182	.00055	66.	.0015
%RSD	.18358	.47737	1.0075	.66676	.21340	.10617	.15114
#1	146.40	3.8221	.01958	2.7257	.25849	61963.	1.0039
#2	146.09	3.8167	.01996	2.7274	.25922	61899.	1.0064
#3	146.63	3.8507	.01967	2.7581	.25813	62031.	1.0067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042528 Acquired: 2/25/2011 20:16:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **33.486**	F **1269.9**	F **-13203.**	**.02259**	**.00193**	F **185.15**	**.03961**
Stddev	9.850	1.3	38.	.00068	.00326	2.40	.00049
%RSD	29.416	.10033	.29125	3.0266	168.53	1.2987	1.2283
#1	35.619	1271.1	-13226.	.02184	.00028	185.71	.03915
#2	22.744	1270.0	-13223.	.02273	.00569	187.23	.04012
#3	42.096	1268.6	-13158.	.02318	-.00017	182.52	.03958
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.3712**	**5.2362**	**.01949**	**.47515**	**1.6354**	F **207.29**
Stddev	.0157	.0147	.00238	.00167	.0052	1.33
%RSD	.66149	.28176	12.204	.35245	.31799	.64146
#1	2.3534	5.2238	.02213	.47609	1.6405	208.69
#2	2.3775	5.2323	.01751	.47322	1.6357	206.04
#3	2.3828	5.2525	.01884	.47614	1.6301	207.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83806.**	**49212.**
Stddev	200.	237.
%RSD	.23849	.48098
#1	83626.	48953.
#2	83771.	49417.
#3	84021.	49268.

Approved: March 01, 2011

Sample Name: L1102042528PS Acquired: 2/25/2011 20:20:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357601-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25241**	**231.27**	**.38285**	**1.1754**	**2.8915**	**.02380**	F **1006.0**
Stddev	.00165	1.39	.00132	.0048	.0033	.00003	3.6
%RSD	.65503	.60000	.34474	.40835	.11373	.14315	.35624
#1	.25097	229.67	.38339	1.1699	2.8887	.02376	1009.9
#2	.25205	232.06	.38135	1.1787	2.8907	.02381	1005.3
#3	.25421	232.09	.38382	1.1777	2.8951	.02382	1002.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05349**	**.20968**	**.55385**	**6.0053**	**243.76**	**76.189**	**.82828**
Stddev	.00012	.00040	.00179	.0188	.38	.180	.00270
%RSD	.21577	.19082	.32259	.31314	.15508	.23662	.32545
#1	.05348	.21011	.55201	6.0249	243.50	75.996	.82746
#2	.05361	.20959	.55395	6.0035	243.58	76.218	.82609
#3	.05338	.20933	.55558	5.9874	244.20	76.353	.83129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**136.86**	**3.6855**	**.50083**	**29.349**	**.46646**	F **55964.**	**1.1411**
Stddev	.58	.0084	.00147	.077	.00191	81.	.0042
%RSD	.42596	.22885	.29439	.26133	.40842	.14560	.36530
#1	136.30	3.6787	.50232	29.264	.46864	56027.	1.1459
#2	136.80	3.6827	.50081	29.368	.46566	55993.	1.1383
#3	137.46	3.6949	.49937	29.414	.46509	55872.	1.1390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042528PS Acquired: 2/25/2011 20:20:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357601-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **25.212**	F **1148.8**	F **-11713.**	**.61000**	**.20010**	F **486.86**	**.03758**
Stddev	9.100	2.5	65.	.00481	.00538	2.48	.00043
%RSD	36.093	.21920	.55829	.78800	2.6874	.50892	1.1436
#1	17.356	1151.8	-11787.	.61527	.20407	489.09	.03807
#2	35.183	1147.5	-11687.	.60886	.20224	487.30	.03737
#3	23.098	1147.3	-11664.	.60586	.19398	484.19	.03729
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.6059**	**5.1914**	**.25129**	**.92078**	**1.8847**	F **192.53**
Stddev	.0030	.0145	.00105	.00252	.0075	.41
%RSD	.11387	.27917	.41976	.27333	.39699	.21142
#1	2.6025	5.1854	.25177	.91879	1.8933	192.15
#2	2.6073	5.1808	.25202	.92361	1.8816	192.96
#3	2.6079	5.2079	.25008	.91994	1.8793	192.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83559.**	**48559.**
Stddev	82.	270.
%RSD	.09780	.55631
#1	83475.	48864.
#2	83638.	48465.
#3	83566.	48348.

Approved: March 01, 2011

Sample Name: L1102042528SDL Acquired: 2/25/2011 20:24:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357601-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01203**	**63.445**	**.04383**	**.05347**	**.52657**	F **-.00115**	**244.65**
Stddev	.00053	.427	.00308	.00096	.00082	.00005	.19
%RSD	4.3794	.67339	7.0322	1.8020	.15652	3.9670	.07900
#1	.01255	62.953	.04518	.05400	.52568	-.00116	244.46
#2	.01150	63.730	.04600	.05405	.52672	-.00110	244.84
#3	.01205	63.650	.04030	.05235	.52731	-.00119	244.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						4.5000	
Low Limit						-.00050	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00580**	**.02688**	**.07551**	**1.3518**	**55.607**	**10.997**	**.05868**
Stddev	.00009	.00019	.00055	.0020	.039	.025	.00231
%RSD	1.6219	.69541	.73372	.14769	.07036	.22445	3.9353
#1	.00591	.02669	.07514	1.3506	55.652	11.003	.05706
#2	.00573	.02689	.07614	1.3507	55.590	11.018	.06133
#3	.00576	.02706	.07523	1.3541	55.579	10.969	.05766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**31.078**	**.81206**	**.00390**	**.56995**	**.05429**	F **12947.**	**.21747**
Stddev	.051	.00292	.00046	.00303	.00111	14.	.00028
%RSD	.16282	.35938	11.686	.53159	2.0443	.10695	.13003
#1	31.126	.81513	.00369	.56755	.05485	12951.	.21775
#2	31.081	.81174	.00442	.57336	.05301	12931.	.21747
#3	31.025	.80932	.00359	.56895	.05501	12958.	.21719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042528SDL Acquired: 2/25/2011 20:24:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG357601-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-2.7426**	F **275.35**	F **-2648.2**	**.00501**	**.00103**	**36.632**	**.00812**
Stddev	5.6308	.60	15.5	.00210	.00370	.356	.00024
%RSD	205.31	.21705	.58479	41.881	360.16	.97198	2.9510
#1	-3.7567	274.85	-2639.7	.00421	.00398	36.232	.00797
#2	3.3264	275.19	-2638.9	.00739	.00224	36.913	.00800
#3	-7.7975	276.01	-2666.1	.00343	-.00313	36.753	.00840
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47181**	**1.0576**	**.00603**	**.10498**	**.34768**	**42.582**
Stddev	.00079	.0027	.00093	.00070	.00087	.460
%RSD	.16822	.25786	15.442	.66735	.24880	1.0797
#1	.47169	1.0558	.00627	.10453	.34685	42.060
#2	.47109	1.0562	.00683	.10579	.34760	42.763
#3	.47266	1.0608	.00501	.10463	.34858	42.924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92037.**	**48571.**
Stddev	915.	242.
%RSD	.99366	.49758
#1	91031.	48825.
#2	92261.	48344.
#3	92818.	48543.

Approved: March 01, 2011

Sample Name: L1102042528SDL Acquired: 2/25/2011 20:27:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357601-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00598**	**13.735**	**.01130**	**.01202**	**.10359**	**-.00041**	**48.285**
Stddev	.00063	.107	.00087	.00062	.00039	.00001	.152
%RSD	10.594	.77860	7.7123	5.1580	.37174	2.4559	.31578
#1	.00557	13.672	.01032	.01174	.10391	-.00040	48.293
#2	.00566	13.674	.01200	.01273	.10317	-.00041	48.129
#3	.00671	13.858	.01157	.01158	.10370	-.00042	48.433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**.00570**	**.01568**	**.27417**	**11.117**	**2.1915**	**.00652**
Stddev	.00014	.00022	.00042	.00077	.028	.0401	.00120
%RSD	11.486	3.7704	2.6685	.28105	.24809	1.8319	18.471
#1	.00121	.00546	.01604	.27330	11.091	2.2055	.00518
#2	.00137	.00585	.01578	.27445	11.116	2.2228	.00752
#3	.00109	.00581	.01522	.27476	11.146	2.1462	.00686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.2827**	**.16169**	**.00050**	**.10958**	**.01003**	F **2620.1**	**.04276**
Stddev	.0368	.00060	.00033	.00838	.00030	23.9	.00068
%RSD	.58559	.37069	66.671	7.6450	3.0158	.91327	1.5875
#1	6.2740	.16103	.00085	.11925	.01036	2601.9	.04210
#2	6.3231	.16185	.00044	.10512	.00978	2611.2	.04274
#3	6.2511	.16219	.00020	.10439	.00995	2647.2	.04345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042528SDL Acquired: 2/25/2011 20:27:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG357601-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-2.9041**	F **58.247**	F **-519.37**	**.00234**	**-.00402**	**6.5479**	**.00127**
Stddev	4.3948	.114	2.39	.00018	.00221	.4131	.00021
%RSD	151.33	.19521	.45998	7.7303	54.990	6.3092	16.775
#1	1.2550	58.366	-521.90	.00230	-.00187	6.9478	.00142
#2	-2.4657	58.235	-517.15	.00219	-.00629	6.5732	.00135
#3	-7.5017	58.140	-519.08	.00254	-.00390	6.1227	.00102
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09296**	**.20606**	**.00215**	**.02079**	**.07118**	**6.0256**
Stddev	.00033	.00060	.00100	.00075	.00001	.1040
%RSD	.35102	.28904	46.276	3.6225	.01548	1.7262
#1	.09265	.20581	.00226	.02059	.07119	6.1357
#2	.09294	.20563	.00111	.02017	.07119	6.0120
#3	.09330	.20674	.00309	.02163	.07117	5.9290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**94987.**	**49413.**
Stddev	72.	306.
%RSD	.07555	.61936
#1	95068.	49667.
#2	94931.	49499.
#3	94962.	49073.

Approved: March 01, 2011

Sample Name: L1102042529 Acquired: 2/25/2011 20:31:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02328**	**226.23**	**.09453**	**.18748**	**2.4054**	**.00215**	F **1118.3**
Stddev	.00037	4.36	.00257	.00085	.0032	.00004	35.1
%RSD	1.5781	1.9267	2.7201	.45294	.13302	1.6757	3.1391
#1	.02311	221.31	.09215	.18799	2.4069	.00211	1099.2
#2	.02302	227.80	.09419	.18650	2.4075	.00215	1096.9
#3	.02370	229.59	.09726	.18795	2.4017	.00218	1158.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00485**	**.09926**	**.29606**	**.79836**	**243.29**	**45.764**	**.26800**
Stddev	.00004	.00042	.00384	.00122	.44	.184	.00063
%RSD	.90770	.42191	1.2982	.15264	.18239	.40161	.23457
#1	.00490	.09975	.29233	.79973	242.82	45.557	.26868
#2	.00484	.09902	.29584	.79797	243.70	45.909	.26744
#3	.00482	.09903	.30001	.79739	243.36	45.826	.26788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**117.54**	**2.8450**	**.00455**	**2.3505**	**.21476**	F **32955.**	**.18006**
Stddev	.70	.0113	.00020	.0170	.00084	53.	.00491
%RSD	.59334	.39876	4.3105	.72135	.39013	.16186	2.7292
#1	116.76	2.8451	.00448	2.3311	.21547	32996.	.18573
#2	117.75	2.8563	.00477	2.3625	.21497	32895.	.17751
#3	118.11	2.8336	.00440	2.3579	.21384	32975.	.17695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042529 Acquired: 2/25/2011 20:31:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **27.546**	F **1211.9**	F **-5440.8**	**.01327**	**.00174**	F **162.03**	**.03358**
Stddev	5.751	1.1	11.2	.00275	.00149	.52	.00016
%RSD	20.877	.09134	.20502	20.709	85.398	.32185	.47112
#1	21.004	1213.1	-5451.4	.01163	.00110	162.07	.03352
#2	31.803	1211.7	-5441.9	.01644	.00344	162.54	.03376
#3	29.832	1211.0	-5429.2	.01173	.00068	161.50	.03346
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8409**	**3.1277**	**.01372**	**.40098**	**.64117**	F **204.62**
Stddev	.0054	.0085	.00149	.00442	.00133	3.02
%RSD	.29526	.27261	10.854	1.1013	.20701	1.4745
#1	1.8429	3.1310	.01200	.39609	.64248	201.15
#2	1.8450	3.1341	.01452	.40216	.64122	206.17
#3	1.8347	3.1180	.01464	.40469	.63982	206.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83658.**	**48377.**
Stddev	91.	625.
%RSD	.10913	1.2925
#1	83553.	49081.
#2	83716.	48162.
#3	83706.	47887.

Approved: March 01, 2011

Sample Name: L1102042530 Acquired: 2/25/2011 20:35:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02943**	**252.33**	**.13760**	**.20764**	**2.1219**	F **-.00184**	**644.03**
Stddev	.00131	4.56	.00312	.00269	.0019	.00003	.82
%RSD	4.4536	1.8059	2.2710	1.2953	.09055	1.8302	.12690
#1	.03068	247.08	.13819	.20583	2.1210	-.00186	643.21
#2	.02956	255.14	.14039	.20636	2.1207	-.00180	644.84
#3	.02806	254.79	.13423	.21073	2.1241	-.00186	644.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						4.5000	
Low Limit						-.00050	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00452**	**.10391**	**.31892**	**.64313**	**261.67**	**58.600**	**.25755**
Stddev	.00005	.00018	.00045	.00076	.32	.164	.00173
%RSD	1.0802	.17552	.14242	.11756	.12194	.27957	.67119
#1	.00453	.10370	.31907	.64227	261.34	58.415	.25885
#2	.00446	.10399	.31928	.64370	261.71	58.726	.25559
#3	.00456	.10403	.31841	.64342	261.97	58.661	.25821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**117.72**	**3.3947**	**.00427**	**1.5515**	**.22331**	F **30621.**	**.15053**
Stddev	.20	.0181	.00027	.0073	.00078	6.	.00168
%RSD	.17269	.53278	6.3176	.47055	.34911	.02104	1.1190
#1	117.50	3.3759	.00405	1.5443	.22407	30621.	.15108
#2	117.90	3.4120	.00419	1.5514	.22335	30628.	.14864
#3	117.76	3.3962	.00457	1.5589	.22251	30615.	.15187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042530 Acquired: 2/25/2011 20:35:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.009**	F **659.47**	F **-4070.0**	**.01102**	**.00285**	F **156.00**	**.01436**
Stddev	8.277	1.63	10.2	.00174	.00279	1.16	.00029
%RSD	35.971	.24784	.25163	15.830	98.079	.74553	2.0432
#1	21.673	657.61	-4073.9	.01156	.00495	156.86	.01412
#2	31.872	660.15	-4077.8	.00907	-.00032	156.46	.01469
#3	15.481	660.65	-4058.4	.01243	.00392	154.68	.01428
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2148**	**4.3254**	**.01650**	**.42475**	**.57150**	F **252.43**
Stddev	.0018	.0085	.00035	.00061	.00054	1.01
%RSD	.14622	.19595	2.1223	.14317	.09420	.39925
#1	1.2130	4.3157	.01672	.42495	.57092	253.42
#2	1.2148	4.3290	.01609	.42524	.57199	252.48
#3	1.2165	4.3315	.01668	.42407	.57159	251.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84478.**	**48213.**
Stddev	393.	154.
%RSD	.46506	.31927
#1	84900.	48373.
#2	84411.	48066.
#3	84123.	48199.

Approved: March 01, 2011

Sample Name: L1102042531 Acquired: 2/25/2011 20:39:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03125**	**179.25**	**.13174**	**.25581**	**2.3088**	F **-.00404**	F **936.78**
Stddev	.00015	.53	.00084	.00247	.0034	.00004	16.67
%RSD	.47595	.29799	.63479	.96424	.14765	.98887	1.7793
#1	.03141	179.42	.13119	.25716	2.3121	-.00400	920.05
#2	.03111	178.65	.13133	.25297	2.3053	-.00403	936.92
#3	.03123	179.67	.13270	.25732	2.3091	-.00408	953.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						4.5000	900.00
Low Limit						-.00050	-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01991**	**.10401**	**.28956**	**3.9246**	**244.68**	**49.707**	**.27953**
Stddev	.00011	.00060	.00293	.0189	.29	.105	.00279
%RSD	.53171	.57924	1.0124	.48195	.12002	.21102	.99872
#1	.02002	.10455	.28788	3.9406	244.81	49.662	.28262
#2	.01982	.10412	.28786	3.9295	244.34	49.633	.27720
#3	.01988	.10336	.29295	3.9037	244.88	49.827	.27876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**130.04**	**3.4857**	**.03669**	**2.5751**	**.22683**	F **88914.**	**.95442**
Stddev	.25	.0027	.00016	.0063	.00196	519.	.00502
%RSD	.19433	.07754	.44623	.24314	.86386	.58397	.52575
#1	129.99	3.4847	.03682	2.5823	.22758	89354.	.95776
#2	129.82	3.4836	.03650	2.5707	.22830	89047.	.95686
#3	130.32	3.4887	.03675	2.5724	.22460	88341.	.94865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042531 Acquired: 2/25/2011 20:39:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **13.801**	F **1185.6**	F **-19615.**	**.01425**	**.00705**	F **207.41**	**.03443**
Stddev	2.797	7.5	25.	.00113	.00230	2.93	.00034
%RSD	20.264	.63020	.12504	7.9156	32.620	1.4148	.98695
#1	14.887	1191.8	-19638.	.01421	.00965	209.63	.03475
#2	15.891	1187.7	-19589.	.01315	.00530	208.51	.03448
#3	10.624	1177.3	-19616.	.01540	.00619	204.08	.03407
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1677**	**4.0259**	**.01569**	**.45105**	**2.1984**	F **145.08**
Stddev	.0046	.0042	.00097	.00499	.0117	1.99
%RSD	.21061	.10540	6.1715	1.1072	.53248	1.3715
#1	2.1730	4.0213	.01577	.44869	2.2075	143.42
#2	2.1657	4.0266	.01661	.44767	2.2024	144.54
#3	2.1646	4.0297	.01468	.45678	2.1852	147.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84322.**	**48204.**
Stddev	438.	291.
%RSD	.51896	.60424
#1	84066.	48201.
#2	84073.	48497.
#3	84828.	47914.

Approved: March 01, 2011

Sample Name: L1102042532 Acquired: 2/25/2011 20:42:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02424**	**226.43**	**.17247**	**.19942**	**3.5942**	**.00257**	F **1376.2**
Stddev	.00122	3.40	.00304	.00138	.0045	.00005	27.1
%RSD	5.0268	1.5008	1.7611	.69432	.12554	1.9058	1.9658
#1	.02297	228.61	.17532	.20096	3.5944	.00254	1406.7
#2	.02436	222.51	.17281	.19826	3.5896	.00254	1354.9
#3	.02540	228.15	.16927	.19905	3.5986	.00263	1367.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00773**	**.11698**	**.32359**	**2.0914**	**274.71**	**42.339**	**.30938**
Stddev	.00012	.00137	.00146	.0251	.60	.089	.00378
%RSD	1.5405	1.1718	.45186	1.2011	.21703	.20975	1.2218
#1	.00778	.11822	.32505	2.1134	275.09	42.383	.31362
#2	.00782	.11721	.32212	2.0967	274.02	42.237	.30636
#3	.00760	.11551	.32361	2.0640	275.01	42.398	.30816
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**137.11**	**4.0574**	**.00832**	**2.2559**	**.23737**	F **43223.**	**.29932**
Stddev	.31	.0107	.00026	.0058	.00255	330.	.00476
%RSD	.22943	.26260	3.1656	.25875	1.0733	.76252	1.5893
#1	136.85	4.0624	.00844	2.2610	.23982	43517.	.29940
#2	137.02	4.0451	.00850	2.2573	.23755	43284.	.30404
#3	137.46	4.0646	.00801	2.2496	.23473	42867.	.29453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042532 Acquired: 2/25/2011 20:42:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **22.463**	F **1587.0**	F **-9008.2**	**.01572**	**.00384**	F **196.85**	**.02062**
Stddev	6.566	15.6	77.7	.00196	.00660	3.40	.00048
%RSD	29.230	.98261	.86274	12.442	171.89	1.7263	2.3235
#1	23.956	1598.4	-9079.4	.01797	.00796	198.44	.02047
#2	28.153	1593.4	-9019.8	.01449	.00734	199.16	.02022
#3	15.279	1569.2	-8925.3	.01468	-.00377	192.94	.02115
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.9263**	**3.2927**	**.01770**	**.53095**	**.73291**	F **222.65**
Stddev	.0114	.0049	.00098	.00420	.00904	2.60
%RSD	.29131	.14899	5.5421	.79101	1.2329	1.1672
#1	3.9371	3.2959	.01725	.53471	.74073	224.86
#2	3.9143	3.2870	.01883	.52642	.73499	219.79
#3	3.9275	3.2950	.01703	.53172	.72302	223.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**82686.**	**48739.**
Stddev	220.	378.
%RSD	.26594	.77579
#1	82714.	48378.
#2	82454.	49133.
#3	82891.	48706.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 20:46:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .47760	F 13.329	.40373	F .56281	1.0204	F .06055	10.367
Stddev	.00344	.105	.00190	.00218	.0005	.00035	.043
%RSD	.72023	.78769	.47118	.38663	.05187	.57083	.41592
#1	.47420	13.209	.40591	.56074	1.0203	.06045	10.410
#2	.47751	13.378	.40287	.56261	1.0200	.06027	10.324
#3	.48108	13.401	.40241	.56508	1.0210	.06094	10.367
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	.40000	10.000		.50000		.05000	
Range	10.000%	10.000%		10.000%		10.000%	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .05646	.21281	F .59536	.49092	3.9090	54.582	1.0537
Stddev	.00017	.00042	.00330	.00033	.0085	.167	.0002
%RSD	.30028	.19891	.55373	.06702	.21726	.30679	.01474
#1	.05629	.21255	.59417	.49056	3.9116	54.473	1.0537
#2	.05646	.21330	.59282	.49120	3.8995	54.497	1.0538
#3	.05663	.21257	.59909	.49099	3.9159	54.775	1.0535
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.05000		.50000				
Range	10.000%		10.000%				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.552	F .42838	.96985	52.300	.51551	F -13.801	.52633
Stddev	.071	.00435	.00069	.096	.00137	1.042	.00250
%RSD	.67123	1.0159	.07082	.18305	.26508	7.5467	.47464
#1	10.505	.42593	.96906	52.299	.51480	-13.176	.52461
#2	10.518	.42580	.97030	52.205	.51709	-15.003	.52920
#3	10.633	.43340	.97019	52.396	.51465	-13.223	.52519
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 20:46:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-6.5797**	**10.252**	F **31.807**	**1.2292**	**.39740**	F **3.8062**	**1.0458**
Stddev	16.619	.041	6.168	.0019	.00165	.1025	.0027
%RSD	252.59	.39505	19.392	.15463	.41505	2.6924	.25392
#1	-25.601	10.290	31.318	1.2272	.39896	3.7605	1.0479
#2	.7281	10.258	25.898	1.2309	.39567	3.9236	1.0465
#3	5.1337	10.209	38.205	1.2297	.39756	3.7346	1.0428
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.93344**	**.93631**	F **.55386**	**1.0896**	**.91093**	F **2.7313**
Stddev	.00133	.00182	.00171	.0068	.00221	.3772
%RSD	.14202	.19392	.30948	.62141	.24288	13.809
#1	.93453	.93482	.55222	1.0866	.91239	2.3949
#2	.93197	.93579	.55371	1.0848	.91201	2.6600
#3	.93384	.93834	.55564	1.0973	.90839	3.1390
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value			.50000			1.0000
Range			10.000%			10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93940.**	**48360.**
Stddev	310.	24.
%RSD	.32983	.05035
#1	93948.	48387.
#2	93627.	48350.
#3	94246.	48342.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 20:50:24 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00553**	**.01007**	**.00186**	**.00201**	**-.00065**	**-.00015**	**.01145**
Stddev	.00090	.00332	.00047	.00062	.00007	.00002	.00847
%RSD	16.355	32.963	25.315	30.635	10.712	12.495	73.968
#1	.00461	.00798	.00202	.00146	-.00069	-.00014	.00175
#2	.00641	.01390	.00224	.00191	-.00057	-.00017	.01526
#3	.00556	.00834	.00133	.00268	-.00069	-.00013	.01735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00003**	**.00040**	**-.00063**	**-.00519**	**.06768**	**-.00264**
Stddev	.00010	.00016	.00010	.00028	.00307	.03044	.00334
%RSD	192.17	487.23	23.966	43.940	59.101	44.974	126.50
#1	-.00010	.00004	.00050	-.00064	-.00840	.07145	.00122
#2	-.00011	-.00022	.00031	-.00090	-.00487	.09606	-.00449
#3	.00006	.00008	.00041	-.00035	-.00229	.03553	-.00464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00977**	**.00038**	**.00055**	**.02704**	**-.00051**	F **-19.214**	**-.00166**
Stddev	.02253	.00155	.00020	.00841	.00048	7.605	.00044
%RSD	230.67	410.91	36.369	31.090	95.339	39.582	26.672
#1	.01520	-.00131	.00072	.03189	-.00012	-25.875	-.00137
#2	-.01591	.00175	.00033	.01733	-.00105	-20.840	-.00145
#3	-.02858	.00069	.00060	.03189	-.00035	-10.927	-.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 20:50:24 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **3.9716**	F **-.14732**	F **19.955**	**.00256**	**.00019**	**-.05994**	**.00016**
Stddev	10.314	.01775	1.325	.00150	.00107	.04390	.00028
%RSD	259.70	12.047	6.6381	58.761	569.56	73.247	172.24
#1	13.061	-.16781	20.951	.00290	-.00011	-.07338	.00037
#2	-7.2381	-.13659	18.451	.00091	-.00070	-.01089	.00026
#3	6.0920	-.13757	20.461	.00386	.00137	-.09555	-.00015
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00089**	**.00007**	**-.00046**	**-.00004**	F **-.36284**
Stddev	.00004	.00044	.00088	.00023	.00010	.23859
%RSD	81.876	49.080	1239.9	49.298	285.16	65.756
#1	.00004	.00081	-.00072	-.00063	-.00015	-.25092
#2	.00009	.00136	-.00008	-.00054	.00004	-.63681
#3	.00002	.00050	.00102	-.00020	.00000	-.20078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**94717.**	**49610.**
Stddev	37.	135.
%RSD	.03913	.27175
#1	94760.	49743.
#2	94695.	49612.
#3	94697.	49474.

Approved: March 01, 2011

Sample Name: L1102042533 Acquired: 2/25/2011 20:54:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02407**	**240.32**	**.15793**	**.26572**	**4.2779**	**.00384**	F **1274.5**
Stddev	.00085	3.06	.00147	.00022	.0127	.00007	10.2
%RSD	3.5241	1.2748	.93301	.08446	.29756	1.8858	.80000
#1	.02503	237.83	.15633	.26547	4.2841	.00377	1274.3
#2	.02344	239.40	.15922	.26581	4.2632	.00384	1264.4
#3	.02372	243.74	.15825	.26589	4.2863	.00391	1284.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00662**	**.13729**	**.36382**	**2.2741**	**297.60**	**37.614**	**.46928**
Stddev	.00004	.00062	.00423	.0067	.42	.093	.00137
%RSD	.60298	.44872	1.1627	.29312	.14113	.24740	.29250
#1	.00660	.13784	.35942	2.2784	297.56	37.518	.46856
#2	.00661	.13742	.36421	2.2775	297.20	37.621	.46841
#3	.00667	.13662	.36785	2.2664	298.04	37.703	.47086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**185.74**	**3.4272**	**.01299**	**3.5288**	**.26246**	F **34184.**	**.29387**
Stddev	.69	.0077	.00003	.0085	.00074	101.	.00216
%RSD	.36914	.22405	.24404	.23974	.28363	.29624	.73626
#1	184.97	3.4272	.01299	3.5234	.26180	34285.	.29515
#2	185.94	3.4196	.01301	3.5245	.26327	34185.	.29510
#3	186.30	3.4349	.01295	3.5386	.26231	34082.	.29138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042533 Acquired: 2/25/2011 20:54:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.594**	F **1522.9**	F **-12910.**	**.01539**	**.00421**	F **200.01**	**.02091**
Stddev	10.987	3.8	44.	.00121	.00195	1.87	.00025
%RSD	46.569	.25010	.33769	7.8346	46.351	.93595	1.2155
#1	33.383	1525.1	-12936.	.01645	.00585	200.44	.02109
#2	25.688	1525.1	-12935.	.01408	.00474	201.63	.02101
#3	11.710	1518.5	-12860.	.01564	.00205	197.96	.02062
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.4044**	**3.3249**	**.01961**	**.61578**	**.60009**	F **188.14**
Stddev	.0326	.0045	.00170	.00701	.00231	1.46
%RSD	.73986	.13471	8.6944	1.1388	.38439	.77489
#1	4.4229	3.3239	.01785	.60777	.60106	186.55
#2	4.3668	3.3210	.02126	.61873	.60175	189.41
#3	4.4235	3.3298	.01972	.62084	.59745	188.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83628.**	**49431.**
Stddev	180.	246.
%RSD	.21571	.49671
#1	83431.	49681.
#2	83667.	49424.
#3	83786.	49190.

Approved: March 01, 2011

Sample Name: L1102042534 Acquired: 2/25/2011 20:58:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01647**	**198.35**	**.11487**	**.17768**	**2.2759**	**.00474**	F **1033.2**
Stddev	.00120	.55	.00105	.00208	.0067	.00003	10.1
%RSD	7.2716	.27603	.90995	1.1728	.29633	.53408	.97522
#1	.01776	198.16	.11497	.17812	2.2836	.00472	1025.5
#2	.01539	198.96	.11586	.17541	2.2731	.00474	1029.5
#3	.01628	197.92	.11378	.17950	2.2710	.00477	1044.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00450**	**.09400**	**.27916**	**.72292**	**234.43**	**41.187**	**.24530**
Stddev	.00006	.00018	.00146	.00200	.70	.105	.00025
%RSD	1.3558	.18755	.52385	.27704	.29821	.25512	.10376
#1	.00447	.09420	.27748	.72499	235.19	41.301	.24560
#2	.00457	.09388	.27984	.72276	233.82	41.093	.24516
#3	.00445	.09392	.28015	.72100	234.28	41.167	.24515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**115.19**	**2.7479**	**.00698**	**3.7154**	**.19984**	F **31247.**	**.16043**
Stddev	.15	.0175	.00010	.0069	.00073	28.	.00207
%RSD	.13121	.63547	1.3664	.18593	.36666	.08991	1.2895
#1	115.36	2.7671	.00701	3.7084	.20006	31273.	.16216
#2	115.07	2.7434	.00705	3.7222	.20044	31251.	.16100
#3	115.14	2.7331	.00687	3.7156	.19903	31217.	.15814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042534 Acquired: 2/25/2011 20:58:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.601**	F **1143.4**	F **-7062.4**	**.01374**	**.00674**	F **189.53**	**.02064**
Stddev	6.871	1.1	8.5	.00135	.00414	1.97	.00053
%RSD	29.113	.09651	.12000	9.7980	61.487	1.0387	2.5631
#1	16.988	1144.6	-7057.7	.01314	.00225	189.40	.02125
#2	30.703	1143.2	-7072.1	.01280	.00756	191.57	.02035
#3	23.110	1142.4	-7057.2	.01529	.01041	187.64	.02033
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1554**	**2.0712**	**.01297**	**.40395**	**.48784**	F **185.55**
Stddev	.0117	.0100	.00264	.00215	.00049	1.32
%RSD	.54453	.48374	20.316	.53185	.10100	.71360
#1	2.1690	2.0827	.01590	.40274	.48831	184.81
#2	2.1484	2.0644	.01079	.40267	.48788	184.77
#3	2.1490	2.0666	.01223	.40643	.48732	187.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84131.**	**49131.**
Stddev	192.	140.
%RSD	.22791	.28395
#1	83995.	49021.
#2	84350.	49288.
#3	84048.	49084.

Approved: March 01, 2011

Sample Name: L1102042535 Acquired: 2/25/2011 21:01:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03220**	**214.56**	**.15984**	**.21866**	**2.2006**	F **-.00136**	**744.03**
Stddev	.00085	.65	.00136	.00164	.0042	.00004	4.77
%RSD	2.6403	.30305	.85173	.75226	.19251	3.2981	.64154
#1	.03134	215.08	.15996	.21822	2.2041	-.00131	748.27
#2	.03221	214.77	.16113	.22048	2.2017	-.00137	738.86
#3	.03304	213.83	.15842	.21727	2.1959	-.00140	744.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						4.5000	
Low Limit						-.00050	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01954**	**.13171**	**.30137**	**11.602**	**260.97**	**54.273**	**.26998**
Stddev	.00019	.00026	.00139	.015	.52	.037	.00326
%RSD	.95389	.20023	.46066	.13135	.20094	.06736	1.2082
#1	.01944	.13183	.30130	11.615	261.14	54.247	.27024
#2	.01942	.13189	.30279	11.604	261.38	54.315	.26659
#3	.01975	.13140	.30001	11.585	260.38	54.257	.27310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**121.65**	**3.6429**	**.04354**	**1.9711**	**.23210**	F **123500.**	**1.0370**
Stddev	.11	.0093	.00022	.0058	.00117	71.	.0029
%RSD	.09237	.25555	.50986	.29262	.50436	.05739	.27515
#1	121.60	3.6513	.04364	1.9664	.23326	123570.	1.0350
#2	121.78	3.6329	.04370	1.9775	.23092	123430.	1.0403
#3	121.57	3.6445	.04329	1.9695	.23213	123500.	1.0358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042535 Acquired: 2/25/2011 21:01:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **22.443**	F **1012.3**	F **-22825.**	**.02299**	**.00535**	F **161.60**	**.04251**
Stddev	6.460	1.7	47.	.00100	.00186	2.68	.00041
%RSD	28.785	.16907	.20654	4.3616	34.813	1.6565	.95384
#1	26.989	1012.1	-22878.	.02184	.00446	163.53	.04213
#2	15.048	1014.1	-22811.	.02347	.00749	162.73	.04294
#3	25.292	1010.7	-22787.	.02365	.00410	158.54	.04245
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8981**	**3.7448**	**.01669**	**.42328**	**1.7883**	F **195.63**
Stddev	.0049	.0051	.00208	.00220	.0041	1.45
%RSD	.25947	.13610	12.431	.51917	.22815	.73981
#1	1.9037	3.7477	.01868	.42239	1.7908	194.20
#2	1.8963	3.7389	.01454	.42578	1.7904	197.10
#3	1.8944	3.7478	.01686	.42167	1.7836	195.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85099.**	**48549.**
Stddev	166.	258.
%RSD	.19468	.53040
#1	85166.	48408.
#2	84910.	48392.
#3	85220.	48846.

Approved: March 01, 2011

Sample Name: L1102042536 Acquired: 2/25/2011 21:05:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01046**	**195.03**	**.08411**	**.14498**	**2.0741**	**.00812**	**846.97**
Stddev	.00016	.24	.00095	.00086	.0027	.00011	5.40
%RSD	1.5270	.12402	1.1305	.59103	.12905	1.3958	.63736
#1	.01040	195.15	.08409	.14544	2.0737	.00814	843.84
#2	.01064	195.19	.08508	.14399	2.0770	.00822	853.20
#3	.01034	194.75	.08317	.14550	2.0717	.00800	843.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00446**	**.08775**	**.24511**	**.70050**	**198.32**	**43.490**	**.19969**
Stddev	.00003	.00018	.00257	.00055	.21	.057	.00248
%RSD	.58217	.20547	1.0499	.07875	.10450	.13172	1.2402
#1	.00445	.08764	.24465	.70113	198.47	43.551	.20140
#2	.00443	.08796	.24789	.70010	198.40	43.479	.20082
#3	.00448	.08766	.24280	.70028	198.08	43.438	.19685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**92.642**	**2.6344**	**.01309**	**3.2176**	**.17938**	F **27736.**	**.51281**
Stddev	.340	.0195	.00035	.0096	.00047	71.	.00334
%RSD	.36742	.73895	2.6605	.29883	.26069	.25508	.65063
#1	92.398	2.6568	.01270	3.2105	.17948	27726.	.51091
#2	93.030	2.6224	.01319	3.2285	.17886	27811.	.51666
#3	92.497	2.6239	.01337	3.2137	.17978	27670.	.51085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042536 Acquired: 2/25/2011 21:05:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.9714**	F **923.10**	F **-7427.2**	**.01308**	**.00144**	F **218.69**	**.02978**
Stddev	2.8837	.96	9.9	.00260	.00311	2.40	.00008
%RSD	32.144	.10436	.13380	19.883	216.00	1.0993	.26909
#1	7.9665	924.21	-7428.2	.01581	-.00019	220.72	.02986
#2	6.7246	922.55	-7416.7	.01064	-.00052	219.32	.02978
#3	12.223	922.54	-7436.5	.01280	.00503	216.04	.02970
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6190**	**1.0788**	**.00910**	**.30444**	**.73200**	F **163.49**
Stddev	.0018	.0056	.00073	.00220	.00120	1.44
%RSD	.11073	.51909	7.9910	.72375	.16369	.88003
#1	1.6208	1.0831	.00993	.30432	.73328	162.96
#2	1.6191	1.0808	.00869	.30670	.73184	165.12
#3	1.6172	1.0725	.00866	.30230	.73090	162.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85910.**	**47400.**
Stddev	150.	164.
%RSD	.17422	.34571
#1	85821.	47380.
#2	85826.	47248.
#3	86082.	47573.

Approved: March 01, 2011

Sample Name: L1102042537 Acquired: 2/25/2011 21:09:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01987**	**238.80**	**.13415**	**.20981**	**2.6770**	**.00474**	F **1085.5**
Stddev	.00034	1.41	.00045	.00168	.0060	.00005	3.4
%RSD	1.6956	.59215	.33353	.80244	.22499	1.1547	.31003
#1	.02021	238.51	.13364	.20794	2.6835	.00474	1089.3
#2	.01953	240.33	.13437	.21029	2.6756	.00469	1083.8
#3	.01988	237.55	.13445	.21120	2.6717	.00480	1083.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00681**	**.11204**	**.33337**	**2.2971**	**281.59**	**49.323**	**.27210**
Stddev	.00003	.00016	.00260	.0030	.79	.126	.00098
%RSD	.37350	.14367	.78094	.13077	.28168	.25444	.36122
#1	.00680	.11192	.33409	2.2963	282.26	49.420	.27172
#2	.00684	.11222	.33048	2.3004	281.81	49.182	.27321
#3	.00680	.11197	.33554	2.2945	280.71	49.368	.27136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**131.67**	**3.5168**	**.00936**	**1.8282**	**.23987**	F **38917.**	**.29629**
Stddev	.21	.0204	.00038	.0136	.00142	82.	.00207
%RSD	.15762	.58158	4.0273	.74385	.59145	.21049	.69895
#1	131.51	3.5384	.00948	1.8415	.23824	38906.	.29867
#2	131.58	3.5144	.00894	1.8143	.24077	39004.	.29528
#3	131.90	3.4977	.00967	1.8288	.24061	38841.	.29492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042537 Acquired: 2/25/2011 21:09:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.686**	F **1223.2**	F **-8622.9**	**.02036**	**.00383**	F **198.03**	**.02205**
Stddev	8.877	2.0	15.4	.00033	.00413	3.13	.00090
%RSD	60.445	.16159	.17894	1.6275	107.89	1.5830	4.0986
#1	17.187	1223.9	-8636.3	.02014	.00767	199.57	.02167
#2	4.8272	1224.7	-8626.4	.02020	-.00055	200.10	.02141
#3	22.045	1221.0	-8606.0	.02074	.00438	194.43	.02309
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.4066**	**2.6225**	**.01545**	**.47753**	**.64056**	F **195.72**
Stddev	.0124	.0132	.00073	.00415	.00053	1.43
%RSD	.51385	.50364	4.7407	.86932	.08285	.72886
#1	2.4156	2.6338	.01473	.47711	.63996	194.72
#2	2.4118	2.6258	.01543	.47360	.64096	195.09
#3	2.3925	2.6080	.01620	.48187	.64075	197.36
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84016.**	**48150.**
Stddev	177.	198.
%RSD	.21026	.41181
#1	84115.	48106.
#2	83812.	48367.
#3	84121.	47977.

Approved: March 01, 2011

Sample Name: L1102042538 Acquired: 2/25/2011 21:13:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00940**	**480.25**	**.12745**	**.26125**	**2.5002**	**.02443**	**258.11**
Stddev	.00048	6.85	.00261	.00234	.0027	.00016	.32
%RSD	5.1150	1.4266	2.0485	.89619	.10623	.65081	.12324
#1	.00934	482.46	.12544	.26108	2.4984	.02460	258.16
#2	.00991	485.72	.13040	.25900	2.4989	.02440	258.40
#3	.00895	472.57	.12650	.26367	2.5032	.02428	257.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00582**	**.15321**	**.50605**	**1.1620**	**404.66**	**120.73**	**.38431**
Stddev	.00013	.00019	.00042	.0005	.67	.15	.00152
%RSD	2.3107	.12094	.08391	.04271	.16677	.12563	.39613
#1	.00593	.15319	.50612	1.1614	404.19	120.61	.38524
#2	.00585	.15340	.50559	1.1624	404.37	120.90	.38514
#3	.00567	.15303	.50643	1.1622	405.44	120.68	.38256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**165.14**	**4.4676**	**.00600**	**3.2063**	**.36352**	F **24488.**	**.29366**
Stddev	.31	.0131	.00029	.0059	.00107	21.	.00205
%RSD	.19074	.29358	4.7826	.18315	.29523	.08430	.69757
#1	164.78	4.4821	.00575	3.2022	.36400	24507.	.29449
#2	165.35	4.4565	.00593	3.2037	.36427	24466.	.29133
#3	165.28	4.4643	.00631	3.2131	.36229	24491.	.29516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042538 Acquired: 2/25/2011 21:13:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **27.787**	F **281.70**	F **-3758.3**	**.01950**	**.00844**	F **176.17**	**.02201**
Stddev	3.910	.62	6.9	.00352	.00312	.90	.00051
%RSD	14.070	.22081	.18377	18.075	36.997	.51158	2.3103
#1	28.599	281.04	-3754.4	.01813	.00995	175.75	.02148
#2	31.228	281.77	-3754.4	.01686	.01052	177.20	.02250
#3	23.536	282.28	-3766.3	.02350	.00485	175.55	.02206
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0460**	**.99783**	**.01599**	**.48012**	**.84153**	F **355.19**
Stddev	.0032	.00216	.00048	.00282	.00303	2.10
%RSD	.30071	.21656	3.0197	.58699	.36036	.59183
#1	1.0470	.99600	.01655	.47931	.83947	357.18
#2	1.0425	1.0002	.01567	.48325	.84009	355.40
#3	1.0485	.99727	.01575	.47779	.84501	353.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88355.**	**49495.**
Stddev	63.	320.
%RSD	.07081	.64659
#1	88419.	49341.
#2	88351.	49282.
#3	88294.	49863.

Approved: March 01, 2011

Sample Name: L1102042539 Acquired: 2/25/2011 21:17:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01113**	**510.91**	**.17008**	**.29135**	**2.9481**	**.02379**	**692.82**
Stddev	.00038	.36	.00334	.00190	.0075	.00012	5.72
%RSD	3.4369	.07058	1.9646	.65045	.25587	.49063	.82571
#1	.01154	511.32	.17393	.28993	2.9518	.02368	695.91
#2	.01079	510.70	.16793	.29350	2.9394	.02379	686.22
#3	.01105	510.70	.16838	.29062	2.9530	.02391	696.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00622**	**.14745**	**.53483**	**.75586**	**422.41**	**115.64**	**.45193**
Stddev	.00007	.00015	.00284	.00190	1.10	.33	.00255
%RSD	1.0723	.10392	.53173	.25187	.26023	.28278	.56490
#1	.00616	.14748	.53210	.75367	422.78	115.50	.45218
#2	.00629	.14759	.53462	.75711	421.18	115.40	.44925
#3	.00623	.14729	.53777	.75680	423.28	116.01	.45434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**176.76**	**4.0879**	**.00628**	**5.4415**	**.36362**	F **30540.**	**.25993**
Stddev	.48	.0164	.00025	.0236	.00073	160.	.00042
%RSD	.27117	.40098	3.9856	.43407	.20062	.52271	.16002
#1	176.28	4.0962	.00638	5.4483	.36393	30719.	.26006
#2	176.74	4.0690	.00647	5.4152	.36415	30490.	.25947
#3	177.24	4.0984	.00600	5.4609	.36279	30411.	.26027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042539 Acquired: 2/25/2011 21:17:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **33.284**	F **744.98**	F **-5594.3**	**.02268**	**.00395**	F **210.00**	**.01996**
Stddev	2.392	.79	12.1	.00172	.00398	1.64	.00038
%RSD	7.1879	.10592	.21559	7.6026	100.63	.78046	1.9278
#1	30.522	745.69	-5580.4	.02377	.00523	209.99	.01954
#2	34.700	745.13	-5601.2	.02069	.00713	211.64	.02003
#3	34.630	744.13	-5601.3	.02357	-.00051	208.37	.02031
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.7644**	**1.0194**	**.02220**	**.65124**	**.82762**	F **351.79**
Stddev	.0083	.0033	.00092	.00480	.00108	3.53
%RSD	.46864	.32427	4.1486	.73741	.13097	1.0032
#1	1.7711	1.0210	.02254	.64696	.82679	348.37
#2	1.7552	1.0156	.02291	.65034	.82885	351.57
#3	1.7670	1.0217	.02116	.65643	.82723	355.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85678.**	**48680.**
Stddev	160.	63.
%RSD	.18622	.13006
#1	85621.	48727.
#2	85859.	48706.
#3	85555.	48608.

Approved: March 01, 2011

Sample Name: L1102042540 Acquired: 2/25/2011 21:20:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357505-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01913**	**292.70**	**.11472**	**.19442**	**3.5612**	**.00632**	**489.30**
Stddev	.00046	1.41	.00180	.00204	.0027	.00004	.55
%RSD	2.3951	.48296	1.5711	1.0495	.07480	.58890	.11186
#1	.01929	291.84	.11295	.19264	3.5591	.00632	489.24
#2	.01861	291.93	.11466	.19397	3.5603	.00627	488.79
#3	.01949	294.33	.11655	.19665	3.5642	.00635	489.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00617**	**.12062**	**.32345**	**1.9738**	**272.33**	**67.092**	**.24913**
Stddev	.00010	.00027	.00098	.0039	.54	.119	.00160
%RSD	1.6208	.22539	.30331	.19711	.19852	.17683	.64371
#1	.00620	.12033	.32256	1.9694	271.81	66.966	.24900
#2	.00626	.12067	.32330	1.9752	272.29	67.110	.24759
#3	.00606	.12087	.32450	1.9768	272.89	67.201	.25079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**117.95**	**4.5911**	**.00609**	**1.7505**	**.25223**	F **42395.**	**.23369**
Stddev	.27	.0201	.00021	.0064	.00126	51.	.00096
%RSD	.22927	.43835	3.4482	.36765	.49941	.11974	.40902
#1	117.72	4.5711	.00585	1.7471	.25362	42446.	.23259
#2	117.89	4.5909	.00626	1.7464	.25115	42396.	.23428
#3	118.25	4.6114	.00615	1.7579	.25193	42344.	.23421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042540 Acquired: 2/25/2011 21:20:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357505-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **27.068**	F **528.85**	F **-5886.6**	**.01321**	**.00154**	F **168.75**	**.01620**
Stddev	.079	.62	28.7	.00174	.00254	.27	.00028
%RSD	.29129	.11804	.48689	13.171	165.13	.16180	1.7046
#1	27.158	528.22	-5857.9	.01370	.00129	168.93	.01640
#2	27.035	528.87	-5886.6	.01464	.00419	168.44	.01588
#3	27.011	529.47	-5915.2	.01127	-.00087	168.89	.01631
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.7268**	**2.5355**	**.01387**	**.42646**	**.65703**	F **306.06**
Stddev	.0146	.0039	.00060	.00062	.00282	1.38
%RSD	.30859	.15422	4.3343	.14608	.42935	.45190
#1	4.7140	2.5382	.01404	.42591	.65378	305.74
#2	4.7237	2.5310	.01320	.42714	.65851	307.58
#3	4.7427	2.5372	.01436	.42632	.65881	304.87
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	4.5000					45.000
Low Limit	-.01000					-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87068.**	**49043.**
Stddev	82.	242.
%RSD	.09449	.49387
#1	86984.	49135.
#2	87149.	49226.
#3	87070.	48769.

Approved: March 01, 2011

Sample Name: L1102042541S Acquired: 2/25/2011 21:24:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357505-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22303**	**308.68**	**.29455**	**.20165**	**3.7957**	**.00534**	**527.32**
Stddev	.00178	.66	.00265	.00116	.0092	.00006	.05
%RSD	.79853	.21372	.89809	.57374	.24182	1.2039	.00956
#1	.22384	308.04	.29339	.20228	3.7853	.00539	527.36
#2	.22426	309.35	.29267	.20236	3.8027	.00536	527.34
#3	.22098	308.64	.29757	.20032	3.7991	.00527	527.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03245**	**.12755**	**.33374**	**2.0658**	**273.88**	**69.578**	**.25828**
Stddev	.00019	.00021	.00328	.0020	.51	.079	.00317
%RSD	.59711	.16796	.98389	.09717	.18490	.11403	1.2291
#1	.03267	.12749	.33668	2.0635	273.32	69.487	.25607
#2	.03237	.12779	.33434	2.0669	274.30	69.628	.26192
#3	.03230	.12738	.33019	2.0670	274.02	69.620	.25686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**121.83**	**5.2159**	**.00684**	**1.8798**	**.25849**	F **43423.**	**.46729**
Stddev	.06	.0031	.00058	.0119	.00087	81.	.00028
%RSD	.04556	.05850	8.4868	.63318	.33694	.18667	.06015
#1	121.87	5.2171	.00725	1.8686	.25903	43470.	.46751
#2	121.85	5.2124	.00710	1.8786	.25896	43470.	.46738
#3	121.77	5.2181	.00618	1.8923	.25748	43329.	.46697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042541S Acquired: 2/25/2011 21:24:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357505-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.025**	F **561.43**	F **-5730.5**	**.01613**	**.00353**	F **206.35**	**.01663**
Stddev	3.552	.22	13.5	.00283	.00487	1.99	.00058
%RSD	25.328	.03968	.23487	17.544	137.76	.96667	3.4710
#1	13.786	561.53	-5715.3	.01314	-.00128	206.93	.01724
#2	10.598	561.18	-5735.6	.01647	.00343	207.99	.01656
#3	17.690	561.59	-5740.7	.01877	.00845	204.13	.01610
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **5.0956**	**2.9179**	**.01641**	**.44778**	**.67411**	F **308.41**
Stddev	.0236	.0039	.00148	.00371	.00148	2.87
%RSD	.46249	.13178	9.0172	.82754	.21881	.93163
#1	5.0709	2.9173	.01601	.45056	.67272	310.58
#2	5.1178	2.9220	.01805	.44920	.67397	309.50
#3	5.0981	2.9144	.01517	.44357	.67566	305.15
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	4.5000					45.000
Low Limit	-.01000					-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**86320.**	**47794.**
Stddev	133.	298.
%RSD	.15372	.62278
#1	86432.	47636.
#2	86355.	47609.
#3	86174.	48138.

Approved: March 01, 2011

Sample Name: L1102042542SD Acquired: 2/25/2011 21:28:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357505-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21660**	**257.81**	**.29595**	**.16547**	**3.6794**	**.01185**	**509.42**
Stddev	.00205	3.03	.00070	.00177	.0068	.00006	.97
%RSD	.94852	1.1766	.23619	1.0669	.18533	.51842	.19131
#1	.21840	260.45	.29623	.16748	3.6715	.01185	510.12
#2	.21436	254.50	.29647	.16415	3.6834	.01179	508.31
#3	.21704	258.48	.29516	.16478	3.6832	.01191	509.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03300**	**.12548**	**.31148**	**2.1802**	**265.23**	**61.360**	**.22843**
Stddev	.00007	.00018	.00198	.0019	.11	.055	.00050
%RSD	.20096	.14064	.63469	.08634	.04310	.09010	.22064
#1	.03300	.12568	.31291	2.1816	265.22	61.390	.22791
#2	.03294	.12542	.30922	2.1808	265.35	61.296	.22848
#3	.03307	.12534	.31230	2.1780	265.13	61.393	.22891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**113.90**	**5.0135**	**.00662**	**1.5903**	**.25468**	F **44532.**	**.47629**
Stddev	.24	.0137	.00005	.0164	.00088	96.	.00381
%RSD	.21156	.27289	.73786	1.0336	.34494	.21481	.79898
#1	114.04	5.0293	.00658	1.5717	.25502	44633.	.47190
#2	113.62	5.0048	.00668	1.5961	.25533	44523.	.47831
#3	114.03	5.0065	.00662	1.6030	.25368	44442.	.47865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042542SD Acquired: 2/25/2011 21:28:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG357505-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **15.465**	F **549.72**	F **-5917.8**	**.01972**	**.00112**	F **238.11**	**.01311**
Stddev	5.668	.71	11.1	.00259	.00429	2.43	.00056
%RSD	36.648	.12868	.18697	13.133	383.52	1.0186	4.2674
#1	10.347	550.44	-5912.3	.01803	.00311	240.54	.01363
#2	21.556	549.02	-5910.5	.01843	-.00381	238.12	.01252
#3	14.493	549.71	-5930.5	.02270	.00406	235.69	.01317
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.9224**	**1.0186**	**.01218**	**.40952**	**.66147**	F **275.58**
Stddev	.0182	.0025	.00068	.00181	.00093	1.87
%RSD	.36960	.24292	5.5643	.44228	.14135	.67941
#1	4.9014	1.0177	.01231	.41120	.66085	277.43
#2	4.9323	1.0214	.01278	.40760	.66102	273.69
#3	4.9335	1.0167	.01145	.40977	.66255	275.62
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	4.5000					45.000
Low Limit	-.01000					-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**87522.**	**47721.**
Stddev	330.	339.
%RSD	.37726	.70995
#1	87215.	47435.
#2	87872.	48095.
#3	87480.	47634.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 21:32:05 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .47291	F 13.131	.40457	F .55517	1.0243	F .05988	10.340
Stddev	.00165	.099	.00152	.00045	.0042	.00024	.024
%RSD	.34941	.75433	.37469	.08135	.41222	.40234	.23079
#1	.47437	13.246	.40381	.55480	1.0292	.06015	10.316
#2	.47323	13.074	.40359	.55505	1.0216	.05972	10.364
#3	.47112	13.074	.40632	.55567	1.0222	.05975	10.341
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	.40000	10.000		.50000		.05000	
Range	10.000%	10.000%		10.000%		10.000%	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .05640	.21233	F .58726	.49132	3.8894	54.827	1.0648
Stddev	.00015	.00013	.00267	.00088	.0116	.035	.0038
%RSD	.25905	.06081	.45400	.17886	.29754	.06427	.35922
#1	.05623	.21246	.59029	.49051	3.8791	54.865	1.0690
#2	.05645	.21221	.58619	.49225	3.9019	54.795	1.0616
#3	.05651	.21233	.58529	.49119	3.8871	54.820	1.0637
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.05000		.50000				
Range	10.000%		10.000%				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.460	F .42445	.96831	52.524	.51630	F 8.7460	.52895
Stddev	.012	.00205	.00145	.285	.00031	5.6301	.00092
%RSD	.11058	.48382	.14986	.54198	.05989	64.374	.17406
#1	10.447	.42677	.96666	52.853	.51622	14.247	.53000
#2	10.469	.42373	.96888	52.375	.51604	8.9960	.52831
#3	10.465	.42286	.96939	52.346	.51664	2.9950	.52852
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 21:32:05 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-3.3221**	**10.230**	F **37.823**	**1.2238**	**.39459**	F **4.0238**	**1.0456**
Stddev	2.2419	.059	4.757	.0054	.00605	.0681	.0028
%RSD	67.482	.58089	12.576	.44464	1.5338	1.6915	.26942
#1	-1.1292	10.239	35.278	1.2175	.38985	3.9789	1.0485
#2	-5.6099	10.284	43.310	1.2263	.39250	3.9903	1.0428
#3	-3.2273	10.166	34.879	1.2274	.40141	4.1021	1.0454
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.93548**	**.93463**	F **.55364**	**1.0765**	**.91105**	F **3.6615**
Stddev	.00829	.00621	.00122	.0033	.00235	.7179
%RSD	.88614	.66473	.22080	.30698	.25741	19.607
#1	.94503	.94173	.55229	1.0802	.91374	2.8523
#2	.93008	.93191	.55467	1.0754	.90991	3.9104
#3	.93134	.93024	.55396	1.0739	.90949	4.2219
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value			.50000			1.0000
Range			10.000%			10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**92423.**	**48683.**
Stddev	655.	89.
%RSD	.70904	.18324
#1	91681.	48580.
#2	92666.	48745.
#3	92922.	48722.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 21:35:41 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00506**	**.00995**	**.00173**	**.00294**	**-.00015**	**-.00017**	**.00413**
Stddev	.00027	.00285	.00144	.00130	.00015	.00003	.00641
%RSD	5.4285	28.652	82.860	44.246	100.32	15.508	155.08
#1	.00534	.01301	.00011	.00276	-.00002	-.00016	-.00303
#2	.00479	.00948	.00282	.00173	-.00011	-.00020	.00612
#3	.00506	.00736	.00227	.00432	-.00031	-.00015	.00932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00009**	**.00057**	**-.00077**	**-.00549**	**.12771**	**-.00394**
Stddev	.00006	.00018	.00029	.00012	.00257	.03736	.00061
%RSD	71.168	189.13	50.086	15.172	46.742	29.256	15.554
#1	.00003	-.00005	.00046	-.00087	-.00571	.08629	-.00341
#2	.00008	.00029	.00036	-.00078	-.00282	.15888	-.00461
#3	.00015	.00005	.00089	-.00064	-.00794	.13796	-.00381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02006**	**.00121**	**.00060**	**.04111**	**-.00096**	F **-26.683**	**-.00300**
Stddev	.02665	.00097	.00024	.01605	.00025	3.020	.00075
%RSD	132.83	79.814	39.434	39.044	25.836	11.319	24.891
#1	-.05083	.00109	.00086	.05182	-.00083	-30.083	-.00324
#2	-.00469	.00031	.00039	.04885	-.00080	-24.311	-.00216
#3	-.00466	.00224	.00056	.02265	-.00125	-25.654	-.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 21:35:41 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-6.5209**	F **-.13312**	F **21.534**	**.00254**	**-.00254**	**-.07217**	**.00009**
Stddev	1.6159	.03394	2.790	.00074	.00293	.13374	.00016
%RSD	24.781	25.495	12.957	29.331	115.29	185.31	183.90
#1	-7.2940	-.11079	24.037	.00194	-.00527	-.12017	-.00007
#2	-7.6050	-.17218	18.526	.00337	-.00290	.07895	.00008
#3	-4.6637	-.11640	22.038	.00231	.00055	-.17529	.00025
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00082**	**.00109**	**-.00072**	**-.00012**	F **-.46361**
Stddev	.00010	.00127	.00098	.00013	.00004	.45565
%RSD	185.53	155.80	90.198	18.637	31.296	98.284
#1	-.00002	-.00050	.00017	-.00083	-.00016	-.84099
#2	.00002	.00027	.00213	-.00057	-.00010	-.59243
#3	-.00017	-.00221	.00098	-.00075	-.00009	.04258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**93848.**	**48547.**
Stddev	604.	226.
%RSD	.64373	.46597
#1	93844.	48304.
#2	93245.	48588.
#3	94454.	48750.

Approved: March 01, 2011

Sample Name: L1102042543 Acquired: 2/25/2011 21:39:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01689**	**306.58**	**.10812**	**.20623**	**4.0948**	**.00928**	**873.51**
Stddev	.00089	1.85	.00113	.00017	.0035	.00005	11.25
%RSD	5.2741	.60393	1.0476	.08434	.08649	.52698	1.2883
#1	.01587	308.50	.10916	.20609	4.0965	.00934	878.12
#2	.01753	304.81	.10692	.20642	4.0971	.00924	860.68
#3	.01726	306.44	.10830	.20617	4.0907	.00926	881.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00590**	**.13110**	**.32921**	**1.1551**	**278.24**	**70.050**	**.27481**
Stddev	.00003	.00019	.00199	.0019	.31	.082	.00130
%RSD	.53026	.14517	.60490	.16791	.11229	.11704	.47410
#1	.00591	.13114	.33150	1.1571	278.43	69.955	.27610
#2	.00586	.13127	.32828	1.1548	277.88	70.098	.27350
#3	.00592	.13089	.32786	1.1533	278.42	70.096	.27483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**126.37**	**4.8828**	**.00712**	**2.2590**	**.27347**	F **42981.**	**.20777**
Stddev	.07	.0193	.00024	.0174	.00090	93.	.00212
%RSD	.05255	.39472	3.3666	.77051	.32848	.21585	1.0190
#1	126.43	4.8625	.00685	2.2688	.27451	43073.	.20621
#2	126.30	4.9008	.00719	2.2389	.27293	42982.	.21018
#3	126.39	4.8850	.00731	2.2693	.27298	42887.	.20693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042543 Acquired: 2/25/2011 21:39:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **27.780**	F **962.79**	F **-7049.2**	**.01591**	**.00764**	F **168.28**	**.01331**
Stddev	5.414	.90	16.4	.00142	.00604	1.27	.00056
%RSD	19.489	.09301	.23310	8.9023	79.127	.75375	4.1727
#1	23.508	963.05	-7045.3	.01447	.01119	169.09	.01374
#2	33.869	963.53	-7035.0	.01596	.00066	168.94	.01350
#3	25.964	961.80	-7067.2	.01731	.01106	166.82	.01268
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **5.7449**	**2.2138**	**.01501**	**.44559**	**.66805**	F **271.26**
Stddev	.0057	.0056	.00148	.00407	.00051	2.42
%RSD	.09959	.25365	9.8584	.91452	.07588	.89140
#1	5.7453	2.2073	.01656	.44983	.66852	273.99
#2	5.7504	2.2167	.01487	.44171	.66751	269.39
#3	5.7390	2.2173	.01361	.44522	.66811	270.39
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	4.5000					45.000
Low Limit	-.01000					-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84148.**	**48809.**
Stddev	53.	356.
%RSD	.06254	.73029
#1	84200.	48435.
#2	84095.	49145.
#3	84148.	48846.

Approved: March 01, 2011

Sample Name: L1102042544 Acquired: 2/25/2011 21:43:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01348**	**323.14**	**.12807**	**.20723**	**1.9901**	**.01249**	**185.24**
Stddev	.00082	3.14	.00115	.00050	.0006	.00012	.15
%RSD	6.0727	.97139	.89814	.23937	.02832	.95876	.07873
#1	.01254	322.93	.12931	.20770	1.9902	.01238	185.38
#2	.01399	320.10	.12704	.20672	1.9896	.01247	185.23
#3	.01392	326.37	.12785	.20728	1.9907	.01261	185.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00586**	**.12033**	**.35946**	**1.6685**	**293.37**	**82.005**	**.25484**
Stddev	.00013	.00031	.00414	.0024	.24	.026	.00053
%RSD	2.2314	.25730	1.1530	.14264	.08270	.03172	.20644
#1	.00589	.12066	.35496	1.6713	293.16	82.035	.25471
#2	.00598	.12030	.36030	1.6673	293.32	81.986	.25439
#3	.00572	.12004	.36312	1.6670	293.63	81.994	.25542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**116.18**	**4.0990**	**.00712**	**1.4669**	**.25785**	F **31056.**	**.24175**
Stddev	.14	.0093	.00028	.0087	.00045	188.	.00189
%RSD	.11797	.22685	3.9921	.59328	.17490	.60392	.78115
#1	116.08	4.1096	.00717	1.4640	.25797	31225.	.24198
#2	116.12	4.0925	.00737	1.4767	.25823	31088.	.24352
#3	116.33	4.0948	.00681	1.4600	.25735	30854.	.23976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042544 Acquired: 2/25/2011 21:43:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **24.416**	F **221.37**	F **-4099.1**	**.01368**	**.00346**	F **151.50**	**.01514**
Stddev	6.818	.32	19.1	.00328	.00238	1.72	.00003
%RSD	27.925	.14611	.46526	23.938	68.715	1.1336	.20628
#1	31.216	221.75	-4083.4	.01598	.00577	152.42	.01517
#2	24.451	221.17	-4093.7	.00993	.00102	152.57	.01514
#3	17.580	221.21	-4120.3	.01513	.00359	149.52	.01511
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.70561**	**1.5093**	**.01500**	**.38446**	**.64426**	F **281.61**
Stddev	.00052	.0017	.00083	.00292	.00027	1.95
%RSD	.07311	.11556	5.5294	.75968	.04225	.69389
#1	.70607	1.5111	.01419	.38144	.64401	279.54
#2	.70505	1.5076	.01495	.38466	.64422	281.87
#3	.70572	1.5093	.01584	.38727	.64455	283.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88927.**	**48979.**
Stddev	180.	305.
%RSD	.20229	.62283
#1	88811.	49267.
#2	88836.	49010.
#3	89134.	48659.

Approved: March 01, 2011

Sample Name: L1102042545 Acquired: 2/25/2011 21:46:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01471**	**360.94**	**.11166**	**.23972**	**2.2558**	**.01430**	**556.61**
Stddev	.00017	3.04	.00244	.00131	.0058	.00016	.39
%RSD	1.1727	.84336	2.1834	.54741	.25756	1.0903	.07084
#1	.01491	358.23	.11383	.23886	2.2554	.01433	556.19
#2	.01458	364.23	.11213	.24123	2.2617	.01445	556.64
#3	.01464	360.35	.10902	.23906	2.2501	.01414	556.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00507**	**.12195**	**.39442**	**.95226**	**309.18**	**88.400**	**.29089**
Stddev	.00011	.00107	.00395	.00944	.83	.106	.00080
%RSD	2.1199	.87411	1.0008	.99102	.26697	.11963	.27436
#1	.00500	.12289	.39537	.95973	308.48	88.294	.29070
#2	.00519	.12217	.39782	.95538	310.09	88.505	.29020
#3	.00501	.12080	.39009	.94165	308.97	88.400	.29176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**134.56**	**3.6515**	**.00786**	**2.5927**	**.27636**	F **27109.**	**.20632**
Stddev	.20	.0076	.00036	.0276	.00235	253.	.00182
%RSD	.14774	.20819	4.6112	1.0658	.84870	.93427	.88111
#1	134.33	3.6427	.00772	2.5758	.27888	27288.	.20678
#2	134.71	3.6554	.00759	2.6246	.27599	27221.	.20786
#3	134.63	3.6564	.00827	2.5776	.27423	26819.	.20432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042545 Acquired: 2/25/2011 21:46:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **34.169**	F **597.96**	F **-6251.0**	**.01664**	**.00344**	F **180.66**	**.01511**
Stddev	2.335	4.67	37.5	.00236	.00191	1.20	.00033
%RSD	6.8336	.78080	.59913	14.209	55.583	.66652	2.1811
#1	31.899	601.03	-6286.6	.01889	.00375	181.33	.01549
#2	36.564	600.26	-6254.6	.01684	.00139	181.38	.01498
#3	34.044	592.59	-6211.9	.01418	.00517	179.27	.01487
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1715**	**1.6649**	**.01452**	**.44298**	**.64106**	F **276.35**
Stddev	.0053	.0016	.00238	.00342	.00572	1.81
%RSD	.45545	.09869	16.364	.77166	.89282	.65571
#1	1.1692	1.6636	.01713	.44352	.64541	276.92
#2	1.1776	1.6643	.01396	.44609	.64318	277.81
#3	1.1677	1.6667	.01248	.43932	.63457	274.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85973.**	**48253.**
Stddev	301.	224.
%RSD	.35015	.46511
#1	86006.	48310.
#2	85656.	48006.
#3	86255.	48443.

Approved: March 01, 2011

Sample Name: L1102042546 Acquired: 2/25/2011 21:50:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00949**	**267.27**	**.13471**	**.17266**	**2.0686**	**.01392**	**238.35**
Stddev	.00017	2.92	.00177	.00056	.0035	.00013	.56
%RSD	1.7584	1.0932	1.3128	.32655	.16840	.91962	.23358
#1	.00942	265.87	.13488	.17327	2.0648	.01391	237.79
#2	.00968	265.31	.13639	.17216	2.0717	.01380	238.35
#3	.00936	270.63	.13287	.17254	2.0693	.01406	238.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00632**	**.11098**	**.29891**	**2.2945**	**257.85**	**67.669**	**.22786**
Stddev	.00003	.00087	.00275	.0191	.35	.142	.00251
%RSD	.45620	.78822	.91835	.83100	.13417	.20914	1.1004
#1	.00630	.11168	.29792	2.3095	257.46	67.508	.22546
#2	.00636	.11126	.29679	2.3009	258.00	67.773	.23046
#3	.00631	.11000	.30201	2.2730	258.10	67.726	.22767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**108.85**	**3.9339**	**.00778**	**1.3759**	**.23066**	F **35046.**	**.25498**
Stddev	.26	.0086	.00026	.0049	.00206	221.	.00309
%RSD	.23520	.21762	3.3309	.35387	.89197	.63026	1.2108
#1	108.61	3.9263	.00794	1.3705	.23214	35193.	.25584
#2	108.82	3.9324	.00793	1.3771	.23153	35153.	.25754
#3	109.12	3.9432	.00748	1.3800	.22831	34792.	.25155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042546 Acquired: 2/25/2011 21:50:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **13.139**	F **309.27**	F **-7262.2**	**.01755**	**.00507**	F **148.36**	**.01334**
Stddev	2.993	1.92	44.4	.00098	.00351	2.15	.00023
%RSD	22.781	.62068	.61144	5.5787	69.217	1.4461	1.7457
#1	16.008	310.82	-7299.4	.01828	.00330	149.81	.01360
#2	10.035	309.86	-7274.2	.01644	.00280	149.38	.01325
#3	13.375	307.12	-7213.0	.01794	.00912	145.90	.01316
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.88763**	**.83504**	**.01238**	**.33791**	**.60071**	F **248.05**
Stddev	.00281	.00230	.00102	.00424	.00458	2.80
%RSD	.31680	.27562	8.2778	1.2555	.76189	1.1300
#1	.88487	.83238	.01243	.33640	.60440	247.46
#2	.89049	.83643	.01133	.33462	.60215	245.60
#3	.88751	.83630	.01338	.34269	.59559	251.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**88776.**	**48038.**
Stddev	134.	407.
%RSD	.15126	.84704
#1	88733.	48004.
#2	88668.	48460.
#3	88926.	47649.

Approved: March 01, 2011

Sample Name: L1102042547 Acquired: 2/25/2011 21:54:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02039**	**388.10**	**.12761**	**.27393**	**2.7776**	**.01107**	**880.20**
Stddev	.00064	2.92	.00094	.00118	.0078	.00001	9.18
%RSD	3.1599	.75204	.73502	.43011	.28247	.13081	1.0431
#1	.02077	391.26	.12812	.27441	2.7760	.01105	869.78
#2	.01965	387.55	.12819	.27479	2.7861	.01107	887.09
#3	.02076	385.50	.12653	.27259	2.7707	.01108	883.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00546**	**.13296**	**.43616**	**.81860**	**344.44**	**84.395**	**.34657**
Stddev	.00009	.00006	.00084	.00161	.97	.044	.00208
%RSD	1.6173	.04499	.19208	.19629	.28302	.05175	.60111
#1	.00537	.13298	.43642	.82026	344.84	84.389	.34562
#2	.00555	.13300	.43685	.81705	345.15	84.441	.34896
#3	.00545	.13289	.43523	.81850	343.33	84.355	.34513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**155.46**	**3.8987**	**.00505**	**2.0360**	**.30188**	F **33156.**	**.19934**
Stddev	.36	.0118	.00029	.0111	.00079	74.	.00268
%RSD	.23377	.30255	5.8199	.54730	.26335	.22278	1.3449
#1	155.05	3.9097	.00479	2.0481	.30133	33095.	.19637
#2	155.60	3.9003	.00537	2.0261	.30151	33238.	.20006
#3	155.73	3.8862	.00499	2.0339	.30279	33136.	.20159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042547 Acquired: 2/25/2011 21:54:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.820**	F **948.73**	F **-7266.4**	**.01730**	**.00590**	F **188.41**	**.01767**
Stddev	10.113	.76	37.3	.00314	.00325	2.19	.00031
%RSD	46.349	.07979	.51366	18.166	55.011	1.1623	1.7564
#1	32.006	948.93	-7286.5	.01587	.00499	188.58	.01750
#2	11.781	947.89	-7223.3	.01513	.00951	190.51	.01748
#3	21.672	949.36	-7289.4	.02091	.00321	186.14	.01803
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8558**	**2.6871**	**.01674**	**.53268**	**.69682**	F **319.56**
Stddev	.0115	.0076	.00130	.00280	.00188	1.64
%RSD	.61769	.28353	7.7419	.52579	.26939	.51364
#1	1.8595	2.6950	.01591	.53568	.69882	321.43
#2	1.8651	2.6866	.01608	.53223	.69509	318.88
#3	1.8430	2.6798	.01823	.53013	.69655	318.37
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**84475.**	**47545.**
Stddev	173.	216.
%RSD	.20457	.45361
#1	84572.	47322.
#2	84577.	47561.
#3	84275.	47753.

Approved: March 01, 2011

Sample Name: L1102042548 Acquired: 2/25/2011 21:58:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02593**	**253.87**	**.12864**	**.20474**	**2.4659**	**.00045**	**849.36**
Stddev	.00048	2.91	.00190	.00060	.0065	.00002	12.97
%RSD	1.8657	1.1465	1.4787	.29220	.26352	3.5453	1.5272
#1	.02638	256.24	.13012	.20530	2.4602	.00044	864.34
#2	.02542	250.62	.12929	.20480	2.4646	.00044	842.14
#3	.02600	254.76	.12649	.20411	2.4730	.00046	841.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00594**	**.10976**	**.31414**	**1.4897**	**254.53**	**58.098**	**.26345**
Stddev	.00006	.00041	.00172	.0065	.79	.075	.00173
%RSD	.96675	.37391	.54767	.43810	.31056	.12841	.65816
#1	.00593	.11009	.31314	1.4962	253.88	58.021	.26186
#2	.00589	.10989	.31315	1.4899	254.30	58.103	.26530
#3	.00600	.10930	.31612	1.4831	255.41	58.170	.26319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**131.15**	**3.6621**	**.00520**	**1.6445**	**.23286**	F **40516.**	**.19035**
Stddev	.43	.0185	.00002	.0134	.00177	72.	.00201
%RSD	.32471	.50638	.36643	.81452	.76040	.17792	1.0549
#1	130.67	3.6452	.00520	1.6290	.23470	40568.	.19060
#2	131.29	3.6592	.00518	1.6527	.23271	40547.	.19222
#3	131.48	3.6820	.00522	1.6517	.23116	40434.	.18823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042548 Acquired: 2/25/2011 21:58:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **20.628**	F **911.63**	F **-6331.8**	**.01437**	**.00390**	F **153.61**	**.01417**
Stddev	2.359	2.39	40.6	.00048	.00241	1.77	.00004
%RSD	11.436	.26210	.64058	3.3386	61.835	1.1534	.30477
#1	17.906	913.67	-6376.4	.01385	.00222	155.27	.01416
#2	21.885	912.22	-6322.0	.01479	.00667	153.81	.01413
#3	22.092	909.00	-6297.1	.01447	.00283	151.75	.01421
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8878**	**3.6400**	**.01690**	**.41864**	**.58365**	F **252.04**
Stddev	.0080	.0137	.00247	.00266	.00256	1.37
%RSD	.42092	.37653	14.629	.63651	.43901	.54465
#1	1.8842	3.6254	.01644	.41564	.58597	250.46
#2	1.8824	3.6418	.01957	.41956	.58408	252.79
#3	1.8969	3.6526	.01469	.42073	.58090	252.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**85901.**	**48242.**
Stddev	112.	54.
%RSD	.13003	.11106
#1	86006.	48194.
#2	85783.	48300.
#3	85912.	48233.

Approved: March 01, 2011

Sample Name: L1102042601 Acquired: 2/25/2011 22:02:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03093**	**263.63**	**.09968**	**.22148**	**2.9517**	F **-.00119**	F **1262.4**
Stddev	.00030	1.17	.00260	.00048	.0028	.00004	18.5
%RSD	.97263	.44392	2.6045	.21580	.09598	3.6254	1.4630
#1	.03128	264.98	.10163	.22169	2.9484	-.00124	1283.6
#2	.03077	262.98	.10068	.22182	2.9535	-.00116	1253.8
#3	.03075	262.92	.09673	.22093	2.9531	-.00117	1249.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						4.5000	900.00
Low Limit						-.00050	-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00496**	**.11539**	**.32701**	**.47024**	**264.34**	**55.631**	**.29810**
Stddev	.00010	.00019	.00066	.00123	.02	.077	.00074
%RSD	2.0950	.16465	.20181	.26225	.00912	.13901	.24907
#1	.00505	.11549	.32650	.47095	264.36	55.601	.29778
#2	.00484	.11517	.32776	.46881	264.32	55.719	.29757
#3	.00498	.11552	.32678	.47095	264.32	55.574	.29895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**145.48**	**3.3716**	**.00417**	**1.8916**	**.24672**	F **34337.**	**.14776**
Stddev	.33	.0060	.00059	.0089	.00130	32.	.00112
%RSD	.23024	.17682	14.101	.47202	.52724	.09327	.75877
#1	145.14	3.3721	.00430	1.8915	.24779	34369.	.14665
#2	145.81	3.3772	.00467	1.9007	.24528	34337.	.14889
#3	145.48	3.3653	.00352	1.8828	.24710	34305.	.14775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 01, 2011

Sample Name: L1102042601 Acquired: 2/25/2011 22:02:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **18.873**	F **1414.3**	F **-6598.7**	**.01252**	**.00145**	F **175.84**	**.01401**
Stddev	10.221	1.4	18.7	.00283	.00378	2.86	.00041
%RSD	54.157	.09577	.28266	22.585	260.92	1.6281	2.9550
#1	7.2920	1414.2	-6620.1	.01174	.00542	178.08	.01354
#2	22.692	1413.0	-6585.7	.01565	-.00211	176.83	.01433
#3	26.633	1415.7	-6590.4	.01016	.00104	172.62	.01416
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.8968**	**4.4655**	**.01491**	**.45568**	**.56239**	F **210.75**
Stddev	.0074	.0112	.00141	.00272	.00169	1.60
%RSD	.25515	.25162	9.4902	.59682	.30102	.76097
#1	2.8919	4.4593	.01339	.45297	.56405	209.34
#2	2.8931	4.4785	.01618	.45841	.56067	212.50
#3	2.9053	4.4588	.01516	.45566	.56244	210.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**83392.**	**48833.**
Stddev	88.	151.
%RSD	.10518	.30865
#1	83330.	48822.
#2	83492.	48688.
#3	83353.	48989.

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 22:05:59 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .48203	F 13.374	.40510	F .56574	1.0303	F .06072	10.415
Stddev	.00113	.036	.00139	.00113	.0016	.00007	.017
%RSD	.23358	.26794	.34355	.20017	.15929	.12024	.15891
#1	.48084	13.340	.40668	.56687	1.0315	.06069	10.425
#2	.48216	13.371	.40453	.56461	1.0284	.06068	10.424
#3	.48309	13.412	.40408	.56575	1.0309	.06081	10.396
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	.40000	10.000		.50000		.05000	
Range	10.000%	10.000%		10.000%		10.000%	

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .05638	.21270	F .59772	.49251	3.8915	F 55.401	1.0739
Stddev	.00008	.00049	.00099	.00047	.0087	.069	.0056
%RSD	.13456	.23174	.16595	.09535	.22392	.12377	.52291
#1	.05634	.21257	.59721	.49248	3.8818	55.430	1.0700
#2	.05633	.21228	.59709	.49300	3.8986	55.323	1.0713
#3	.05647	.21324	.59886	.49206	3.8941	55.450	1.0803
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	.05000		.50000			50.000	
Range	10.000%		10.000%			10.000%	

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.450	F .43081	.97111	53.153	.51660	F 5.5964	.52697
Stddev	.020	.00386	.00114	.185	.00037	5.2964	.00164
%RSD	.18736	.89520	.11745	.34775	.07219	94.639	.31054
#1	10.463	.43135	.97212	53.118	.51665	11.174	.52869
#2	10.428	.42671	.96987	52.988	.51620	4.9807	.52544
#3	10.460	.43436	.97133	53.352	.51694	.63482	.52677
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 01, 2011

Sample Name: CCV Acquired: 2/25/2011 22:05:59 Type: QC
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-8.0870**	**10.282**	F **24.070**	**1.2250**	**.39203**	F **3.9619**	**1.0464**
Stddev	9.6235	.033	2.625	.0022	.00218	.1579	.0009
%RSD	119.00	.31901	10.907	.17924	.55533	3.9843	.08521
#1	-12.667	10.246	23.480	1.2260	.39440	3.9285	1.0463
#2	2.9711	10.308	21.791	1.2225	.39158	3.8235	1.0455
#3	-14.565	10.293	26.941	1.2265	.39011	4.1338	1.0473
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94431**	**.93678**	F **.55441**	**1.0959**	**.91702**	F **1.9285**
Stddev	.00415	.00150	.00243	.0018	.00106	.4328
%RSD	.43918	.16009	.43883	.16054	.11557	22.441
#1	.94342	.93509	.55196	1.0979	.91609	1.4347
#2	.94069	.93732	.55444	1.0951	.91817	2.2419
#3	.94884	.93794	.55682	1.0947	.91680	2.1087
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value			.50000			1.0000
Range			10.000%			10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91521.**	**47406.**
Stddev	190.	91.
%RSD	.20797	.19226
#1	91703.	47439.
#2	91536.	47476.
#3	91323.	47303.

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 22:09:36 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00597**	**.01860**	**.00087**	**-.00001**	**.00008**	**-.00022**	**-.01290**
Stddev	.00035	.00122	.00138	.00160	.00020	.00002	.00380
%RSD	5.9456	6.5498	159.16	16075.	265.54	11.285	29.476
#1	.00583	.01720	.00101	.00167	.00024	-.00023	-.01708
#2	.00570	.01916	-.00058	-.00151	.00013	-.00023	-.01197
#3	.00637	.01943	.00217	-.00018	-.00015	-.00019	-.00964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00004**	**.00017**	**-.00027**	**-.00601**	**.18258**	**-.00451**
Stddev	.00005	.00007	.00031	.00043	.00566	.04796	.00179
%RSD	159.58	173.59	182.61	158.95	94.296	26.269	39.618
#1	.00006	.00009	.00026	-.00077	-.01125	.22874	-.00420
#2	-.00003	-.00004	-.00017	.00002	-.00677	.18599	-.00644
#3	.00007	.00007	.00043	-.00007	.00000	.13300	-.00290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01719**	**.00051**	**.00068**	**.03909**	**-.00100**	F **-23.869**	**-.00167**
Stddev	.01617	.00067	.00010	.01304	.00045	25.203	.00174
%RSD	94.050	130.78	15.178	33.364	45.172	105.59	104.00
#1	.00827	-.00014	.00056	.04610	-.00146	2.9178	-.00212
#2	.03585	.00047	.00072	.02404	-.00099	-47.113	.00025
#3	.00745	.00119	.00075	.04713	-.00055	-27.412	-.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 01, 2011

Sample Name: CCB Acquired: 2/25/2011 22:09:36 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1270) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-8.9675**	F **-.18664**	F **14.790**	**.00465**	**-.00252**	**.03413**	**.00027**
Stddev	6.6077	.02224	4.157	.00026	.00327	.02640	.00037
%RSD	73.685	11.918	28.106	5.5394	129.56	77.337	136.64
#1	-13.566	-.20928	12.472	.00436	.00108	.01388	.00070
#2	-1.3955	-.16482	12.310	.00476	-.00336	.06398	.00000
#3	-11.941	-.18583	19.589	.00483	-.00529	.02453	.00012
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00027**	**.00021**	**-.00043**	**-.00023**	F **-.30364**
Stddev	.00015	.00131	.00088	.00010	.00003	.28387
%RSD	903.18	484.59	424.89	23.454	11.753	93.490
#1	.00012	.00031	.00074	-.00053	-.00022	-.01373
#2	.00002	.00065	.00069	-.00043	-.00026	-.58105
#3	-.00018	-.00177	-.00081	-.00033	-.00021	-.31613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**91936.**	**46788.**
Stddev	146.	108.
%RSD	.15867	.23062
#1	91777.	46910.
#2	91969.	46704.
#3	92063.	46751.

Approved: March 01, 2011

2.1.2 Metals ICP-MS Data

2.1.2.1 Summary Data

Login Number: L11020571

Department: Metals

Analyst: Ji Hu
Analyst #2: Erin Long

METHOD

Preparation: SW-846 3015

Analysis: SW-846 6020

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

Low Level Check: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG357403 - All acceptance criteria were met.

WG357404 - All acceptance criteria were met.

Matrix Spikes: WG357404 - Sample 06 was chosen by the client for MS/MSD analysis. Samples 03(MS) and 04(MSD) yielded a noncompliant recovery for chromium.

SAMPLES

Samples: WG357404 - Due to the high levels of nontarget analytes, client samples 03 through 13 were analyzed initially at dilutions for all analytes.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 22270
Approved By: Sheri Pfalzgraf

LABORATORY REPORT

L11020571

03/04/11 16:17

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SWMU-57-21711-EB	L11020571-01	6020	1	19-FEB-11
SWMU-57-21711-FB	L11020571-02	6020	1	19-FEB-11
SWMU-57-21711-MS	L11020571-03	6020	5	19-FEB-11
SWMU-57-21711-MSD	L11020571-04	6020	5	19-FEB-11
SWMU-57-21711-DUP	L11020571-05	6020	5	19-FEB-11
SWMU-57-21711-B-5-SS-1-2	L11020571-06	6020	5	19-FEB-11
SWMU-57-21711-B-2-SS-2.5	L11020571-07	6020	5	19-FEB-11
SWMU-57-21711-B-2-SS-5	L11020571-08	6020	5	19-FEB-11
SWMU-57-21711-B-1-SS-2.5	L11020571-09	6020	5	19-FEB-11
SWMU-57-21711-B-6-SS-2.5	L11020571-10	6020	5	19-FEB-11
SWMU-57-21811-B3-SS-2	L11020571-11	6020	5	19-FEB-11
SWMU-57-21811-B4-SS-2.5	L11020571-12	6020	5	19-FEB-11
SWMU-57-21811-B7-SS-2	L11020571-13	6020	5	19-FEB-11

Microbac Laboratories Inc.

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	**L11020571-01**	PrePrep Method:	**NONE**	Instrument:	**ELAN-ICP**
Client ID:	**SWMU-57-21711-EB**	Prep Method:	**3015**	Prep Date:	**02/23/2011 08:10**
Matrix:	**Water**	Analytical Method:	**6020**	Cal Date:	**02/25/2011 10:03**
Workgroup Number:	**WG357403**	Analyst:	**JYH**	Run Date:	**02/25/2011 13:52**
Collect Date:	**02/17/2011 09:00**	Dilution:	**1**	File ID:	**EL.022511.135249**
Sample Tag:	**01**	Units:	**mg/L**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	**7440-36-0**		**U**	**0.00100**	**0.000500**
Cadmium, Total	**7440-43-9**		**U**	**0.000600**	**0.000300**
Chromium, Total	**7440-47-3**	**0.00118**	**J**	**0.00200**	**0.00100**
Manganese, Total	**7439-96-5**	**0.00168**	**J**	**0.00200**	**0.00100**

J Estimated value ; the analyte concentration was less than the low standard (LOQ)
U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-02	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-21711-FB	Prep Method:	3015	Prep Date:	02/23/2011 08:10
Matrix:	Water	Analytical Method:	6020	Cal Date:	02/25/2011 10:03
Workgroup Number:	WG357403	Analyst:	JYH	Run Date:	02/25/2011 13:59
Collect Date:	02/17/2011 09:05	Dilution:	1	File ID:	EL.022511.135933
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	0.00100	0.000500
Cadmium, Total	7440-43-9		U	0.000600	0.000300
Chromium, Total	7440-47-3		U	0.00200	0.00100
Manganese, Total	7439-96-5		U	0.00200	0.00100

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-03	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-21711-MS	Prep Method:	3051A	Prep Date:	02/23/2011 06:37
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/25/2011 10:03
Workgroup Number:	WG357404	Analyst:	JYH	Run Date:	02/25/2011 18:34
Collect Date:	02/17/2011 10:10	Dilution:	5	File ID:	EL.022511.183407
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	10.6		0.500	0.250
Chromium, Total	7440-47-3	27.4		2.00	1.00

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-04	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-21711-MSD	Prep Method:	3051A	Prep Date:	02/23/2011 06:37
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/25/2011 10:03
Workgroup Number:	WG357404	Analyst:	JYH	Run Date:	02/25/2011 18:40
Collect Date:	02/17/2011 10:10	Dilution:	5	File ID:	EL.022511.184054
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	10.5		0.500	0.250
Chromium, Total	7440-47-3	31.4		2.00	1.00

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-05	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-21711-DUP	Prep Method:	3051A	Prep Date:	02/23/2011 06:37
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/25/2011 10:03
Workgroup Number:	WG357404	Analyst:	JYH	Run Date:	02/25/2011 18:47
Collect Date:	02/17/2011 10:10	Dilution:	5	File ID:	EL.022511.184742
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.485	0.243
Chromium, Total	7440-47-3	15.5		1.94	0.971

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-06	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-21711-B-5-SS-1-2	Prep Method:	3051A	Prep Date:	02/23/2011 06:37
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/25/2011 10:03
Workgroup Number:	WG357404	Analyst:	JYH	Run Date:	02/25/2011 18:54
Collect Date:	02/17/2011 10:10	Dilution:	5	File ID:	EL.022511.185430
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.500	0.250
Chromium, Total	7440-47-3	20.2		2.00	1.00

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-07	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-21711-B-2-SS-2.5	Prep Method:	3051A	Prep Date:	02/23/2011 06:37
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/25/2011 10:03
Workgroup Number:	WG357404	Analyst:	JYH	Run Date:	02/25/2011 19:01
Collect Date:	02/17/2011 10:55	Dilution:	5	File ID:	EL.022511.190118
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	2.53		0.466	0.233
Chromium, Total	7440-47-3	22.8		1.87	0.933

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-08	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-21711-B-2-SS-5	Prep Method:	3051A	Prep Date:	02/23/2011 06:37
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/25/2011 10:03
Workgroup Number:	WG357404	Analyst:	JYH	Run Date:	02/25/2011 19:08
Collect Date:	02/17/2011 11:35	Dilution:	5	File ID:	EL.022511.190805
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	0.395	J	0.487	0.244
Chromium, Total	7440-47-3	17.4		1.95	0.975

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-09	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-21711-B-1-SS-2.5	Prep Method:	3051A	Prep Date:	02/23/2011 06:37
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/25/2011 10:03
Workgroup Number:	WG357404	Analyst:	JYH	Run Date:	02/25/2011 19:28
Collect Date:	02/17/2011 12:05	Dilution:	5	File ID:	EL.022511.192852
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.498	0.249
Chromium, Total	7440-47-3	13.9		1.99	0.996

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-10	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-21711-B-6-SS-2.5	Prep Method:	3051A	Prep Date:	02/23/2011 06:37
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/25/2011 10:03
Workgroup Number:	WG357404	Analyst:	JYH	Run Date:	02/25/2011 19:35
Collect Date:	02/17/2011 13:35	Dilution:	5	File ID:	EL.022511.193538
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	0.424	J	0.483	0.241
Chromium, Total	7440-47-3	13.9		1.93	0.965

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-11	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-21811-B3-SS-2	Prep Method:	3051A	Prep Date:	02/23/2011 06:37
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/25/2011 10:03
Workgroup Number:	WG357404	Analyst:	JYH	Run Date:	02/25/2011 19:42
Collect Date:	02/17/2011 08:55	Dilution:	5	File ID:	EL.022511.194224
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	1.71		0.470	0.235
Chromium, Total	7440-47-3	49.3		1.88	0.940

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	L11020571-12	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-21811-B4-SS-2.5	Prep Method:	3051A	Prep Date:	02/23/2011 06:37
Matrix:	Soil	Analytical Method:	6020	Cal Date:	02/25/2011 10:03
Workgroup Number:	WG357404	Analyst:	JYH	Run Date:	02/25/2011 19:49
Collect Date:	02/17/2011 09:45	Dilution:	5	File ID:	EL.022511.194911
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	100

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	2.23		0.461	0.231
Chromium, Total	7440-47-3	31.0		1.85	0.923

Microbac Laboratories Inc.

Report Number: **L11020571**
Report Date : **March 4, 2011**

Sample Number:	**L11020571-13**	PrePrep Method:	**NONE**	Instrument:	**ELAN-ICP**
Client ID:	**SWMU-57-21811-B7-SS-2**	Prep Method:	**3051A**	Prep Date:	**02/23/2011 06:37**
Matrix:	**Soil**	Analytical Method:	**6020**	Cal Date:	**02/25/2011 10:03**
Workgroup Number:	**WG357404**	Analyst:	**JYH**	Run Date:	**02/25/2011 19:55**
Collect Date:	**02/17/2011 11:05**	Dilution:	**5**	File ID:	**EL.022511.195557**
Sample Tag:	**DL01**	Units:	**mg/kg**	Percent Solid:	**100**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	**7440-43-9**		**U**	**0.479**	**0.239**
Chromium, Total	**7440-47-3**	**25.3**		**1.92**	**0.958**

U Analyte was not detected. The concentration is below the reported LOD.

2.1.2.2 QC Summary Data

Example 6020 Calculations
Perkin Elmer ELAN 6100

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	100
Vi = Initial volume	40
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/L)	0.25

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	200
Vi = Initial volume	0.5
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/kg)	40

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	40
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	50

50 ug/kg = 0.050 mg/kg

Perkin Elmer ELAN ICP/MS

STANDARDS KEY

QC Std 1 - ICV
QC Std 2 - ICB
QC Std 3 - LLICV
QC Std 4 - ICSA
QC Std 5 - ICSAB
QC Std 6 - CCV
QC Std 7 - CCB
QC Std 8 - LLCCV

Calibration Solutions

Analyte	Stock Conc. (mg/L)	S1 (mg/L)	S2 (mg/L)	S3 (mg/L)	S4 (mg/L)
Al	10	0	0.0004	0.05	0.1
Sb	10	0	0.0004	0.05	0.1
As	10	0	0.0004	0.05	0.1
Ba	10	0	0.0004	0.05	0.1
Be	10	0	0.0004	0.05	0.1
Ca	1000	0	0.04	5	10
Cd	10	0	0.0004	0.05	0.1
Cr	10	0	0.0004	0.05	0.1
Co	10	0	0.0004	0.05	0.1
Cu	10	0	0.0004	0.05	0.1
Fe	1000	0	0.04	5	10
Pb	10	0	0.0004	0.05	0.1
Mg	1000	0	0.04	5	10
Mn	10	0	0.0004	0.05	0.1
Ni	10	0	0.0004	0.05	0.1
K	1000	0	0.04	5	10
Se	10	0	0.0004	0.05	0.1
Ag	10	0	0.0004	0.05	0.1
Na	1000	0	0.04	5	10
Tl	10	0	0.0004	0.05	0.1
V	10	0	0.0004	0.05	0.1
U	1000	0	0.0004	0.05	0.1
Zn	10	0	0.0004	0.05	0.1

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG357315
Analyst: VC
Spike Analyst: VC
Run Date: 02/23/2011 08:10
Method: 3015
Balance: BAL016
Instrument: MW-2

SOP: ME407 Revison 11
Spike Solution: STD41894
Spike Witness: BRG
HNO3 Lot #: COA15168
Digestion Tubes Lot #: COA15251
ICP;WG353481 Filter Lot COA15138

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG357315-02	BLANK	1	40 mL	100 mL	208.481 g	208.468 g		
2	WG357258-01	FBLK	18	40 mL	100 mL	207.172 g	207.162 g		
3	WG357315-03	LCS	1	40 mL	100 mL	206.027 g	206.01 g	.25 mL	
4	L11020542-02	SAMP	18	40 mL	100 mL	206.876 g	206.872 g		02/24/11
5	L11020571-01	SAMP	1	40 mL	100 mL	206.206 g	206.182 g		02/28/11
6	L11020571-02	SAMP	1	40 mL	100 mL	207.71 g	207.705 g		02/28/11
7	L11020574-01	SAMP	1	40 mL	100 mL	207.476 g	207.43 g		03/04/11
8	L11020579-01	SAMP	1	40 mL	100 mL	207.215 g	207.202 g		03/04/11
9	WG357315-01	REF	1	40 mL	100 mL	209.408 g	209.385 g		
10	L11020579-02	SAMP	1	40 mL	100 mL	209.408 g	209.385 g		03/04/11
11	WG357315-04	MS	1	40 mL	100 mL	206.886 g	206.87 g	.25 mL	
12	WG357315-05	MSD	1	40 mL	100 mL	206.456 g	206.445 g	.25 mL	

Analyst: Vicki Collins

Reviewer: Brenda Gregory

MW_DIG - Modified 09/30/2009
PDF ID: 1926598
Report generated: 02/23/2011 10:18

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG357299
Analyst: VC
Spike Analyst: VC
Run Date: 02/23/2011 06:37
Method: 3051A
Balance: BAL013
Instrument: MW-3

SOP: ME406 Revison 12
Spike Solution: STD41894
Spike Witness: REK
HNO3 Lot #: COA15168
Digestion Tubes Lot #: COA15251

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG357299-03	BLANK	7	.5 g	200 mL	176.419 g	176.416 g		
2	WG357299-04	LCS	7	.5 g	200 mL	174.377 g	174.382 g	.5 mL	
3	L11020318-01	SAMP	7	.508 g	200 mL	174.808 g	174.805 g		02/28/11
4	L11020318-02	SAMP	7	.519 g	200 mL	174.333 g	174.329 g		02/28/11
5	L11020318-03	SAMP	7	.505 g	200 mL	174.126 g	174.136 g		02/28/11
6	L11020318-04	SAMP	7	.501 g	200 mL	173.983 g	173.991 g		02/28/11
7	L11020318-05	SAMP	7	.534 g	200 mL	174.321 g	174.323 g		02/28/11
8	L11020318-06	SAMP	7	.514 g	200 mL	173.525 g	173.532 g		02/28/11
9	L11020318-07	SAMP	7	.532 g	200 mL	176.813 g	176.82 g		02/28/11
10	WG357299-01	REF	7	.507 g	200 mL	171.022 g	171.033 g		
11	L11020318-08	RS01	7	.507 g	200 mL	171.022 g	171.033 g		02/28/11
12	WG357299-05	MS	7	.507 g	200 mL	175.139 g	175.157 g	.5 mL	
13	L11020318-09	MS01	7	.507 g	200 mL	175.139 g	175.157 g	.5 mL	02/28/11
14	WG357299-06	MSD	7	.507 g	200 mL	173.918 g	173.934 g	.5 mL	
15	L11020318-10	SD01	7	.507 g	200 mL	173.918 g	173.934 g	.5 mL	02/28/11
16	WG357299-07	MS	7	.5 g	200 mL	173.613 g	173.628 g	.5 mL	
17	L11020571-03	MS01	7	.5 g	200 mL	173.613 g	173.628 g	.5 mL	02/28/11
18	WG357299-08	MSD	7	.5 g	200 mL	174.582 g	174.593 g	.5 mL	
19	L11020571-04	SD01	7	.5 g	200 mL	174.582 g	174.593 g	.5 mL	02/28/11
20	L11020571-05	SAMP	7	.515 g	200 mL	173.769 g	173.785 g		02/28/11
21	WG357299-02	REF	7	.5 g	200 mL	173.502 g	173.519 g		
22	L11020571-06	RS01	7	.5 g	200 mL	173.502 g	173.519 g		02/28/11
23	L11020571-07	SAMP	7	.536 g	200 mL	173.643 g	173.664 g		02/28/11
24	L11020571-08	SAMP	7	.513 g	200 mL	175.517 g	175.527 g		02/28/11
25	L11020571-09	SAMP	7	.502 g	200 mL	172.869 g	172.883 g		02/28/11
26	L11020571-10	SAMP	7	.518 g	200 mL	174.414 g	174.433 g		02/28/11
27	L11020571-11	SAMP	7	.532 g	200 mL	174.919 g	174.935 g		02/28/11
28	L11020571-12	SAMP	7	.542 g	200 mL	176.22 g	176.226 g		02/28/11
29	L11020571-13	SAMP	7	.522 g	200 mL	173.87 g	173.895 g		02/28/11

Analyst: Vicki Collins

Reviewer:

MW_DIG - Modified 09/30/2009
PDF ID: 1926372
Report generated: 02/23/2011 09:00

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 022411C.REP
Analyst1: EDL Analyst2: JYH
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 36533

Calibration Std: STD43845 ICV Std: STD43557 Post Spike: STD42704
ICSA: STD43561 ICSAB: STD44048 Int. Std: STD43721
CCV: STD43914 LLCCV: STD44016

Workgroups: 357403

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.022411.133413	Blank	Blank		1		02/24/11 13:34
2	EL.022411.134057	WG357545-01	Calibration Point		1		02/24/11 13:40
3	EL.022411.134742	WG357545-02	Calibration Point		1		02/24/11 13:47
4	EL.022411.135427	WG357545-03	Calibration Point		1		02/24/11 13:54
5	EL.022411.140113	WG357545-04	Calibration Point		1		02/24/11 14:01
6	EL.022411.140759	WG357545-05	Initial Calibration Verification		1		02/24/11 14:07
7	EL.022411.141523	WG357545-06	Initial Calib Blank		1		02/24/11 14:15
8	EL.022411.142210	WG357545-07	Low Level Initial Calibration V		1		02/24/11 14:22
9	EL.022411.142859	WG357545-08	Interference Check		1		02/24/11 14:28
10	EL.022411.143546	WG357545-09	Interference Check		1		02/24/11 14:35
11	EL.022411.144234	WG357545-10	CCV		1		02/24/11 14:42
12	EL.022411.144950	WG357545-11	CCB		1		02/24/11 14:49
13	EL.022411.145634	WG357403-03	Louisville Chem Requ		1		02/24/11 14:56
14	EL.022411.150319	WG357315-02	Method/Prep Blank	40/100	1		02/24/11 15:03
15	EL.022411.151003	WG357315-03	Laboratory Control S	40/100	1		02/24/11 15:10
16	EL.022411.151649	WG357258-01	Fluid Blank		1		02/24/11 15:16
17	EL.022411.152334	L11020542-02	60500-SSP0077	40/100	2		02/24/11 15:23
18	EL.022411.153020	WG357315-01	Reference Sample		5	L11020579-02	02/24/11 15:30
19	EL.022411.153706	WG357315-04	Matrix Spike	40/100	5	L11020579-02	02/24/11 15:37
20	EL.022411.154353	WG357315-05	Matrix Spike Duplica	40/100	5	L11020579-02	02/24/11 15:43
21	EL.022411.155040	WG357403-01	Post Digestion Spike		5	L11020579-02	02/24/11 15:50
22	EL.022411.155727	WG357403-02	Serial Dilution		25	L11020579-02	02/24/11 15:57
23	EL.022411.160414	WG357545-12	CCV		1		02/24/11 16:04
24	EL.022411.161130	WG357545-13	CCB		1		02/24/11 16:11
25	EL.022411.161815	L11020542-02	60500-SSP0077	40/100	100		02/24/11 16:18
26	EL.022411.162501	WG357545-14	CCV		1		02/24/11 16:25
27	EL.022411.163217	WG357545-15	CCB		1		02/24/11 16:32

Page: 1 Approved: February 24, 2011

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 022511A.REP
Analyst1: EDL Analyst2: JYH
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 36565

Calibration Std: STD43845 ICV Std: STD43557 Post Spike: STD42704
ICSA: STD43561 ICSAB: STD44048 Int. Std: STD43721
CCV: STD43914 LLCCV: STD44016

Workgroups: 357485, 357403, 357219, 357487, 357404

Comments: Due to sequencing error, samples analyzed at 14:21, 14:35, 14:41, and 15:02 were not reported.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.022511.093612	Blank	Blank		1		02/25/11 09:36
2	EL.022511.094256	WG357624-01	Calibration Point		1		02/25/11 09:42
3	EL.022511.094941	WG357624-02	Calibration Point		1		02/25/11 09:49
4	EL.022511.095626	WG357624-03	Calibration Point		1		02/25/11 09:56
5	EL.022511.100312	WG357624-04	Calibration Point		1		02/25/11 10:03
6	EL.022511.100958	WG357624-05	Initial Calibration Verification		1		02/25/11 10:09
7	EL.022511.101722	WG357624-06	Initial Calib Blank		1		02/25/11 10:17
8	EL.022511.102409	WG357624-07	Low Level Initial Calibration V		1		02/25/11 10:24
9	EL.022511.103058	WG357624-08	Interference Check		1		02/25/11 10:30
10	EL.022511.103746	WG357624-09	Interference Check		1		02/25/11 10:37
11	EL.022511.104433	WG357624-10	CCV		1		02/25/11 10:44
12	EL.022511.105149	WG357624-11	CCB		1		02/25/11 10:51
13	EL.022511.110914	WG357433-03	Method/Prep Blank	40/100	1		02/25/11 11:09
14	EL.022511.111602	WG357433-04	Laboratory Control S	40/100	1		02/25/11 11:16
15	EL.022511.112250	WG357433-02	Reference Sample		2	L11020621-01	02/25/11 11:22
16	EL.022511.112938	WG357433-07	Matrix Spike	40/100	2	L11020621-01	02/25/11 11:29
17	EL.022511.113626	WG357433-08	Duplicate	40/100	2	L11020621-01	02/25/11 11:36
18	EL.022511.114313	L11020612-03	AV-OU7-VBII-C2-022111	40/100	1		02/25/11 11:43
19	EL.022511.114959	L11020612-02	AV-OU7-VBII-C1-022111	40/100	1		02/25/11 11:49
20	EL.022511.115645	WG357485-01	Post Digestion Spike		1	L11020612-02	02/25/11 11:56
21	EL.022511.120332	WG357485-02	Serial Dilution		5	L11020612-02	02/25/11 12:03
22	EL.022511.121018	WG357624-12	CCV		1		02/25/11 12:10
23	EL.022511.121734	WG357624-13	CCB		1		02/25/11 12:17
24	EL.022511.122420	L11020609-01	CLAMW12-110222	40/100	5		02/25/11 12:24
25	EL.022511.123107	L11020609-02	LF1MW01B-110222	40/100	5		02/25/11 12:31
26	EL.022511.123754	L11020609-03	LF1MW04A-110222	40/100	5		02/25/11 12:37
27	EL.022511.124442	L11020609-04	LF7MW04-110222	40/100	5		02/25/11 12:44
28	EL.022511.125130	L11020609-05	LFD02-110222	40/100	5		02/25/11 12:51
29	EL.022511.125819	WG357433-01	Reference Sample		5	L11020609-06	02/25/11 12:58
30	EL.022511.130508	WG357433-05	Matrix Spike	40/100	5	L11020609-06	02/25/11 13:05
31	EL.022511.131157	WG357433-06	Matrix Spike Duplica	40/100	5	L11020609-06	02/25/11 13:11
32	EL.022511.131844	L11020609-08	MW95-01-110222	40/100	5		02/25/11 13:18
33	EL.022511.132531	WG357624-14	CCV		1		02/25/11 13:25
34	EL.022511.133247	WG357624-15	CCB		1		02/25/11 13:32

Page: 1 Approved: February 28, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 022511A.REP
Analyst1: EDL Analyst2: JYH
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 36565

Calibration Std: STD43845 ICV Std: STD43557 Post Spike: STD42704
ICSA: STD43561 ICSAB: STD44048 Int. Std: STD43721
CCV: STD43914 LLCCV: STD44016

Workgroups: 357485, 357403, 357219, 357487, 357404

Comments: Due to sequencing error, samples analyzed at 14:21, 14:35, 14:41, and 15:02 were not reported.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	EL.022511.134603	WG357403-03	Louisville Chem Requ		1		02/25/11 13:46
36	EL.022511.135249	L11020571-01	SWMU-57-21711-EB	40/100	1		02/25/11 13:52
37	EL.022511.135933	L11020571-02	SWMU-57-21711-FB	40/100	1		02/25/11 13:59
38	EL.022511.140618	L11020574-01	SWMU-57-1DM-21811-W	40/100	1		02/25/11 14:06
39	EL.022511.141303	L11020579-01	LH18/24-SP650-6445-GRAB	40/100	5		02/25/11 14:13
40	EL.022511.142128	L11020571-02	SWMU-57-21711-FB		5		02/25/11 14:21
41	EL.022511.142814	WG357485-03	Post Digestion Spike		5	L11020609-01	02/25/11 14:28
42	EL.022511.143501	WG357485-04	Serial Dilution		25	L11020609-01	02/25/11 14:35
43	EL.022511.144148	L11020571-02	SWMU-57-21711-FB		2		02/25/11 14:41
44	EL.022511.144835	WG357624-16	CCV		1		02/25/11 14:48
45	EL.022511.145551	WG357624-17	CCB		1		02/25/11 14:55
46	EL.022511.150236	L11020571-02	SWMU-57-21711-FB		1		02/25/11 15:02
47	EL.022511.150923	WG357624-18	CCV		1		02/25/11 15:09
48	EL.022511.151639	WG357624-19	CCB		1		02/25/11 15:16
49	EL.022511.152324	WG357434-02	Method/Prep Blank	4/100	1		02/25/11 15:23
50	EL.022511.153011	WG357434-03	Laboratory Control S	4/100	1		02/25/11 15:30
51	EL.022511.153658	WG357088-01	Fluid Blank		1		02/25/11 15:36
52	EL.022511.154345	L11020502-17	GB-81-5	4/100	5		02/25/11 15:43
53	EL.022511.155033	WG357434-01	Reference Sample		5	L11020506-11	02/25/11 15:50
54	EL.022511.155719	WG357434-04	Matrix Spike	4/100	5	L11020506-11	02/25/11 15:57
55	EL.022511.160403	WG357434-05	Matrix Spike Duplica	4/100	5	L11020506-11	02/25/11 16:04
56	EL.022511.161048	L11020506-10	GB-66-1	4/100	5		02/25/11 16:10
57	EL.022511.161740	WG357487-01	Post Digestion Spike		5	L11020506-10	02/25/11 16:17
58	EL.022511.162426	WG357487-02	Serial Dilution		25	L11020506-10	02/25/11 16:24
59	EL.022511.163112	WG357624-20	CCV		1		02/25/11 16:31
60	EL.022511.163828	WG357624-21	CCB		1		02/25/11 16:38
61	EL.022511.164513	WG357299-03	Method/Prep Blank	.5/200	1		02/25/11 16:45
62	EL.022511.165200	WG357299-04	Laboratory Control S	.5/200	1		02/25/11 16:52
63	EL.022511.165846	L11020318-01	BATA-002	.508/200	5		02/25/11 16:58
64	EL.022511.170533	L11020318-02	BATA-003	.519/200	5		02/25/11 17:05
65	EL.022511.171221	L11020318-03	BATA-004	.505/200	5		02/25/11 17:12
66	EL.022511.171909	L11020318-04	BATA-001	.501/200	5		02/25/11 17:19
67	EL.022511.172557	L11020318-05	TD-001	.534/200	5		02/25/11 17:25
68	EL.022511.173243	L11020318-06	TD-003	.514/200	5		02/25/11 17:32

Page: 2 Approved: February 28, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 022511A.REP
Analyst1: EDL Analyst2: JYH
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 36565

Calibration Std: STD43845 ICV Std: STD43557 Post Spike: STD42704
ICSA: STD43561 ICSAB: STD44048 Int. Std: STD43721
CCV: STD43914 LLCCV: STD44016

Workgroups: 357485, 357403, 357219, 357487, 357404

Comments: Due to sequencing error, samples analyzed at 14:21, 14:35, 14:41, and 15:02 were not reported.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	EL.022511.173928	WG357404-01	Post Digestion Spike		5	L11020318-06	02/25/11 17:39
70	EL.022511.174614	WG357404-02	Serial Dilution		25	L11020318-06	02/25/11 17:46
71	EL.022511.175300	WG357624-22	CCV		1		02/25/11 17:53
72	EL.022511.180016	WG357624-23	CCB		1		02/25/11 18:00
73	EL.022511.180701	L11020318-07	TD-002	.532/200	5		02/25/11 18:07
74	EL.022511.181347	WG357299-01	Reference Sample		5	L11020318-08	02/25/11 18:13
75	EL.022511.182033	WG357299-05	Matrix Spike	.507/200	5	L11020318-08	02/25/11 18:20
76	EL.022511.182720	WG357299-06	Matrix Spike Duplica	.507/200	5	L11020318-08	02/25/11 18:27
77	EL.022511.183407	WG357299-07	Matrix Spike	.5/200	5	L11020571-06	02/25/11 18:34
78	EL.022511.184054	WG357299-08	Matrix Spike Duplica	.5/200	5	L11020571-06	02/25/11 18:40
79	EL.022511.184742	L11020571-05	SWMU-57-21711-DUP	.515/200	5		02/25/11 18:47
80	EL.022511.185430	WG357299-02	Reference Sample		5	L11020571-06	02/25/11 18:54
81	EL.022511.190118	L11020571-07	SWMU-57-21711-B-2-SS-2.5	.536/200	5		02/25/11 19:01
82	EL.022511.190805	L11020571-08	SWMU-57-21711-B-2-SS-5	.513/200	5		02/25/11 19:08
83	EL.022511.191451	WG357624-24	CCV		1		02/25/11 19:14
84	EL.022511.192207	WG357624-25	CCB		1		02/25/11 19:22
85	EL.022511.192852	L11020571-09	SWMU-57-21711-B-1-SS-2.5	.502/200	5		02/25/11 19:28
86	EL.022511.193538	L11020571-10	SWMU-57-21711-B-6-SS-2.5	.518/200	5		02/25/11 19:35
87	EL.022511.194224	L11020571-11	SWMU-57-21811-B3-SS-2	.532/200	5		02/25/11 19:42
88	EL.022511.194911	L11020571-12	SWMU-57-21811-B4-SS-2.5	.542/200	5		02/25/11 19:49
89	EL.022511.195557	L11020571-13	SWMU-57-21811-B7-SS-2	.522/200	5		02/25/11 19:55
90	EL.022511.200244	L11020506-07	GB-61-1		100		02/25/11 20:02
91	EL.022511.200930	WG357624-26	CCV		1		02/25/11 20:09
92	EL.022511.201646	WG357624-27	CCB		1		02/25/11 20:16
93	EL.022511.202333	WG357624-28	QC Std 8		1		02/25/11 20:23

Comments

Seq.	Rerun	Dil.	Reason	Analytes
40			Data not used.	
42			Data not used.	
43			Data not used.	
46				

Page: 3 Approved: February 28, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP
Dataset: 022511A.REP
Analyst1: EDL
Analyst2: JYH
Method: 6020
SOP: ME700
Rev: 6
Maintenance Log ID: 36565

Calibration Std: STD43845
ICV Std: STD43557
Post Spike: STD42704
ICSA: STD43561
ICSAB: STD44048
Int. Std: STD43721
CCV: STD43914
LLCCV: STD44016

Workgroups: 357485, 357403, 357219, 357487, 357404

Comments: Due to sequencing error, samples analyzed at 14:21, 14:35, 14:41, and 15:02 were not reported.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time

Seq.	Rerun	Dil.	Reason	Analytes
			Data not used.	
90			Data not used.	

Approved: February 28, 2011
Maren Berry

Microbac Laboratories Inc.

Data Checklist

Date: 24-FEB-2011
Analyst: EDL
Analyst: JYH
Method: 6020
Instrument: ELAN-ICP
Curve Workgroup: 357545
Runlog ID: 39193
Analytical Workgroups: 357403

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	542, 579
Client Forms	X
Level X	
Level 3	579
Level 4	542
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	EDL
Secondary Reviewer	SLP
Comments	

Primary Reviewer:
24-FEB-2011

Secondary Reviewer:
02-MAR-2011

CHECKLIST1 - Modified 03/05/2008
Generated: MAR-02-2011 19:10:43

Microbac Laboratories Inc.

Data Checklist

Date: 25-FEB-2011
Analyst: EDL
Analyst: JYH
Method: 6020
Instrument: MS-ICP
Curve Workgroup: 357624
Runlog ID: 39214
Analytical Workgroups: 357485, 357403, 357219, 357487, 357404

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	609, 612, 571, 574, 579, 502, 506, 318
Client Forms	X
Level X	
Level 3	579, 502, 506
Level 4	609, 612, 571, 574, 318
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	EDL
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
28-FEB-2011
Erin D. Long

Secondary Reviewer:
28-FEB-2011
Maren Berry

CHECKLIST1 - Modified 03/05/2008
Generated: FEB-28-2011 10:58:14

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6020 AAB#: WG357403

Login Number: L11020571

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SWMU-57-21711-EB	01	02/17/11					02/23/11	6	180		02/25/11	8.2	180	
SWMU-57-21711-FB	02	02/17/11					02/23/11	6	180		02/25/11	8.2	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1930330
Report generated 02/28/2011 08:54

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6020 AAB#: WG357404

Login Number: L11020571

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SWMU-57-21711-MS	03	02/17/11					02/23/11	5.9	180		02/25/11	8.4	180	
SWMU-57-21711-MSD	04	02/17/11					02/23/11	5.9	180		02/25/11	8.4	180	
SWMU-57-21711-DUP	05	02/17/11					02/23/11	5.9	180		02/25/11	8.4	180	
SWMU-57-21711-B-5-SS-1-2	06	02/17/11					02/23/11	5.9	180		02/25/11	8.4	180	
SWMU-57-21711-B-2-SS-2.5	07	02/17/11					02/23/11	5.8	180		02/25/11	8.3	180	
SWMU-57-21711-B-2-SS-5	08	02/17/11					02/23/11	5.8	180		02/25/11	8.3	180	
SWMU-57-21711-B-1-SS-2.5	09	02/17/11					02/23/11	5.8	180		02/25/11	8.3	180	
SWMU-57-21711-B-6-SS-2.5	10	02/17/11					02/23/11	5.7	180		02/25/11	8.3	180	
SWMU-57-21811-B3-SS-2	11	02/17/11					02/23/11	5.9	180		02/25/11	8.4	180	
SWMU-57-21811-B4-SS-2.5	12	02/17/11					02/23/11	5.9	180		02/25/11	8.4	180	
SWMU-57-21811-B7-SS-2	13	02/17/11					02/23/11	5.8	180		02/25/11	8.4	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1930330
Report generated 02/28/2011 08:54

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11020571	Work Group:	WG357403
Blank File ID:	EL.022411.150319	Blank Sample ID:	WG357315-02
Prep Date:	02/23/11 08:10	Instrument ID:	ELAN-ICP
Analyzed Date:	02/24/11 15:03	Method:	6020
Analyst:	JYH		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG357315-03	EL.022411.151003	02/24/11 15:10	01
SWMU-57-21711-EB	L11020571-01	EL.022511.135249	02/25/11 13:52	01
SWMU-57-21711-FB	L11020571-02	EL.022511.135933	02/25/11 13:59	01

Report Name: BLANK_SUMMARY
PDF File ID: 1930331
Report generated 02/28/2011 08:54

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11020571
Work Group: WG357404
Blank File ID: EL.022511.164513
Blank Sample ID: WG357299-03
Prep Date: 02/23/11 06:37
Instrument ID: ELAN-ICP
Analyzed Date: 02/25/11 16:45
Method: 6020
Analyst: JYH

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG357299-04	EL.022511.165200	02/25/11 16:52	01
SWMU-57-21711-MS	L11020571-03	EL.022511.183407	02/25/11 18:34	DL01
SWMU-57-21711-MSD	L11020571-04	EL.022511.184054	02/25/11 18:40	DL01
SWMU-57-21711-DUP	L11020571-05	EL.022511.184742	02/25/11 18:47	DL01
SWMU-57-21711-B-5-SS-1-2	L11020571-06	EL.022511.185430	02/25/11 18:54	DL01
SWMU-57-21711-B-2-SS-2.5	L11020571-07	EL.022511.190118	02/25/11 19:01	DL01
SWMU-57-21711-B-2-SS-5	L11020571-08	EL.022511.190805	02/25/11 19:08	DL01
SWMU-57-21711-B-1-SS-2.5	L11020571-09	EL.022511.192852	02/25/11 19:28	DL01
SWMU-57-21711-B-6-SS-2.5	L11020571-10	EL.022511.193538	02/25/11 19:35	DL01
SWMU-57-21811-B3-SS-2	L11020571-11	EL.022511.194224	02/25/11 19:42	DL01
SWMU-57-21811-B4-SS-2.5	L11020571-12	EL.022511.194911	02/25/11 19:49	DL01
SWMU-57-21811-B7-SS-2	L11020571-13	EL.022511.195557	02/25/11 19:55	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 1930331
Report generated 02/28/2011 08:54

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020571 Prep Date: 02/23/11 08:10 Sample ID: WG357315-02
Instrument ID: ELAN-ICP Run Date: 02/24/11 15:03 Prep Method: 3015
File ID: EL.022411.150319 Analyst: JYH Method: 6020
Workgroup (AAB#): WG357403 Matrix: Water Units: mg/L
Contract #: Cal ID: ELAN-I-24-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Antimony, Total	0.000500	0.00100	0.000500	1	U
Cadmium, Total	0.000300	0.000600	0.000300	1	U
Chromium, Total	0.00100	0.00200	0.00100	1	U
Manganese, Total	0.00100	0.00200	0.00100	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1930332
28-FEB-2011 08:54

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11020571 Prep Date: 02/23/11 06:37 Sample ID: WG357299-03
Instrument ID: ELAN-ICP Run Date: 02/25/11 16:45 Prep Method: 3051A
File ID: EL.022511.164513 Analyst: JYH Method: 6020
Workgroup (AAB#): WG357404 Matrix: Soil Units: mg/kg
Contract #: Cal ID: ELAN-I-25-FEB-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Cadmium, Total	0.0500	0.100	0.0500	1	U
Chromium, Total	0.200	0.400	0.200	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1930332
28-FEB-2011 08:54

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020571 Run Date: 02/24/2011 Sample ID: WG357315-03
Instrument ID: ELAN-ICP Run Time: 15:10 Prep Method: 3015
File ID: EL.022411.151003 Analyst: JYH Method: 6020
Workgroup (AAB#): WG357403 Matrix: Water Units: mg/L
QC Key: DOD4 Lot#: STD41894 Cal ID: ELAN-I-24-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Antimony, Total	0.0625	0.0589	94.3	80 - 120	
Cadmium, Total	0.0625	0.0582	93.2	80 - 120	
Chromium, Total	0.0625	0.0661	106	80 - 120	
Manganese, Total	0.0625	0.0676	108	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1930333
Report generated: 02/28/2011 08:54

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357299-04
Instrument ID: ELAN-ICP Run Time: 16:52 Prep Method: 3051A
File ID: EL.022511.165200 Analyst: JYH Method: 6020
Workgroup (AAB#): WG357404 Matrix: Soil Units: mg/kg
QC Key: DOD4 Lot#: STD41894 Cal ID: ELAN-I-25-FEB-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Cadmium, Total	10.0	10.0	100	80 - 120	
Chromium, Total	10.0	11.0	110	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1930333
Report generated: 02/28/2011 08:54

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11020571 Cal ID:ELAN-ICP- Worknum:WG357403

Instrument ID:ELAN-ICP Contract #: Method:6020

Parent ID:WG357315-01 File ID:EL.022411.153020 Dil:5 Matrix:WATER

Sample ID:WG357315-04 MS File ID:EL.022411.153706 Dil:5 Units:mg/L

Sample ID:WG357315-05 MSD File ID:EL.022411.154353 Dil:5

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Antimony	ND	0.0625	0.0675	108	0.0625	0.0678	108	0.488	80 - 120	20	
Cadmium	ND	0.0625	0.0687	110	0.0625	0.0667	107	2.94	80 - 120	20	
Chromium	0.00316	0.0625	0.0692	106	0.0625	0.0691	106	0.0814	80 - 120	20	
Manganese	0.0145	0.0625	0.0786	103	0.0625	0.0780	102	0.800	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008

PDF File ID:1930334

Report generated 02/28/2011 08:54

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L11020571 Cal ID: ELAN-ICP- 25-FEB-11 Worknum: WG357404

Instrument ID: ELAN-ICP Contract #: Prep Method: 3051A

Parent ID: L11020571-06 File ID: EL.022511.185430 Dil: 5 Method: 6020

Sample ID: L11020571-03 MS File ID: EL.022511.183407 Dil: 5 Matrix: Soil

Sample ID: L11020571-04 MSD File ID: EL.022511.184054 Dil: 5 Units: mg/kg

Percent Solid: 100

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Cadmium, Total	0.183	10.0	10.6	104	10.0	10.5	103	1.30	80 - 120	20	
Chromium, Total	20.2	10.0	27.4	71.6	10.0	31.4	112	13.6	80 - 120	20	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

PDF File ID: 1930496

Report generated 02/28/2011 08:54

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11020571 **Worknum:** WG357403
Instrument: ELAN-ICP **Method:** 6020
Serial Dil: WG357403-02 **File ID:** EL.022411.155727 **Dil:** 25 **Units:** ug/L
Sample: L11020579-02 **File ID:** EL.022411.153020 **Dil:** 5

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Antimony	ND	U	ND	U		
Cadmium	ND	U	ND	U		
Chromium	ND	U	ND	U		
Manganese	5.8	X	ND	U		

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 100 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL.

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11020571 **Worknum:** WG357404
Instrument: ELAN-ICP **Method:** 6020
Serial Dil: WG357404-02 **File ID:** EL.022511.174614 **Dil:** 25 **Units:** ug/L
Sample: L11020318-06 **File ID:** EL.022511.173243 **Dil:** 5

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Antimony	.0015		ND			
Cadmium	ND	U	ND	U		
Chromium	178	X	170.75	X	4.07	
Manganese	3990		ND			

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 100 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1930328
02/28/2011 08:54

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11020571 **Worknum:** WG357403
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG357403-01 **File ID:** EL.022411.155040 **Dil:** 5 **Units:** ug/L
Sample ID: L11020579-02 **File ID:** EL.022411.153020 **Dil:** 5 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ANTIMONY	40.9		0	U	50	81.7	75 - 125	
CADMIUM	41.7		0	U	50	83.5	75 - 125	
CHROMIUM	40.6		0	U	50	81.3	75 - 125	
MANGANESE	42.2		1.16		50	82.2	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1930329
Report generated: 02/28/2011 08:54

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11020571 **Worknum:** WG357404
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG357404-01 **File ID:** EL.022511.173928 **Dil:** 5 **Units:** ug/L
Sample ID: L11020318-06 **File ID:** EL.022511.173243 **Dil:** 5 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
CADMIUM	52.9		0	U	50	105.7	75 - 125	
CHROMIUM	87.5		35.6		50	103.8	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1930329
Report generated: 02/28/2011 08:54

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11020571**	Workgroup (AAB#):	**WG357403**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG357545**	Initial Calibration Date:	**24-FEB-2011 14:01**

	WG357545-01		WG357545-02		WG357545-03		WG357545-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ANTIMONY	0	110	.4	1520	50	187000	100	363000	1	
CADMIUM	0	-1.29	.4	444	50	56300	100	110000	.999997	
CHROMIUM	0	8300	.4	11300	50	425000	100	825000	.999974	
MANGANESE	0	398	.4	5570	50	640000	100	1240000	.999921	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 1930338
Report generated: 28-FEB-2011 08:55

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11020571**	Workgroup (AAB#):	**WG357403**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG357624**	Initial Calibration Date:	**25-FEB-2011 10:03**

	WG357624-01		WG357624-02		WG357624-03		WG357624-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ANTIMONY	0	35.1	.4	1360	50	162000	100	314000	.99997	
CADMIUM	0	2.14	.4	368	50	47300	100	91000	.999922	
CHROMIUM	0	8090	.4	11000	50	366000	100	709000	.999994	
MANGANESE	0	448	.4	5970	50	562000	100	1070000	.999829	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 1930338
Report generated: 28-FEB-2011 08:55

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11020571**	Workgroup (AAB#):	**WG357404**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG357624**	Initial Calibration Date:	**25-FEB-2011 10:03**

	WG357624-01		WG357624-02		WG357624-03		WG357624-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ANTIMONY	0	35.1	.4	1360	50	162000	100	314000	.99997	
CADMIUM	0	2.14	.4	368	50	47300	100	91000	.999922	
CHROMIUM	0	8090	.4	11000	50	366000	100	709000	.999994	
MANGANESE	0	448	.4	5970	50	562000	100	1070000	.999829	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 1930338
Report generated: 28-FEB-2011 08:55

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11020571 Run Date: 02/24/2011 Sample ID: WG357545-06
Instrument ID: ELAN-ICP Run Time: 14:15 Method: 6020
File ID: EL.022411.141523 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG357403 Cal ID: ELAN-ICP - 24-FEB-11
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
CADMIUM	.12	.24	.12	U
CHROMIUM	.4	.8	.4	U
MANGANESE	.4	.8	.4	U
ANTIMONY	.2	.4	.2	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1930340
Report generated 02/28/2011 08:55

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-06
Instrument ID: ELAN-ICP Run Time: 10:17 Method: 6020
File ID: EL.022511.101722 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG357403 Cal ID: ELAN-ICP - 25-FEB-11
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
CADMIUM	.12	.24	.12	U
CHROMIUM	.4	.8	.4	U
MANGANESE	.4	.8	.4	U
ANTIMONY	.2	.4	.2	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1930340
Report generated 02/28/2011 08:55

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-06
Instrument ID: ELAN-ICP Run Time: 10:17 Method: 6020
File ID: EL.022511.101722 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG357404 Cal ID: ELAN-ICP - 25-FEB-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
CADMIUM	.125	.25	.125	U
CHROMIUM	.5	1	.5	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1930340
Report generated 02/28/2011 08:55

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/24/2011 Sample ID: WG357545-11

Instrument ID: ELAN-ICP Run Time: 14:49 Method: 6020

File ID: EL.022411.144950 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 24-FEB-11

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Cadmium	0.120	0.240	0.120	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1930352
Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/24/2011 Sample ID: WG357545-13

Instrument ID: ELAN-ICP Run Time: 16:11 Method: 6020

File ID: EL.022411.161130 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 24-FEB-11

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Cadmium	0.120	0.240	0.120	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1930352
Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-11

Instrument ID: ELAN-ICP Run Time: 10:51 Method: 6020

File ID: EL.022511.105149 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 25-FEB-11

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Cadmium	0.120	0.240	0.120	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1930352
Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-15

Instrument ID: ELAN-ICP Run Time: 13:32 Method: 6020

File ID: EL.022511.133247 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 25-FEB-11

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Cadmium	0.120	0.240	0.120	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1930352
Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-17

Instrument ID: ELAN-ICP Run Time: 14:55 Method: 6020

File ID: EL.022511.145551 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 25-FEB-11

Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Antimony	0.200	0.400	0.200	U
Cadmium	0.120	0.240	0.120	U
Chromium	0.400	0.800	0.400	U
Manganese	0.400	0.800	0.400	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1930352
Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-11

Instrument ID: ELAN-ICP Run Time: 10:51 Method: 6020

File ID: EL.022511.105149 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG357404 Cal ID: ELAN-I - 25-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1930352
Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-21

Instrument ID: ELAN-ICP Run Time: 16:38 Method: 6020

File ID: EL.022511.163828 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG357404 Cal ID: ELAN-I - 25-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1930352
Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-23

Instrument ID: ELAN-ICP Run Time: 18:00 Method: 6020

File ID: EL.022511.180016 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG357404 Cal ID: ELAN-I - 25-FEB-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1930352
Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020571	Run Date:	02/25/2011	Sample ID:	WG357624-25
Instrument ID:	ELAN-ICP	Run Time:	19:22	Method:	6020
File ID:	EL.022511.192207	Analyst:	JYH	Units:	ug/L
Workgroup (AAB#):	WG357404	Cal ID:	ELAN-I - 25-FEB-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1930352
Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11020571	Run Date:	02/25/2011	Sample ID:	WG357624-27
Instrument ID:	ELAN-ICP	Run Time:	20:16	Method:	6020
File ID:	EL.022511.201646	Analyst:	JYH	Units:	ug/L
Workgroup (AAB#):	WG357404	Cal ID:	ELAN-I - 25-FEB-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1930352
Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L11020571 Run Date: 02/24/2011 Sample ID: WG357545-05
Instrument ID: ELAN-ICP Run Time: 14:07 Method: 6020
File ID: EL.022411.140759 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 24-FEB-11
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Antimony		50	48.6	97.2	90 - 110	
Cadmium		50	47.9	95.8	90 - 110	
Chromium		50	49.8	99.6	90 - 110	
Manganese		50	50.3	101	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1930339
Report generated 02/28/2011 08:55

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-05
Instrument ID: ELAN-ICP Run Time: 10:09 Method: 6020
File ID: EL.022511.100958 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 25-FEB-11
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Antimony		50	49.0	98.0	90 - 110	
Cadmium		50	47.7	95.3	90 - 110	
Chromium		50	50.9	102	90 - 110	
Manganese		50	50.0	99.9	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1930339
Report generated 02/28/2011 08:55

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-05
Instrument ID: ELAN-ICP Run Time: 10:09 Method: 6020
File ID: EL.022511.100958 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG357404 Cal ID: ELAN-I - 25-FEB-11
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Cadmium		50	47.7	95.3	90 - 110	
Chromium		50	50.9	102	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1930339
Report generated 02/28/2011 08:55

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/24/2011 Sample ID: WG357545-10

Instrument ID: ELAN-ICP Run Time: 14:42 Method: 6020

File ID: EL.022411.144234 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 24-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	50.2	ug/L	100	90 - 110		
Cadmium		50.0	50.7	ug/L	101	90 - 110		
Chromium		50.0	49.0	ug/L	98.0	90 - 110		
Manganese		50.0	48.8	ug/L	97.6	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1930351

Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/24/2011 Sample ID: WG357545-12

Instrument ID: ELAN-ICP Run Time: 16:04 Method: 6020

File ID: EL.022411.160414 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 24-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	48.5	ug/L	97.0	90 - 110		
Cadmium		50.0	49.0	ug/L	98.1	90 - 110		
Chromium		50.0	48.4	ug/L	96.9	90 - 110		
Manganese		50.0	49.2	ug/L	98.3	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1930351

Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-10

Instrument ID: ELAN-ICP Run Time: 10:44 Method: 6020

File ID: EL.022511.104433 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 25-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	49.6	ug/L	99.2	90 - 110		
Cadmium		50.0	48.8	ug/L	97.7	90 - 110		
Chromium		50.0	50.6	ug/L	101	90 - 110		
Manganese		50.0	50.6	ug/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1930351

Report generated 02/28/2011 08:56

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-14
Instrument ID: ELAN-ICP Run Time: 13:25 Method: 6020
File ID: EL.022511.132531 Analyst: JYH QC Key: DOD4
Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 25-FEB-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	50.2	ug/L	100	90 - 110		
Cadmium		50.0	48.5	ug/L	97.0	90 - 110		
Chromium		50.0	49.6	ug/L	99.2	90 - 110		
Manganese		50.0	49.4	ug/L	98.9	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1930351
Report generated 02/28/2011 08:56

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-16
Instrument ID: ELAN-ICP Run Time: 14:48 Method: 6020
File ID: EL.022511.144835 Analyst: JYH QC Key: DOD4
Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 25-FEB-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		50.0	51.9	ug/L	104	90 - 110		
Cadmium		50.0	51.4	ug/L	103	90 - 110		
Chromium		50.0	50.8	ug/L	102	90 - 110		
Manganese		50.0	50.5	ug/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1930351
Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-10

Instrument ID: ELAN-ICP Run Time: 10:44 Method: 6020

File ID: EL.022511.104433 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357404 Cal ID: ELAN-I - 25-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	48.8	ug/L	97.7	90 - 110		
Chromium		50.0	50.6	ug/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1930351

Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-20

Instrument ID: ELAN-ICP Run Time: 16:31 Method: 6020

File ID: EL.022511.163112 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357404 Cal ID: ELAN-I - 25-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	49.9	ug/L	99.8	90 - 110		
Chromium		50.0	50.8	ug/L	102	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1930351

Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-22

Instrument ID: ELAN-ICP Run Time: 17:53 Method: 6020

File ID: EL.022511.175300 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357404 Cal ID: ELAN-I - 25-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	50.5	ug/L	101	90 - 110		
Chromium		50.0	51.8	ug/L	104	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1930351

Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-24

Instrument ID: ELAN-ICP Run Time: 19:14 Method: 6020

File ID: EL.022511.191451 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357404 Cal ID: ELAN-I - 25-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	51.3	ug/L	103	90 - 110		
Chromium		50.0	51.1	ug/L	102	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1930351

Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-26

Instrument ID: ELAN-ICP Run Time: 20:09 Method: 6020

File ID: EL.022511.200930 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357404 Cal ID: ELAN-I - 25-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	49.4	ug/L	98.8	90 - 110		
Chromium		50.0	51.0	ug/L	102	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1930351

Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

LOW LEVEL CALIBRATION VERIFICATION

Login Number: L11020571 Run Date: 02/24/2011 Sample ID: WG357545-07

Instrument ID: ELAN-ICP Run Time: 14:22 Method: 6020

File ID: EL.022411.142210 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 24-FEB-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		0.400	0.444	ug/L	111	80 - 120		
Cadmium		0.200	0.202	ug/L	101	80 - 120		
Chromium		0.800	0.850	ug/L	106	80 - 120		
Manganese		0.500	0.508	ug/L	102	80 - 120		

* Exceeds LIMITS Criteria

LLCCV - Modified 1/7/2010

PDF File ID: 1930353

Report generated 02/28/2011 08:56

Microbac Laboratories Inc.
LOW LEVEL CALIBRATION VERIFICATION

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-07
Instrument ID: ELAN-ICP Run Time: 10:24 Method: 6020
File ID: EL.022511.102409 Analyst: JYH QC Key: DOD4
Workgroup (AAB#): WG357403 Cal ID: ELAN-I - 25-FEB-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Antimony		0.400	0.415	ug/L	104	80 - 120		
Cadmium		0.200	0.202	ug/L	101	80 - 120		
Chromium		0.800	0.812	ug/L	101	80 - 120		
Manganese		0.500	0.420	ug/L	84.0	80 - 120		

* Exceeds LIMITS Criteria

LLCCV - Modified 1/7/2010
PDF File ID: 1930353
Report generated 02/28/2011 08:56

Microbac Laboratories Inc.

LOW LEVEL CALIBRATION VERIFICATION

Login Number: L11020571 Run Date: 02/25/2011 Sample ID: WG357624-07

Instrument ID: ELAN-ICP Run Time: 10:24 Method: 6020

File ID: EL.022511.102409 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG357404 Cal ID: ELAN-I - 25-FEB-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		0.200	0.202	ug/L	101	80 - 120		
Chromium		0.800	0.812	ug/L	101	80 - 120		

* Exceeds LIMITS Criteria

LLCCV - Modified 1/7/2010

PDF File ID: 1930353

Report generated 02/28/2011 08:56

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11020571 **Workgroup (AAB#):** WG357403
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG357545-08 **File ID:** EL.022411.142859 **Units:** ug/L
Sol. AB : WG357545-09 **File ID:** EL.022411.143546 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Antimony	NS	0.0541	NS	100	104	104	
Cadmium	NS	0.0607	NS	100	102	102	
Chromium	NS	0.108	NS	100	95.9	95.9	
Manganese	NS	0.275	NS	100	98.3	98.3	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1930349
Report generated 02/28/2011 08:55

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11020571 **Workgroup (AAB#):** WG357403
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG357624-08 **File ID:** EL.022511.103058 **Units:** ug/L
Sol. AB : WG357624-09 **File ID:** EL.022511.103746 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Antimony	NS	0.0521	NS	100	101	101	
Cadmium	NS	0.0877	NS	100	105	105	
Chromium	NS	0.0419	NS	100	102	102	
Manganese	NS	0.190	NS	100	103	103	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11020571 **Workgroup (AAB#):** WG357404
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG357624-08 **File ID:** EL.022511.103058 **Units:** ug/L
Sol. AB : WG357624-09 **File ID:** EL.022511.103746 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Cadmium	NS	0.0877	NS	100	105	105	
Chromium	NS	0.0419	NS	100	102	102	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1930349
Report generated 02/28/2011 08:55

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L11020571 **Analytical Method:** 6020
Analytical Workgroup: WG357403 **Matrix:** 1
Instrument: ELAN-ICP **Analyst:** JYH
ICAL Date: 24-FEB-2011 13:40

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L11020579-02	SAMP	24-FEB-2011 15:30	90.624	94.18	92.081	92.671
WG357258-01	FBLK	24-FEB-2011 15:16	100.264	94.464	97.343	101.254
WG357315-01	REF	24-FEB-2011 15:30	90.624	94.18	92.081	92.671
WG357315-02	BLANK	24-FEB-2011 15:03	98.59	94.768	96.442	98.818
WG357315-03	LCS	24-FEB-2011 15:10	98.877	94.043	97.133	99.335
WG357315-04	MS	24-FEB-2011 15:37	101.099	97.163	95.957	98.615
WG357315-05	MSD	24-FEB-2011 15:43	88.538	92.673	88.65	92.98
WG357403-01	PSPK	24-FEB-2011 15:50	98.426	98.055	96.737	98.62
WG357403-02	SERIAL	24-FEB-2011 15:57	100.29	98.622	98.879	99.159
WG357403-03	QCMRL	24-FEB-2011 14:56	96.425	94.117	91.73	93.411
WG357545-05	ICV	24-FEB-2011 14:07	103.362	97.392	98.723	99.955
WG357545-06	ICB	24-FEB-2011 14:15	102.481	98.465	97.979	98.873
WG357545-07	LLICV	24-FEB-2011 14:22	89.676	92.273	87.727	91.561
WG357545-08	ICS	24-FEB-2011 14:28	89.76	91.112	89.901	89.398
WG357545-09	ICS	24-FEB-2011 14:35	88.297	90.58	85.936	86.148
WG357545-10	CCV	24-FEB-2011 14:42	88.923	90.873	87.979	88.357
WG357545-11	CCB	24-FEB-2011 14:49	94.77	94.45	92.5	94.345
WG357545-12	CCV	24-FEB-2011 16:04	106.924	101.68	101.114	100.877
WG357545-13	CCB	24-FEB-2011 16:11	102.71	100.075	99.452	102.592

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1930337
Report generated: 02/28/2011 08:55

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L11020571 **Analytical Method:** 6020
Analytical Workgroup: WG357403 **Matrix:** 1
Instrument: ELAN-ICP **Analyst:** JYH
ICAL Date: 25-FEB-2011 09:42

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L11020571-01	SAMP	25-FEB-2011 13:52	99.377	94.963	99.904	99.025
L11020571-02	SAMP	25-FEB-2011 13:59	94.881	93.94	95.214	96.899
WG357403-03	QCMRL	25-FEB-2011 13:46	99.502	97.479	98.693	96.497
WG357624-05	ICV	25-FEB-2011 10:09	96.837	96.841	97.744	98.965
WG357624-06	ICB	25-FEB-2011 10:17	94.749	96.872	97.555	97.298
WG357624-07	LLICV	25-FEB-2011 10:24	93.397	96.734	98.865	98.139
WG357624-08	ICS	25-FEB-2011 10:30	90.127	94.197	95.065	94.777
WG357624-09	ICS	25-FEB-2011 10:37	87.049	87.514	90.298	92.23
WG357624-10	CCV	25-FEB-2011 10:44	91.135	91.32	94.396	97.254
WG357624-11	CCB	25-FEB-2011 10:51	92.766	91.237	93.604	95.948
WG357624-14	CCV	25-FEB-2011 13:25	90.387	92.921	92.618	92.447
WG357624-15	CCB	25-FEB-2011 13:32	94.219	94.121	96.705	95.857
WG357624-16	CCV	25-FEB-2011 14:48	87.123	89.809	89.49	88.254
WG357624-17	CCB	25-FEB-2011 14:55	91.905	92.785	92.495	92.77

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1930337
Report generated: 02/28/2011 08:55

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L11020571 **Analytical Method:** 6020
Analytical Workgroup: WG357404 **Matrix:** 7
Instrument: ELAN-ICP **Analyst:** JYH
ICAL Date: 25-FEB-2011 09:42

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L11020318-06	SAMP	25-FEB-2011 17:32	99.57	102.279	100.213	98.92
L11020571-03	SAMP	25-FEB-2011 18:34	101.798	104.438	101.625	98.506
L11020571-04	SAMP	25-FEB-2011 18:40	102.695	105.128	101.719	99.134
L11020571-05	SAMP	25-FEB-2011 18:47	101.253	105.726	100.144	99.498
L11020571-06	SAMP	25-FEB-2011 18:54	100.004	106.412	102.513	98.727
L11020571-07	SAMP	25-FEB-2011 19:01	100.255	104.051	100.258	97.721
L11020571-08	SAMP	25-FEB-2011 19:08	97.092	103.745	98.902	96.38
L11020571-09	SAMP	25-FEB-2011 19:28	97.746	103.926	98.894	96.808
L11020571-10	SAMP	25-FEB-2011 19:35	98.676	103.738	98.656	96.458
L11020571-11	SAMP	25-FEB-2011 19:42	97.919	102.118	99.015	97.432
L11020571-12	SAMP	25-FEB-2011 19:49	98.987	104.962	99.811	96.302
L11020571-13	SAMP	25-FEB-2011 19:55	98.112	105.182	99.067	97.341
WG357299-01	REF	25-FEB-2011 18:13	96.904	98.991	95.596	95.868
WG357299-02	REF	25-FEB-2011 18:54	100.004	106.412	102.513	98.727
WG357299-03	BLANK	25-FEB-2011 16:45	99.07	98.807	99.717	101.187
WG357299-04	LCS	25-FEB-2011 16:52	98.936	98.373	102.078	101.424
WG357299-05	MS	25-FEB-2011 18:20	98.112	98.84	97.241	97.264
WG357299-06	MSD	25-FEB-2011 18:27	97.73	98.921	96.737	97.157
WG357299-07	MS	25-FEB-2011 18:34	101.798	104.438	101.625	98.506
WG357299-08	MSD	25-FEB-2011 18:40	102.695	105.128	101.719	99.134
WG357404-01	PSPK	25-FEB-2011 17:39	98.082	102.832	100.717	98.023
WG357404-02	SERIAL	25-FEB-2011 17:46	98.302	102.866	100.021	97.031
WG357624-05	ICV	25-FEB-2011 10:09	96.837	96.841	97.744	98.965
WG357624-06	ICB	25-FEB-2011 10:17	94.749	96.872	97.555	97.298
WG357624-07	LLICV	25-FEB-2011 10:24	93.397	96.734	98.865	98.139
WG357624-08	ICS	25-FEB-2011 10:30	90.127	94.197	95.065	94.777
WG357624-09	ICS	25-FEB-2011 10:37	87.049	87.514	90.298	92.23
WG357624-10	CCV	25-FEB-2011 10:44	91.135	91.32	94.396	97.254
WG357624-11	CCB	25-FEB-2011 10:51	92.766	91.237	93.604	95.948
WG357624-20	CCV	25-FEB-2011 16:31	99.026	101.116	101.665	100.748
WG357624-21	CCB	25-FEB-2011 16:38	97.489	98.199	98.696	98.396
WG357624-22	CCV	25-FEB-2011 17:53	95.978	98.741	95.882	96.163
WG357624-23	CCB	25-FEB-2011 18:00	100.397	101.763	99.784	98.868
WG357624-24	CCV	25-FEB-2011 19:14	96.111	101.229	98.178	97.845
WG357624-25	CCB	25-FEB-2011 19:22	100.852	106.025	102.015	100.113
WG357624-26	CCV	25-FEB-2011 20:09	86.985	93.603	90.883	89.286
WG357624-27	CCB	25-FEB-2011 20:16	85.488	93.989	89.032	86.848

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1930337
Report generated: 02/28/2011 08:55

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L11020571 **Date:** 12/07/2010
Insturment ID: ELAN-ICP **Method:** 6020

Analyte	Integration Time (Sec.)	Concentration (ug/L)
Antimony	1.00	100.0
Arsenic	1.00	100.0
Barium	1.00	100.0
Cadmium	1.00	100.0
Chromium	1.00	100.0
Cobalt	1.00	100.0
Copper	1.00	100.0
Lead	1.00	100.0
Manganese	1.00	100.0
Nickel	1.00	100.0
Selenium	1.00	100.0
Silver	1.00	100.0
Thallium	1.00	100.0
Uranium	1.00	100.0
Vanadium	1.00	100.0
Zinc	1.00	100.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1930335
Report generated: 02/28/2011 08:55

2.1.2.3 Raw Data

Instrument Tuning Report

File Name: 06302008.tun
File Path: C:\Elandata\Tuning\06302008.tun

Sample Information

Sample Date/Time: Thursday, February 24, 2011 08:11:18

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	626	2060	0.691	
Li	7.016	7.029	1591	2060	0.697	
Co	58.933	58.928	14285	1972	0.710	
Ce	139.905	139.929	33997	2015	0.724	
Tl	204.975	205.027	49701	2255	0.718	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	1.233
3.000	1.394
4.000	20.319
5.000	13.289
6.000	1.449
7.000	2.302
8.000	16.938
9.000	2.897
58.000	2.658
59.000	1.755
60.000	2.294
139.000	3.786
140.000	0.972
141.000	8.246
204.000	1.328
205.000	1.098
206.000	0.796

Report Date/Time: Thursday, February 24, 2011 08:12:29
Page 1

Approved: February 25, 2011

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Thursday, February 24, 2011 08:20:28
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\elandata\Dataset\021011\Sample.708
Tuning File: C:\Elandata\Tuning\06302008.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	64651.0	64651.023	462.491	0.7
	Rh	102.9	384588.8	384588.813	2369.233	0.6
	In	114.9	578775.1	578775.086	3381.270	0.6
	Pb	208.0	233837.5	233837.457	1200.538	0.5
	U	238.1	45.9	45.900	4.547	9.9
⌈>	Ba	137.9	322871.0	322871.007	2484.615	0.8
⌊	Ba++	69.0	5129.7	0.016	0.000	0.3
⌈>	Ce	139.9	404942.8	404942.797	4231.073	1.0
⌊	CeO	155.9	10721.9	0.026	0.001	2.0
	Bkgd	220.0	7.9	7.900	2.162	27.4
	Ar2	79.9	4898428.8	4898428.819	40267.311	0.8

Current Optimization File Data

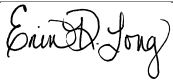
Current Value	Description
0.95	Nebulizer Gas Flow
6.70	Lens Voltage
1500.00	ICP RF Power
-1834.38	Analog Stage Voltage
1000.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	7.5	4793.5
Co	59	33	8.0	129402.2
Rh	103	33	9.0	140311.8
Pb	208	33	11.3	172960.6

Sample ID: Sample
Report Date/Time: Thursday, February 24, 2011 08:22:36
Page 1

Approved: February 25, 2011



Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, February 24, 2011 13:34:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

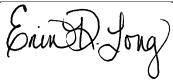
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21556.673					ug/L
|	Be	9	5.333					ug/L
|	Al	27	4767.814					ug/L
|>	Sc	45	289790.106					ug/L
⌈	Ti	49	43.338					ug/L
|	V	51	2343.046					ug/L
|	Cr	52	7966.586					ug/L
|	Cr	53	326.705					ug/L
|	Mn	55	327.342					ug/L
|	Co	59	91.335					ug/L
|	Ni	60	41.334					ug/L
|	Cu	65	134.669					ug/L
|	Zn	66	477.350					ug/L
|>	Ge	72	462018.097					ug/L
|	As	75	-178.277					ug/L
|	Se	77	60.000					ug/L
|	Se	82	2.913					ug/L
⌊	Rb	85	15.667					mg/L
	Y	89	288209.712					ug/L
	Rh	103	9.000					ug/L
⌈	Mo	98	35.640					ug/L
|	Ag	107	17.667					ug/L
|	Cd	114	1.600					ug/L
|>	In	115	357850.154					ug/L
|	Sn	118	80.134					ug/L
⌊	Sb	123	155.912					ug/L
⌈	Ba	135	13.667					ug/L
|	Ce	140	16.668					ug/L
⌊>	Tb	159	484089.171					ug/L
⌈	Ho	165	3.334					ug/L
|	Tl	203	24.667					ug/L
|	Tl	205	20.002					ug/L
|	Pb	206	342.676					ug/L
|	Pb	207	310.675					ug/L
|	Pb	208	1389.385					ug/L
|	U	238	29.334					ug/L
⌊>	Bi	209	452625.593					ug/L

Sample ID: Blank
Report Date/Time: Thursday, February 24, 2011 13:36:24
Page 1

Approved: February 25, 2011



Na	23	18682.677		mg/L
Mg	24	220.024		mg/L
K	39	557107.643		mg/L
Ca	43	203.356		mg/L
Fe	54	47500.285		mg/L
Fe	57	7246.684		mg/L
Sc-1	45	289790.106		mg/L
Cl	35	16916.311		mg/L
Kr	83	48.334		mg/L
Br	81	9048.094		mg/L
P	31	11327.815		mg/L
S	34	199530.106		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209					
Na	23					

Sample ID: Blank
Report Date/Time: Thursday, February 24, 2011 13:36:24

Approved: February 25, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Thursday, February 24, 2011 13:36:24
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, February 24, 2011 13:40:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21473.076	0.00				ug/L
|	Be	9	9.333	0.00				ug/L
|	Al	27	3784.052	-0.00				ug/L
⌊>	Sc	45	284254.189	284254.19				ug/L
⌈	Ti	49	70.007	0.00				ug/L
|	V	51	2465.290	0.00				ug/L
|	Cr	52	8300.195	0.00				ug/L
|	Cr	53	346.707	0.00				ug/L
|	Mn	55	398.012	0.00				ug/L
|	Co	59	91.001	-0.00				ug/L
|	Ni	60	30.667	-0.00				ug/L
|	Cu	65	122.669	-0.00				ug/L
|	Zn	66	506.018	0.00				ug/L
|>	Ge	72	463118.025	463118.03				ug/L
|	As	75	-157.026	0.00				ug/L
|	Se	77	69.334	0.00				ug/L
|	Se	82	2.252	-0.00				ug/L
⌊	Rb	85	20.000	0.00				mg/L
	Y	89	279565.691	-8644.02				ug/L
	Rh	103	6.333	-2.67				ug/L
⌈	Mo	98	32.571	-0.00				ug/L
|	Ag	107	20.000	0.00				ug/L
|	Cd	114	-1.286	-0.00				ug/L
|>	In	115	352967.544	352967.54				ug/L
|	Sn	118	87.200	0.00				ug/L
⌊	Sb	123	110.202	-0.00				ug/L
⌈	Ba	135	9.333	-0.00				ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	489190.317	489190.32				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	20.334	-0.00				ug/L
|	Tl	205	40.004	0.00				ug/L
|	Pb	206	346.676	-0.00				ug/L
|	Pb	207	315.008	-0.00				ug/L
|	Pb	208	1439.722	-0.00				ug/L
|	U	238	23.667	-0.00				ug/L
⌊>	Bi	209	478255.632	478255.63				ug/L

Sample ID: Standard 1
Report Date/Time: Thursday, February 24, 2011 13:43:08
Page 1

Approved: February 25, 2011

⌈	Na	23	18685.992	0.00		mg/L
|	Mg	24	253.362	0.00		mg/L
|	K	39	562212.260	0.06		mg/L
|	Ca	43	140.015	-0.00		mg/L
|	Fe	54	45240.136	-0.00		mg/L
|	Fe	57	7480.212	0.00		mg/L
⌊>	Sc-1	45	284254.189	284254.19		mg/L
	Cl	35	16918.302	1.99		mg/L
	Kr	83	47.667	-0.67		mg/L
	Br	81	8699.787	-348.31		mg/L
	P	31	12555.980	1228.16		mg/L
	S	34	213151.278	13621.17		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 1
Report Date/Time: Thursday, February 24, 2011 13:43:08
Page 2

Approved: February 25, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Thursday, February 24, 2011 13:43:08
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, February 24, 2011 13:47:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20988.775	-0.00				ug/L
|	Be	9	120.001	0.00				ug/L
|	Al	27	6118.559	0.00				ug/L
⌊>	Sc	45	286995.172	286995.17				ug/L
⌈	Ti	49	596.744	0.00				ug/L
|	V	51	6373.366	0.01				ug/L
|	Cr	52	11282.808	0.01				ug/L
|	Cr	53	643.419	0.00				ug/L
|	Mn	55	5567.273	0.01				ug/L
|	Co	59	4237.273	0.01				ug/L
|	Ni	60	933.720	0.00				ug/L
|	Cu	65	1017.729	0.00				ug/L
|	Zn	66	1010.395	0.00				ug/L
|>	Ge	72	458793.554	458793.55				ug/L
|	As	75	258.501	0.00				ug/L
|	Se	77	98.000	0.00				ug/L
|	Se	82	41.995	0.00				ug/L
⌊	Rb	85	40.334	0.00				mg/L
	Y	89	282717.394	-5492.32				ug/L
	Rh	103	7.667	-1.33				ug/L
⌈	Mo	98	1825.975	0.01				ug/L
|	Ag	107	1842.855	0.01				ug/L
|	Cd	114	443.805	0.00				ug/L
|>	In	115	351948.710	351948.71				ug/L
|	Sn	118	1663.472	0.00				ug/L
⌊	Sb	123	1515.624	0.00				ug/L
⌈	Ba	135	638.360	0.00				ug/L
|	Ce	140	16.668	0.00				ug/L
⌊>	Tb	159	487742.776	487742.78				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	2767.077	0.01				ug/L
|	Tl	205	6506.103	0.01				ug/L
|	Pb	206	2550.017	0.00				ug/L
|	Pb	207	2361.636	0.00				ug/L
|	Pb	208	10619.339	0.02				ug/L
|	U	238	14097.413	0.03				ug/L
⌊>	Bi	209	452299.690	452299.69				ug/L

Sample ID: Standard 2
Report Date/Time: Thursday, February 24, 2011 13:49:53
Page 1

Approved: February 25, 2011

⌈	Na	23	249668.221	0.81		mg/L
|	Mg	24	146699.904	0.51		mg/L
|	K	39	937790.119	1.35		mg/L
|	Ca	43	993.483	0.00		mg/L
|	Fe	54	70623.169	0.08		mg/L
|	Fe	57	17734.153	0.04		mg/L
⌊>	Sc-1	45	286995.172	286995.17		mg/L
	Cl	35	16781.404	-134.91		mg/L
	Kr	83	39.000	-9.33		mg/L
	Br	81	8961.360	-86.73		mg/L
	P	31	10897.312	-430.50		mg/L
	S	34	205117.022	5586.92		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 2
Report Date/Time: Thursday, February 24, 2011 13:49:53
Page 2

Approved: February 25, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Thursday, February 24, 2011 13:49:53
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Thursday, February 24, 2011 13:54:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21957.903	0.00				ug/L
|	Be	9	15456.622	0.05	50.0000	4.358	8.717	ug/L
|	Al	27	301742.068	1.04	50.0000	4.505	9.011	ug/L
⌊>	Sc	45	286021.806	286021.81				ug/L
⌈	Ti	49	64413.369	0.14	100.0000	3.669	3.669	ug/L
|	V	51	509803.946	1.11	50.0000	0.597	1.195	ug/L
|	Cr	52	425368.389	0.92	50.0000	0.816	1.631	ug/L
|	Cr	53	48984.574	0.11	50.0000	0.147	0.293	ug/L
|	Mn	55	639941.887	1.40	50.0000	1.711	3.422	ug/L
|	Co	59	531348.304	1.17	50.0000	1.740	3.480	ug/L
|	Ni	60	111080.990	0.24	50.0000	0.150	0.300	ug/L
|	Cu	65	115197.335	0.25	50.0000	0.813	1.626	ug/L
|	Zn	66	66588.698	0.15	50.0000	1.185	2.370	ug/L
| >	Ge	72	455752.131	455752.13				ug/L
|	As	75	51814.235	0.11	50.0000	0.396	0.791	ug/L
|	Se	77	3859.412	0.01	50.0000	1.372	2.744	ug/L
|	Se	82	4729.846	0.01	50.0000	1.559	3.119	ug/L
⌊	Rb	85	1966.213	0.00				mg/L
	Y	89	278030.192	-10179.52				ug/L
	Rh	103	29.667	20.67				ug/L
⌈	Mo	98	232664.454	0.65	100.0000	2.185	2.185	ug/L
|	Ag	107	233764.972	0.66	50.0000	1.076	2.152	ug/L
|	Cd	114	56294.826	0.16	50.0000	2.099	4.197	ug/L
| >	In	115	356024.047	356024.05				ug/L
|	Sn	118	199337.007	0.56	50.0000	0.894	1.788	ug/L
⌊	Sb	123	187148.203	0.53	50.0000	1.033	2.066	ug/L
⌈	Ba	135	81105.073	0.17	50.0000	0.602	1.205	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	490746.741	490746.74				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	359551.794	0.78	50.0000	1.896	3.791	ug/L
|	Tl	205	899100.934	1.96	50.0000	1.819	3.639	ug/L
|	Pb	206	292458.648	0.64	50.0000	1.237	2.475	ug/L
|	Pb	207	269085.844	0.59	50.0000	0.229	0.457	ug/L
|	Pb	208	1205044.994	2.62	50.0000	0.380	0.761	ug/L
|	U	238	1863345.225	4.06	50.0000	0.569	1.137	ug/L
⌊>	Bi	209	458805.440	458805.44				ug/L

Sample ID: Standard 3
Report Date/Time: Thursday, February 24, 2011 13:56:39
Page 1

Approved: February 25, 2011

⌈	Na	23	28877915.267	101.06	5.0000	0.265	5.290	mg/L
|	Mg	24	17931312.526	62.77	5.0000	0.242	4.843	mg/L
|	K	39	44860177.220	155.06	5.0000	0.164	3.280	mg/L
|	Ca	43	96826.298	0.34	5.0000	0.145	2.894	mg/L
|	Fe	54	3220635.132	11.11	5.0000	0.261	5.214	mg/L
|	Fe	57	1336520.735	4.65	5.0000	0.100	1.998	mg/L
⌊>	Sc-1	45	286021.806	286021.81				mg/L
	Cl	35	18766.270	1849.96				mg/L
	Kr	83	39.000	-9.33				mg/L
	Br	81	8641.739	-406.36				mg/L
	P	31	13730.774	2402.96				mg/L
	S	34	242706.698	43176.59				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 3
Report Date/Time: Thursday, February 24, 2011 13:56:39
Page 2

Approved: February 25, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Thursday, February 24, 2011 13:56:39
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Thursday, February 24, 2011 14:01:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21406.227	0.01				ug/L
|	Be	9	30515.237	0.11	102.8560	3.251	3.161	ug/L
|	Al	27	592413.264	2.21	102.9534	3.372	3.275	ug/L
⌊>	Sc	45	265769.591	265769.59				ug/L
⌈	Ti	49	126001.815	0.28	198.5620	7.286	3.669	ug/L
|	V	51	990796.425	2.18	99.0368	2.895	2.924	ug/L
|	Cr	52	825138.640	1.81	99.2844	0.805	0.811	ug/L
|	Cr	53	96496.496	0.21	99.7173	1.896	1.902	ug/L
|	Mn	55	1239240.921	2.74	98.7552	2.922	2.959	ug/L
|	Co	59	1028607.782	2.27	98.7147	3.307	3.350	ug/L
|	Ni	60	214033.763	0.47	98.5003	2.357	2.393	ug/L
|	Cu	65	217850.980	0.48	97.5739	2.958	3.032	ug/L
|	Zn	66	128514.845	0.28	98.7425	2.030	2.056	ug/L
| >	Ge	72	452565.006	452565.01				ug/L
|	As	75	102109.323	0.23	99.5409	0.639	0.642	ug/L
|	Se	77	7261.970	0.02	97.7229	1.265	1.295	ug/L
|	Se	82	9260.984	0.02	99.3179	3.804	3.831	ug/L
⌊	Rb	85	3819.101	0.01				mg/L
	Y	89	272123.474	-16086.24				ug/L
	Rh	103	38.667	29.67				ug/L
⌈	Mo	98	465440.691	1.35	202.9482	1.357	0.669	ug/L
|	Ag	107	461375.608	1.33	100.8085	0.359	0.356	ug/L
|	Cd	114	109790.220	0.32	100.2238	0.744	0.742	ug/L
| >	In	115	345674.332	345674.33				ug/L
|	Sn	118	387212.888	1.12	100.0267	1.254	1.254	ug/L
⌊	Sb	123	362973.956	1.05	99.9403	2.959	2.961	ug/L
⌈	Ba	135	161252.324	0.33	100.2807	2.979	2.970	ug/L
|	Ce	140	83.342	0.00				ug/L
⌊>	Tb	159	484725.228	484725.23				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	699543.051	1.52	98.5428	4.138	4.199	ug/L
|	Tl	205	1718162.882	3.74	97.6285	3.544	3.630	ug/L
|	Pb	206	575641.833	1.25	99.1154	1.000	1.009	ug/L
|	Pb	207	528741.174	1.15	99.0193	2.163	2.185	ug/L
|	Pb	208	2348071.376	5.10	98.6101	0.768	0.779	ug/L
|	U	238	3592692.035	7.81	98.0618	1.344	1.371	ug/L
⌊>	Bi	209	459846.134	459846.13				ug/L

Sample ID: Standard 4
Report Date/Time: Thursday, February 24, 2011 14:03:25
Page 1

Approved: February 25, 2011

⌈	Na	23	56026704.087	210.80	10.2091	0.315	3.089	mg/L
|	Mg	24	35511001.098	133.64	10.3114	0.156	1.514	mg/L
|	K	39	85048285.472	318.08	10.1278	0.342	3.381	mg/L
|	Ca	43	185224.930	0.70	10.1468	0.239	2.352	mg/L
|	Fe	54	6065928.721	22.67	10.0967	0.347	3.435	mg/L
|	Fe	57	2473204.433	9.29	9.9925	0.455	4.558	mg/L
⌊>	Sc-1	45	265769.591	265769.59				mg/L
	Cl	35	18156.476	1240.17				mg/L
	Kr	83	51.334	3.00				mg/L
	Br	81	8404.197	-643.90				mg/L
	P	31	13151.987	1824.17				mg/L
	S	34	227433.065	27902.96				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 4
Report Date/Time: Thursday, February 24, 2011 14:03:25
Page 2

Approved: February 25, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 4
Report Date/Time: Thursday, February 24, 2011 14:03:25
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, February 24, 2011 14:07:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 11
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20521.076	-0.00				ug/L
|	Be	9	14778.267	0.05	47.8449	1.967	4.111	ug/L
|	Al	27	303768.430	1.08	50.4253	3.672	7.281	ug/L
|>	Sc	45	276849.028	276849.03				ug/L
⌈	Ti	49	60763.455	0.13	96.2273	1.258	1.307	ug/L
|	V	51	485045.130	1.07	48.6423	1.351	2.778	ug/L
|	Cr	52	415288.316	0.91	49.7867	0.357	0.717	ug/L
|	Cr	53	47972.959	0.11	49.7439	1.587	3.189	ug/L
|	Mn	55	628222.880	1.40	50.3376	1.158	2.300	ug/L
|	Co	59	503800.250	1.12	48.6306	1.646	3.386	ug/L
|	Ni	60	106485.642	0.24	49.2724	1.013	2.056	ug/L
|	Cu	65	110185.838	0.24	49.6183	0.232	0.468	ug/L
|	Zn	66	64394.001	0.14	49.5822	0.621	1.253	ug/L
|>	Ge	72	449969.642	449969.64				ug/L
|	As	75	50809.130	0.11	49.8873	0.912	1.829	ug/L
|	Se	77	3755.372	0.01	50.3920	0.282	0.560	ug/L
|	Se	82	4685.094	0.01	50.5053	0.873	1.729	ug/L
⌊	Rb	85	1934.873	0.00				mg/L
	Y	89	280718.222	-7491.49				ug/L
	Rh	103	26.667	17.67				ug/L
⌈	Mo	98	233009.357	0.66	99.5231	4.280	4.300	ug/L
|	Ag	107	228935.702	0.65	48.9695	0.937	1.913	ug/L
|	Cd	114	53498.180	0.15	47.9009	4.716	9.845	ug/L
|>	In	115	353280.175	353280.17				ug/L
|	Sn	118	190362.427	0.54	48.1295	1.033	2.146	ug/L
⌊	Sb	123	180419.687	0.51	48.6128	0.656	1.350	ug/L
⌈	Ba	135	79146.066	0.16	49.3393	0.378	0.766	ug/L
|	Ce	140	93.343	0.00				ug/L
|>	Tb	159	483871.481	483871.48				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	353167.477	0.76	48.8963	1.261	2.579	ug/L
|	Tl	205	834420.309	1.79	46.6346	2.215	4.750	ug/L
|	Pb	206	287858.333	0.61	48.7097	0.909	1.867	ug/L
|	Pb	207	252754.767	0.54	46.5481	1.753	3.767	ug/L
|	Pb	208	1174752.044	2.51	48.4965	1.678	3.461	ug/L
|	U	238	1751766.502	3.75	47.0257	1.251	2.661	ug/L
|>	Bi	209	467843.789	467843.79				ug/L

Sample ID: QC Std 1
Report Date/Time: Thursday, February 24, 2011 14:10:09
Page 1

Approved: February 25, 2011

⌈	Na	23	27264565.112	98.52	4.7721	0.287	6.022	mg/L
|	Mg	24	17042443.389	61.62	4.7550	0.262	5.515	mg/L
|	K	39	43145179.712	154.09	4.9047	0.257	5.242	mg/L
|	Ca	43	94187.602	0.34	4.9503	0.189	3.825	mg/L
|	Fe	54	3070162.828	10.93	4.8700	0.113	2.330	mg/L
|	Fe	57	1316675.874	4.74	5.0956	0.232	4.554	mg/L
⌊>	Sc-1	45	276849.028	276849.03				mg/L
	Cl	35	19556.443	2640.13				mg/L
	Kr	83	46.667	-1.67				mg/L
	Br	81	8274.091	-774.00				mg/L
	P	31	12449.771	1121.96				mg/L
	S	34	241543.532	42013.43				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9	95.690				
|	Al	27	100.851				
⌊>	Sc	45					
⌈	Ti	49	96.227				
|	V	51	97.285				
|	Cr	52	99.573				
|	Cr	53					
|	Mn	55	100.675				
|	Co	59	97.261				
|	Ni	60	98.545				
|	Cu	65	99.237				
|	Zn	66	99.164				
|>	Ge	72		97.392			
|	As	75	99.775				
|	Se	77					
|	Se	82	101.011				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	97.939				
|	Cd	114	95.802				
|>	In	115		98.723			
|	Sn	118					
⌊	Sb	123	97.226				
⌈	Ba	135	98.679				
|	Ce	140					
⌊>	Tb	159		99.955			
⌈	Ho	165					
|	Tl	203	97.793				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	96.993				
|	U	238	94.051				
⌊>	Bi	209		103.362			
⌈	Na	23	95.441				

Sample ID: QC Std 1
Report Date/Time: Thursday, February 24, 2011 14:10:09

Approved: February 25, 2011

	Mg	24	95.099
	K	39	98.095
	Ca	43	99.006
	Fe	54	97.401
	Fe	57	101.912
>	Sc-1	45	
	Cl	35	
	Kr	83	
	Br	81	
	P	31	
	S	34	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Thursday, February 24, 2011 14:10:09
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Thursday, February 24, 2011 14:15:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19569.342	0.00				ug/L
|	Be	9	10.000	0.00	0.0579	0.018	30.549	ug/L
|	Al	27	2483.643	-0.01	-0.1496	0.042	28.373	ug/L
⌊>	Sc	45	261390.616	261390.62				ug/L
⌈	Ti	49	63.340	0.00	-0.0285	0.032	111.913	ug/L
|	V	51	2348.510	0.00	0.0039	0.005	134.620	ug/L
|	Cr	52	8126.716	0.00	0.0298	0.019	63.603	ug/L
|	Cr	53	280.032	-0.00	0.0312	0.037	119.090	ug/L
|	Mn	55	349.010	0.00	-0.0104	0.000	4.652	ug/L
|	Co	59	94.001	0.00	0.0077	0.000	2.961	ug/L
|	Ni	60	38.334	-0.00	-0.0063	0.001	19.985	ug/L
|	Cu	65	100.002	-0.00	-0.0054	0.001	22.173	ug/L
|	Zn	66	442.348	-0.00	-0.0288	0.033	112.823	ug/L
|>	Ge	72	454925.831	454925.83				ug/L
|	As	75	-127.776	0.00	0.0286	0.038	131.532	ug/L
|	Se	77	69.334	0.00	0.0246	0.246	1000.539	ug/L
|	Se	82	4.942	0.00	0.0108	0.140	1301.721	ug/L
⌊	Rb	85	19.334	0.00				mg/L
	Y	89	285074.405	-3135.31				ug/L
	Rh	103	9.000	-0.00				ug/L
⌈	Mo	98	113.097	0.00	0.0666	0.005	7.175	ug/L
|	Ag	107	30.000	0.00	0.0110	0.001	12.463	ug/L
|	Cd	114	4.476	0.00	0.0059	0.001	15.461	ug/L
|>	In	115	350618.124	350618.12				ug/L
|	Sn	118	245.203	0.00	0.0403	0.003	6.235	ug/L
⌊	Sb	123	399.877	0.00	0.0984	0.009	8.675	ug/L
⌈	Ba	135	34.667	0.00	0.0272	0.005	18.465	ug/L
|	Ce	140	23.336	0.00				ug/L
⌊>	Tb	159	478634.994	478634.99				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	32.000	0.00	0.0084	0.000	3.654	ug/L
|	Tl	205	70.007	0.00	0.0283	0.001	3.309	ug/L
|	Pb	206	397.345	0.00	0.0212	0.002	10.805	ug/L
|	Pb	207	344.009	0.00	0.0139	0.000	1.520	ug/L
|	Pb	208	1609.734	0.00	0.0133	0.001	6.926	ug/L
|	U	238	121.335	0.00	0.0121	0.001	5.635	ug/L
⌊>	Bi	209	463854.369	463854.37				ug/L

Sample ID: QC Std 2
Report Date/Time: Thursday, February 24, 2011 14:17:34
Page 1

Approved: February 25, 2011

⌈	Na	23	18054.763	0.00	0.0012	0.000	3.083	mg/L
|	Mg	24	516.732	0.00	0.0007	0.000	1.786	mg/L
|	K	39	575695.672	0.28	0.0061	0.003	46.345	mg/L
|	Ca	43	190.021	0.00	0.0002	0.001	275.197	mg/L
|	Fe	54	46487.696	0.01	0.0097	0.007	66.800	mg/L
|	Fe	57	7590.312	0.00	0.0048	0.003	58.360	mg/L
⌊>	Sc-1	45	261390.616	261390.62				mg/L
	Cl	35	17443.203	526.89				mg/L
	Kr	83	45.001	-3.33				mg/L
	Br	81	8460.911	-587.18				mg/L
	P	31	13640.150	2312.34				mg/L
	S	34	226704.238	27174.13				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.465			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.979			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.873			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.481			
⌈	Na	23					

Sample ID: QC Std 2
Report Date/Time: Thursday, February 24, 2011 14:17:34

Approved: February 25, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Thursday, February 24, 2011 14:17:34
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Thursday, February 24, 2011 14:22:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17715.744	-0.00				ug/L
|	Be	9	12.000	0.00	0.0663	0.007	10.374	ug/L
|	Al	27	3100.484	-0.00	-0.0216	0.066	306.754	ug/L
⌊>	Sc	45	253097.104	253097.10				ug/L
⌈	Ti	49	103.344	0.00	0.0455	0.037	80.780	ug/L
|	V	51	5968.303	0.01	0.4046	0.021	5.087	ug/L
|	Cr	52	13970.227	0.02	0.8495	0.054	6.361	ug/L
|	Cr	53	996.816	0.00	0.8397	0.120	14.309	ug/L
|	Mn	55	6454.150	0.01	0.5081	0.026	5.171	ug/L
|	Co	59	3893.130	0.01	0.3954	0.007	1.822	ug/L
|	Ni	60	3300.578	0.01	1.5893	0.048	3.018	ug/L
|	Cu	65	1904.534	0.00	0.8561	0.017	1.972	ug/L
|	Zn	66	8372.588	0.02	6.4863	0.077	1.189	ug/L
| >	Ge	72	426319.433	426319.43				ug/L
|	As	75	255.257	0.00	0.4159	0.025	6.055	ug/L
|	Se	77	86.667	0.00	0.3364	0.155	46.110	ug/L
|	Se	82	37.563	0.00	0.3858	0.132	34.159	ug/L
⌊	Rb	85	33.334	0.00				mg/L
	Y	89	263558.494	-24651.22				ug/L
	Rh	103	8.000	-1.00				ug/L
⌈	Mo	98	78.165	0.00	0.0555	0.005	8.149	ug/L
|	Ag	107	1823.518	0.01	0.4432	0.002	0.451	ug/L
|	Cd	114	199.385	0.00	0.2023	0.007	3.612	ug/L
| >	In	115	313932.138	313932.14				ug/L
|	Sn	118	158.801	0.00	0.0230	0.002	7.388	ug/L
⌊	Sb	123	1497.162	0.00	0.4439	0.008	1.821	ug/L
⌈	Ba	135	1147.411	0.00	0.7868	0.057	7.210	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	443236.119	443236.12				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	565.022	0.00	0.0941	0.002	2.629	ug/L
|	Tl	205	1273.542	0.00	0.1065	0.009	8.492	ug/L
|	Pb	206	2364.970	0.01	0.4153	0.024	5.716	ug/L
|	Pb	207	2214.602	0.00	0.4205	0.040	9.424	ug/L
|	Pb	208	9849.013	0.02	0.4155	0.024	5.883	ug/L
|	U	238	12972.208	0.03	0.4100	0.005	1.333	ug/L
⌊>	Bi	209	405897.146	405897.15				ug/L

Sample ID: QC Std 3
Report Date/Time: Thursday, February 24, 2011 14:24:24
Page 1

Approved: February 25, 2011

	Na	23	32743.468	0.06	0.0041	0.000	5.583	mg/L
	Mg	24	1036.825	0.00	0.0009	0.000	4.527	mg/L
	K	39	571461.125	0.34	0.0078	0.002	27.025	mg/L
	Ca	43	303.368	0.00	0.0071	0.001	19.895	mg/L
	Fe	54	41818.800	0.00	0.0040	0.001	29.701	mg/L
	Fe	57	6866.379	0.00	0.0027	0.001	35.711	mg/L
>	Sc-1	45	253097.104	253097.10				mg/L
	Cl	35	15876.598	-1039.71				mg/L
	Kr	83	50.334	2.00				mg/L
	Br	81	7568.204	-1479.89				mg/L
	P	31	8940.081	-2387.73				mg/L
	S	34	185175.739	-14354.37				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc	45					
	Ti	49					
	V	51	101.142				
	Cr	52	106.190				
	Cr	53					
	Mn	55	101.629				
	Co	59	98.840				
	Ni	60	99.334				
	Cu	65	107.011				
	Zn	66	103.781				
>	Ge	72		92.273			
	As	75	103.966				
	Se	77					
	Se	82	96.461				
	Rb	85					
	Y	89					
	Rh	103					
	Mo	98					
	Ag	107	110.810				
	Cd	114	101.142				
>	In	115		87.727			
	Sn	118					
	Sb	123	110.976				
	Ba	135	104.907				
	Ce	140					
>	Tb	159		91.561			
	Ho	165					
	Tl	203	117.606				
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208	103.864				
	U	238	102.499				
>	Bi	209		89.676			
	Na	23					

Sample ID: QC Std 3
Report Date/Time: Thursday, February 24, 2011 14:24:24

Approved: February 25, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 3
Report Date/Time: Thursday, February 24, 2011 14:24:24
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Thursday, February 24, 2011 14:28:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18350.307	-0.00				ug/L
|	Be	9	3.333	-0.00	0.0357	0.008	23.542	ug/L
|	Al	27	23383210.784	92.21	4281.7747	114.972	2.685	ug/L
⌊>	Sc	45	253644.456	253644.46				ug/L
⌈	Ti	49	57192.211	0.14	96.8058	2.200	2.273	ug/L
|	V	51	2018.819	-0.00	-0.0129	0.036	275.470	ug/L
|	Cr	52	8120.378	0.00	0.1080	0.007	6.722	ug/L
|	Cr	53	1406.907	0.00	1.3093	0.179	13.637	ug/L
|	Mn	55	3646.701	0.01	0.2745	0.007	2.473	ug/L
|	Co	59	1840.855	0.00	0.1886	0.003	1.352	ug/L
|	Ni	60	1129.075	0.00	0.5352	0.043	8.103	ug/L
|	Cu	65	773.038	0.00	0.3226	0.015	4.568	ug/L
|	Zn	66	859.379	0.00	0.3443	0.041	12.000	ug/L
|>	Ge	72	420953.823	420953.82				ug/L
|	As	75	-156.880	0.00	-0.0124	0.042	339.498	ug/L
|	Se	77	134.668	0.00	1.0522	0.056	5.336	ug/L
|	Se	82	2.603	0.00	-0.0119	0.126	1053.860	ug/L
⌊	Rb	85	1633.817	0.00				mg/L
	Y	89	245983.587	-42226.12				ug/L
	Rh	103	14.667	5.67				ug/L
⌈	Mo	98	211145.467	0.66	98.9563	1.955	1.975	ug/L
|	Ag	107	67.334	0.00	0.0203	0.001	3.496	ug/L
|	Cd	114	60.022	0.00	0.0607	0.020	32.138	ug/L
|>	In	115	321711.525	321711.52				ug/L
|	Sn	118	410.675	0.00	0.0918	0.006	6.911	ug/L
⌊	Sb	123	216.580	0.00	0.0541	0.000	0.743	ug/L
⌈	Ba	135	55.334	0.00	0.0440	0.004	9.417	ug/L
|	Ce	140	203.356	0.00				ug/L
⌊>	Tb	159	432764.870	432764.87				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	201.004	0.00	0.0359	0.003	8.020	ug/L
|	Tl	205	436.720	0.00	0.0524	0.002	4.498	ug/L
|	Pb	206	383.011	0.00	0.0281	0.004	12.781	ug/L
|	Pb	207	314.675	0.00	0.0167	0.003	19.988	ug/L
|	Pb	208	1493.392	0.00	0.0173	0.001	8.125	ug/L
|	U	238	25.000	-0.00	0.0096	0.000	2.600	ug/L
⌊>	Bi	209	406278.173	406278.17				ug/L

Sample ID: QC Std 4
Report Date/Time: Thursday, February 24, 2011 14:31:11
Page 1

Approved: February 25, 2011

⌈	Na	23	64034814.922	252.54	12.2304	0.483	3.949	mg/L
|	Mg	24	15687092.448	61.86	4.7729	0.136	2.858	mg/L
|	K	39	39554078.871	154.04	4.9033	0.104	2.129	mg/L
|	Ca	43	252494.755	0.99	14.4955	0.357	2.464	mg/L
|	Fe	54	6884682.742	26.99	12.0224	0.451	3.753	mg/L
|	Fe	57	2780835.400	10.95	11.7776	0.447	3.796	mg/L
⌊>	Sc-1	45	253644.456	253644.46				mg/L
	Cl	35	1928358.857	1911442.55				mg/L
	Kr	83	45.667	-2.67				mg/L
	Br	81	7424.755	-1623.34				mg/L
	P	31	1523961.419	1512633.60				mg/L
	S	34	351107.640	151577.53				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.112			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.901			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		89.398			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.760			
⌈	Na	23					

Sample ID: QC Std 4
Report Date/Time: Thursday, February 24, 2011 14:31:11

Approved: February 25, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Thursday, February 24, 2011 14:31:11
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Thursday, February 24, 2011 14:35:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19018.116	0.00				ug/L
|	Be	9	27826.037	0.12	103.3632	4.848	4.690	ug/L
|	Al	27	23327001.143	96.66	4488.6445	81.314	1.812	ug/L
⌊>	Sc	45	241310.384	241310.38				ug/L
⌈	Ti	49	55284.743	0.13	94.1377	3.755	3.989	ug/L
|	V	51	871260.523	2.08	94.1468	0.493	0.524	ug/L
|	Cr	52	737021.576	1.74	95.8851	2.019	2.106	ug/L
|	Cr	53	88559.643	0.21	98.9862	4.079	4.121	ug/L
|	Mn	55	1140473.559	2.73	98.3137	3.857	3.923	ug/L
|	Co	59	892878.354	2.13	92.6874	2.767	2.986	ug/L
|	Ni	60	188435.546	0.45	93.7831	1.344	1.434	ug/L
|	Cu	65	197745.570	0.47	95.8039	1.621	1.692	ug/L
|	Zn	66	117329.855	0.28	97.5053	1.633	1.675	ug/L
| >	Ge	72	418497.540	418497.54				ug/L
|	As	75	95712.587	0.23	100.9089	1.139	1.129	ug/L
|	Se	77	7111.862	0.02	103.5803	2.635	2.544	ug/L
|	Se	82	8537.061	0.02	99.0033	0.884	0.893	ug/L
⌊	Rb	85	1604.811	0.00				mg/L
	Y	89	244104.462	-44105.25				ug/L
	Rh	103	47.001	38.00				ug/L
⌈	Mo	98	211109.491	0.69	103.4873	0.915	0.884	ug/L
|	Ag	107	282332.019	0.92	69.3706	3.535	5.096	ug/L
|	Cd	114	99861.316	0.32	102.4897	1.882	1.836	ug/L
| >	In	115	307522.495	307522.49				ug/L
|	Sn	118	382.541	0.00	0.0890	0.004	4.586	ug/L
⌊	Sb	123	334929.008	1.09	103.6834	2.875	2.773	ug/L
⌈	Ba	135	137147.258	0.33	99.2126	1.330	1.341	ug/L
|	Ce	140	183.353	0.00				ug/L
⌊>	Tb	159	417034.802	417034.80				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	601555.999	1.50	97.4105	3.105	3.187	ug/L
|	Tl	205	1452067.190	3.63	94.8556	2.825	2.978	ug/L
|	Pb	206	505885.254	1.27	100.2198	1.302	1.299	ug/L
|	Pb	207	445840.375	1.12	96.1054	1.804	1.877	ug/L
|	Pb	208	2049739.888	5.13	99.0674	1.559	1.574	ug/L
|	U	238	2992800.615	7.49	93.9810	0.414	0.441	ug/L
⌊>	Bi	209	399653.729	399653.73				ug/L

Sample ID: QC Std 5
Report Date/Time: Thursday, February 24, 2011 14:37:59
Page 1

Approved: February 25, 2011

⌈	Na	23	62198933.711	257.65	12.4776	0.307	2.457	mg/L
|	Mg	24	15661107.362	64.90	5.0078	0.012	0.243	mg/L
|	K	39	39254387.388	160.76	5.1172	0.081	1.586	mg/L
|	Ca	43	245236.790	1.02	14.7968	0.417	2.816	mg/L
|	Fe	54	7048558.191	29.05	12.9376	0.340	2.628	mg/L
|	Fe	57	2788992.763	11.54	12.4124	0.603	4.860	mg/L
⌊>	Sc-1	45	241310.384	241310.38				mg/L
	Cl	35	1937126.860	1920210.55				mg/L
	Kr	83	42.667	-5.67				mg/L
	Br	81	6867.026	-2181.07				mg/L
	P	31	1534238.936	1522911.12				mg/L
	S	34	340058.269	140528.16				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	94.147				
|	Cr	52	95.885				
|	Cr	53					
|	Mn	55	98.314				
|	Co	59	92.687				
|	Ni	60	93.783				
|	Cu	65	95.804				
|	Zn	66	97.505				
|>	Ge	72		90.580			
|	As	75	100.909				
|	Se	77					
|	Se	82	99.003				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	69.371				
|	Cd	114	102.490				
|>	In	115		85.936			
|	Sn	118					
⌊	Sb	123	103.683				
⌈	Ba	135	99.213				
|	Ce	140					
⌊>	Tb	159		86.148			
⌈	Ho	165					
|	Tl	203	97.410				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.067				
|	U	238	93.981				
⌊>	Bi	209		88.297			
⌈	Na	23					

Sample ID: QC Std 5
Report Date/Time: Thursday, February 24, 2011 14:37:59

Approved: February 25, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Ag	107	ICSAB IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 5
Report Date/Time: Thursday, February 24, 2011 14:37:59
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, February 24, 2011 14:42:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17482.089	-0.00				ug/L
|	Be	9	13583.237	0.06	49.5331	3.972	8.019	ug/L
|	Al	27	289909.515	1.16	54.1253	1.648	3.045	ug/L
⌊>	Sc	45	246143.748	246143.75				ug/L
⌈	Ti	49	57933.122	0.14	98.3391	2.138	2.174	ug/L
|	V	51	451941.873	1.07	48.5684	0.783	1.612	ug/L
|	Cr	52	381347.773	0.89	48.9813	0.191	0.389	ug/L
|	Cr	53	44486.510	0.11	49.4311	0.570	1.154	ug/L
|	Mn	55	568562.542	1.35	48.8248	0.860	1.761	ug/L
|	Co	59	449024.278	1.07	46.4597	1.265	2.722	ug/L
|	Ni	60	95320.767	0.23	47.2764	0.298	0.631	ug/L
|	Cu	65	99177.900	0.24	47.8713	1.523	3.181	ug/L
|	Zn	66	59416.922	0.14	49.0310	0.486	0.991	ug/L
| >	Ge	72	419849.458	419849.46				ug/L
|	As	75	47591.311	0.11	50.0862	0.411	0.821	ug/L
|	Se	77	3619.322	0.01	52.0726	1.246	2.393	ug/L
|	Se	82	4373.954	0.01	50.5444	1.203	2.380	ug/L
⌊	Rb	85	1786.177	0.00				mg/L
	Y	89	249451.087	-38758.63				ug/L
	Rh	103	20.667	11.67				ug/L
⌈	Mo	98	213027.709	0.68	102.0028	0.741	0.727	ug/L
|	Ag	107	205174.435	0.65	49.2379	2.001	4.065	ug/L
|	Cd	114	50511.432	0.16	50.6518	2.549	5.032	ug/L
| >	In	115	314834.204	314834.20				ug/L
|	Sn	118	172398.373	0.55	48.8951	1.079	2.207	ug/L
⌊	Sb	123	166047.341	0.53	50.1992	1.140	2.270	ug/L
⌈	Ba	135	71437.707	0.17	50.3925	0.513	1.018	ug/L
|	Ce	140	26.669	0.00				ug/L
⌊>	Tb	159	427726.384	427726.38				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	309000.121	0.77	49.7109	1.192	2.397	ug/L
|	Tl	205	740910.010	1.84	48.0965	1.133	2.355	ug/L
|	Pb	206	250473.299	0.62	49.2357	0.969	1.969	ug/L
|	Pb	207	231178.912	0.57	49.4470	0.210	0.425	ug/L
|	Pb	208	1034208.875	2.57	49.5982	0.091	0.183	ug/L
|	U	238	1563274.121	3.88	48.7513	0.607	1.244	ug/L
⌊>	Bi	209	402486.089	402486.09				ug/L

Sample ID: QC Std 6
Report Date/Time: Thursday, February 24, 2011 14:44:47
Page 1

Approved: February 25, 2011

⌈	Na	23	25281332.256	102.72	4.9750	0.223	4.485	mg/L
|	Mg	24	15952861.868	64.82	5.0017	0.061	1.220	mg/L
|	K	39	39004933.205	156.65	4.9862	0.200	4.009	mg/L
|	Ca	43	86033.871	0.35	5.0835	0.117	2.311	mg/L
|	Fe	54	2829795.271	11.33	5.0495	0.059	1.171	mg/L
|	Fe	57	1135402.545	4.59	4.9389	0.167	3.374	mg/L
⌊>	Sc-1	45	246143.748	246143.75				mg/L
	Cl	35	18406.258	1489.95				mg/L
	Kr	83	46.001	-2.33				mg/L
	Br	81	7416.751	-1631.34				mg/L
	P	31	9847.582	-1480.23				mg/L
	S	34	194290.302	-5239.80				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	97.137				
|	Cr	52	97.963				
|	Cr	53					
|	Mn	55	97.650				
|	Co	59	92.919				
|	Ni	60	94.553				
|	Cu	65	95.743				
|	Zn	66	98.062				
|>	Ge	72		90.873			
|	As	75	100.172				
|	Se	77					
|	Se	82	101.089				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	98.476				
|	Cd	114	101.304				
|>	In	115		87.979			
|	Sn	118					
⌊	Sb	123	100.398				
⌈	Ba	135	100.785				
|	Ce	140					
⌊>	Tb	159		88.357			
⌈	Ho	165					
|	Tl	203	99.422				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.196				
|	U	238	97.503				
⌊>	Bi	209		88.923			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Thursday, February 24, 2011 14:44:47

Approved: February 25, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Thursday, February 24, 2011 14:44:47
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, February 24, 2011 14:49:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18951.327	-0.00				ug/L
|	Be	9	10.000	0.00	0.0587	0.006	10.414	ug/L
|	Al	27	5268.054	0.00	0.3636	0.047	12.807	ug/L
⌊>	Sc	45	256553.483	256553.48				ug/L
⌈	Ti	49	40.004	-0.00	-0.0621	0.034	54.085	ug/L
|	V	51	2293.431	0.00	0.0081	0.004	53.508	ug/L
|	Cr	52	7857.499	0.00	0.0374	0.005	14.603	ug/L
|	Cr	53	353.375	0.00	0.1232	0.087	70.718	ug/L
|	Mn	55	363.677	0.00	-0.0080	0.002	30.597	ug/L
|	Co	59	95.335	0.00	0.0082	0.002	18.444	ug/L
|	Ni	60	34.000	-0.00	-0.0076	0.003	35.364	ug/L
|	Cu	65	98.335	-0.00	-0.0043	0.005	110.152	ug/L
|	Zn	66	1370.111	0.00	0.7305	0.268	36.661	ug/L
|>	Ge	72	436374.822	436374.82				ug/L
|	As	75	-137.350	0.00	0.0136	0.017	122.149	ug/L
|	Se	77	65.334	0.00	0.0052	0.092	1779.622	ug/L
|	Se	82	7.281	0.00	0.0391	0.107	273.412	ug/L
⌊	Rb	85	15.000	0.00				mg/L
	Y	89	262592.602	-25617.11				ug/L
	Rh	103	10.333	1.33				ug/L
⌈	Mo	98	109.467	0.00	0.0677	0.005	7.243	ug/L
|	Ag	107	19.667	0.00	0.0090	0.000	3.439	ug/L
|	Cd	114	0.438	-0.00	0.0023	0.006	279.144	ug/L
|>	In	115	331010.191	331010.19				ug/L
|	Sn	118	228.669	0.00	0.0395	0.004	9.279	ug/L
⌊	Sb	123	273.293	0.00	0.0686	0.006	8.570	ug/L
⌈	Ba	135	30.667	0.00	0.0256	0.002	8.940	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	456713.124	456713.12				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	36.000	0.00	0.0094	0.000	4.638	ug/L
|	Tl	205	76.675	0.00	0.0290	0.001	2.881	ug/L
|	Pb	206	364.010	0.00	0.0206	0.007	33.973	ug/L
|	Pb	207	319.675	0.00	0.0142	0.002	11.198	ug/L
|	Pb	208	1473.058	0.00	0.0126	0.004	31.256	ug/L
|	U	238	120.335	0.00	0.0124	0.000	2.094	ug/L
⌊>	Bi	209	428953.170	428953.17				ug/L

Sample ID: QC Std 7
Report Date/Time: Thursday, February 24, 2011 14:52:01
Page 1

Approved: February 25, 2011

⌈	Na	23	17493.714	0.00	0.0012	0.000	21.120	mg/L
|	Mg	24	383.379	0.00	0.0007	0.000	4.353	mg/L
|	K	39	552314.183	0.23	0.0045	0.001	13.353	mg/L
|	Ca	43	173.352	-0.00	-0.0005	0.003	583.099	mg/L
|	Fe	54	42918.952	0.00	0.0049	0.001	30.107	mg/L
|	Fe	57	7360.112	0.00	0.0044	0.001	23.122	mg/L
⌊>	Sc-1	45	256553.483	256553.48				mg/L
	Cl	35	16090.275	-826.04				mg/L
	Kr	83	44.334	-4.00				mg/L
	Br	81	7604.224	-1443.87				mg/L
	P	31	10494.283	-833.53				mg/L
	S	34	198313.495	-1216.61				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.450			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.500			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.345			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.770			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Thursday, February 24, 2011 14:52:01

Approved: February 25, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\└>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Thursday, February 24, 2011 14:52:01

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: QCMRL WG357403-03

Sample Date/Time: Thursday, February 24, 2011 14:56:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19151.779	-0.00				ug/L
|	Be	9	3.333	-0.00	0.0353	0.004	12.407	ug/L
|	Al	27	5451.504	0.00	0.3774	0.205	54.245	ug/L
⌊>	Sc	45	263949.699	263949.70				ug/L
⌈	Ti	49	56.673	0.00	-0.0348	0.042	119.856	ug/L
|	V	51	4347.439	0.00	0.2233	0.021	9.227	ug/L
|	Cr	52	11400.944	0.01	0.4896	0.048	9.816	ug/L
|	Cr	53	616.747	0.00	0.4086	0.068	16.742	ug/L
|	Mn	55	3685.049	0.01	0.2677	0.009	3.534	ug/L
|	Co	59	2132.916	0.00	0.2117	0.004	1.717	ug/L
|	Ni	60	1866.860	0.00	0.8704	0.022	2.578	ug/L
|	Cu	65	1090.737	0.00	0.4591	0.017	3.713	ug/L
|	Zn	66	6267.027	0.01	4.6615	0.044	0.946	ug/L
|>	Ge	72	434835.537	434835.54				ug/L
|	As	75	33.172	0.00	0.1855	0.045	24.401	ug/L
|	Se	77	85.334	0.00	0.2923	0.101	34.575	ug/L
|	Se	82	19.954	0.00	0.1803	0.120	66.501	ug/L
⌊	Rb	85	34.000	0.00				mg/L
	Y	89	273411.511	-14798.20				ug/L
	Rh	103	9.333	0.33				ug/L
⌈	Mo	98	78.832	0.00	0.0541	0.004	7.693	ug/L
|	Ag	107	935.386	0.00	0.2197	0.006	2.596	ug/L
|	Cd	114	94.947	0.00	0.0932	0.005	5.539	ug/L
|>	In	115	328255.498	328255.50				ug/L
|	Sn	118	143.734	0.00	0.0170	0.002	11.766	ug/L
⌊	Sb	123	877.248	0.00	0.2444	0.004	1.785	ug/L
⌈	Ba	135	648.361	0.00	0.4381	0.028	6.436	ug/L
|	Ce	140	20.002	0.00				ug/L
⌊>	Tb	159	452193.569	452193.57				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	304.008	0.00	0.0490	0.002	4.597	ug/L
|	Tl	205	780.108	0.00	0.0711	0.002	3.432	ug/L
|	Pb	206	1472.123	0.00	0.2205	0.002	1.025	ug/L
|	Pb	207	1352.772	0.00	0.2172	0.010	4.459	ug/L
|	Pb	208	6080.791	0.01	0.2155	0.002	0.987	ug/L
|	U	238	6972.500	0.02	0.2094	0.006	2.719	ug/L
⌊>	Bi	209	436443.239	436443.24				ug/L

Sample ID: QCMRL WG357403-03
Report Date/Time: Thursday, February 24, 2011 14:58:45
Page 1

Approved: February 25, 2011

⌈	Na	23	60968.080	0.17	0.0091	0.001	10.859	mg/L
|	Mg	24	1810.347	0.01	0.0011	0.000	10.707	mg/L
|	K	39	585257.023	0.30	0.0067	0.005	72.339	mg/L
|	Ca	43	260.029	0.00	0.0040	0.001	25.115	mg/L
|	Fe	54	41546.558	-0.01	0.0007	0.004	555.833	mg/L
|	Fe	57	7700.416	0.00	0.0050	0.004	76.795	mg/L
⌊>	Sc-1	45	263949.699	263949.70				mg/L
	Cl	35	16722.638	-193.67				mg/L
	Kr	83	43.667	-4.67				mg/L
	Br	81	8013.214	-1034.88				mg/L
	P	31	10665.735	-662.08				mg/L
	S	34	195145.335	-4384.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.117			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.730			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.411			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.425			
⌈	Na	23					

Sample ID: QCMRL WG357403-03
Report Date/Time: Thursday, February 24, 2011 14:58:45

Approved: February 25, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QCMRL WG357403-03
Report Date/Time: Thursday, February 24, 2011 14:58:45
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: PBW 78 WG357315-02

Sample Date/Time: Thursday, February 24, 2011 15:03:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22141.547	0.00				ug/L
|	Be	9	8.000	0.00	0.0495	0.011	22.388	ug/L
|	Al	27	56040.002	0.18	8.7204	0.130	1.492	ug/L
⌊>	Sc	45	279434.571	279434.57				ug/L
⌈	Ti	49	373.378	0.00	0.4810	0.040	8.222	ug/L
|	V	51	2645.218	0.00	0.0437	0.010	22.053	ug/L
|	Cr	52	9847.279	0.01	0.2839	0.013	4.468	ug/L
|	Cr	53	643.418	0.00	0.4318	0.029	6.631	ug/L
|	Mn	55	1679.491	0.00	0.1003	0.007	7.324	ug/L
|	Co	59	127.335	0.00	0.0113	0.001	11.008	ug/L
|	Ni	60	130.669	0.00	0.0383	0.008	21.933	ug/L
|	Cu	65	229.005	0.00	0.0561	0.004	6.849	ug/L
|	Zn	66	2413.982	0.00	1.5559	0.005	0.330	ug/L
|>	Ge	72	437846.667	437846.67				ug/L
|	As	75	-158.144	0.00	-0.0072	0.045	628.277	ug/L
|	Se	77	70.667	0.00	0.0788	0.139	176.053	ug/L
|	Se	82	-1.719	-0.00	-0.0622	0.036	57.611	ug/L
⌊	Rb	85	105.668	0.00				mg/L
	Y	89	277663.464	-10546.25				ug/L
	Rh	103	9.333	0.33				ug/L
⌈	Mo	98	66.832	0.00	0.0471	0.003	5.331	ug/L
|	Ag	107	50.001	0.00	0.0155	0.001	8.246	ug/L
|	Cd	114	1.069	-0.00	0.0029	0.003	97.827	ug/L
|>	In	115	345118.568	345118.57				ug/L
|	Sn	118	1309.819	0.00	0.3169	0.011	3.535	ug/L
⌊	Sb	123	203.163	0.00	0.0460	0.001	2.935	ug/L
⌈	Ba	135	386.345	0.00	0.2491	0.029	11.706	ug/L
|	Ce	140	83.342	0.00				ug/L
⌊>	Tb	159	478368.366	478368.37				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	21.667	-0.00	0.0071	0.000	6.338	ug/L
|	Tl	205	63.340	0.00	0.0281	0.001	5.162	ug/L
|	Pb	206	434.014	0.00	0.0305	0.002	7.732	ug/L
|	Pb	207	378.011	0.00	0.0230	0.003	12.608	ug/L
|	Pb	208	1737.077	0.00	0.0215	0.003	12.011	ug/L
|	U	238	53.001	0.00	0.0103	0.000	1.288	ug/L
⌊>	Bi	209	446245.704	446245.70				ug/L

Sample ID: PBW 78 WG357315-02
Report Date/Time: Thursday, February 24, 2011 15:05:30
Page 1

Approved: February 25, 2011

⌈	Na	23	103806.470	0.31	0.0159	0.000	1.797	mg/L
|	Mg	24	34238.628	0.12	0.0100	0.000	2.723	mg/L
|	K	39	659981.150	0.44	0.0111	0.001	8.957	mg/L
|	Ca	43	693.427	0.00	0.0258	0.004	16.224	mg/L
|	Fe	54	98918.279	0.19	0.0881	0.006	6.372	mg/L
|	Fe	57	9952.653	0.01	0.0118	0.005	38.965	mg/L
⌊>	Sc-1	45	279434.571	279434.57				mg/L
	Cl	35	80281.673	63365.36				mg/L
	Kr	83	44.334	-4.00				mg/L
	Br	81	8626.389	-421.70				mg/L
	P	31	25291.294	13963.48				mg/L
	S	34	205089.393	5559.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.768			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.442			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.818			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.590			
⌈	Na	23					

Sample ID: PBW 78 WG357315-02
Report Date/Time: Thursday, February 24, 2011 15:05:30
Page 2

Approved: February 25, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 78 WG357315-02
Report Date/Time: Thursday, February 24, 2011 15:05:30
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: LCSW 78 WG357315-03

Sample Date/Time: Thursday, February 24, 2011 15:10:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22007.736	0.01				ug/L
|	Be	9	7502.816	0.03	25.4730	0.735	2.885	ug/L
|	Al	27	374370.488	1.40	65.2999	4.668	7.149	ug/L
⌊>	Sc	45	264232.166	264232.17				ug/L
⌈	Ti	49	1526.938	0.00	2.3780	0.356	14.987	ug/L
|	V	51	244473.222	0.56	25.2802	0.680	2.688	ug/L
|	Cr	52	216621.571	0.48	26.4585	0.563	2.129	ug/L
|	Cr	53	25317.889	0.06	27.0733	1.066	3.938	ug/L
|	Mn	55	326009.609	0.75	27.0318	0.324	1.200	ug/L
|	Co	59	255277.917	0.59	25.5178	0.282	1.105	ug/L
|	Ni	60	53328.734	0.12	25.5475	0.635	2.484	ug/L
|	Cu	65	55257.473	0.13	25.7481	0.456	1.770	ug/L
|	Zn	66	32669.278	0.07	25.8767	0.412	1.594	ug/L
|>	Ge	72	434496.467	434496.47				ug/L
|	As	75	23387.640	0.05	23.8652	0.387	1.620	ug/L
|	Se	77	1630.133	0.00	22.1533	0.706	3.186	ug/L
|	Se	82	1951.839	0.00	21.7681	0.181	0.832	ug/L
⌊	Rb	85	816.708	0.00				mg/L
	Y	89	262989.349	-25220.36				ug/L
	Rh	103	17.667	8.67				ug/L
⌈	Mo	98	56.014	0.00	0.0422	0.003	8.029	ug/L
|	Ag	107	107150.346	0.31	23.2870	0.662	2.842	ug/L
|	Cd	114	25652.903	0.07	23.2921	0.788	3.383	ug/L
|>	In	115	347588.842	347588.84				ug/L
|	Sn	118	641.087	0.00	0.1426	0.003	2.198	ug/L
⌊	Sb	123	86133.922	0.25	23.5773	0.304	1.289	ug/L
⌈	Ba	135	39586.606	0.08	24.8426	0.460	1.851	ug/L
|	Ce	140	2193.794	0.00				ug/L
⌊>	Tb	159	480868.566	480868.57				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	175031.301	0.39	25.3247	0.236	0.933	ug/L
|	Tl	205	432605.769	0.97	25.2550	0.995	3.942	ug/L
|	Pb	206	148166.308	0.33	26.1849	0.710	2.710	ug/L
|	Pb	207	128967.697	0.29	24.7916	0.558	2.249	ug/L
|	Pb	208	606764.620	1.35	26.1540	0.646	2.470	ug/L
|	U	238	876712.567	1.96	24.6012	0.494	2.006	ug/L
⌊>	Bi	209	447541.262	447541.26				ug/L

Approved: February 25, 2011

Na	23	179267.078	0.61	0.0308	0.002	5.056	mg/L	
Mg	24	132748.595	0.50	0.0394	0.002	4.374	mg/L	
K	39	771808.775	1.00	0.0290	0.004	12.420	mg/L	
Ca	43	1566.947	0.01	0.0762	0.011	14.238	mg/L	
Fe	54	125652.612	0.31	0.1421	0.003	2.101	mg/L	
Fe	57	20513.071	0.05	0.0571	0.005	7.892	mg/L	
> Sc-1	45	264232.166	264232.17				mg/L	
Cl	35	48558.966	31642.66				mg/L	
Kr	83	43.667	-4.67				mg/L	
Br	81	9091.465	43.37				mg/L	
P	31	22120.472	10792.66				mg/L	
S	34	200193.632	663.53				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		94.043			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		97.133			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		99.335			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		98.877			
Na	23					

Sample ID: LCSW 78 WG357315-03
Report Date/Time: Thursday, February 24, 2011 15:12:15
Page 2

Approved: February 25, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 78 WG357315-03
Report Date/Time: Thursday, February 24, 2011 15:12:15
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: FBLK WG357258-01

Sample Date/Time: Thursday, February 24, 2011 15:16:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23460.933	0.01				ug/L
|	Be	9	8.000	0.00	0.0503	0.007	13.472	ug/L
|	Al	27	143438.727	0.51	23.9884	0.316	1.315	ug/L
⌊>	Sc	45	270938.780	270938.78				ug/L
⌈	Ti	49	693.427	0.00	1.0060	0.102	10.125	ug/L
|	V	51	2951.960	0.00	0.0765	0.013	16.499	ug/L
|	Cr	52	9910.007	0.01	0.2959	0.011	3.752	ug/L
|	Cr	53	596.744	0.00	0.3837	0.041	10.713	ug/L
|	Mn	55	6136.611	0.01	0.4691	0.008	1.626	ug/L
|	Co	59	263.006	0.00	0.0249	0.002	9.216	ug/L
|	Ni	60	302.008	0.00	0.1203	0.014	11.686	ug/L
|	Cu	65	1146.744	0.00	0.4829	0.020	4.166	ug/L
|	Zn	66	3191.541	0.01	2.1841	0.050	2.299	ug/L
| >	Ge	72	436441.686	436441.69				ug/L
|	As	75	-118.616	0.00	0.0323	0.013	41.447	ug/L
|	Se	77	68.000	0.00	0.0437	0.151	344.891	ug/L
|	Se	82	10.368	0.00	0.0723	0.036	49.184	ug/L
⌊	Rb	85	514.685	0.00				mg/L
	Y	89	268116.856	-20092.86				ug/L
	Rh	103	7.333	-1.67				ug/L
⌈	Mo	98	40.676	0.00	0.0355	0.002	4.985	ug/L
|	Ag	107	56.001	0.00	0.0167	0.001	5.015	ug/L
|	Cd	114	9.076	0.00	0.0101	0.006	56.425	ug/L
| >	In	115	348341.338	348341.34				ug/L
|	Sn	118	491.879	0.00	0.1040	0.007	6.948	ug/L
⌊	Sb	123	301.124	0.00	0.0724	0.016	22.722	ug/L
⌈	Ba	135	534.686	0.00	0.3345	0.010	3.073	ug/L
|	Ce	140	2967.408	0.01				ug/L
⌊>	Tb	159	490157.719	490157.72				ug/L
⌈	Ho	165	36.670	0.00				ug/L
|	Tl	203	82.334	0.00	0.0157	0.001	7.116	ug/L
|	Tl	205	193.355	0.00	0.0355	0.003	9.406	ug/L
|	Pb	206	1262.426	0.00	0.1738	0.005	3.088	ug/L
|	Pb	207	1066.734	0.00	0.1525	0.006	3.985	ug/L
|	Pb	208	4990.207	0.01	0.1587	0.002	0.957	ug/L
|	U	238	307.674	0.00	0.0174	0.000	1.086	ug/L
⌊>	Bi	209	453820.438	453820.44				ug/L

Approved: February 25, 2011

⌈	Na	23	187045.994	0.63	0.0313	0.002	4.804	mg/L
|	Mg	24	142438.153	0.53	0.0411	0.001	1.642	mg/L
|	K	39	806334.746	1.05	0.0307	0.002	7.789	mg/L
|	Ca	43	1840.354	0.01	0.0887	0.010	11.423	mg/L
|	Fe	54	110380.492	0.24	0.1118	0.003	2.677	mg/L
|	Fe	57	13667.379	0.03	0.0278	0.003	12.268	mg/L
⌊>	Sc-1	45	270938.780	270938.78				mg/L
	Cl	35	119070.069	102153.76				mg/L
	Kr	83	34.334	-14.00				mg/L
	Br	81	10544.894	1496.80				mg/L
	P	31	23392.093	12064.28				mg/L
	S	34	204887.105	5357.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.464			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.343			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.254			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.264			
⌈	Na	23					

Sample ID: FBLK WG357258-01
Report Date/Time: Thursday, February 24, 2011 15:19:00

Approved: February 25, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: FBLK WG357258-01
Report Date/Time: Thursday, February 24, 2011 15:19:00
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: L1102054202

Sample Date/Time: Thursday, February 24, 2011 15:23:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21707.230	0.00				ug/L
|	Be	9	40.000	0.00	0.1516	0.014	9.279	ug/L
|	Al	27	9362292.913	33.34	1548.5562	17.063	1.102	ug/L
⌊>	Sc	45	280650.705	280650.70				ug/L
⌈	Ti	49	12392.266	0.03	20.0137	1.154	5.764	ug/L
|	V	51	37082.906	0.08	3.5995	0.024	0.669	ug/L
|	Cr	52	28555.682	0.05	2.6239	0.039	1.494	ug/L
|	Cr	53	2877.369	0.01	2.8161	0.125	4.430	ug/L
|	Mn	55	2405638.320	5.48	197.6888	8.928	4.516	ug/L
|	Co	59	3397.278	0.01	0.3348	0.006	1.790	ug/L
|	Ni	60	2386.975	0.01	1.1092	0.017	1.520	ug/L
|	Cu	65	72686.605	0.17	33.5478	0.796	2.372	ug/L
|	Zn	66	73769.553	0.17	58.2990	0.991	1.700	ug/L
|>	Ge	72	438954.789	438954.79				ug/L
|	As	75	4320.912	0.01	4.4883	0.063	1.399	ug/L
|	Se	77	78.000	0.00	0.1800	0.197	109.328	ug/L
|	Se	82	20.629	0.00	0.1844	0.185	100.623	ug/L
⌊	Rb	85	34047.212	0.08				mg/L
	Y	89	265662.452	-22547.26				ug/L
	Rh	103	21.334	12.33				ug/L
⌈	Mo	98	811.242	0.00	0.3788	0.011	2.833	ug/L
|	Ag	107	301.341	0.00	0.0717	0.003	4.588	ug/L
|	Cd	114	195.868	0.00	0.1844	0.029	15.465	ug/L
|>	In	115	338783.596	338783.60				ug/L
|	Sn	118	1226.209	0.00	0.3011	0.007	2.179	ug/L
⌊	Sb	123	1112.010	0.00	0.3024	0.012	4.076	ug/L
⌈	Ba	135	27854.352	0.06	18.0533	0.441	2.440	ug/L
|	Ce	140	33412.472	0.07				ug/L
⌊>	Tb	159	465715.342	465715.34				ug/L
⌈	Ho	165	416.717	0.00				ug/L
|	Tl	203	289.007	0.00	0.0467	0.002	3.246	ug/L
|	Tl	205	730.100	0.00	0.0680	0.005	7.631	ug/L
|	Pb	206	204617.462	0.47	37.0072	0.735	1.987	ug/L
|	Pb	207	181327.937	0.41	35.6770	0.734	2.058	ug/L
|	Pb	208	848965.645	1.94	37.4519	0.858	2.292	ug/L
|	U	238	2397.979	0.01	0.0776	0.005	6.521	ug/L
⌊>	Bi	209	437371.684	437371.68				ug/L

Sample ID: L1102054202
Report Date/Time: Thursday, February 24, 2011 15:25:46
Page 1

Approved: February 25, 2011

⌈	Na	23	58620393.758	208.83	10.1134	0.543	5.369	mg/L
|	Mg	24	2427153.194	8.65	0.6678	0.009	1.312	mg/L
|	K	39	9726385.326	32.73	1.0397	0.005	0.491	mg/L
|	Ca	43	43820.299	0.16	2.2641	0.076	3.360	mg/L
|	Fe	54	651972.109	2.16	0.9646	0.023	2.361	mg/L
|	Fe	57	250238.780	0.87	0.9326	0.038	4.125	mg/L
⌊>	Sc-1	45	280650.705	280650.70				mg/L
	Cl	35	166415.086	149498.78				mg/L
	Kr	83	42.667	-5.67				mg/L
	Br	81	10488.832	1440.74				mg/L
	P	31	55249.335	43921.52				mg/L
	S	34	201084.111	1554.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.008			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.672			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.204			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.630			
⌈	Na	23					

Sample ID: L1102054202
Report Date/Time: Thursday, February 24, 2011 15:25:46
Page 2

Approved: February 25, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: L1102057902 WG357315-01

Sample Date/Time: Thursday, February 24, 2011 15:30:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 17
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21189.104	0.01				ug/L
|	Be	9	5.333	0.00	0.0430	0.015	35.972	ug/L
|	Al	27	107828.637	0.41	19.2656	1.160	6.019	ug/L
⌊>	Sc	45	252431.467	252431.47				ug/L
⌈	Ti	49	553.404	0.00	0.7797	0.147	18.893	ug/L
|	V	51	2457.017	0.00	0.0259	0.039	151.112	ug/L
|	Cr	52	9537.642	0.00	0.2527	0.024	9.624	ug/L
|	Cr	53	2127.106	0.00	2.0351	0.161	7.898	ug/L
|	Mn	55	14459.593	0.03	1.1609	0.025	2.188	ug/L
|	Co	59	343.343	0.00	0.0330	0.003	8.347	ug/L
|	Ni	60	574.022	0.00	0.2509	0.004	1.569	ug/L
|	Cu	65	450.681	0.00	0.1601	0.005	3.323	ug/L
|	Zn	66	3351.929	0.01	2.3207	0.087	3.748	ug/L
| >	Ge	72	435127.289	435127.29				ug/L
|	As	75	224.038	0.00	0.3788	0.028	7.391	ug/L
|	Se	77	137.334	0.00	1.0258	0.233	22.745	ug/L
|	Se	82	121.608	0.00	1.3137	0.063	4.816	ug/L
⌊	Rb	85	1834.520	0.00				mg/L
	Y	89	264477.962	-23731.75				ug/L
	Rh	103	30.667	21.67				ug/L
⌈	Mo	98	162.245	0.00	0.0921	0.007	7.803	ug/L
|	Ag	107	43.001	0.00	0.0144	0.002	14.643	ug/L
|	Cd	114	14.726	0.00	0.0160	0.003	21.661	ug/L
| >	In	115	329512.510	329512.51				ug/L
|	Sn	118	128.267	0.00	0.0126	0.002	14.024	ug/L
⌊	Sb	123	162.828	0.00	0.0370	0.001	3.812	ug/L
⌈	Ba	135	12822.013	0.03	8.6265	0.172	1.994	ug/L
|	Ce	140	753.437	0.00				ug/L
⌊>	Tb	159	448612.381	448612.38				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	265.340	0.00	0.0458	0.001	1.776	ug/L
|	Tl	205	656.754	0.00	0.0662	0.005	7.180	ug/L
|	Pb	206	498.684	0.00	0.0497	0.003	5.734	ug/L
|	Pb	207	445.348	0.00	0.0435	0.003	6.103	ug/L
|	Pb	208	1945.759	0.00	0.0379	0.003	6.690	ug/L
|	U	238	270.006	0.00	0.0171	0.000	2.562	ug/L
⌊>	Bi	209	410185.979	410185.98				ug/L

Approved: February 25, 2011

⌈	Na	23	210908318.991	836.52	40.5095	2.724	6.725	mg/L
|	Mg	24	8871029.994	35.18	2.7149	0.156	5.742	mg/L
|	K	39	1988135.762	5.95	0.1867	0.006	2.952	mg/L
|	Ca	43	33305.384	0.13	1.9122	0.010	0.510	mg/L
|	Fe	54	93060.555	0.20	0.0946	0.005	5.587	mg/L
|	Fe	57	24211.717	0.07	0.0767	0.003	3.630	mg/L
⌊>	Sc-1	45	252431.467	252431.47				mg/L
	Cl	35	1189778.181	1172861.87				mg/L
	Kr	83	45.334	-3.00				mg/L
	Br	81	76871.707	67823.61				mg/L
	P	31	47320.433	35992.62				mg/L
	S	34	231874.239	32344.13				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.180			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.081			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.671			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		90.624			
⌈	Na	23					

Sample ID: L1102057902 WG357315-01
Report Date/Time: Thursday, February 24, 2011 15:32:32
Page 2

Approved: February 25, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102057902 WG357315-01
Report Date/Time: Thursday, February 24, 2011 15:32:32
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: L1102057902S WG357315-04

Sample Date/Time: Thursday, February 24, 2011 15:37:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20621.385	-0.00				ug/L
|	Be	9	1620.131	0.01	5.0880	0.240	4.719	ug/L
|	Al	27	56911.723	0.18	8.6266	0.526	6.102	ug/L
⌊>	Sc	45	286857.801	286857.80				ug/L
⌈	Ti	49	166.685	0.00	0.1364	0.145	106.269	ug/L
|	V	51	53747.315	0.11	5.1982	0.121	2.337	ug/L
|	Cr	52	52951.068	0.10	5.5332	0.202	3.649	ug/L
|	Cr	53	7310.077	0.02	7.3779	0.513	6.960	ug/L
|	Mn	55	78684.547	0.17	6.2866	0.176	2.792	ug/L
|	Co	59	54423.582	0.12	5.2651	0.102	1.944	ug/L
|	Ni	60	11767.375	0.03	5.4371	0.174	3.203	ug/L
|	Cu	65	12268.648	0.03	5.4944	0.201	3.661	ug/L
|	Zn	66	9878.310	0.02	7.3129	0.201	2.754	ug/L
|>	Ge	72	448908.598	448908.60				ug/L
|	As	75	5548.303	0.01	5.5963	0.054	0.968	ug/L
|	Se	77	518.013	0.00	6.1807	0.477	7.720	ug/L
|	Se	82	604.642	0.00	6.4968	0.217	3.340	ug/L
⌊	Rb	85	1634.483	0.00				mg/L
	Y	89	279147.239	-9062.47				ug/L
	Rh	103	38.000	29.00				ug/L
⌈	Mo	98	163.724	0.00	0.0898	0.003	3.633	ug/L
|	Ag	107	22482.814	0.07	4.9490	0.056	1.123	ug/L
|	Cd	114	5983.014	0.02	5.4984	0.233	4.233	ug/L
|>	In	115	343380.875	343380.88				ug/L
|	Sn	118	115.867	0.00	0.0080	0.002	20.596	ug/L
⌊	Sb	123	19502.691	0.06	5.3961	0.033	0.606	ug/L
⌈	Ba	135	21534.716	0.05	13.6165	0.363	2.669	ug/L
|	Ce	140	213.357	0.00				ug/L
⌊>	Tb	159	477386.690	477386.69				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	36739.405	0.08	5.2096	0.287	5.500	ug/L
|	Tl	205	91442.150	0.20	5.2454	0.155	2.948	ug/L
|	Pb	206	31092.911	0.07	5.3409	0.195	3.643	ug/L
|	Pb	207	27350.973	0.06	5.1069	0.232	4.540	ug/L
|	Pb	208	126032.621	0.27	5.2743	0.222	4.216	ug/L
|	U	238	189818.708	0.42	5.2178	0.127	2.427	ug/L
⌊>	Bi	209	457601.149	457601.15				ug/L

Sample ID: L1102057902S WG357315-04
Report Date/Time: Thursday, February 24, 2011 15:39:19
Page 1

Approved: February 25, 2011

⌈	Na	23	221535680.498	772.72	37.4200	2.246	6.002	mg/L
|	Mg	24	9318600.693	32.50	2.5081	0.109	4.327	mg/L
|	K	39	2026706.966	5.14	0.1609	0.009	5.370	mg/L
|	Ca	43	33348.896	0.12	1.6835	0.049	2.911	mg/L
|	Fe	54	79335.847	0.11	0.0535	0.002	3.938	mg/L
|	Fe	57	20269.302	0.05	0.0495	0.005	9.440	mg/L
⌊>	Sc-1	45	286857.801	286857.80				mg/L
	Cl	35	1228859.186	1211942.88				mg/L
	Kr	83	44.334	-4.00				mg/L
	Br	81	85975.548	76927.45				mg/L
	P	31	50111.275	38783.46				mg/L
	S	34	257708.246	58178.14				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.163			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.957			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.615			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.099			
⌈	Na	23					

Sample ID: L1102057902S WG357315-04
Report Date/Time: Thursday, February 24, 2011 15:39:19
Page 2

Approved: February 25, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102057902S WG357315-04
Report Date/Time: Thursday, February 24, 2011 15:39:19
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: L1102057902SD WG357315-05

Sample Date/Time: Thursday, February 24, 2011 15:43:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 19
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20654.852	0.00				ug/L
|	Be	9	1476.776	0.01	4.9368	0.424	8.593	ug/L
|	Al	27	58353.148	0.20	9.4728	0.313	3.301	ug/L
⌊>	Sc	45	269347.662	269347.66				ug/L
⌈	Ti	49	136.681	0.00	0.1000	0.009	8.635	ug/L
|	V	51	51918.042	0.12	5.2665	0.130	2.466	ug/L
|	Cr	52	50474.641	0.10	5.5287	0.207	3.744	ug/L
|	Cr	53	7063.205	0.02	7.4795	0.469	6.268	ug/L
|	Mn	55	74463.353	0.17	6.2365	0.123	1.974	ug/L
|	Co	59	50623.067	0.12	5.1340	0.155	3.028	ug/L
|	Ni	60	11136.655	0.03	5.3950	0.301	5.587	ug/L
|	Cu	65	11534.767	0.03	5.4140	0.108	1.991	ug/L
|	Zn	66	9329.779	0.02	7.2368	0.204	2.812	ug/L
| >	Ge	72	428165.614	428165.61				ug/L
|	As	75	5335.025	0.01	5.6410	0.117	2.083	ug/L
|	Se	77	507.346	0.00	6.3706	0.283	4.447	ug/L
|	Se	82	528.288	0.00	5.9484	0.253	4.258	ug/L
⌊	Rb	85	1600.144	0.00				mg/L
	Y	89	264916.471	-23293.24				ug/L
	Rh	103	28.667	19.67				ug/L
⌈	Mo	98	141.093	0.00	0.0850	0.005	5.735	ug/L
|	Ag	107	20965.523	0.07	4.9946	0.112	2.243	ug/L
|	Cd	114	5366.142	0.02	5.3389	0.096	1.791	ug/L
| >	In	115	317234.861	317234.86				ug/L
|	Sn	118	99.334	0.00	0.0058	0.001	16.066	ug/L
⌊	Sb	123	18105.387	0.06	5.4225	0.014	0.265	ug/L
⌈	Ba	135	20438.747	0.05	13.7019	0.176	1.287	ug/L
|	Ce	140	230.026	0.00				ug/L
⌊>	Tb	159	450107.714	450107.71				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	33491.772	0.08	5.4119	0.133	2.466	ug/L
|	Tl	205	81721.078	0.20	5.3480	0.043	0.808	ug/L
|	Pb	206	28062.017	0.07	5.4969	0.113	2.047	ug/L
|	Pb	207	24534.397	0.06	5.2219	0.161	3.087	ug/L
|	Pb	208	114108.092	0.28	5.4450	0.132	2.429	ug/L
|	U	238	174103.063	0.43	5.4563	0.166	3.035	ug/L
⌊>	Bi	209	400745.821	400745.82				ug/L

Sample ID: L1102057902SD WG357315-05
Report Date/Time: Thursday, February 24, 2011 15:46:05
Page 1

Approved: February 25, 2011

⌈	Na	23	208341693.907	773.63	37.4643	2.061	5.502	mg/L
|	Mg	24	8795951.489	32.65	2.5194	0.039	1.567	mg/L
|	K	39	1967239.644	5.38	0.1686	0.005	3.032	mg/L
|	Ca	43	32666.608	0.12	1.7561	0.034	1.951	mg/L
|	Fe	54	77594.867	0.12	0.0589	0.011	17.962	mg/L
|	Fe	57	19113.497	0.05	0.0499	0.003	6.626	mg/L
⌊>	Sc-1	45	269347.662	269347.66				mg/L
	Cl	35	1143654.795	1126738.48				mg/L
	Kr	83	46.001	-2.33				mg/L
	Br	81	48462.483	39414.39				mg/L
	P	31	45501.376	34173.56				mg/L
	S	34	223816.706	24286.60				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.673			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.650			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.980			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		88.538			
⌈	Na	23					

Sample ID: L1102057902SD WG357315-05
Report Date/Time: Thursday, February 24, 2011 15:46:05
Page 2

Approved: February 25, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102057902SD WG357315-05
Report Date/Time: Thursday, February 24, 2011 15:46:05
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: L1102057902PS WG357403-01

Sample Date/Time: Thursday, February 24, 2011 15:50:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 20
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23059.899	0.01				ug/L
|	Be	9	12922.355	0.05	41.7736	1.552	3.716	ug/L
|	Al	27	320817.111	1.14	53.1319	1.048	1.972	ug/L
⌊>	Sc	45	277274.957	277274.96				ug/L
⌈	Ti	49	586.743	0.00	0.7969	0.131	16.376	ug/L
|	V	51	406481.063	0.89	40.4468	0.971	2.402	ug/L
|	Cr	52	342691.884	0.74	40.6343	1.762	4.336	ug/L
|	Cr	53	41352.942	0.09	42.5484	2.208	5.189	ug/L
|	Mn	55	531012.782	1.17	42.2472	0.499	1.182	ug/L
|	Co	59	421321.806	0.93	40.3854	2.146	5.314	ug/L
|	Ni	60	88962.696	0.20	40.8879	0.972	2.377	ug/L
|	Cu	65	90031.531	0.20	40.2606	0.917	2.278	ug/L
|	Zn	66	53347.488	0.12	40.7324	0.330	0.811	ug/L
|>	Ge	72	453031.937	453031.94				ug/L
|	As	75	42320.854	0.09	41.3005	0.850	2.059	ug/L
|	Se	77	3052.466	0.01	40.5050	1.019	2.515	ug/L
|	Se	82	3882.719	0.01	41.5666	0.699	1.681	ug/L
⌊	Rb	85	1804.848	0.00				mg/L
	Y	89	271456.964	-16752.75				ug/L
	Rh	103	36.667	27.67				ug/L
⌈	Mo	98	167.053	0.00	0.0907	0.004	4.666	ug/L
|	Ag	107	174143.617	0.50	38.0118	0.666	1.751	ug/L
|	Cd	114	45817.873	0.13	41.7324	1.522	3.648	ug/L
|>	In	115	346172.794	346172.79				ug/L
|	Sn	118	355.873	0.00	0.0696	0.003	4.089	ug/L
⌊	Sb	123	148646.907	0.43	40.8579	0.263	0.644	ug/L
⌈	Ba	135	76718.691	0.16	48.5002	1.633	3.367	ug/L
|	Ce	140	850.122	0.00				ug/L
⌊>	Tb	159	477407.718	477407.72				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	283713.739	0.64	41.2453	0.855	2.073	ug/L
|	Tl	205	678577.772	1.52	39.8093	0.718	1.805	ug/L
|	Pb	206	234017.422	0.52	41.5786	1.013	2.437	ug/L
|	Pb	207	206544.010	0.46	39.9138	0.841	2.107	ug/L
|	Pb	208	961494.791	2.16	41.6621	1.063	2.552	ug/L
|	U	238	1467893.196	3.30	41.3770	0.841	2.032	ug/L
⌊>	Bi	209	445501.165	445501.16				ug/L

Sample ID: L1102057902PS WG357403-01
Report Date/Time: Thursday, February 24, 2011 15:52:53
Page 1

Approved: February 25, 2011

⌈	Na	23	213132125.961	768.47	37.2142	1.552	4.170	mg/L
|	Mg	24	8636103.126	31.14	2.4034	0.062	2.576	mg/L
|	K	39	2009492.029	5.33	0.1667	0.005	2.942	mg/L
|	Ca	43	32469.252	0.12	1.6960	0.070	4.139	mg/L
|	Fe	54	92904.497	0.17	0.0796	0.006	8.046	mg/L
|	Fe	57	24302.064	0.06	0.0678	0.007	11.053	mg/L
⌊>	Sc-1	45	277274.957	277274.96				mg/L
	Cl	35	1182636.929	1165720.62				mg/L
	Kr	83	49.001	0.67				mg/L
	Br	81	64179.377	55131.28				mg/L
	P	31	48723.822	37396.01				mg/L
	S	34	260215.907	60685.80				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.055			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.737			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.620			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.426			
⌈	Na	23					

Sample ID: L1102057902PS WG357403-01
Report Date/Time: Thursday, February 24, 2011 15:52:53

Approved: February 25, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102057902PS WG357403-01
Report Date/Time: Thursday, February 24, 2011 15:52:53
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: L1102057902SDL WG357403-02

Sample Date/Time: Thursday, February 24, 2011 15:57:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22375.092	0.01				ug/L
|	Be	9	10.667	0.00	0.0592	0.003	5.250	ug/L
|	Al	27	21105.637	0.06	3.0380	0.185	6.084	ug/L
⌊>	Sc	45	269997.731	269997.73				ug/L
⌈	Ti	49	160.017	0.00	0.1228	0.031	24.900	ug/L
|	V	51	2482.297	0.00	0.0168	0.008	50.150	ug/L
|	Cr	52	8815.306	0.00	0.1111	0.014	12.977	ug/L
|	Cr	53	900.131	0.00	0.6688	0.115	17.250	ug/L
|	Mn	55	3403.613	0.01	0.2314	0.003	1.484	ug/L
|	Co	59	162.003	0.00	0.0141	0.001	7.132	ug/L
|	Ni	60	212.338	0.00	0.0732	0.004	5.055	ug/L
|	Cu	65	173.670	0.00	0.0273	0.007	26.716	ug/L
|	Zn	66	2072.902	0.00	1.2194	0.019	1.553	ug/L
|>	Ge	72	455650.414	455650.41				ug/L
|	As	75	-60.857	0.00	0.0931	0.026	27.686	ug/L
|	Se	77	82.000	0.00	0.1920	0.008	4.110	ug/L
|	Se	82	36.293	0.00	0.3440	0.088	25.664	ug/L
⌊	Rb	85	408.012	0.00				mg/L
	Y	89	274158.591	-14051.12				ug/L
	Rh	103	14.000	5.00				ug/L
⌈	Mo	98	42.160	0.00	0.0359	0.002	6.027	ug/L
|	Ag	107	67.668	0.00	0.0190	0.000	2.098	ug/L
|	Cd	114	3.777	0.00	0.0052	0.007	127.615	ug/L
|>	In	115	353840.124	353840.12				ug/L
|	Sn	118	67.200	-0.00	-0.0052	0.001	9.833	ug/L
⌊	Sb	123	414.961	0.00	0.1015	0.008	7.997	ug/L
⌈	Ba	135	2623.704	0.01	1.6537	0.041	2.483	ug/L
|	Ce	140	163.351	0.00				ug/L
⌊>	Tb	159	480016.581	480016.58				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	138.336	0.00	0.0237	0.002	8.729	ug/L
|	Tl	205	360.043	0.00	0.0451	0.002	3.620	ug/L
|	Pb	206	434.347	0.00	0.0292	0.001	2.681	ug/L
|	Pb	207	382.678	0.00	0.0226	0.003	14.121	ug/L
|	Pb	208	1707.407	0.00	0.0189	0.001	4.150	ug/L
|	U	238	195.004	0.00	0.0142	0.001	5.218	ug/L
⌊>	Bi	209	453935.958	453935.96				ug/L

Approved: February 25, 2011

⌈	Na	23	44534779.355	164.89	7.9858	0.083	1.045	mg/L
|	Mg	24	1946397.089	7.21	0.5569	0.012	2.105	mg/L
|	K	39	873016.375	1.31	0.0389	0.002	6.293	mg/L
|	Ca	43	6652.881	0.02	0.3488	0.021	5.881	mg/L
|	Fe	54	53588.158	0.03	0.0188	0.004	20.215	mg/L
|	Fe	57	10796.907	0.01	0.0165	0.000	2.571	mg/L
⌊>	Sc-1	45	269997.731	269997.73				mg/L
	Cl	35	258167.498	241251.19				mg/L
	Kr	83	43.001	-5.33				mg/L
	Br	81	25062.705	16014.61				mg/L
	P	31	20109.549	8781.73				mg/L
	S	34	215980.872	16450.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.622			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.879			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.159			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.290			
⌈	Na	23					

Sample ID: L1102057902SDL WG357403-02
Report Date/Time: Thursday, February 24, 2011 15:59:40

Approved: February 25, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102057902SDL WG357403-02
Report Date/Time: Thursday, February 24, 2011 15:59:40
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, February 24, 2011 16:04:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22659.021	0.01				ug/L
|	Be	9	15899.322	0.06	50.5782	3.117	6.163	ug/L
|	Al	27	309493.023	1.08	50.3582	1.729	3.433	ug/L
⌊>	Sc	45	281990.768	281990.77				ug/L
⌈	Ti	49	65386.422	0.14	99.1845	3.536	3.565	ug/L
|	V	51	509765.269	1.08	48.9640	0.738	1.507	ug/L
|	Cr	52	422107.482	0.88	48.4429	0.286	0.590	ug/L
|	Cr	53	49252.583	0.10	48.9055	0.619	1.265	ug/L
|	Mn	55	640747.344	1.36	49.1704	0.305	0.620	ug/L
|	Co	59	530495.985	1.13	49.0499	1.310	2.670	ug/L
|	Ni	60	111080.105	0.24	49.2372	1.000	2.031	ug/L
|	Cu	65	113814.780	0.24	49.0924	1.404	2.861	ug/L
|	Zn	66	67127.225	0.14	49.5071	0.456	0.921	ug/L
| >	Ge	72	469782.179	469782.18				ug/L
|	As	75	52020.313	0.11	48.9290	0.317	0.648	ug/L
|	Se	77	3872.750	0.01	49.7638	0.384	0.771	ug/L
|	Se	82	4682.158	0.01	48.3465	1.035	2.140	ug/L
⌊	Rb	85	1936.207	0.00				mg/L
	Y	89	279372.679	-8837.03				ug/L
	Rh	103	25.000	16.00				ug/L
⌈	Mo	98	235412.697	0.65	98.1029	2.289	2.333	ug/L
|	Ag	107	235490.561	0.65	49.1634	0.652	1.326	ug/L
|	Cd	114	56235.383	0.16	49.0375	0.736	1.501	ug/L
| >	In	115	361835.822	361835.82				ug/L
|	Sn	118	194851.436	0.54	48.0797	0.454	0.945	ug/L
⌊	Sb	123	184368.316	0.51	48.4885	0.124	0.256	ug/L
⌈	Ba	135	79501.984	0.16	49.1527	1.793	3.648	ug/L
|	Ce	140	46.671	0.00				ug/L
⌊>	Tb	159	488332.322	488332.32				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	360220.604	0.74	48.1603	1.371	2.848	ug/L
|	Tl	205	855072.592	1.77	46.1367	1.708	3.702	ug/L
|	Pb	206	286870.104	0.59	46.8865	1.494	3.186	ug/L
|	Pb	207	266019.890	0.55	47.3036	1.025	2.166	ug/L
|	Pb	208	1203500.475	2.48	47.9797	1.146	2.389	ug/L
|	U	238	1857941.022	3.84	48.1940	1.434	2.975	ug/L
⌊>	Bi	209	483967.485	483967.49				ug/L

Sample ID: QC Std 6
Report Date/Time: Thursday, February 24, 2011 16:06:27
Page 1

Approved: February 25, 2011

⌈	Na	23	29165100.616	103.44	5.0100	0.176	3.519	mg/L
|	Mg	24	17821147.081	63.26	4.8814	0.222	4.540	mg/L
|	K	39	43898739.223	153.80	4.8956	0.162	3.314	mg/L
|	Ca	43	98001.422	0.35	5.0555	0.186	3.674	mg/L
|	Fe	54	3193435.540	11.16	4.9739	0.162	3.264	mg/L
|	Fe	57	1350906.991	4.77	5.1379	0.398	7.740	mg/L
⌊>	Sc-1	45	281990.768	281990.77				mg/L
	Cl	35	19788.897	2872.59				mg/L
	Kr	83	38.667	-9.67				mg/L
	Br	81	12162.062	3113.97				mg/L
	P	31	15188.226	3860.41				mg/L
	S	34	248838.324	49308.22				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	97.928				
|	Cr	52	96.886				
|	Cr	53					
|	Mn	55	98.341				
|	Co	59	98.100				
|	Ni	60	98.474				
|	Cu	65	98.185				
|	Zn	66	99.014				
|>	Ge	72		101.680			
|	As	75	97.858				
|	Se	77					
|	Se	82	96.693				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	98.327				
|	Cd	114	98.075				
|>	In	115		101.114			
|	Sn	118					
⌊	Sb	123	96.977				
⌈	Ba	135	98.305				
|	Ce	140					
⌊>	Tb	159		100.877			
⌈	Ho	165					
|	Tl	203	96.321				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	95.959				
|	U	238	96.388				
⌊>	Bi	209		106.924			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Thursday, February 24, 2011 16:06:27

Approved: February 25, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Thursday, February 24, 2011 16:06:27
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, February 24, 2011 16:11:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22274.785	0.00				ug/L
|	Be	9	6.667	0.00	0.0444	0.025	55.635	ug/L
|	Al	27	2416.963	-0.01	-0.1973	0.065	33.083	ug/L
⌊>	Sc	45	285452.795	285452.79				ug/L
⌈	Ti	49	53.339	0.00	-0.0455	0.017	37.981	ug/L
|	V	51	2510.806	0.00	0.0161	0.005	29.066	ug/L
|	Cr	52	8340.227	0.00	0.0394	0.026	67.070	ug/L
|	Cr	53	373.378	0.00	0.1211	0.061	50.056	ug/L
|	Mn	55	360.677	0.00	-0.0100	0.001	7.711	ug/L
|	Co	59	103.335	0.00	0.0084	0.001	15.964	ug/L
|	Ni	60	41.000	-0.00	-0.0054	0.001	23.338	ug/L
|	Cu	65	111.335	-0.00	-0.0011	0.002	184.285	ug/L
|	Zn	66	494.684	0.00	0.0049	0.023	475.678	ug/L
|>	Ge	72	462366.886	462366.89				ug/L
|	As	75	-129.354	0.00	0.0289	0.009	30.717	ug/L
|	Se	77	63.334	0.00	-0.0726	0.194	266.666	ug/L
|	Se	82	17.334	0.00	0.1393	0.072	51.484	ug/L
⌊	Rb	85	17.000	0.00				mg/L
	Y	89	280544.039	-7665.67				ug/L
	Rh	103	8.667	-0.33				ug/L
⌈	Mo	98	78.165	0.00	0.0510	0.003	6.675	ug/L
|	Ag	107	30.667	0.00	0.0111	0.002	14.051	ug/L
|	Cd	114	-1.976	-0.00	0.0002	0.004	2841.817	ug/L
|>	In	115	355888.839	355888.84				ug/L
|	Sn	118	230.803	0.00	0.0358	0.004	9.965	ug/L
⌊	Sb	123	100.370	-0.00	0.0168	0.004	21.487	ug/L
⌈	Ba	135	30.667	0.00	0.0240	0.001	3.569	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	496639.122	496639.12				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	33.334	0.00	0.0086	0.001	15.200	ug/L
|	Tl	205	70.007	0.00	0.0283	0.003	10.673	ug/L
|	Pb	206	407.679	0.00	0.0229	0.001	2.981	ug/L
|	Pb	207	354.010	0.00	0.0156	0.001	9.500	ug/L
|	Pb	208	1641.736	0.00	0.0145	0.002	13.729	ug/L
|	U	238	148.669	0.00	0.0129	0.001	4.532	ug/L
⌊>	Bi	209	464890.586	464890.59				ug/L

Sample ID: QC Std 7
Report Date/Time: Thursday, February 24, 2011 16:13:41
Page 1

Approved: February 25, 2011

⌈	Na	23	20315.980	0.01	0.0013	0.000	10.281	mg/L
|	Mg	24	450.055	0.00	0.0007	0.000	1.931	mg/L
|	K	39	564709.011	0.06	-0.0011	0.001	71.788	mg/L
|	Ca	43	216.691	0.00	0.0007	0.003	399.994	mg/L
|	Fe	54	46960.488	0.00	0.0038	0.005	120.136	mg/L
|	Fe	57	7903.918	0.00	0.0033	0.002	71.425	mg/L
⌊>	Sc-1	45	285452.795	285452.79				mg/L
	Cl	35	17274.909	358.60				mg/L
	Kr	83	38.334	-10.00				mg/L
	Br	81	10784.481	1736.39				mg/L
	P	31	12124.710	796.90				mg/L
	S	34	224340.037	24809.93				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.075			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.452			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.592			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.710			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Thursday, February 24, 2011 16:13:41

Approved: February 25, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Thursday, February 24, 2011 16:13:41
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: L1102054202

Sample Date/Time: Thursday, February 24, 2011 16:18:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 100

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20571.191	-0.00				ug/L
|	Be	9	12.000	0.00	0.0624	0.006	9.270	ug/L
|	Al	27	239552.171	0.84	39.3787	1.150	2.920	ug/L
⌊>	Sc	45	278459.550	278459.55				ug/L
⌈	Ti	49	350.041	0.00	0.4118	0.009	2.119	ug/L
|	V	51	3305.547	0.00	0.0936	0.011	12.158	ug/L
|	Cr	52	8869.354	0.00	0.1012	0.032	32.083	ug/L
|	Cr	53	330.039	0.00	0.0763	0.065	85.698	ug/L
|	Mn	55	57066.956	0.12	4.4108	0.119	2.691	ug/L
|	Co	59	178.670	0.00	0.0154	0.001	8.180	ug/L
|	Ni	60	128.002	0.00	0.0337	0.005	16.132	ug/L
|	Cu	65	1748.170	0.00	0.7164	0.041	5.782	ug/L
|	Zn	66	3677.380	0.01	2.4052	0.108	4.492	ug/L
| >	Ge	72	462900.931	462900.93				ug/L
|	As	75	-84.966	0.00	0.0713	0.027	37.395	ug/L
|	Se	77	78.000	0.00	0.1224	0.093	75.702	ug/L
|	Se	82	1.652	-0.00	-0.0262	0.082	314.645	ug/L
⌊	Rb	85	798.707	0.00				mg/L
	Y	89	283251.768	-4957.94				ug/L
	Rh	103	10.333	1.33				ug/L
⌈	Mo	98	54.571	0.00	0.0408	0.003	6.575	ug/L
|	Ag	107	24.000	0.00	0.0096	0.001	9.435	ug/L
|	Cd	114	8.943	0.00	0.0097	0.004	38.082	ug/L
| >	In	115	359479.992	359479.99				ug/L
|	Sn	118	165.335	0.00	0.0189	0.002	11.683	ug/L
⌊	Sb	123	94.952	-0.00	0.0151	0.003	19.541	ug/L
⌈	Ba	135	641.694	0.00	0.4160	0.007	1.764	ug/L
|	Ce	140	713.430	0.00				ug/L
⌊>	Tb	159	471452.824	471452.82				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	32.334	0.00	0.0083	0.001	7.721	ug/L
|	Tl	205	80.008	0.00	0.0287	0.002	6.218	ug/L
|	Pb	206	4918.594	0.01	0.7759	0.031	3.950	ug/L
|	Pb	207	4463.374	0.01	0.7627	0.029	3.806	ug/L
|	Pb	208	20359.769	0.04	0.7773	0.027	3.437	ug/L
|	U	238	95.001	0.00	0.0114	0.000	1.076	ug/L
⌊>	Bi	209	473692.840	473692.84				ug/L

Sample ID: L1102054202
Report Date/Time: Thursday, February 24, 2011 16:20:27
Page 1

Approved: February 25, 2011

⌈	Na	23	1336454.275	4.74	0.2303	0.005	2.084	mg/L
|	Mg	24	60364.455	0.22	0.0173	0.000	2.044	mg/L
|	K	39	790760.515	0.92	0.0264	0.002	8.318	mg/L
|	Ca	43	1186.856	0.00	0.0517	0.002	3.518	mg/L
|	Fe	54	61026.385	0.06	0.0281	0.006	21.398	mg/L
|	Fe	57	13196.718	0.02	0.0245	0.004	15.379	mg/L
⌊>	Sc-1	45	278459.550	278459.55				mg/L
	Cl	35	20537.745	3621.43				mg/L
	Kr	83	40.000	-8.33				mg/L
	Br	81	10173.186	1125.09				mg/L
	P	31	13943.768	2615.95				mg/L
	S	34	224002.878	24472.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.191			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.455			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.390			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.654			
⌈	Na	23					

Sample ID: L1102054202
Report Date/Time: Thursday, February 24, 2011 16:20:27
Page 2

Approved: February 25, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102054202
Report Date/Time: Thursday, February 24, 2011 16:20:27
Page 3

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, February 24, 2011 16:25:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20471.065	-0.00				ug/L
|	Be	9	15210.930	0.05	48.7344	5.820	11.941	ug/L
|	Al	27	297702.458	1.05	48.7260	3.397	6.972	ug/L
⌊>	Sc	45	280967.241	280967.24				ug/L
⌈	Ti	49	62511.157	0.14	97.1461	3.770	3.881	ug/L
|	V	51	491353.858	1.07	48.3472	1.234	2.553	ug/L
|	Cr	52	416491.155	0.89	48.9801	1.061	2.165	ug/L
|	Cr	53	49212.398	0.11	50.0753	1.503	3.001	ug/L
|	Mn	55	619786.137	1.35	48.7280	1.007	2.066	ug/L
|	Co	59	512827.339	1.12	48.5752	0.753	1.549	ug/L
|	Ni	60	107208.780	0.23	48.6778	0.188	0.387	ug/L
|	Cu	65	110856.929	0.24	48.9801	0.135	0.277	ug/L
|	Zn	66	64917.358	0.14	49.0427	0.253	0.516	ug/L
⌊>	Ge	72	458589.573	458589.57				ug/L
|	As	75	51181.131	0.11	49.3168	0.623	1.264	ug/L
|	Se	77	3790.718	0.01	49.9091	1.135	2.274	ug/L
|	Se	82	4788.811	0.01	50.6579	1.136	2.242	ug/L
⌊	Rb	85	1925.205	0.00				mg/L
	Y	89	275558.933	-12650.78				ug/L
	Rh	103	22.334	13.33				ug/L
⌈	Mo	98	234422.541	0.67	101.5865	2.105	2.072	ug/L
|	Ag	107	233199.076	0.67	50.6400	1.231	2.432	ug/L
|	Cd	114	54461.993	0.16	49.4164	3.154	6.382	ug/L
⌊>	In	115	347950.779	347950.78				ug/L
|	Sn	118	189468.544	0.54	48.6263	0.999	2.054	ug/L
⌊	Sb	123	177612.201	0.51	48.5848	0.623	1.282	ug/L
⌈	Ba	135	78582.379	0.16	49.0934	0.341	0.695	ug/L
|	Ce	140	26.669	0.00				ug/L
⌊>	Tb	159	482895.940	482895.94				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	350143.131	0.75	48.6214	0.800	1.645	ug/L
|	Tl	205	853570.443	1.83	47.8153	0.997	2.084	ug/L
|	Pb	206	283248.433	0.61	48.0743	0.682	1.419	ug/L
|	Pb	207	260517.466	0.56	48.1104	1.383	2.875	ug/L
|	Pb	208	1172659.270	2.51	48.5529	0.963	1.983	ug/L
|	U	238	1780421.646	3.82	47.9319	1.002	2.091	ug/L
⌊>	Bi	209	466244.335	466244.34				ug/L

Sample ID: QC Std 6
Report Date/Time: Thursday, February 24, 2011 16:27:14
Page 1

Approved: February 25, 2011

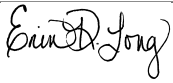
Na	23	28372709.627	101.10	4.8968	0.239	4.873	mg/L
Mg	24	17056025.431	60.81	4.6924	0.222	4.722	mg/L
K	39	43030846.545	151.55	4.8239	0.349	7.231	mg/L
Ca	43	94009.303	0.33	4.8727	0.224	4.599	mg/L
Fe	54	3121145.445	10.96	4.8847	0.249	5.088	mg/L
Fe	57	1256095.326	4.46	4.7940	0.272	5.665	mg/L
> Sc-1	45	280967.241	280967.24				mg/L
Cl	35	19134.958	2218.65				mg/L
Kr	83	46.667	-1.67				mg/L
Br	81	10024.358	976.26				mg/L
P	31	14338.445	3010.63				mg/L
S	34	246770.192	47240.09				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	96.694				
Cr	52	97.960				
Cr	53					
Mn	55	97.456				
Co	59	97.150				
Ni	60	97.356				
Cu	65	97.960				
Zn	66	98.085				
> Ge	72		99.258			
As	75	98.634				
Se	77					
Se	82	101.316				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.280				
Cd	114	98.833				
> In	115		97.234			
Sn	118					
Sb	123	97.170				
Ba	135	98.187				
Ce	140					
> Tb	159		99.754			
Ho	165					
Tl	203	97.243				
Tl	205					
Pb	206					
Pb	207					
Pb	208	97.106				
U	238	95.864				
> Bi	209		103.009			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Thursday, February 24, 2011 16:27:14
Page 2

Approved: February 25, 2011



|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Thursday, February 24, 2011 16:27:14

Approved: February 25, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, February 24, 2011 16:32:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19552.498	-0.01				ug/L
|	Be	9	5.333	0.00	0.0406	0.004	8.989	ug/L
|	Al	27	2066.893	-0.01	-0.2551	0.102	40.009	ug/L
⌊>	Sc	45	285535.830	285535.83				ug/L
⌈	Ti	49	46.671	0.00	-0.0557	0.023	41.955	ug/L
|	V	51	2460.493	0.00	0.0113	0.005	39.721	ug/L
|	Cr	52	8210.451	0.00	0.0248	0.013	54.195	ug/L
|	Cr	53	296.701	-0.00	0.0438	0.016	37.512	ug/L
|	Mn	55	367.010	0.00	-0.0094	0.003	36.673	ug/L
|	Co	59	111.668	0.00	0.0092	0.001	6.614	ug/L
|	Ni	60	37.667	-0.00	-0.0069	0.002	33.617	ug/L
|	Cu	65	96.001	-0.00	-0.0078	0.003	42.876	ug/L
|	Zn	66	499.351	0.00	0.0089	0.011	127.488	ug/L
|>	Ge	72	461914.660	461914.66				ug/L
|	As	75	-158.143	0.00	0.0013	0.019	1492.515	ug/L
|	Se	77	70.000	0.00	0.0177	0.077	435.380	ug/L
|	Se	82	4.890	0.00	0.0086	0.052	607.718	ug/L
⌊	Rb	85	18.667	0.00				mg/L
	Y	89	281093.990	-7115.72				ug/L
	Rh	103	5.333	-3.67				ug/L
⌈	Mo	98	82.937	0.00	0.0526	0.003	5.621	ug/L
|	Ag	107	27.667	0.00	0.0104	0.002	18.729	ug/L
|	Cd	114	1.297	-0.00	0.0030	0.004	127.608	ug/L
|>	In	115	360314.020	360314.02				ug/L
|	Sn	118	237.336	0.00	0.0366	0.007	18.072	ug/L
⌊	Sb	123	68.036	-0.00	0.0079	0.002	23.543	ug/L
⌈	Ba	135	30.667	0.00	0.0245	0.001	6.035	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	483369.693	483369.69				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	27.334	0.00	0.0077	0.000	3.201	ug/L
|	Tl	205	86.676	0.00	0.0292	0.000	0.942	ug/L
|	Pb	206	412.346	0.00	0.0232	0.003	15.046	ug/L
|	Pb	207	350.010	0.00	0.0145	0.004	28.809	ug/L
|	Pb	208	1617.067	0.00	0.0131	0.004	28.313	ug/L
|	U	238	124.002	0.00	0.0122	0.000	3.059	ug/L
⌊>	Bi	209	467587.169	467587.17				ug/L

Sample ID: QC Std 7
Report Date/Time: Thursday, February 24, 2011 16:34:28
Page 1

Approved: February 25, 2011

⌈	Na	23	18575.771	0.00	0.0010	0.000	10.223	mg/L
|	Mg	24	346.707	0.00	0.0006	0.000	0.950	mg/L
|	K	39	571545.706	0.08	-0.0004	0.001	168.981	mg/L
|	Ca	43	166.685	-0.00	-0.0019	0.002	83.903	mg/L
|	Fe	54	45524.103	-0.00	0.0014	0.004	259.493	mg/L
|	Fe	57	8280.937	0.00	0.0047	0.003	55.302	mg/L
⌊>	Sc-1	45	285535.830	285535.83				mg/L
	Cl	35	16948.355	32.04				mg/L
	Kr	83	51.001	2.67				mg/L
	Br	81	9333.025	284.93				mg/L
	P	31	12818.964	1491.15				mg/L
	S	34	224050.924	24520.82				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.978			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.689			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.851			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.306			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Thursday, February 24, 2011 16:34:28
Page 2

Approved: February 25, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Thursday, February 24, 2011 16:34:28
Page 3

Approved: February 25, 2011

Instrument Tuning Report

File Name: 06302008.tun
File Path: C:\Elandata\Tuning\06302008.tun

Sample Information

Sample Date/Time: Friday, February 25, 2011 08:54:19

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	2.976	617	2060	0.730	
Li	7.016	7.029	1593	2060	0.707	
Co	58.933	58.928	14283	1972	0.707	
Ce	139.905	139.878	33990	2015	0.731	
Tl	204.975	204.926	49689	2255	0.721	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	1.372
3.000	2.310
4.000	40.457
5.000	10.495
6.000	2.345
7.000	1.698
8.000	23.880
9.000	2.006
58.000	2.406
59.000	1.574
60.000	4.667
139.000	2.893
140.000	1.202
141.000	4.495
204.000	1.831
205.000	1.407
206.000	0.887

Report Date/Time: Friday, February 25, 2011 08:55:30
Page 1

Approved: February 28, 2011

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Friday, February 25, 2011 09:00:11
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\elandata\Dataset\021011\Sample.815
Tuning File: C:\Elandata\Tuning\06302008.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	45466.3	45466.341	638.856	1.4
	Rh	102.9	287544.9	287544.934	2909.261	1.0
	In	114.9	520692.1	520692.090	4493.011	0.9
	Pb	208.0	188498.2	188498.202	1689.136	0.9
	U	238.1	63.1	63.100	6.417	10.2
⌈>	Ba	137.9	238009.1	238009.097	2056.165	0.9
⌊	Ba++	69.0	3370.6	0.014	0.000	1.4
⌈>	Ce	139.9	302207.3	302207.290	2297.089	0.8
⌊	CeO	155.9	7506.8	0.025	0.001	3.7
	Bkgd	220.0	3.9	3.900	1.194	30.6
	Ar2	79.9	3627562.8	3627562.840	30626.080	0.8

Current Optimization File Data

Current Value	Description
0.95	Nebulizer Gas Flow
6.70	Lens Voltage
1500.00	ICP RF Power
-1834.38	Analog Stage Voltage
1000.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	7.5	4793.5
Co	59	33	8.0	129402.2
Rh	103	33	9.0	140311.8
Pb	208	33	11.3	172960.6

Sample ID: Sample
Report Date/Time: Friday, February 25, 2011 09:02:19
Page 1

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, February 25, 2011 09:36:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

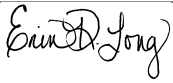
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19402.385					ug/L
|	Be	9	3.333					ug/L
|	Al	27	1700.150					ug/L
|>	Sc	45	307198.640					ug/L
⌈	Ti	49	56.673					ug/L
|	V	51	2537.754					ug/L
|	Cr	52	8536.728					ug/L
|	Cr	53	600.079					ug/L
|	Mn	55	469.349					ug/L
|	Co	59	90.335					ug/L
|	Ni	60	60.001					ug/L
|	Cu	65	93.668					ug/L
|	Zn	66	489.684					ug/L
|>	Ge	72	464977.945					ug/L
|	As	75	-110.681					ug/L
|	Se	77	63.334					ug/L
|	Se	82	16.021					ug/L
⌊	Rb	85	14.667					mg/L
	Y	89	290697.189					ug/L
	Rh	103	8.333					ug/L
⌈	Mo	98	10.899					ug/L
|	Ag	107	12.667					ug/L
|	Cd	114	1.201					ug/L
|>	In	115	358477.734					ug/L
|	Sn	118	60.667					ug/L
⌊	Sb	123	43.581					ug/L
⌈	Ba	135	10.333					ug/L
|	Ce	140	13.335					ug/L
⌊>	Tb	159	500683.467					ug/L
⌈	Ho	165	3.334					ug/L
|	Tl	203	22.000					ug/L
|	Tl	205	33.337					ug/L
|	Pb	206	362.677					ug/L
|	Pb	207	326.675					ug/L
|	Pb	208	1504.394					ug/L
|	U	238	12.667					ug/L
⌊>	Bi	209	512565.900					ug/L

Sample ID: Blank
Report Date/Time: Friday, February 25, 2011 09:38:23
Page 1

Approved: February 28, 2011



⌈	Na	23	106969.863	mg/L
|	Mg	24	253.362	mg/L
|	K	39	579572.814	mg/L
|	Ca	43	156.684	mg/L
|	Fe	54	43375.214	mg/L
|	Fe	57	6762.968	mg/L
⌊>	Sc-1	45	307198.640	mg/L
	Cl	35	19784.888	mg/L
	Kr	83	36.000	mg/L
	Br	81	7160.564	mg/L
	P	31	10123.137	mg/L
	S	34	201766.505	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Blank
Report Date/Time: Friday, February 25, 2011 09:38:23
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Friday, February 25, 2011 09:38:23
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, February 25, 2011 09:42:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

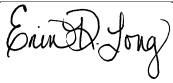
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19586.020	0.00				ug/L
|	Be	9	6.667	0.00				ug/L
|	Al	27	2033.540	0.00				ug/L
⌊>	Sc	45	293307.601	293307.60				ug/L
⌈	Ti	49	60.006	0.00				ug/L
|	V	51	2420.784	-0.00				ug/L
|	Cr	52	8086.684	-0.00				ug/L
|	Cr	53	573.407	-0.00				ug/L
|	Mn	55	448.348	-0.00				ug/L
|	Co	59	85.335	-0.00				ug/L
|	Ni	60	77.334	0.00				ug/L
|	Cu	65	101.668	0.00				ug/L
|	Zn	66	491.684	0.00				ug/L
|>	Ge	72	464752.655	464752.66				ug/L
|	As	75	-143.242	-0.00				ug/L
|	Se	77	68.000	0.00				ug/L
|	Se	82	7.273	-0.00				ug/L
⌊	Rb	85	15.000	0.00				mg/L
	Y	89	285509.406	-5187.78				ug/L
	Rh	103	8.333	0.00				ug/L
⌈	Mo	98	6.936	-0.00				ug/L
|	Ag	107	14.667	0.00				ug/L
|	Cd	114	2.140	0.00				ug/L
|>	In	115	362335.501	362335.50				ug/L
|	Sn	118	58.534	-0.00				ug/L
⌊	Sb	123	35.122	-0.00				ug/L
⌈	Ba	135	9.000	-0.00				ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	497247.995	497248.00				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	17.667	-0.00				ug/L
|	Tl	205	33.337	0.00				ug/L
|	Pb	206	396.345	0.00				ug/L
|	Pb	207	322.675	0.00				ug/L
|	Pb	208	1524.394	0.00				ug/L
|	U	238	9.333	-0.00				ug/L
⌊>	Bi	209	504667.595	504667.59				ug/L

Sample ID: Standard 1
Report Date/Time: Friday, February 25, 2011 09:45:07
Page 1

Approved: February 28, 2011



⌈	Na	23	100152.423	-0.01		mg/L
|	Mg	24	193.355	-0.00		mg/L
|	K	39	560098.260	0.02		mg/L
|	Ca	43	156.684	0.00		mg/L
|	Fe	54	40823.310	-0.00		mg/L
|	Fe	57	6282.607	-0.00		mg/L
⌊>	Sc-1	45	293307.601	293307.60		mg/L
	Cl	35	18068.977	-1715.91		mg/L
	Kr	83	45.334	9.33		mg/L
	Br	81	6940.409	-220.15		mg/L
	P	31	10402.777	279.64		mg/L
	S	34	192197.921	-9568.58		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 1
Report Date/Time: Friday, February 25, 2011 09:45:07

Approved: February 28, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Friday, February 25, 2011 09:45:07
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, February 25, 2011 09:49:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21907.629	0.01				ug/L
|	Be	9	105.334	0.00				ug/L
|	Al	27	4400.969	0.01				ug/L
|>	Sc	45	312147.334	312147.33				ug/L
⌈	Ti	49	496.729	0.00				ug/L
|	V	51	5998.599	0.01				ug/L
|	Cr	52	11001.492	0.01				ug/L
|	Cr	53	886.795	0.00				ug/L
|	Mn	55	5971.842	0.01				ug/L
|	Co	59	3923.476	0.01				ug/L
|	Ni	60	871.047	0.00				ug/L
|	Cu	65	903.717	0.00				ug/L
|	Zn	66	1107.739	0.00				ug/L
|>	Ge	72	467402.594	467402.59				ug/L
|	As	75	220.443	0.00				ug/L
|	Se	77	97.334	0.00				ug/L
|	Se	82	41.957	0.00				ug/L
⌊	Rb	85	31.334	0.00				mg/L
	Y	89	283850.627	-6846.56				ug/L
	Rh	103	3.667	-4.67				ug/L
⌈	Mo	98	1567.070	0.00				ug/L
|	Ag	107	1684.826	0.00				ug/L
|	Cd	114	368.065	0.00				ug/L
|>	In	115	362838.488	362838.49				ug/L
|	Sn	118	1429.035	0.00				ug/L
⌊	Sb	123	1359.892	0.00				ug/L
⌈	Ba	135	542.353	0.00				ug/L
|	Ce	140	10.001	-0.00				ug/L
|>	Tb	159	512663.004	512663.00				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	2611.701	0.01				ug/L
|	Tl	205	6452.733	0.01				ug/L
|	Pb	206	2611.367	0.00				ug/L
|	Pb	207	2406.981	0.00				ug/L
|	Pb	208	10665.331	0.02				ug/L
|	U	238	16333.163	0.03				ug/L
|>	Bi	209	503178.757	503178.76				ug/L

Sample ID: Standard 2
Report Date/Time: Friday, February 25, 2011 09:51:52
Page 1

Approved: February 28, 2011

⌈	Na	23	301044.388	0.62		mg/L
|	Mg	24	142296.959	0.46		mg/L
|	K	39	889155.333	0.96		mg/L
|	Ca	43	893.463	0.00		mg/L
|	Fe	54	66867.741	0.07		mg/L
|	Fe	57	16538.660	0.03		mg/L
⌊>	Sc-1	45	312147.334	312147.33		mg/L
	Cl	35	17151.367	-2633.52		mg/L
	Kr	83	43.334	7.33		mg/L
	Br	81	7064.495	-96.07		mg/L
	P	31	10943.327	820.19		mg/L
	S	34	191541.057	-10225.45		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 2
Report Date/Time: Friday, February 25, 2011 09:51:52
Page 2

Approved: February 28, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Friday, February 25, 2011 09:51:52
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, February 25, 2011 09:56:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19352.062	0.00				ug/L
|	Be	9	13395.652	0.05	50.0000	2.698	5.397	ug/L
|	Al	27	265991.355	0.93	50.0000	0.765	1.531	ug/L
⌊>	Sc	45	285606.032	285606.03				ug/L
⌈	Ti	49	54560.556	0.12	100.0000	0.790	0.790	ug/L
|	V	51	439180.247	0.96	50.0000	0.439	0.877	ug/L
|	Cr	52	365702.825	0.79	50.0000	0.620	1.240	ug/L
|	Cr	53	43555.664	0.09	50.0000	0.468	0.936	ug/L
|	Mn	55	561614.137	1.23	50.0000	0.439	0.878	ug/L
|	Co	59	458659.737	1.01	50.0000	0.471	0.941	ug/L
|	Ni	60	94661.304	0.21	50.0000	1.014	2.029	ug/L
|	Cu	65	97898.438	0.21	50.0000	1.524	3.047	ug/L
|	Zn	66	58380.177	0.13	50.0000	0.663	1.326	ug/L
| >	Ge	72	455156.724	455156.72				ug/L
|	As	75	44180.851	0.10	50.0000	0.187	0.374	ug/L
|	Se	77	3229.855	0.01	50.0000	1.411	2.822	ug/L
|	Se	82	4076.485	0.01	50.0000	0.966	1.932	ug/L
⌊	Rb	85	1665.489	0.00				mg/L
	Y	89	274637.349	-16059.84				ug/L
	Rh	103	23.000	14.67				ug/L
⌈	Mo	98	193618.256	0.55	100.0000	1.837	1.837	ug/L
|	Ag	107	198202.711	0.56	50.0000	1.066	2.133	ug/L
|	Cd	114	47250.869	0.13	50.0000	0.466	0.932	ug/L
| >	In	115	350842.705	350842.71				ug/L
|	Sn	118	164126.356	0.47	50.0000	0.689	1.378	ug/L
⌊	Sb	123	161507.781	0.46	50.0000	1.224	2.448	ug/L
⌈	Ba	135	66429.917	0.13	50.0000	0.249	0.499	ug/L
|	Ce	140	36.670	0.00				ug/L
⌊>	Tb	159	492603.181	492603.18				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	309630.850	0.64	50.0000	0.369	0.739	ug/L
|	Tl	205	768008.680	1.58	50.0000	0.459	0.918	ug/L
|	Pb	206	252236.252	0.52	50.0000	0.489	0.978	ug/L
|	Pb	207	238284.402	0.49	50.0000	0.565	1.130	ug/L
|	Pb	208	1056644.848	2.17	50.0000	0.308	0.617	ug/L
|	U	238	1968212.465	4.04	50.0000	1.203	2.406	ug/L
⌊>	Bi	209	486761.621	486761.62				ug/L

Sample ID: Standard 3
Report Date/Time: Friday, February 25, 2011 09:58:38
Page 1

Approved: February 28, 2011

Na	23	24532635.361	85.59	5.0000	0.141	2.811	mg/L
Mg	24	15217754.365	53.32	5.0000	0.204	4.085	mg/L
K	39	38705982.812	133.71	5.0000	0.183	3.660	mg/L
Ca	43	84272.091	0.29	5.0000	0.218	4.368	mg/L
Fe	54	2750991.530	9.50	5.0000	0.221	4.430	mg/L
Fe	57	1152220.528	4.01	5.0000	0.137	2.736	mg/L
> Sc-1	45	285606.032	285606.03				mg/L
Cl	35	17837.229	-1947.66				mg/L
Kr	83	46.667	10.67				mg/L
Br	81	6724.271	-436.29				mg/L
P	31	9757.425	-365.71				mg/L
S	34	198870.485	-2896.02				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209					
Na	23					

Sample ID: Standard 3
Report Date/Time: Friday, February 25, 2011 09:58:38

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Friday, February 25, 2011 09:58:38
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Friday, February 25, 2011 10:03:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21907.495	0.02				ug/L
|	Be	9	25614.779	0.09	99.0138	1.804	1.822	ug/L
|	Al	27	516791.526	1.85	100.0131	3.635	3.634	ug/L
⌊>	Sc	45	278354.389	278354.39				ug/L
⌈	Ti	49	106642.925	0.24	199.1369	1.375	0.691	ug/L
|	V	51	846405.745	1.88	98.9762	1.730	1.748	ug/L
|	Cr	52	708570.847	1.56	99.6440	1.520	1.525	ug/L
|	Cr	53	83011.705	0.18	98.5773	3.602	3.654	ug/L
|	Mn	55	1066429.669	2.37	98.1649	2.114	2.153	ug/L
|	Co	59	857202.704	1.91	97.3211	1.460	1.500	ug/L
|	Ni	60	178726.584	0.40	97.8468	1.647	1.683	ug/L
|	Cu	65	187117.717	0.42	98.4538	0.469	0.476	ug/L
|	Zn	66	112223.323	0.25	98.9734	0.137	0.138	ug/L
|>	Ge	72	448893.699	448893.70				ug/L
|	As	75	85217.874	0.19	98.8106	0.999	1.011	ug/L
|	Se	77	6143.887	0.01	98.7220	2.562	2.595	ug/L
|	Se	82	7544.963	0.02	96.8817	1.189	1.227	ug/L
⌊	Rb	85	3109.515	0.01				mg/L
	Y	89	263147.352	-27549.84				ug/L
	Rh	103	35.000	26.67				ug/L
⌈	Mo	98	372723.731	1.08	197.4544	1.840	0.932	ug/L
|	Ag	107	377190.583	1.09	98.1797	2.920	2.974	ug/L
|	Cd	114	91012.250	0.26	98.7644	2.864	2.900	ug/L
|>	In	115	346381.830	346381.83				ug/L
|	Sn	118	317849.926	0.92	99.0396	0.122	0.123	ug/L
⌊	Sb	123	313991.405	0.91	99.2296	1.706	1.719	ug/L
⌈	Ba	135	130229.294	0.27	99.4019	3.005	3.023	ug/L
|	Ce	140	70.007	0.00				ug/L
⌊>	Tb	159	488836.609	488836.61				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	608803.350	1.28	100.2314	0.579	0.578	ug/L
|	Tl	205	1452851.841	3.05	98.3091	1.538	1.564	ug/L
|	Pb	206	481195.069	1.01	98.7677	0.332	0.336	ug/L
|	Pb	207	453365.047	0.95	98.6456	2.648	2.684	ug/L
|	Pb	208	2028880.795	4.26	99.0915	1.037	1.046	ug/L
|	U	238	3796133.073	7.97	99.2691	2.298	2.315	ug/L
⌊>	Bi	209	476397.909	476397.91				ug/L

Sample ID: Standard 4
Report Date/Time: Friday, February 25, 2011 10:05:24
Page 1

Approved: February 28, 2011

⌈	Na	23	48029294.639	172.21	10.0279	0.090	0.897	mg/L
|	Mg	24	29942033.355	107.57	10.0449	0.126	1.255	mg/L
|	K	39	74887926.017	267.17	9.9936	0.306	3.066	mg/L
|	Ca	43	162007.901	0.58	9.9320	0.058	0.586	mg/L
|	Fe	54	5253518.339	18.74	9.9305	0.326	3.282	mg/L
|	Fe	57	2096964.166	7.51	9.6696	0.529	5.471	mg/L
⌊>	Sc-1	45	278354.389	278354.39				mg/L
	Cl	35	17289.605	-2495.28				mg/L
	Kr	83	36.667	0.67				mg/L
	Br	81	6721.594	-438.97				mg/L
	P	31	9543.889	-579.25				mg/L
	S	34	186916.691	-14849.81				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 4
Report Date/Time: Friday, February 25, 2011 10:05:24

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 4
Report Date/Time: Friday, February 25, 2011 10:05:24
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, February 25, 2011 10:09:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 11
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21556.688	0.02				ug/L
|	Be	9	13114.595	0.05	51.6443	0.952	1.844	ug/L
|	Al	27	267641.012	0.97	52.5431	2.403	4.574	ug/L
⌊>	Sc	45	273386.815	273386.81				ug/L
⌈	Ti	49	53431.132	0.12	99.4251	3.552	3.573	ug/L
|	V	51	431109.075	0.95	50.1155	0.814	1.625	ug/L
|	Cr	52	367211.972	0.80	50.9496	1.222	2.398	ug/L
|	Cr	53	42554.666	0.09	50.0879	2.115	4.223	ug/L
|	Mn	55	545062.338	1.21	49.9523	0.134	0.268	ug/L
|	Co	59	438070.605	0.97	49.5662	0.584	1.177	ug/L
|	Ni	60	92628.070	0.21	50.5255	1.222	2.418	ug/L
|	Cu	65	95971.996	0.21	50.3124	0.345	0.685	ug/L
|	Zn	66	57202.043	0.13	50.0259	0.276	0.552	ug/L
| >	Ge	72	450290.040	450290.04				ug/L
|	As	75	43167.232	0.10	49.9711	0.580	1.162	ug/L
|	Se	77	3165.835	0.01	50.1568	0.933	1.860	ug/L
|	Se	82	3924.502	0.01	50.1821	0.759	1.513	ug/L
⌊	Rb	85	1642.485	0.00				mg/L
	Y	89	272253.545	-18443.64				ug/L
	Rh	103	18.667	10.33				ug/L
⌈	Mo	98	190104.179	0.54	99.5652	1.971	1.980	ug/L
|	Ag	107	192608.304	0.55	49.5356	0.223	0.450	ug/L
|	Cd	114	44432.588	0.13	47.6649	0.751	1.575	ug/L
| >	In	115	350389.773	350389.77				ug/L
|	Sn	118	160940.927	0.46	49.5629	0.345	0.695	ug/L
⌊	Sb	123	156901.462	0.45	49.0098	1.066	2.175	ug/L
⌈	Ba	135	66148.121	0.13	49.8071	1.678	3.368	ug/L
|	Ce	140	60.006	0.00				ug/L
⌊>	Tb	159	495503.772	495503.77				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	313251.244	0.63	49.4976	1.018	2.056	ug/L
|	Tl	205	770298.831	1.55	50.0246	2.058	4.114	ug/L
|	Pb	206	260789.262	0.52	51.3259	0.976	1.902	ug/L
|	Pb	207	228797.424	0.46	47.7206	0.269	0.565	ug/L
|	Pb	208	1071819.964	2.16	50.1955	0.560	1.116	ug/L
|	U	238	1930034.591	3.89	48.4265	0.574	1.185	ug/L
⌊>	Bi	209	496352.405	496352.41				ug/L

Sample ID: QC Std 1
Report Date/Time: Friday, February 25, 2011 10:12:09
Page 1

Approved: February 28, 2011

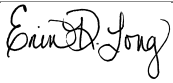
⌈	Na	23	24828843.326	90.47	5.2701	0.021	0.400	mg/L
|	Mg	24	15629738.393	57.17	5.3373	0.054	1.005	mg/L
|	K	39	38196670.771	137.84	5.1577	0.123	2.379	mg/L
|	Ca	43	83082.076	0.30	5.1823	0.141	2.722	mg/L
|	Fe	54	2739326.170	9.88	5.2372	0.059	1.129	mg/L
|	Fe	57	1125388.905	4.09	5.2696	0.090	1.700	mg/L
⌊>	Sc-1	45	273386.815	273386.81				mg/L
	Cl	35	17884.647	-1900.24				mg/L
	Kr	83	37.000	1.00				mg/L
	Br	81	6646.876	-513.69				mg/L
	P	31	10558.974	435.84				mg/L
	S	34	195456.843	-6309.66				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9	103.289				
|	Al	27	105.086				
⌊>	Sc	45					
⌈	Ti	49	99.425				
|	V	51	100.231				
|	Cr	52	101.899				
|	Cr	53					
|	Mn	55	99.905				
|	Co	59	99.132				
|	Ni	60	101.051				
|	Cu	65	100.625				
|	Zn	66	100.052				
|>	Ge	72		96.841			
|	As	75	99.942				
|	Se	77					
|	Se	82	100.364				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	99.071				
|	Cd	114	95.330				
|>	In	115		97.744			
|	Sn	118					
⌊	Sb	123	98.020				
⌈	Ba	135	99.614				
|	Ce	140					
⌊>	Tb	159		98.965			
⌈	Ho	165					
|	Tl	203	98.995				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	100.391				
|	U	238	96.853				
⌊>	Bi	209		96.837			
⌈	Na	23	105.402				

Sample ID: QC Std 1
Report Date/Time: Friday, February 25, 2011 10:12:09

Approved: February 28, 2011



|	Mg	24	106.747
|	K	39	103.154
|	Ca	43	103.645
|	Fe	54	104.744
|	Fe	57	105.392
|>	Sc-1	45	
	Cl	35	
	Kr	83	
	Br	81	
	P	31	
	S	34	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, February 25, 2011 10:17:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19552.495	0.01				ug/L
|	Be	9	3.333	0.00	0.0503	0.004	8.291	ug/L
|	Al	27	1416.772	-0.00	-0.0874	0.063	72.594	ug/L
⌊>	Sc	45	277175.478	277175.48				ug/L
⌈	Ti	49	43.338	-0.00	-0.0118	0.039	331.239	ug/L
|	V	51	2191.705	-0.00	-0.0193	0.015	76.706	ug/L
|	Cr	52	7522.572	-0.00	-0.0365	0.028	76.250	ug/L
|	Cr	53	413.383	-0.00	-0.1262	0.014	11.251	ug/L
|	Mn	55	387.011	-0.00	-0.0932	0.002	2.167	ug/L
|	Co	59	97.668	0.00	-0.0170	0.001	7.252	ug/L
|	Ni	60	54.334	-0.00	-0.0289	0.005	15.973	ug/L
|	Cu	65	109.668	0.00	0.0005	0.005	1068.225	ug/L
|	Zn	66	494.351	0.00	-0.1070	0.015	13.908	ug/L
|>	Ge	72	450434.581	450434.58				ug/L
|	As	75	-163.968	-0.00	-0.0340	0.033	95.950	ug/L
|	Se	77	58.000	-0.00	-0.1834	0.140	76.419	ug/L
|	Se	82	2.258	-0.00	-0.0880	0.063	71.742	ug/L
⌊	Rb	85	13.333	-0.00				mg/L
	Y	89	267192.625	-23504.56				ug/L
	Rh	103	7.000	-1.33				ug/L
⌈	Mo	98	78.197	0.00	0.0484	0.009	17.713	ug/L
|	Ag	107	21.334	0.00	-0.0132	0.001	6.594	ug/L
|	Cd	114	-1.771	-0.00	0.0170	0.003	16.643	ug/L
|>	In	115	349713.173	349713.17				ug/L
|	Sn	118	187.068	0.00	0.0324	0.004	12.554	ug/L
⌊	Sb	123	300.250	0.00	0.0837	0.006	7.676	ug/L
⌈	Ba	135	9.333	-0.00	0.0127	0.002	12.233	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	487156.546	487156.55				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	25.667	0.00	-0.0029	0.001	33.528	ug/L
|	Tl	205	76.675	0.00	-0.0085	0.002	23.056	ug/L
|	Pb	206	376.344	0.00	-0.0321	0.008	25.846	ug/L
|	Pb	207	330.675	0.00	-0.0255	0.007	28.244	ug/L
|	Pb	208	1522.394	0.00	-0.0206	0.005	22.488	ug/L
|	U	238	81.334	0.00	-0.0022	0.000	21.453	ug/L
⌊>	Bi	209	485648.664	485648.66				ug/L

Sample ID: QC Std 2
Report Date/Time: Friday, February 25, 2011 10:19:33
Page 1

Approved: February 28, 2011

⌈	Na	23	82880.336	-0.05	0.0013	0.000	33.565	mg/L
|	Mg	24	516.732	0.00	-0.0024	0.000	0.202	mg/L
|	K	39	557219.229	0.13	0.0087	0.002	27.299	mg/L
|	Ca	43	133.348	-0.00	-0.0007	0.004	578.446	mg/L
|	Fe	54	39597.393	0.00	0.0022	0.003	142.952	mg/L
|	Fe	57	6029.095	-0.00	-0.0001	0.003	3178.732	mg/L
⌊>	Sc-1	45	277175.478	277175.48				mg/L
	Cl	35	16352.695	-3432.19				mg/L
	Kr	83	47.001	11.00				mg/L
	Br	81	6406.719	-753.84				mg/L
	P	31	9099.506	-1023.63				mg/L
	S	34	190755.502	-11011.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.872			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.555			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.298			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.749			
⌈	Na	23					

Sample ID: QC Std 2
Report Date/Time: Friday, February 25, 2011 10:19:33

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Friday, February 25, 2011 10:19:33

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, February 25, 2011 10:24:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

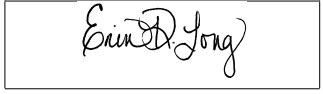
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21055.533	0.01				ug/L
|	Be	9	2.000	-0.00	0.0452	0.000	0.194	ug/L
|	Al	27	1850.175	0.00	-0.0024	0.065	2704.057	ug/L
⌊>	Sc	45	277549.281	277549.28				ug/L
⌈	Ti	49	50.005	-0.00	0.0005	0.067	12539.122	ug/L
|	V	51	5676.149	0.01	0.3889	0.030	7.655	ug/L
|	Cr	52	13489.229	0.01	0.8118	0.042	5.146	ug/L
|	Cr	53	1123.509	0.00	0.7216	0.087	12.053	ug/L
|	Mn	55	5963.505	0.01	0.4198	0.018	4.250	ug/L
|	Co	59	3721.063	0.01	0.3937	0.007	1.879	ug/L
|	Ni	60	3082.839	0.01	1.6268	0.037	2.244	ug/L
|	Cu	65	1660.488	0.00	0.8154	0.029	3.525	ug/L
|	Zn	66	7611.639	0.02	6.1925	0.013	0.203	ug/L
|>	Ge	72	449789.687	449789.69				ug/L
|	As	75	205.477	0.00	0.3923	0.056	14.210	ug/L
|	Se	77	84.667	0.00	0.2509	0.107	42.573	ug/L
|	Se	82	29.305	0.00	0.2584	0.167	64.687	ug/L
⌊	Rb	85	15.333	0.00				mg/L
	Y	89	271103.245	-19593.94				ug/L
	Rh	103	5.667	-2.67				ug/L
⌈	Mo	98	41.124	0.00	0.0288	0.004	13.993	ug/L
|	Ag	107	1608.145	0.00	0.3904	0.010	2.627	ug/L
|	Cd	114	172.260	0.00	0.2017	0.044	21.602	ug/L
|>	In	115	354409.025	354409.03				ug/L
|	Sn	118	136.801	0.00	0.0164	0.002	12.890	ug/L
⌊	Sb	123	1377.894	0.00	0.4152	0.020	4.715	ug/L
⌈	Ba	135	1014.395	0.00	0.7754	0.010	1.317	ug/L
|	Ce	140	16.668	0.00				ug/L
⌊>	Tb	159	491364.106	491364.11				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	531.353	0.00	0.0800	0.004	5.323	ug/L
|	Tl	205	1300.215	0.00	0.0740	0.010	13.522	ug/L
|	Pb	206	2472.997	0.00	0.3977	0.018	4.551	ug/L
|	Pb	207	2255.610	0.00	0.3927	0.020	5.208	ug/L
|	Pb	208	10183.816	0.02	0.4018	0.012	2.993	ug/L
|	U	238	15807.310	0.03	0.4070	0.006	1.388	ug/L
⌊>	Bi	209	478723.106	478723.11				ug/L

Sample ID: QC Std 3
Report Date/Time: Friday, February 25, 2011 10:26:23
Page 1

Approved: February 28, 2011



⌈	Na	23	77906.973	-0.07	0.0002	0.000	204.479	mg/L
|	Mg	24	300.035	0.00	-0.0025	0.000	0.214	mg/L
|	K	39	544621.187	0.08	0.0069	0.000	7.171	mg/L
|	Ca	43	160.017	0.00	0.0009	0.002	248.022	mg/L
|	Fe	54	40453.272	0.00	0.0037	0.003	73.862	mg/L
|	Fe	57	6235.903	0.00	0.0007	0.001	118.551	mg/L
⌊>	Sc-1	45	277549.281	277549.28				mg/L
	Cl	35	15576.134	-4208.75				mg/L
	Kr	83	41.667	5.67				mg/L
	Br	81	6788.303	-372.26				mg/L
	P	31	8791.219	-1331.92				mg/L
	S	34	175468.137	-26298.37				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	97.221				
|	Cr	52	101.474				
|	Cr	53					
|	Mn	55	83.959				
|	Co	59	98.432				
|	Ni	60	101.678				
|	Cu	65	101.919				
|	Zn	66	99.081				
|>	Ge	72		96.734			
|	As	75	98.078				
|	Se	77					
|	Se	82	64.595				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	97.590				
|	Cd	114	100.862				
|>	In	115		98.865			
|	Sn	118					
⌊	Sb	123	103.801				
⌈	Ba	135	103.392				
|	Ce	140					
⌊>	Tb	159		98.139			
⌈	Ho	165					
|	Tl	203	99.986				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	100.460				
|	U	238	101.743				
⌊>	Bi	209		93.397			
⌈	Na	23					

Sample ID: QC Std 3
Report Date/Time: Friday, February 25, 2011 10:26:23

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Se	82	LLICV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 3
Report Date/Time: Friday, February 25, 2011 10:26:23
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, February 25, 2011 10:30:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20771.689	0.01				ug/L
|	Be	9	4.000	0.00	0.0535	0.001	1.253	ug/L
|	Al	27	21768367.555	81.02	4379.4682	225.658	5.153	ug/L
⌊>	Sc	45	268990.648	268990.65				ug/L
⌈	Ti	49	52298.364	0.12	100.0275	1.649	1.648	ug/L
|	V	51	1779.949	-0.00	-0.0617	0.015	23.747	ug/L
|	Cr	52	7851.160	-0.00	0.0419	0.033	78.109	ug/L
|	Cr	53	1466.921	0.00	1.1788	0.134	11.346	ug/L
|	Mn	55	3378.271	0.01	0.1904	0.003	1.836	ug/L
|	Co	59	1749.837	0.00	0.1757	0.003	1.637	ug/L
|	Ni	60	1019.396	0.00	0.5136	0.046	8.997	ug/L
|	Cu	65	736.034	0.00	0.3402	0.020	5.740	ug/L
|	Zn	66	891.382	0.00	0.2663	0.019	7.029	ug/L
| >	Ge	72	437994.813	437994.81				ug/L
|	As	75	-120.603	-0.00	0.0122	0.042	344.444	ug/L
|	Se	77	125.334	0.00	0.9624	0.417	43.319	ug/L
|	Se	82	7.310	-0.00	-0.0208	0.055	264.631	ug/L
⌊	Rb	85	1442.118	0.00				mg/L
	Y	89	252103.554	-38593.64				ug/L
	Rh	103	7.667	-0.67				ug/L
⌈	Mo	98	186438.423	0.55	100.4059	2.018	2.010	ug/L
|	Ag	107	59.667	0.00	-0.0029	0.002	71.135	ug/L
|	Cd	114	62.148	0.00	0.0877	0.025	28.200	ug/L
| >	In	115	340786.901	340786.90				ug/L
|	Sn	118	423.342	0.00	0.1086	0.020	18.796	ug/L
⌊	Sb	123	194.039	0.00	0.0521	0.004	7.943	ug/L
⌈	Ba	135	72.334	0.00	0.0624	0.008	12.953	ug/L
|	Ce	140	173.352	0.00				ug/L
⌊>	Tb	159	474533.625	474533.62				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	143.669	0.00	0.0173	0.002	9.341	ug/L
|	Tl	205	430.052	0.00	0.0165	0.004	25.589	ug/L
|	Pb	206	426.680	0.00	-0.0176	0.009	49.469	ug/L
|	Pb	207	370.344	0.00	-0.0130	0.003	26.072	ug/L
|	Pb	208	1708.408	0.00	-0.0075	0.001	13.198	ug/L
|	U	238	28.667	0.00	-0.0035	0.000	0.856	ug/L
⌊>	Bi	209	461958.042	461958.04				ug/L

Sample ID: QC Std 4
Report Date/Time: Friday, February 25, 2011 10:33:10
Page 1

Approved: February 28, 2011

⌈	Na	23	59467132.172	221.20	12.8794	0.967	7.510	mg/L
|	Mg	24	14954204.371	55.65	5.1952	0.185	3.569	mg/L
|	K	39	37086231.931	136.08	5.0921	0.154	3.024	mg/L
|	Ca	43	233181.169	0.87	14.8059	0.313	2.114	mg/L
|	Fe	54	6561481.165	24.29	12.8758	0.779	6.053	mg/L
|	Fe	57	2559454.173	9.50	12.2265	0.375	3.068	mg/L
⌊>	Sc-1	45	268990.648	268990.65				mg/L
	Cl	35	1806653.222	1786868.33				mg/L
	Kr	83	41.000	5.00				mg/L
	Br	81	6458.755	-701.81				mg/L
	P	31	1431970.274	1421847.14				mg/L
	S	34	336667.604	134901.10				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.197			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.065			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.777			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		90.127			
⌈	Na	23					

Sample ID: QC Std 4
Report Date/Time: Friday, February 25, 2011 10:33:10

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Friday, February 25, 2011 10:33:10
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, February 25, 2011 10:37:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

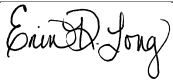
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25449.043	0.03				ug/L
|	Be	9	28142.885	0.11	115.7076	3.325	2.873	ug/L
|	Al	27	21254470.276	81.20	4389.0768	137.540	3.134	ug/L
⌊>	Sc	45	261782.622	261782.62				ug/L
⌈	Ti	49	49299.519	0.12	101.4993	1.371	1.350	ug/L
|	V	51	761986.631	1.87	98.2955	0.988	1.006	ug/L
|	Cr	52	654260.279	1.59	101.5172	0.747	0.736	ug/L
|	Cr	53	96280.872	0.24	126.3148	1.918	1.519	ug/L
|	Mn	55	1012861.824	2.49	102.8634	1.781	1.732	ug/L
|	Co	59	815267.739	2.00	102.1206	1.648	1.614	ug/L
|	Ni	60	171388.657	0.42	103.5078	0.846	0.818	ug/L
|	Cu	65	171653.478	0.42	99.6360	0.294	0.295	ug/L
|	Zn	66	102544.497	0.25	99.7698	0.767	0.769	ug/L
| >	Ge	72	406922.390	406922.39				ug/L
|	As	75	77816.092	0.19	99.5308	0.473	0.475	ug/L
|	Se	77	6698.243	0.02	118.9527	0.763	0.642	ug/L
|	Se	82	6839.374	0.02	96.8761	0.169	0.175	ug/L
⌊	Rb	85	1312.766	0.00				mg/L
	Y	89	226952.474	-63744.71				ug/L
	Rh	103	24.334	16.00				ug/L
⌈	Mo	98	167320.373	0.52	94.8553	1.005	1.059	ug/L
|	Ag	107	408961.187	1.26	113.8895	1.718	1.508	ug/L
|	Cd	114	90016.009	0.28	104.5088	2.379	2.276	ug/L
| >	In	115	323698.315	323698.32				ug/L
|	Sn	118	729.627	0.00	0.2181	0.007	3.203	ug/L
⌊	Sb	123	298239.965	0.92	100.8551	2.196	2.177	ug/L
⌈	Ba	135	121129.947	0.26	97.8616	3.108	3.175	ug/L
|	Ce	140	170.019	0.00				ug/L
⌊>	Tb	159	461781.082	461781.08				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	561823.722	1.26	98.7644	1.196	1.211	ug/L
|	Tl	205	1394405.142	3.13	100.7443	3.068	3.045	ug/L
|	Pb	206	479432.664	1.07	105.0765	0.318	0.303	ug/L
|	Pb	207	420193.149	0.94	97.5945	0.832	0.852	ug/L
|	Pb	208	1942063.738	4.35	101.2668	0.733	0.723	ug/L
|	U	238	3480652.208	7.80	97.1665	1.394	1.434	ug/L
⌊>	Bi	209	446184.314	446184.31				ug/L

Sample ID: QC Std 5
Report Date/Time: Friday, February 25, 2011 10:39:59
Page 1

Approved: February 28, 2011



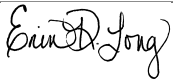
⌈	Na	23	57680862.816	220.03	12.8117	0.381	2.977	mg/L
|	Mg	24	14190553.115	54.22	5.0617	0.157	3.094	mg/L
|	K	39	35546169.329	133.90	5.0104	0.167	3.333	mg/L
|	Ca	43	220070.718	0.84	14.3495	0.155	1.078	mg/L
|	Fe	54	6051322.059	22.98	12.1784	0.252	2.068	mg/L
|	Fe	57	2476167.249	9.44	12.1451	0.282	2.322	mg/L
⌊>	Sc-1	45	261782.622	261782.62				mg/L
	Cl	35	31404976.033	31385191.15				mg/L
	Kr	83	45.667	9.67				mg/L
	Br	81	15863.913	8703.35				mg/L
	P	31	1324292.817	1314169.68				mg/L
	S	34	292297.126	90530.62				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	98.295				
|	Cr	52	101.517				
|	Cr	53					
|	Mn	55	102.863				
|	Co	59	102.121				
|	Ni	60	103.508				
|	Cu	65	99.636				
|	Zn	66	99.770				
|>	Ge	72		87.514			
|	As	75	99.531				
|	Se	77					
|	Se	82	96.876				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	113.890				
|	Cd	114	104.509				
|>	In	115		90.298			
|	Sn	118					
⌊	Sb	123	100.855				
⌈	Ba	135	97.862				
|	Ce	140					
⌊>	Tb	159		92.230			
⌈	Ho	165					
|	Tl	203	98.764				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	101.267				
|	U	238	97.167				
⌊>	Bi	209		87.049			
⌈	Na	23					

Sample ID: QC Std 5
Report Date/Time: Friday, February 25, 2011 10:39:59
Page 2

Approved: February 28, 2011



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Friday, February 25, 2011 10:39:59

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 25, 2011 10:44:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23059.966	0.02				ug/L
|	Be	9	12874.288	0.05	50.6890	1.108	2.187	ug/L
|	Al	27	247838.756	0.90	48.6396	2.274	4.676	ug/L
⌊>	Sc	45	273369.774	273369.77				ug/L
⌈	Ti	49	51748.772	0.12	102.1140	2.727	2.670	ug/L
|	V	51	406028.794	0.95	50.0587	0.999	1.996	ug/L
|	Cr	52	344046.224	0.79	50.6120	0.722	1.426	ug/L
|	Cr	53	42554.675	0.10	53.1469	2.144	4.034	ug/L
|	Mn	55	520130.718	1.22	50.5535	1.358	2.687	ug/L
|	Co	59	418735.851	0.99	50.2466	1.054	2.098	ug/L
|	Ni	60	86834.322	0.20	50.2249	0.816	1.625	ug/L
|	Cu	65	90721.322	0.21	50.4348	0.812	1.609	ug/L
|	Zn	66	53589.415	0.13	49.6949	0.260	0.523	ug/L
|>	Ge	72	424616.497	424616.50				ug/L
|	As	75	40026.583	0.09	49.1429	1.139	2.319	ug/L
|	Se	77	2939.099	0.01	49.3653	0.693	1.403	ug/L
|	Se	82	3622.706	0.01	49.1199	1.088	2.214	ug/L
⌊	Rb	85	1441.452	0.00				mg/L
	Y	89	251641.788	-39055.40				ug/L
	Rh	103	13.667	5.33				ug/L
⌈	Mo	98	181959.044	0.54	98.6793	1.318	1.335	ug/L
|	Ag	107	184972.649	0.55	49.2731	1.506	3.057	ug/L
|	Cd	114	43966.310	0.13	48.8448	0.944	1.933	ug/L
|>	In	115	338386.958	338386.96				ug/L
|	Sn	118	155543.697	0.46	49.6075	0.888	1.790	ug/L
⌊	Sb	123	153340.391	0.45	49.6003	1.020	2.056	ug/L
⌈	Ba	135	62141.098	0.13	47.6352	1.503	3.156	ug/L
|	Ce	140	36.670	0.00				ug/L
⌊>	Tb	159	486934.942	486934.94				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	295842.848	0.63	49.6715	0.345	0.694	ug/L
|	Tl	205	720767.481	1.54	49.7422	1.332	2.677	ug/L
|	Pb	206	238701.219	0.51	49.9222	1.078	2.158	ug/L
|	Pb	207	225376.167	0.48	49.9549	0.856	1.714	ug/L
|	Pb	208	1010823.163	2.16	50.3038	0.600	1.193	ug/L
|	U	238	1871537.694	4.01	49.9164	1.906	3.818	ug/L
⌊>	Bi	209	467127.119	467127.12				ug/L

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 10:46:46
Page 1

Approved: February 28, 2011

Na	23	23465083.810	85.49	4.9805	0.151	3.023	mg/L
Mg	24	14545710.134	53.21	4.9672	0.224	4.518	mg/L
K	39	36722437.616	132.45	4.9563	0.072	1.445	mg/L
Ca	43	80380.097	0.29	5.0127	0.176	3.503	mg/L
Fe	54	2534464.113	9.13	4.8403	0.120	2.477	mg/L
Fe	57	1051064.073	3.82	4.9203	0.098	1.988	mg/L
> Sc-1	45	273369.774	273369.77				mg/L
Cl	35	45675.434	25890.55				mg/L
Kr	83	38.334	2.33				mg/L
Br	81	6014.475	-1146.09				mg/L
P	31	9413.770	-709.37				mg/L
S	34	178862.385	-22904.12				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	100.117				
Cr	52	101.224				
Cr	53					
Mn	55	101.107				
Co	59	100.493				
Ni	60	100.450				
Cu	65	100.870				
Zn	66	99.390				
> Ge	72		91.320			
As	75	98.286				
Se	77					
Se	82	98.240				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.546				
Cd	114	97.690				
> In	115		94.396			
Sn	118					
Sb	123	99.201				
Ba	135	95.270				
Ce	140					
> Tb	159		97.254			
Ho	165					
Tl	203	99.343				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.608				
U	238	99.833				
> Bi	209		91.135			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 10:46:46
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 10:46:46

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 25, 2011 10:51:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19619.301	0.01				ug/L
|	Be	9	3.333	0.00	0.0504	0.005	8.966	ug/L
|	Al	27	1583.461	0.00	-0.0547	0.056	103.295	ug/L
⌊>	Sc	45	278337.160	278337.16				ug/L
⌈	Ti	49	63.340	0.00	0.0328	0.099	302.807	ug/L
|	V	51	1972.836	-0.00	-0.0307	0.010	32.748	ug/L
|	Cr	52	7307.743	-0.00	-0.0030	0.020	651.519	ug/L
|	Cr	53	1346.892	0.00	1.0847	0.087	8.058	ug/L
|	Mn	55	351.676	-0.00	-0.0944	0.001	0.873	ug/L
|	Co	59	82.001	-0.00	-0.0182	0.000	2.697	ug/L
|	Ni	60	48.667	-0.00	-0.0303	0.004	13.942	ug/L
|	Cu	65	93.335	0.00	-0.0051	0.008	152.531	ug/L
|	Zn	66	501.018	0.00	-0.0736	0.060	81.887	ug/L
| >	Ge	72	424233.090	424233.09				ug/L
|	As	75	-116.274	-0.00	0.0127	0.049	390.664	ug/L
|	Se	77	43.333	-0.00	-0.3771	0.236	62.590	ug/L
|	Se	82	2.600	-0.00	-0.0816	0.076	92.944	ug/L
⌊	Rb	85	15.667	0.00				mg/L
	Y	89	262720.234	-27976.96				ug/L
	Rh	103	7.333	-1.00				ug/L
⌈	Mo	98	74.567	0.00	0.0483	0.011	21.919	ug/L
|	Ag	107	83.335	0.00	0.0037	0.002	47.524	ug/L
|	Cd	114	2.678	0.00	0.0219	0.006	27.253	ug/L
| >	In	115	335550.139	335550.14				ug/L
|	Sn	118	150.534	0.00	0.0231	0.004	16.908	ug/L
⌊	Sb	123	192.708	0.00	0.0526	0.005	8.998	ug/L
⌈	Ba	135	10.667	0.00	0.0138	0.003	22.254	ug/L
|	Ce	140	0.000	-0.00				ug/L
⌊>	Tb	159	480396.297	480396.30				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	55.334	0.00	0.0021	0.001	56.246	ug/L
|	Tl	205	123.346	0.00	-0.0052	0.003	53.364	ug/L
|	Pb	206	382.678	0.00	-0.0293	0.003	10.626	ug/L
|	Pb	207	310.341	0.00	-0.0285	0.002	6.878	ug/L
|	Pb	208	1485.058	0.00	-0.0209	0.001	4.749	ug/L
|	U	238	83.335	0.00	-0.0021	0.000	14.515	ug/L
⌊>	Bi	209	475487.333	475487.33				ug/L

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 10:54:00
Page 1

Approved: February 28, 2011

Na	23	69705.804	-0.10	-0.0016	0.000	26.237	mg/L
Mg	24	340.040	0.00	-0.0025	0.000	0.615	mg/L
K	39	544904.682	0.07	0.0067	0.001	19.618	mg/L
Ca	43	173.352	0.00	0.0017	0.002	108.800	mg/L
Fe	54	36812.538	-0.01	-0.0034	0.003	79.786	mg/L
Fe	57	5822.278	-0.00	-0.0013	0.001	76.100	mg/L
> Sc-1	45	278337.160	278337.16				mg/L
Cl	35	25855.388	6070.50				mg/L
Kr	83	46.001	10.00				mg/L
Br	81	6067.173	-1093.39				mg/L
P	31	8571.693	-1551.44				mg/L
S	34	178605.082	-23161.42				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		91.237			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		93.604			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		95.948			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		92.766			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 10:54:00

Approved: February 28, 2011

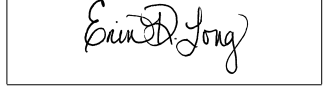
Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 10:54:00

Approved: February 28, 2011



Method 6020 - Summary Report

Sample ID: PBW 17 WG357433-03

Sample Date/Time: Friday, February 25, 2011 11:09:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 54
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18851.146	0.00				ug/L
|	Be	9	5.333	0.00	0.0578	0.005	8.556	ug/L
|	Al	27	18166.516	0.06	3.1067	0.270	8.696	ug/L
⌊>	Sc	45	283498.436	283498.44				ug/L
⌈	Ti	49	146.683	0.00	0.1976	0.139	70.221	ug/L
|	V	51	2320.585	0.00	0.0128	0.011	85.951	ug/L
|	Cr	52	8891.377	0.00	0.2366	0.046	19.312	ug/L
|	Cr	53	853.455	0.00	0.4620	0.130	28.209	ug/L
|	Mn	55	1942.208	0.00	0.0609	0.003	5.230	ug/L
|	Co	59	118.002	0.00	-0.0138	0.002	14.447	ug/L
|	Ni	60	204.004	0.00	0.0598	0.005	7.979	ug/L
|	Cu	65	180.337	0.00	0.0435	0.008	18.831	ug/L
|	Zn	66	2594.696	0.01	1.8933	0.043	2.285	ug/L
| >	Ge	72	423780.012	423780.01				ug/L
|	As	75	-119.246	-0.00	0.0089	0.019	212.024	ug/L
|	Se	77	60.667	0.00	-0.0782	0.089	113.223	ug/L
|	Se	82	3.293	-0.00	-0.0722	0.089	123.514	ug/L
⌊	Rb	85	43.334	0.00				mg/L
	Y	89	268213.176	-22484.01				ug/L
	Rh	103	5.333	-3.00				ug/L
⌈	Mo	98	60.201	0.00	0.0409	0.005	11.642	ug/L
|	Ag	107	63.668	0.00	-0.0013	0.003	215.232	ug/L
|	Cd	114	4.012	0.00	0.0235	0.005	20.665	ug/L
| >	In	115	330688.235	330688.23				ug/L
|	Sn	118	164.935	0.00	0.0285	0.001	4.810	ug/L
⌊	Sb	123	184.999	0.00	0.0509	0.002	4.347	ug/L
⌈	Ba	135	80.668	0.00	0.0688	0.009	12.775	ug/L
|	Ce	140	76.675	0.00				ug/L
⌊>	Tb	159	474831.436	474831.44				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	38.667	0.00	-0.0008	0.001	167.828	ug/L
|	Tl	205	43.338	0.00	-0.0107	0.002	20.097	ug/L
|	Pb	206	613.692	0.00	0.0159	0.008	49.651	ug/L
|	Pb	207	530.353	0.00	0.0174	0.002	12.618	ug/L
|	Pb	208	2484.481	0.00	0.0258	0.002	9.485	ug/L
|	U	238	70.668	0.00	-0.0025	0.000	16.899	ug/L
⌊>	Bi	209	484342.056	484342.06				ug/L

Sample ID: PBW 17 WG357433-03
Report Date/Time: Friday, February 25, 2011 11:11:27
Page 1

Approved: February 28, 2011

⌈	Na	23	138310.411	0.14	0.0123	0.001	8.400	mg/L
|	Mg	24	28777.555	0.10	0.0069	0.000	4.793	mg/L
|	K	39	610040.776	0.27	0.0140	0.002	15.361	mg/L
|	Ca	43	723.432	0.00	0.0348	0.007	20.911	mg/L
|	Fe	54	84098.421	0.16	0.0838	0.007	7.974	mg/L
|	Fe	57	7413.492	0.00	0.0055	0.001	16.012	mg/L
⌊>	Sc-1	45	283498.436	283498.44				mg/L
	Cl	35	36900.648	17115.76				mg/L
	Kr	83	43.001	7.00				mg/L
	Br	81	7124.540	-36.02				mg/L
	P	31	17860.087	7736.95				mg/L
	S	34	187348.649	-14417.86				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.140			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.248			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.837			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.494			
⌈	Na	23					

Sample ID: PBW 17 WG357433-03
Report Date/Time: Friday, February 25, 2011 11:11:27
Page 2

Approved: February 28, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 17 WG357433-03
Report Date/Time: Friday, February 25, 2011 11:11:27
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: LCSW 17 WG357433-04

Sample Date/Time: Friday, February 25, 2011 11:16:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 55
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21723.884	0.01				ug/L
|	Be	9	6341.351	0.02	23.8823	1.115	4.670	ug/L
|	Al	27	138453.032	0.48	25.8151	0.448	1.737	ug/L
⌊>	Sc	45	285829.425	285829.42				ug/L
⌈	Ti	49	93.343	0.00	0.0910	0.070	77.023	ug/L
|	V	51	217194.893	0.50	26.4979	0.305	1.150	ug/L
|	Cr	52	191117.576	0.43	27.4641	0.147	0.534	ug/L
|	Cr	53	22607.794	0.05	27.7816	0.602	2.165	ug/L
|	Mn	55	287395.268	0.67	27.7182	0.440	1.588	ug/L
|	Co	59	225948.883	0.53	26.9500	0.483	1.792	ug/L
|	Ni	60	47008.716	0.11	27.0098	0.188	0.696	ug/L
|	Cu	65	48868.278	0.11	26.9889	0.099	0.366	ug/L
|	Zn	66	30670.943	0.07	28.0479	0.268	0.956	ug/L
| >	Ge	72	427007.359	427007.36				ug/L
|	As	75	19911.540	0.05	24.3858	0.429	1.761	ug/L
|	Se	77	1427.435	0.00	23.2629	0.803	3.454	ug/L
|	Se	82	1664.783	0.00	22.3808	0.212	0.947	ug/L
⌊	Rb	85	89.001	0.00				mg/L
	Y	89	263222.766	-27474.42				ug/L
	Rh	103	14.000	5.67				ug/L
⌈	Mo	98	50.827	0.00	0.0346	0.002	5.218	ug/L
|	Ag	107	92056.706	0.27	24.0688	0.182	0.755	ug/L
|	Cd	114	23431.734	0.07	25.5691	0.693	2.712	ug/L
| >	In	115	344539.717	344539.72				ug/L
|	Sn	118	192.935	0.00	0.0351	0.003	8.530	ug/L
⌊	Sb	123	78424.888	0.23	24.9053	0.346	1.389	ug/L
⌈	Ba	135	33737.517	0.07	26.1610	1.107	4.232	ug/L
|	Ce	140	96.677	0.00				ug/L
⌊>	Tb	159	481250.231	481250.23				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	161978.201	0.34	26.6954	0.440	1.647	ug/L
|	Tl	205	407153.324	0.86	27.5779	0.542	1.964	ug/L
|	Pb	206	138588.739	0.29	28.4103	0.906	3.188	ug/L
|	Pb	207	120720.566	0.25	26.2240	0.361	1.378	ug/L
|	Pb	208	562610.328	1.18	27.4475	0.570	2.076	ug/L
|	U	238	993809.530	2.09	26.0031	0.279	1.073	ug/L
⌊>	Bi	209	475870.228	475870.23				ug/L

Sample ID: LCSW 17 WG357433-04
Report Date/Time: Friday, February 25, 2011 11:18:15
Page 1

Approved: February 28, 2011

⌈	Na	23	420136.691	1.12	0.0695	0.003	3.945	mg/L
|	Mg	24	11808.148	0.04	0.0013	0.000	6.798	mg/L
|	K	39	633164.640	0.33	0.0163	0.002	12.909	mg/L
|	Ca	43	623.416	0.00	0.0283	0.006	22.890	mg/L
|	Fe	54	79338.210	0.14	0.0737	0.006	8.401	mg/L
|	Fe	57	6229.231	-0.00	-0.0001	0.002	1386.991	mg/L
⌊>	Sc-1	45	285829.425	285829.42				mg/L
	Cl	35	89047.382	69262.49				mg/L
	Kr	83	43.667	7.67				mg/L
	Br	81	7772.353	611.79				mg/L
	P	31	19153.818	9030.68				mg/L
	S	34	176984.673	-24781.83				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.834			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.112			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.119			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.841			
⌈	Na	23					

Sample ID: LCSW 17 WG357433-04
Report Date/Time: Friday, February 25, 2011 11:18:15

Approved: February 28, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 17 WG357433-04
Report Date/Time: Friday, February 25, 2011 11:18:15
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102062101 WG357433-02

Sample Date/Time: Friday, February 25, 2011 11:22:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 56
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21422.994	0.01				ug/L
|	Be	9	15.333	0.00	0.0955	0.017	18.246	ug/L
|	Al	27	500077.175	1.74	94.0893	5.480	5.825	ug/L
⌊>	Sc	45	286693.773	286693.77				ug/L
⌈	Ti	49	2237.142	0.00	4.1991	0.318	7.581	ug/L
|	V	51	39336.988	0.08	4.4614	0.035	0.779	ug/L
|	Cr	52	18144.295	0.02	1.5468	0.023	1.516	ug/L
|	Cr	53	2007.069	0.00	1.8445	0.056	3.046	ug/L
|	Mn	55	180276.127	0.41	16.9338	0.206	1.219	ug/L
|	Co	59	4300.968	0.01	0.4736	0.015	3.220	ug/L
|	Ni	60	3321.252	0.01	1.8098	0.073	4.039	ug/L
|	Cu	65	2486.001	0.01	1.2870	0.014	1.114	ug/L
|	Zn	66	3920.475	0.01	3.0265	0.140	4.612	ug/L
|>	Ge	72	437122.105	437122.10				ug/L
|	As	75	9039.720	0.02	10.9016	0.087	0.795	ug/L
|	Se	77	98.667	0.00	0.5240	0.255	48.735	ug/L
|	Se	82	51.618	0.00	0.5642	0.183	32.411	ug/L
⌊	Rb	85	6996.517	0.02				mg/L
	Y	89	264399.521	-26297.67				ug/L
	Rh	103	53.001	44.67				ug/L
⌈	Mo	98	9369.527	0.03	5.0584	0.118	2.342	ug/L
|	Ag	107	38.000	0.00	-0.0086	0.004	41.086	ug/L
|	Cd	114	35.233	0.00	0.0577	0.010	16.761	ug/L
|>	In	115	340442.942	340442.94				ug/L
|	Sn	118	155.201	0.00	0.0239	0.003	13.825	ug/L
⌊	Sb	123	881.500	0.00	0.2732	0.009	3.116	ug/L
⌈	Ba	135	33944.208	0.07	25.3792	0.309	1.218	ug/L
|	Ce	140	3671.041	0.01				ug/L
⌊>	Tb	159	498890.281	498890.28				ug/L
⌈	Ho	165	100.011	0.00				ug/L
|	Tl	203	1568.806	0.00	0.2518	0.014	5.641	ug/L
|	Tl	205	3754.416	0.01	0.2412	0.023	9.569	ug/L
|	Pb	206	1296.097	0.00	0.1589	0.017	10.594	ug/L
|	Pb	207	1081.069	0.00	0.1397	0.008	5.554	ug/L
|	Pb	208	5003.538	0.01	0.1515	0.006	3.862	ug/L
|	U	238	11792.734	0.02	0.3047	0.004	1.262	ug/L
⌊>	Bi	209	475433.264	475433.26				ug/L

Sample ID: L1102062101 WG357433-02
Report Date/Time: Friday, February 25, 2011 11:25:03
Page 1

Approved: February 28, 2011

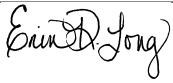
Na	23	42944140.631	149.70	8.7178	0.401	4.600	mg/L	
Mg	24	7252423.281	25.35	2.3652	0.137	5.800	mg/L	
K	39	6714549.515	21.57	0.8106	0.038	4.646	mg/L	
Ca	43	191305.224	0.67	11.4054	0.451	3.959	mg/L	
Fe	54	124956.025	0.30	0.1578	0.010	6.373	mg/L	
Fe	57	42604.950	0.13	0.1631	0.002	1.276	mg/L	
> Sc-1	45	286693.773	286693.77				mg/L	
Cl	35	256542.462	236757.57				mg/L	
Kr	83	44.001	8.00				mg/L	
Br	81	13899.656	6739.09				mg/L	
P	31	19618.799	9495.66				mg/L	
S	34	408408.407	206641.90				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		94.009			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		94.969			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		99.642			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		92.756			
Na	23					

Sample ID: L1102062101 WG357433-02
Report Date/Time: Friday, February 25, 2011 11:25:03
Page 2

Approved: February 28, 2011



Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102062101S WG357433-07

Sample Date/Time: Friday, February 25, 2011 11:29:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 57
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22893.102	0.02				ug/L
|	Be	9	3221.853	0.01	12.7463	0.352	2.763	ug/L
|	Al	27	551000.130	2.01	108.7643	12.153	11.174	ug/L
⌊>	Sc	45	272667.818	272667.82				ug/L
⌈	Ti	49	1616.961	0.00	3.1026	0.465	14.972	ug/L
|	V	51	141024.949	0.33	17.2162	0.053	0.308	ug/L
|	Cr	52	105045.941	0.23	14.6960	0.165	1.122	ug/L
|	Cr	53	11834.858	0.03	14.3449	0.791	5.515	ug/L
|	Mn	55	311488.599	0.73	30.2407	0.508	1.679	ug/L
|	Co	59	110461.289	0.26	13.2429	0.321	2.425	ug/L
|	Ni	60	25219.692	0.06	14.5560	0.458	3.144	ug/L
|	Cu	65	24435.409	0.06	13.5529	0.457	3.374	ug/L
|	Zn	66	16344.176	0.04	14.7882	0.212	1.435	ug/L
|>	Ge	72	424379.317	424379.32				ug/L
|	As	75	19033.826	0.05	23.4628	0.129	0.548	ug/L
|	Se	77	759.362	0.00	11.9314	0.336	2.819	ug/L
|	Se	82	911.732	0.00	12.2802	0.420	3.419	ug/L
⌊	Rb	85	6673.960	0.02				mg/L
	Y	89	252318.713	-38378.48				ug/L
	Rh	103	50.001	41.67				ug/L
⌈	Mo	98	9095.125	0.03	5.0822	0.075	1.485	ug/L
|	Ag	107	43179.469	0.13	11.8178	0.159	1.347	ug/L
|	Cd	114	11173.900	0.03	12.7851	0.151	1.180	ug/L
|>	In	115	328868.478	328868.48				ug/L
|	Sn	118	143.868	0.00	0.0219	0.003	12.143	ug/L
⌊	Sb	123	38804.880	0.12	12.9059	0.265	2.057	ug/L
⌈	Ba	135	47792.080	0.10	38.1096	0.091	0.238	ug/L
|	Ce	140	3637.694	0.01				ug/L
⌊>	Tb	159	467779.231	467779.23				ug/L
⌈	Ho	165	83.342	0.00				ug/L
|	Tl	203	76443.313	0.17	13.3643	0.536	4.011	ug/L
|	Tl	205	188417.898	0.42	13.5305	0.420	3.107	ug/L
|	Pb	206	64743.949	0.14	14.0230	0.373	2.661	ug/L
|	Pb	207	56263.485	0.12	12.9161	0.398	3.084	ug/L
|	Pb	208	260796.552	0.58	13.4475	0.312	2.317	ug/L
|	U	238	494948.261	1.10	13.7398	0.093	0.676	ug/L
⌊>	Bi	209	448557.793	448557.79				ug/L

Sample ID: L1102062101S WG357433-07
Report Date/Time: Friday, February 25, 2011 11:31:51
Page 1

Approved: February 28, 2011

⌈	Na	23	41936732.829	153.46	8.9368	0.248	2.779	mg/L
|	Mg	24	6916082.841	25.37	2.3670	0.052	2.204	mg/L
|	K	39	6637811.652	22.46	0.8438	0.019	2.293	mg/L
|	Ca	43	193527.328	0.71	12.1150	0.211	1.740	mg/L
|	Fe	54	120032.615	0.30	0.1597	0.003	1.981	mg/L
|	Fe	57	41948.684	0.13	0.1699	0.007	4.123	mg/L
⌊>	Sc-1	45	272667.818	272667.82				mg/L
	Cl	35	253912.608	234127.72				mg/L
	Kr	83	37.000	1.00				mg/L
	Br	81	13675.345	6514.78				mg/L
	P	31	18389.058	8265.92				mg/L
	S	34	391048.649	189282.14				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.269			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.740			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.428			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		87.512			
⌈	Na	23					

Sample ID: L1102062101S WG357433-07
Report Date/Time: Friday, February 25, 2011 11:31:51
Page 2

Approved: February 28, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102062101S WG357433-07
Report Date/Time: Friday, February 25, 2011 11:31:51
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L11020652101DUP WG357433-08

Sample Date/Time: Friday, February 25, 2011 11:36:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 58
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21957.515	0.02				ug/L
|	Be	9	16.667	0.00	0.1023	0.018	17.116	ug/L
|	Al	27	457666.031	1.64	88.6111	3.372	3.806	ug/L
⌊>	Sc	45	277876.646	277876.65				ug/L
⌈	Ti	49	1686.979	0.00	3.2462	0.359	11.061	ug/L
|	V	51	37659.789	0.08	4.4035	0.116	2.637	ug/L
|	Cr	52	17458.736	0.02	1.5272	0.017	1.117	ug/L
|	Cr	53	1950.386	0.00	1.8515	0.164	8.836	ug/L
|	Mn	55	173573.144	0.41	16.8196	0.246	1.461	ug/L
|	Co	59	4119.223	0.01	0.4676	0.013	2.749	ug/L
|	Ni	60	3140.525	0.01	1.7641	0.071	4.021	ug/L
|	Cu	65	2386.642	0.01	1.2743	0.048	3.758	ug/L
|	Zn	66	3287.573	0.01	2.5444	0.054	2.121	ug/L
|>	Ge	72	423776.613	423776.61				ug/L
|	As	75	8880.656	0.02	11.0462	0.102	0.920	ug/L
|	Se	77	85.334	0.00	0.3435	0.270	78.522	ug/L
|	Se	82	45.033	0.00	0.4949	0.132	26.636	ug/L
⌊	Rb	85	6693.976	0.02				mg/L
	Y	89	251929.729	-38767.46				ug/L
	Rh	103	42.001	33.67				ug/L
⌈	Mo	98	9043.339	0.03	5.0643	0.041	0.812	ug/L
|	Ag	107	43.334	0.00	-0.0068	0.001	11.231	ug/L
|	Cd	114	33.255	0.00	0.0570	0.016	27.745	ug/L
|>	In	115	328140.477	328140.48				ug/L
|	Sn	118	661.889	0.00	0.1924	0.004	1.935	ug/L
⌊	Sb	123	929.087	0.00	0.2998	0.014	4.523	ug/L
⌈	Ba	135	32613.429	0.07	26.0652	0.516	1.979	ug/L
|	Ce	140	3370.907	0.01				ug/L
⌊>	Tb	159	466846.503	466846.50				ug/L
⌈	Ho	165	130.014	0.00				ug/L
|	Tl	203	1451.787	0.00	0.2419	0.006	2.447	ug/L
|	Tl	205	3607.684	0.01	0.2407	0.031	12.701	ug/L
|	Pb	206	1310.766	0.00	0.1724	0.006	3.435	ug/L
|	Pb	207	1056.400	0.00	0.1434	0.011	7.714	ug/L
|	Pb	208	5057.888	0.01	0.1638	0.003	2.066	ug/L
|	U	238	11508.737	0.03	0.3090	0.003	0.996	ug/L
⌊>	Bi	209	457521.481	457521.48				ug/L

Approved: February 28, 2011

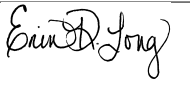
⌈	Na	23	42232940.795	151.72	8.8353	0.351	3.976	mg/L
|	Mg	24	7074703.294	25.46	2.3755	0.017	0.702	mg/L
|	K	39	6518712.322	21.58	0.8109	0.015	1.863	mg/L
|	Ca	43	190629.778	0.69	11.7081	0.057	0.488	mg/L
|	Fe	54	120264.064	0.29	0.1559	0.004	2.393	mg/L
|	Fe	57	41717.773	0.13	0.1653	0.013	7.978	mg/L
⌊>	Sc-1	45	277876.646	277876.65				mg/L
	Cl	35	251986.903	232202.02				mg/L
	Kr	83	34.667	-1.33				mg/L
	Br	81	13559.858	6399.29				mg/L
	P	31	18183.866	8060.73				mg/L
	S	34	380585.832	178819.33				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.139			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.537			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.242			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.261			
⌈	Na	23					

Sample ID: L11020652101DUP WG357433-08
Report Date/Time: Friday, February 25, 2011 11:38:40
Page 2

Approved: February 28, 2011



|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L11020652101DUP WG357433-08
Report Date/Time: Friday, February 25, 2011 11:38:40
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102061203

Sample Date/Time: Friday, February 25, 2011 11:43:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 59
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18049.640	0.01				ug/L
|	Be	9	14.667	0.00	0.0993	0.011	11.000	ug/L
|	Al	27	714956.355	2.79	150.7206	1.677	1.112	ug/L
⌊>	Sc	45	255780.950	255780.95				ug/L
⌈	Ti	49	8974.932	0.02	20.0625	0.734	3.658	ug/L
|	V	51	67581.813	0.18	9.2557	0.080	0.861	ug/L
|	Cr	52	97434.122	0.24	15.5602	0.267	1.715	ug/L
|	Cr	53	9508.806	0.02	13.0506	0.524	4.019	ug/L
|	Mn	55	2753494.592	7.38	305.0798	3.980	1.305	ug/L
|	Co	59	99553.578	0.27	13.5703	0.209	1.542	ug/L
|	Ni	60	63317.581	0.17	41.6469	0.257	0.618	ug/L
|	Cu	65	13430.826	0.04	8.4440	0.181	2.148	ug/L
|	Zn	66	73482.186	0.20	77.8200	0.668	0.858	ug/L
| >	Ge	72	373286.133	373286.13				ug/L
|	As	75	10588.871	0.03	14.8980	0.130	0.873	ug/L
|	Se	77	84.667	0.00	0.5347	0.260	48.690	ug/L
|	Se	82	42.317	0.00	0.5414	0.266	49.045	ug/L
⌊	Rb	85	9997.433	0.03				mg/L
	Y	89	231367.682	-59329.51				ug/L
	Rh	103	149.003	140.67				ug/L
⌈	Mo	98	837.911	0.00	0.5597	0.037	6.561	ug/L
|	Ag	107	210.004	0.00	0.0494	0.005	11.063	ug/L
|	Cd	114	5.005	0.00	0.0257	0.009	36.541	ug/L
| >	In	115	278280.274	278280.27				ug/L
|	Sn	118	676.023	0.00	0.2370	0.004	1.768	ug/L
⌊	Sb	123	1328.179	0.00	0.5119	0.031	6.134	ug/L
⌈	Ba	135	89426.593	0.22	81.5774	0.242	0.297	ug/L
|	Ce	140	12799.474	0.03				ug/L
⌊>	Tb	159	408844.203	408844.20				ug/L
⌈	Ho	165	330.039	0.00				ug/L
|	Tl	203	31.000	0.00	-0.0007	0.000	72.914	ug/L
|	Tl	205	66.674	0.00	-0.0079	0.001	10.798	ug/L
|	Pb	206	6576.898	0.02	1.5792	0.043	2.701	ug/L
|	Pb	207	5415.521	0.01	1.3769	0.049	3.564	ug/L
|	Pb	208	25647.544	0.06	1.4723	0.042	2.859	ug/L
|	U	238	26945.903	0.07	0.8753	0.009	0.976	ug/L
⌊>	Bi	209	381613.923	381613.92				ug/L

Approved: February 28, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	30821838.075	120.47	11.2498	0.188	1.667	mg/L
|	K	39	11137790.340	41.65	1.5612	0.028	1.820	mg/L
|	Ca	43	944111.788	3.69	63.0318	0.331	0.524	mg/L
|	Fe	54	248714.254	0.83	0.4416	0.011	2.442	mg/L
|	Fe	57	112976.033	0.42	0.5404	0.018	3.335	mg/L
⌊>	Sc-1	45	255780.950	255780.95				mg/L
	Cl	35	85488.161	65703.27				mg/L
	Kr	83	40.334	4.33				mg/L
	Br	81	12479.116	5318.55				mg/L
	P	31	180507.385	170384.25				mg/L
	S	34	1793296.534	1591530.03				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		80.280			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		77.628			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		81.657			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		74.452			
⌈	Na	23					

Sample ID: L1102061203
Report Date/Time: Friday, February 25, 2011 11:45:25

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102061202

Sample Date/Time: Friday, February 25, 2011 11:49:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 60
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19318.771	0.01				ug/L
|	Be	9	18.000	0.00	0.1136	0.031	27.253	ug/L
|	Al	27	805596.914	3.14	169.5273	7.500	4.424	ug/L
⌊>	Sc	45	256568.655	256568.65				ug/L
⌈	Ti	49	8758.047	0.02	19.2818	0.576	2.988	ug/L
|	V	51	66214.380	0.17	8.9210	0.078	0.877	ug/L
|	Cr	52	96004.615	0.23	15.0674	0.227	1.509	ug/L
|	Cr	53	9542.176	0.02	12.8960	0.762	5.911	ug/L
|	Mn	55	2699382.148	7.12	294.5807	3.389	1.150	ug/L
|	Co	59	98965.617	0.26	13.2867	0.221	1.664	ug/L
|	Ni	60	62725.089	0.17	40.6385	0.192	0.471	ug/L
|	Cu	65	17592.304	0.05	10.9143	0.138	1.262	ug/L
|	Zn	66	80354.049	0.21	83.8591	0.418	0.498	ug/L
|>	Ge	72	378996.143	378996.14				ug/L
|	As	75	10743.060	0.03	14.8868	0.151	1.014	ug/L
|	Se	77	69.334	0.00	0.2120	0.326	153.869	ug/L
|	Se	82	45.270	0.00	0.5741	0.150	26.203	ug/L
⌊	Rb	85	10167.935	0.03				mg/L
	Y	89	232580.822	-58116.37				ug/L
	Rh	103	154.003	145.67				ug/L
⌈	Mo	98	847.168	0.00	0.5642	0.022	3.918	ug/L
|	Ag	107	189.004	0.00	0.0424	0.003	7.536	ug/L
|	Cd	114	8.273	0.00	0.0301	0.008	25.282	ug/L
|>	In	115	279255.898	279255.90				ug/L
|	Sn	118	677.356	0.00	0.2366	0.008	3.254	ug/L
⌊	Sb	123	1529.039	0.01	0.5890	0.008	1.374	ug/L
⌈	Ba	135	91342.240	0.22	82.6404	1.195	1.446	ug/L
|	Ce	140	13817.594	0.03				ug/L
⌊>	Tb	159	412256.676	412256.68				ug/L
⌈	Ho	165	320.037	0.00				ug/L
|	Tl	203	43.334	0.00	0.0020	0.000	15.366	ug/L
|	Tl	205	93.343	0.00	-0.0055	0.002	35.662	ug/L
|	Pb	206	9745.511	0.03	2.4329	0.102	4.183	ug/L
|	Pb	207	8142.063	0.02	2.1535	0.104	4.813	ug/L
|	Pb	208	38402.801	0.10	2.2881	0.076	3.305	ug/L
|	U	238	26415.784	0.07	0.8716	0.015	1.672	ug/L
⌊>	Bi	209	375697.736	375697.74				ug/L

Sample ID: L1102061202
Report Date/Time: Friday, February 25, 2011 11:52:11
Page 1

Approved: February 28, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	31181003.638	121.63	11.3578	0.426	3.749	mg/L
|	K	39	10790588.726	40.18	1.5064	0.042	2.811	mg/L
|	Ca	43	981269.870	3.82	65.3115	1.010	1.547	mg/L
|	Fe	54	272654.718	0.92	0.4900	0.018	3.767	mg/L
|	Fe	57	127489.532	0.48	0.6124	0.061	9.926	mg/L
⌊>	Sc-1	45	256568.655	256568.65				mg/L
	Cl	35	82039.854	62254.97				mg/L
	Kr	83	45.667	9.67				mg/L
	Br	81	10925.299	3764.73				mg/L
	P	31	181412.837	171289.70				mg/L
	S	34	1944927.283	1743160.78				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		81.508			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		77.900			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		82.339			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		73.297			
⌈	Na	23					

Sample ID: L1102061202
Report Date/Time: Friday, February 25, 2011 11:52:11
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102061202PS WG357485-01

Sample Date/Time: Friday, February 25, 2011 11:56:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 61
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19619.299	0.01				ug/L
|	Be	9	12242.835	0.05	50.2439	1.984	3.949	ug/L
|	Al	27	1057714.529	4.03	217.8759	13.932	6.394	ug/L
⌊>	Sc	45	262314.527	262314.53				ug/L
⌈	Ti	49	9141.758	0.02	19.9471	0.316	1.586	ug/L
|	V	51	467692.151	1.22	64.0696	1.343	2.096	ug/L
|	Cr	52	427337.851	1.10	70.1881	0.977	1.392	ug/L
|	Cr	53	48120.331	0.12	66.8471	0.880	1.316	ug/L
|	Mn	55	3274547.320	8.56	353.9770	2.564	0.724	ug/L
|	Co	59	497483.003	1.30	66.2618	1.348	2.034	ug/L
|	Ni	60	146075.583	0.38	93.8161	1.029	1.097	ug/L
|	Cu	65	100912.418	0.26	62.2740	0.734	1.178	ug/L
|	Zn	66	126657.995	0.33	131.2489	1.517	1.156	ug/L
| >	Ge	72	382588.861	382588.86				ug/L
|	As	75	51440.130	0.13	70.0312	1.000	1.428	ug/L
|	Se	77	2750.378	0.01	51.3179	0.616	1.201	ug/L
|	Se	82	3464.884	0.01	52.1493	0.603	1.156	ug/L
⌊	Rb	85	10077.844	0.03				mg/L
	Y	89	234395.203	-56301.99				ug/L
	Rh	103	171.337	163.00				ug/L
⌈	Mo	98	877.020	0.00	0.5638	0.038	6.662	ug/L
|	Ag	107	151070.833	0.52	47.0268	0.563	1.198	ug/L
|	Cd	114	38704.504	0.13	50.2385	0.328	0.653	ug/L
| >	In	115	289542.985	289542.99				ug/L
|	Sn	118	1049.255	0.00	0.3654	0.029	8.034	ug/L
⌊	Sb	123	145377.521	0.50	54.9609	0.904	1.644	ug/L
⌈	Ba	135	156020.209	0.37	137.1025	0.906	0.661	ug/L
|	Ce	140	13854.315	0.03				ug/L
⌊>	Tb	159	424448.703	424448.70				ug/L
⌈	Ho	165	396.714	0.00				ug/L
|	Tl	203	274680.074	0.71	56.0166	0.878	1.567	ug/L
|	Tl	205	687328.762	1.79	57.6052	1.426	2.475	ug/L
|	Pb	206	241669.975	0.63	61.4062	0.914	1.488	ug/L
|	Pb	207	216160.216	0.56	58.1966	0.188	0.323	ug/L
|	Pb	208	994091.293	2.58	60.0871	0.262	0.436	ug/L
|	U	238	1882415.668	4.89	60.9424	0.334	0.549	ug/L
⌊>	Bi	209	384681.166	384681.17				ug/L

Sample ID: L1102061202PS WG357485-01
Report Date/Time: Friday, February 25, 2011 11:58:57
Page 1

Approved: February 28, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	31467732.449	120.07	11.2122	0.507	4.525	mg/L
|	K	39	10982176.238	39.99	1.4992	0.028	1.850	mg/L
|	Ca	43	1022231.790	3.90	66.5607	0.822	1.235	mg/L
|	Fe	54	279422.934	0.92	0.4913	0.022	4.461	mg/L
|	Fe	57	129928.290	0.47	0.6097	0.024	3.897	mg/L
⌊>	Sc-1	45	262314.527	262314.53				mg/L
	Cl	35	82560.083	62775.20				mg/L
	Kr	83	50.001	14.00				mg/L
	Br	81	10647.666	3487.10				mg/L
	P	31	182577.351	172454.21				mg/L
	S	34	1853591.091	1651824.59				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.281			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		80.770			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		84.774			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		75.050			
⌈	Na	23					

Sample ID: L1102061202PS WG357485-01
Report Date/Time: Friday, February 25, 2011 11:58:57
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Zn 66 Upper, S, EEE	Zn	66	
Ba 135 Upper, S, EEE	Ba	135	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102061202SDL WG357485-02

Sample Date/Time: Friday, February 25, 2011 12:03:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 62
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21890.871	0.02				ug/L
|	Be	9	4.667	0.00	0.0557	0.011	20.599	ug/L
|	Al	27	204130.489	0.74	39.9968	1.511	3.779	ug/L
⌊>	Sc	45	273490.876	273490.88				ug/L
⌈	Ti	49	2227.138	0.00	4.1996	0.159	3.783	ug/L
|	V	51	16899.096	0.03	1.7690	0.034	1.924	ug/L
|	Cr	52	28207.011	0.05	3.0353	0.063	2.092	ug/L
|	Cr	53	2397.197	0.00	2.3367	0.384	16.438	ug/L
|	Mn	55	663514.005	1.52	62.9631	0.488	0.775	ug/L
|	Co	59	23577.338	0.05	2.7344	0.055	2.015	ug/L
|	Ni	60	15581.286	0.04	8.7467	0.120	1.368	ug/L
|	Cu	65	4378.336	0.01	2.3209	0.071	3.044	ug/L
|	Zn	66	21875.120	0.05	19.4688	0.172	0.883	ug/L
| >	Ge	72	435110.862	435110.86				ug/L
|	As	75	2416.727	0.01	3.0414	0.077	2.518	ug/L
|	Se	77	50.667	-0.00	-0.2732	0.036	13.084	ug/L
|	Se	82	18.383	0.00	0.1269	0.101	79.618	ug/L
⌊	Rb	85	2377.973	0.01				mg/L
	Y	89	268969.862	-21727.33				ug/L
	Rh	103	46.334	38.00				ug/L
⌈	Mo	98	207.863	0.00	0.1171	0.001	0.933	ug/L
|	Ag	107	82.001	0.00	0.0026	0.001	38.514	ug/L
|	Cd	114	5.564	0.00	0.0249	0.002	9.103	ug/L
| >	In	115	347833.587	347833.59				ug/L
|	Sn	118	224.269	0.00	0.0443	0.001	2.975	ug/L
⌊	Sb	123	640.980	0.00	0.1914	0.016	8.433	ug/L
⌈	Ba	135	21734.150	0.04	16.5630	0.157	0.949	ug/L
|	Ce	140	3277.532	0.01				ug/L
⌊>	Tb	159	489580.836	489580.84				ug/L
⌈	Ho	165	100.011	0.00				ug/L
|	Tl	203	28.000	0.00	-0.0024	0.001	50.991	ug/L
|	Tl	205	60.006	0.00	-0.0094	0.001	7.150	ug/L
|	Pb	206	2705.727	0.01	0.4563	0.030	6.582	ug/L
|	Pb	207	2260.278	0.00	0.4034	0.027	6.682	ug/L
|	Pb	208	10601.984	0.02	0.4324	0.020	4.536	ug/L
|	U	238	6357.751	0.01	0.1644	0.003	1.663	ug/L
⌊>	Bi	209	469338.047	469338.05				ug/L

Approved: February 28, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	7342214.672	26.86	2.5060	0.071	2.847	mg/L
|	K	39	2962785.297	8.95	0.3387	0.011	3.285	mg/L
|	Ca	43	228336.757	0.83	14.2578	0.421	2.952	mg/L
|	Fe	54	94269.801	0.20	0.1092	0.007	6.007	mg/L
|	Fe	57	34275.398	0.10	0.1332	0.004	3.240	mg/L
⌊>	Sc-1	45	273490.876	273490.88				mg/L
	Cl	35	31088.250	11303.36				mg/L
	Kr	83	32.667	-3.33				mg/L
	Br	81	7639.584	479.02				mg/L
	P	31	51145.214	41022.08				mg/L
	S	34	624484.667	422718.16				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.577			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.031			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.783			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		91.566			
⌈	Na	23					

Sample ID: L1102061202SDL WG357485-02
Report Date/Time: Friday, February 25, 2011 12:05:44
Page 2

Approved: February 28, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 25, 2011 12:10:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20788.276	0.01				ug/L
|	Be	9	12968.421	0.05	49.6450	2.936	5.913	ug/L
|	Al	27	264092.063	0.93	50.3996	0.748	1.484	ug/L
⌊>	Sc	45	281285.901	281285.90				ug/L
⌈	Ti	49	53434.450	0.12	101.0659	2.383	2.358	ug/L
|	V	51	417056.552	0.94	49.2817	0.881	1.788	ug/L
|	Cr	52	352539.389	0.78	49.6922	1.116	2.246	ug/L
|	Cr	53	41687.599	0.09	49.8615	1.417	2.841	ug/L
|	Mn	55	529051.301	1.19	49.2872	0.505	1.025	ug/L
|	Co	59	429277.122	0.97	49.3770	0.286	0.580	ug/L
|	Ni	60	88976.088	0.20	49.3323	0.994	2.014	ug/L
|	Cu	65	92916.627	0.21	49.5169	0.375	0.757	ug/L
|	Zn	66	55359.029	0.12	49.2067	0.330	0.671	ug/L
|>	Ge	72	442953.674	442953.67				ug/L
|	As	75	42304.080	0.10	49.7838	0.544	1.092	ug/L
|	Se	77	3055.800	0.01	49.1984	1.118	2.273	ug/L
|	Se	82	3768.087	0.01	48.9745	1.120	2.287	ug/L
⌊	Rb	85	1543.135	0.00				mg/L
	Y	89	268325.591	-22371.60				ug/L
	Rh	103	20.667	12.33				ug/L
⌈	Mo	98	189064.210	0.54	99.5296	3.307	3.323	ug/L
|	Ag	107	192340.399	0.55	49.7174	0.749	1.506	ug/L
|	Cd	114	45024.382	0.13	48.5336	0.180	0.371	ug/L
|>	In	115	348682.480	348682.48				ug/L
|	Sn	118	157383.525	0.45	48.7069	0.379	0.779	ug/L
⌊	Sb	123	156807.358	0.45	49.2186	0.734	1.492	ug/L
⌈	Ba	135	64321.178	0.13	49.2868	1.216	2.467	ug/L
|	Ce	140	43.338	0.00				ug/L
⌊>	Tb	159	486924.437	486924.44				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	296361.468	0.62	48.2654	0.451	0.933	ug/L
|	Tl	205	733961.003	1.52	49.1180	0.529	1.078	ug/L
|	Pb	206	240035.501	0.50	48.6941	1.049	2.154	ug/L
|	Pb	207	228038.386	0.47	49.0242	0.014	0.029	ug/L
|	Pb	208	1021394.823	2.12	49.3006	0.479	0.972	ug/L
|	U	238	1927425.020	4.00	49.8541	0.847	1.700	ug/L
⌊>	Bi	209	481566.946	481566.95				ug/L

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 12:12:31
Page 1

Approved: February 28, 2011

⌈	Na	23	24857411.607	88.07	5.1303	0.178	3.471	mg/L
|	Mg	24	15308300.305	54.43	5.0816	0.059	1.169	mg/L
|	K	39	37491602.740	131.46	4.9192	0.143	2.908	mg/L
|	Ca	43	81912.273	0.29	4.9663	0.097	1.959	mg/L
|	Fe	54	2614501.061	9.15	4.8528	0.018	0.362	mg/L
|	Fe	57	1077294.178	3.81	4.9003	0.017	0.343	mg/L
⌊>	Sc-1	45	281285.901	281285.90				mg/L
	Cl	35	17378.422	-2406.47				mg/L
	Kr	83	39.334	3.33				mg/L
	Br	81	5768.331	-1392.23				mg/L
	P	31	8849.917	-1273.22				mg/L
	S	34	192289.934	-9476.57				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	98.563				
|	Cr	52	99.384				
|	Cr	53					
|	Mn	55	98.574				
|	Co	59	98.754				
|	Ni	60	98.665				
|	Cu	65	99.034				
|	Zn	66	98.413				
|>	Ge	72		95.263			
|	As	75	99.568				
|	Se	77					
|	Se	82	97.949				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	99.435				
|	Cd	114	97.067				
|>	In	115		97.268			
|	Sn	118					
⌊	Sb	123	98.437				
⌈	Ba	135	98.574				
|	Ce	140					
⌊>	Tb	159		97.252			
⌈	Ho	165					
|	Tl	203	96.531				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	98.601				
|	U	238	99.708				
⌊>	Bi	209		93.952			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 12:12:31

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 12:12:31

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 25, 2011 12:17:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22659.004	0.02				ug/L
|	Be	9	2.667	-0.00	0.0474	0.009	18.149	ug/L
|	Al	27	1216.741	-0.00	-0.1353	0.020	15.054	ug/L
⌊>	Sc	45	290185.958	290185.96				ug/L
⌈	Ti	49	46.671	-0.00	-0.0084	0.063	746.654	ug/L
|	V	51	2255.422	-0.00	-0.0199	0.013	65.184	ug/L
|	Cr	52	7777.769	-0.00	-0.0340	0.029	84.066	ug/L
|	Cr	53	343.374	-0.00	-0.2222	0.084	38.010	ug/L
|	Mn	55	375.344	-0.00	-0.0953	0.001	1.404	ug/L
|	Co	59	80.001	-0.00	-0.0192	0.001	3.692	ug/L
|	Ni	60	52.001	-0.00	-0.0310	0.004	11.365	ug/L
|	Cu	65	123.002	0.00	0.0055	0.006	108.958	ug/L
|	Zn	66	464.015	-0.00	-0.1464	0.031	21.108	ug/L
| >	Ge	72	464712.411	464712.41				ug/L
|	As	75	-94.621	0.00	0.0493	0.032	64.137	ug/L
|	Se	77	51.333	-0.00	-0.3171	0.059	18.456	ug/L
|	Se	82	10.751	-0.00	0.0164	0.167	1021.581	ug/L
⌊	Rb	85	14.333	-0.00				mg/L
	Y	89	280264.917	-10432.27				ug/L
	Rh	103	4.667	-3.67				ug/L
⌈	Mo	98	78.006	0.00	0.0457	0.008	17.067	ug/L
|	Ag	107	20.667	0.00	-0.0137	0.001	5.770	ug/L
|	Cd	114	0.176	-0.00	0.0191	0.002	9.299	ug/L
| >	In	115	374017.208	374017.21				ug/L
|	Sn	118	193.335	0.00	0.0304	0.006	19.531	ug/L
⌊	Sb	123	89.868	0.00	0.0161	0.004	26.382	ug/L
⌈	Ba	135	11.333	0.00	0.0136	0.001	4.993	ug/L
|	Ce	140	23.336	0.00				ug/L
⌊>	Tb	159	521531.061	521531.06				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	27.334	0.00	-0.0029	0.001	24.888	ug/L
|	Tl	205	50.005	0.00	-0.0104	0.001	10.018	ug/L
|	Pb	206	397.679	0.00	-0.0317	0.008	24.942	ug/L
|	Pb	207	338.342	0.00	-0.0274	0.006	22.464	ug/L
|	Pb	208	1579.065	0.00	-0.0215	0.004	18.708	ug/L
|	U	238	96.335	0.00	-0.0020	0.000	6.791	ug/L
⌊>	Bi	209	510364.247	510364.25				ug/L

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 12:19:45
Page 1

Approved: February 28, 2011

⌈	Na	23	147734.915	0.16	0.0135	0.001	9.086	mg/L
|	Mg	24	476.726	0.00	-0.0024	0.000	1.398	mg/L
|	K	39	560434.254	0.05	0.0057	0.002	34.735	mg/L
|	Ca	43	180.020	0.00	0.0016	0.006	371.734	mg/L
|	Fe	54	40875.650	-0.00	0.0011	0.002	153.303	mg/L
|	Fe	57	6259.255	-0.00	-0.0004	0.001	158.635	mg/L
⌊>	Sc-1	45	290185.958	290185.96				mg/L
	Cl	35	17302.291	-2482.60				mg/L
	Kr	83	28.667	-7.33				mg/L
	Br	81	6450.747	-709.82				mg/L
	P	31	9867.547	-255.59				mg/L
	S	34	211474.192	9707.69				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.943			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.335			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.164			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.570			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 12:19:45
Page 2

Approved: February 28, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 12:19:45

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102060901

Sample Date/Time: Friday, February 25, 2011 12:24:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 63
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

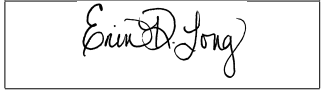
User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25733.287	0.03				ug/L
|	Be	9	4.000	0.00	0.0535	0.009	15.987	ug/L
|	Al	27	21623.519	0.07	3.9401	0.300	7.626	ug/L
⌊>	Sc	45	271284.028	271284.03				ug/L
⌈	Ti	49	7516.916	0.02	14.8728	0.794	5.337	ug/L
|	V	51	3393.377	0.00	0.1486	0.006	3.716	ug/L
|	Cr	52	15173.321	0.02	1.1975	0.037	3.115	ug/L
|	Cr	53	1473.590	0.00	1.2582	0.124	9.825	ug/L
|	Mn	55	4009.844	0.01	0.2654	0.018	6.664	ug/L
|	Co	59	636.693	0.00	0.0491	0.002	3.603	ug/L
|	Ni	60	2819.092	0.01	1.5883	0.074	4.679	ug/L
|	Cu	65	3418.285	0.01	1.8613	0.019	1.001	ug/L
|	Zn	66	10490.938	0.02	9.3739	0.148	1.575	ug/L
| >	Ge	72	421155.748	421155.75				ug/L
|	As	75	795.799	0.00	1.1369	0.330	29.040	ug/L
|	Se	77	1871.509	0.00	31.3104	1.479	4.724	ug/L
|	Se	82	2381.317	0.01	32.5347	1.671	5.137	ug/L
⌊	Rb	85	3439.293	0.01				mg/L
	Y	89	235473.461	-55223.73				ug/L
	Rh	103	211.338	203.00				ug/L
⌈	Mo	98	419.730	0.00	0.2647	0.016	5.888	ug/L
|	Ag	107	24.667	0.00	-0.0112	0.003	22.843	ug/L
|	Cd	114	4.026	0.00	0.0240	0.005	20.836	ug/L
| >	In	115	299485.249	299485.25				ug/L
|	Sn	118	1037.387	0.00	0.3486	0.009	2.645	ug/L
⌊	Sb	123	87.206	0.00	0.0216	0.006	27.357	ug/L
⌈	Ba	135	1298.431	0.00	1.1268	0.066	5.853	ug/L
|	Ce	140	140.015	0.00				ug/L
⌊>	Tb	159	431788.662	431788.66				ug/L
⌈	Ho	165	113.345	0.00				ug/L
|	Tl	203	201.671	0.00	0.0304	0.002	7.516	ug/L
|	Tl	205	513.398	0.00	0.0256	0.003	9.911	ug/L
|	Pb	206	394.012	0.00	-0.0167	0.007	39.593	ug/L
|	Pb	207	344.009	0.00	-0.0117	0.002	16.848	ug/L
|	Pb	208	1580.065	0.00	-0.0065	0.001	8.412	ug/L
|	U	238	294678.335	0.70	8.6875	0.263	3.023	ug/L
⌊>	Bi	209	422399.374	422399.37				ug/L

Sample ID: L1102060901
Report Date/Time: Friday, February 25, 2011 12:26:32
Page 1

Approved: February 28, 2011



⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	232049626.675	856.35	79.9834	3.562	4.453	mg/L
|	K	39	10843046.567	38.12	1.4293	0.055	3.854	mg/L
|	Ca	43	509374.352	1.88	32.0893	1.126	3.508	mg/L
|	Fe	54	47092.463	0.03	0.0186	0.005	28.994	mg/L
|	Fe	57	30446.007	0.09	0.1164	0.006	5.386	mg/L
⌊>	Sc-1	45	271284.028	271284.03				mg/L
	Cl	35	691523.457	671738.57				mg/L
	Kr	83	38.334	2.33				mg/L
	Br	81	89820.267	82659.70				mg/L
	P	31	9945.611	-177.53				mg/L
	S	34	8424697.821	8222931.32				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
| >	Ge	72		90.575			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
| >	In	115		83.544			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		86.240			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		82.409			
⌈	Na	23					

Sample ID: L1102060901
Report Date/Time: Friday, February 25, 2011 12:26:32
Page 2

Approved: February 28, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102060902

Sample Date/Time: Friday, February 25, 2011 12:31:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 64
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26017.175	0.03				ug/L
|	Be	9	2.000	-0.00	0.0451	0.008	16.940	ug/L
|	Al	27	19803.041	0.06	3.4272	0.316	9.230	ug/L
⌊>	Sc	45	282296.928	282296.93				ug/L
⌈	Ti	49	3801.107	0.01	7.1261	0.614	8.614	ug/L
|	V	51	3017.237	0.00	0.0846	0.013	15.176	ug/L
|	Cr	52	10250.354	0.00	0.3806	0.022	5.852	ug/L
|	Cr	53	713.430	0.00	0.2494	0.081	32.563	ug/L
|	Mn	55	410883.592	0.93	38.3971	1.470	3.828	ug/L
|	Co	59	1070.735	0.00	0.0957	0.007	7.690	ug/L
|	Ni	60	5686.355	0.01	3.1086	0.349	11.239	ug/L
|	Cu	65	2302.288	0.01	1.1762	0.064	5.446	ug/L
|	Zn	66	4007.843	0.01	3.0719	0.070	2.283	ug/L
|>	Ge	72	441204.423	441204.42				ug/L
|	As	75	191.423	0.00	0.3806	0.013	3.300	ug/L
|	Se	77	59.334	-0.00	-0.1432	0.207	144.233	ug/L
|	Se	82	107.663	0.00	1.2908	0.045	3.450	ug/L
⌊	Rb	85	5114.695	0.01				mg/L
	Y	89	250944.799	-39752.39				ug/L
	Rh	103	343.009	334.68				ug/L
⌈	Mo	98	70.905	0.00	0.0470	0.003	7.421	ug/L
|	Ag	107	19.000	0.00	-0.0134	0.002	13.855	ug/L
|	Cd	114	6.957	0.00	0.0269	0.005	20.373	ug/L
|>	In	115	329332.708	329332.71				ug/L
|	Sn	118	141.734	0.00	0.0212	0.002	10.440	ug/L
⌊	Sb	123	60.744	0.00	0.0099	0.003	34.120	ug/L
⌈	Ba	135	1033.731	0.00	0.7984	0.071	8.926	ug/L
|	Ce	140	146.682	0.00				ug/L
⌊>	Tb	159	486250.084	486250.08				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	148.669	0.00	0.0185	0.002	8.550	ug/L
|	Tl	205	440.054	0.00	0.0175	0.006	34.419	ug/L
|	Pb	206	410.346	0.00	-0.0201	0.005	26.411	ug/L
|	Pb	207	356.677	0.00	-0.0151	0.005	31.940	ug/L
|	Pb	208	1641.736	0.00	-0.0099	0.000	2.510	ug/L
|	U	238	96840.407	0.21	2.6370	0.023	0.871	ug/L
⌊>	Bi	209	456640.742	456640.74				ug/L

Sample ID: L1102060902
Report Date/Time: Friday, February 25, 2011 12:33:19
Page 1

Approved: February 28, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	174248116.592	617.13	57.6396	0.962	1.669	mg/L
|	K	39	11872768.543	40.17	1.5060	0.009	0.615	mg/L
|	Ca	43	605373.727	2.14	36.6082	0.834	2.279	mg/L
|	Fe	54	49834.414	0.04	0.0200	0.002	11.290	mg/L
|	Fe	57	35553.338	0.10	0.1340	0.008	5.900	mg/L
⌊>	Sc-1	45	282296.928	282296.93				mg/L
	Cl	35	295662.709	275877.82				mg/L
	Kr	83	39.000	3.00				mg/L
	Br	81	47599.685	40439.12				mg/L
	P	31	10946.015	822.88				mg/L
	S	34	4122099.377	3920332.87				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.887			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.870			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.117			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.089			
⌈	Na	23					

Sample ID: L1102060902
Report Date/Time: Friday, February 25, 2011 12:33:19

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102060902
Report Date/Time: Friday, February 25, 2011 12:33:19
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102060903

Sample Date/Time: Friday, February 25, 2011 12:37:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 65
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	24597.192	0.03				ug/L
|	Be	9	3.333	0.00	0.0512	0.013	24.741	ug/L
|	Al	27	22375.028	0.08	4.2143	0.224	5.322	ug/L
⌊>	Sc	45	264400.867	264400.87				ug/L
⌈	Ti	49	2620.605	0.01	5.1775	0.075	1.440	ug/L
|	V	51	2973.884	0.00	0.1000	0.011	10.680	ug/L
|	Cr	52	9955.720	0.01	0.4213	0.021	4.867	ug/L
|	Cr	53	660.088	0.00	0.2301	0.118	51.183	ug/L
|	Mn	55	793929.379	1.90	78.6323	3.675	4.674	ug/L
|	Co	59	2067.568	0.00	0.2247	0.016	7.018	ug/L
|	Ni	60	4224.604	0.01	2.4320	0.152	6.255	ug/L
|	Cu	65	1635.484	0.00	0.8696	0.054	6.200	ug/L
|	Zn	66	10310.085	0.02	9.2974	0.258	2.776	ug/L
|>	Ge	72	417014.087	417014.09				ug/L
|	As	75	162.613	0.00	0.3576	0.072	20.141	ug/L
|	Se	77	120.001	0.00	0.9763	0.099	10.147	ug/L
|	Se	82	151.644	0.00	1.9803	0.285	14.399	ug/L
⌊	Rb	85	4145.903	0.01				mg/L
	Y	89	236388.291	-54308.90				ug/L
	Rh	103	193.670	185.34				ug/L
⌈	Mo	98	223.653	0.00	0.1418	0.013	8.960	ug/L
|	Ag	107	18.334	0.00	-0.0132	0.001	7.699	ug/L
|	Cd	114	7.368	0.00	0.0280	0.011	38.723	ug/L
|>	In	115	305158.337	305158.34				ug/L
|	Sn	118	96.667	0.00	0.0088	0.002	20.544	ug/L
⌊	Sb	123	57.453	0.00	0.0103	0.002	22.904	ug/L
⌈	Ba	135	964.389	0.00	0.8221	0.030	3.613	ug/L
|	Ce	140	250.028	0.00				ug/L
⌊>	Tb	159	440848.731	440848.73				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	149.336	0.00	0.0203	0.001	5.633	ug/L
|	Tl	205	323.371	0.00	0.0108	0.006	59.016	ug/L
|	Pb	206	367.677	0.00	-0.0238	0.006	25.272	ug/L
|	Pb	207	318.675	0.00	-0.0189	0.006	32.964	ug/L
|	Pb	208	1502.060	0.00	-0.0118	0.002	20.267	ug/L
|	U	238	138101.877	0.32	4.0217	0.083	2.053	ug/L
⌊>	Bi	209	427031.862	427031.86				ug/L

Sample ID: L1102060903
Report Date/Time: Friday, February 25, 2011 12:40:07
Page 1

Approved: February 28, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	105671639.615	399.64	37.3249	0.879	2.356	mg/L
|	K	39	7470045.284	26.35	0.9894	0.033	3.336	mg/L
|	Ca	43	584732.901	2.21	37.7675	0.359	0.951	mg/L
|	Fe	54	44667.628	0.03	0.0160	0.002	10.305	mg/L
|	Fe	57	32091.423	0.10	0.1280	0.008	6.297	mg/L
⌊>	Sc-1	45	264400.867	264400.87				mg/L
	Cl	35	266481.562	246696.67				mg/L
	Kr	83	41.334	5.33				mg/L
	Br	81	44520.891	37360.33				mg/L
	P	31	9837.589	-285.55				mg/L
	S	34	2798617.346	2596850.84				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.685			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		85.126			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		88.049			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		83.313			
⌈	Na	23					

Sample ID: L1102060903
Report Date/Time: Friday, February 25, 2011 12:40:07

Approved: February 28, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102060904

Sample Date/Time: Friday, February 25, 2011 12:44:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 66
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

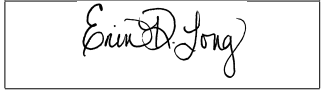
User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25064.726	0.03				ug/L
|	Be	9	5.333	0.00	0.0586	0.016	27.861	ug/L
|	Al	27	43109.472	0.15	8.2688	0.021	0.251	ug/L
⌊>	Sc	45	269999.904	269999.90				ug/L
⌈	Ti	49	4678.228	0.01	9.3296	0.327	3.509	ug/L
|	V	51	2818.547	0.00	0.0806	0.009	11.183	ug/L
|	Cr	52	11063.895	0.01	0.5930	0.028	4.739	ug/L
|	Cr	53	1200.192	0.00	0.9283	0.110	11.861	ug/L
|	Mn	55	91493.546	0.22	8.9573	0.227	2.534	ug/L
|	Co	59	901.716	0.00	0.0823	0.006	7.863	ug/L
|	Ni	60	3405.614	0.01	1.9519	0.059	3.047	ug/L
|	Cu	65	2679.386	0.01	1.4633	0.039	2.661	ug/L
|	Zn	66	15034.112	0.04	13.8224	0.141	1.018	ug/L
| >	Ge	72	416620.466	416620.47				ug/L
|	As	75	432.254	0.00	0.6946	0.042	6.029	ug/L
|	Se	77	192.002	0.00	2.2359	0.296	13.229	ug/L
|	Se	82	310.641	0.00	4.1872	0.185	4.414	ug/L
⌊	Rb	85	3453.298	0.01				mg/L
	Y	89	238495.526	-52201.66				ug/L
	Rh	103	202.671	194.34				ug/L
⌈	Mo	98	171.537	0.00	0.1124	0.008	6.918	ug/L
|	Ag	107	20.000	0.00	-0.0127	0.002	18.426	ug/L
|	Cd	114	0.140	-0.00	0.0191	0.001	5.154	ug/L
| >	In	115	300338.861	300338.86				ug/L
|	Sn	118	110.134	0.00	0.0142	0.002	13.990	ug/L
⌊	Sb	123	50.371	0.00	0.0080	0.003	32.826	ug/L
⌈	Ba	135	1458.121	0.00	1.2475	0.047	3.801	ug/L
|	Ce	140	286.700	0.00				ug/L
⌊>	Tb	159	437978.096	437978.10				ug/L
⌈	Ho	165	70.007	0.00				ug/L
|	Tl	203	203.671	0.00	0.0321	0.005	16.685	ug/L
|	Tl	205	463.391	0.00	0.0234	0.013	57.047	ug/L
|	Pb	206	370.677	0.00	-0.0191	0.007	36.763	ug/L
|	Pb	207	325.675	0.00	-0.0137	0.005	34.325	ug/L
|	Pb	208	1514.394	0.00	-0.0073	0.002	32.605	ug/L
|	U	238	123294.148	0.30	3.7574	0.149	3.955	ug/L
⌊>	Bi	209	408697.875	408697.87				ug/L

Sample ID: L1102060904
Report Date/Time: Friday, February 25, 2011 12:46:55
Page 1

Approved: February 28, 2011



⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	116375678.856	431.36	40.2876	1.233	3.060	mg/L
|	K	39	10630941.489	37.48	1.4055	0.009	0.673	mg/L
|	Ca	43	553221.170	2.05	34.9995	0.585	1.671	mg/L
|	Fe	54	48692.666	0.04	0.0220	0.002	10.139	mg/L
|	Fe	57	33523.102	0.10	0.1314	0.009	6.943	mg/L
⌊>	Sc-1	45	269999.904	269999.90				mg/L
	Cl	35	813966.834	794181.95				mg/L
	Kr	83	42.334	6.33				mg/L
	Br	81	113966.485	106805.92				mg/L
	P	31	9888.942	-234.20				mg/L
	S	34	5253898.470	5052131.97				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.600			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		83.782			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		87.476			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		79.736			
⌈	Na	23					

Sample ID: L1102060904
Report Date/Time: Friday, February 25, 2011 12:46:55
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102060904
Report Date/Time: Friday, February 25, 2011 12:46:55
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102060905

Sample Date/Time: Friday, February 25, 2011 12:51:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 67
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	26485.139	0.03				ug/L
|	Be	9	4.000	0.00	0.0522	0.000	0.784	ug/L
|	Al	27	34693.417	0.11	6.0557	0.256	4.235	ug/L
⌊>	Sc	45	292415.791	292415.79				ug/L
⌈	Ti	49	1266.874	0.00	2.2123	0.300	13.577	ug/L
|	V	51	2966.070	0.00	0.0631	0.007	11.251	ug/L
|	Cr	52	10146.917	0.00	0.3021	0.049	16.058	ug/L
|	Cr	53	736.769	0.00	0.2389	0.224	93.818	ug/L
|	Mn	55	74578.940	0.16	6.5624	0.176	2.683	ug/L
|	Co	59	451.015	0.00	0.0218	0.002	9.089	ug/L
|	Ni	60	1738.169	0.00	0.8682	0.040	4.619	ug/L
|	Cu	65	987.059	0.00	0.4489	0.042	9.283	ug/L
|	Zn	66	3223.887	0.01	2.2395	0.227	10.129	ug/L
|>	Ge	72	461139.569	461139.57				ug/L
|	As	75	89.138	0.00	0.2555	0.065	25.611	ug/L
|	Se	77	78.667	0.00	0.1202	0.436	362.444	ug/L
|	Se	82	85.364	0.00	0.9508	0.147	15.446	ug/L
⌊	Rb	85	2342.298	0.01				mg/L
	Y	89	263519.916	-27177.27				ug/L
	Rh	103	136.336	128.00				ug/L
⌈	Mo	98	349.169	0.00	0.1874	0.008	4.158	ug/L
|	Ag	107	16.667	0.00	-0.0144	0.001	7.444	ug/L
|	Cd	114	1.416	0.00	0.0204	0.005	22.563	ug/L
|>	In	115	356179.486	356179.49				ug/L
|	Sn	118	80.000	0.00	-0.0011	0.002	223.219	ug/L
⌊	Sb	123	54.579	0.00	0.0065	0.001	19.793	ug/L
⌈	Ba	135	1651.486	0.00	1.2212	0.056	4.580	ug/L
|	Ce	140	206.690	0.00				ug/L
⌊>	Tb	159	507066.449	507066.45				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	107.002	0.00	0.0100	0.001	14.901	ug/L
|	Tl	205	240.027	0.00	0.0022	0.004	173.526	ug/L
|	Pb	206	444.348	0.00	-0.0198	0.005	26.169	ug/L
|	Pb	207	364.677	0.00	-0.0194	0.005	24.631	ug/L
|	Pb	208	1763.413	0.00	-0.0103	0.003	26.719	ug/L
|	U	238	13038.291	0.03	0.3253	0.002	0.556	ug/L
⌊>	Bi	209	492766.209	492766.21				ug/L

Sample ID: L1102060905
Report Date/Time: Friday, February 25, 2011 12:53:43
Page 1

Approved: February 28, 2011

⌈	Na	23	302980151.734	1036.93	60.3613	3.685	6.105	mg/L
|	Mg	24	34977896.734	119.73	11.1805	0.571	5.106	mg/L
|	K	39	5774097.901	17.87	0.6721	0.017	2.509	mg/L
|	Ca	43	285042.257	0.97	16.6398	0.038	0.231	mg/L
|	Fe	54	52993.890	0.04	0.0225	0.003	15.284	mg/L
|	Fe	57	22497.570	0.05	0.0709	0.005	7.125	mg/L
⌊>	Sc-1	45	292415.791	292415.79				mg/L
	Cl	35	324797.082	305012.19				mg/L
	Kr	83	35.000	-1.00				mg/L
	Br	81	41382.787	34222.22				mg/L
	P	31	11698.175	1575.04				mg/L
	S	34	1849064.525	1647298.02				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.175			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.359			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.275			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.137			
⌈	Na	23					

Sample ID: L1102060905
Report Date/Time: Friday, February 25, 2011 12:53:43

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102060905
Report Date/Time: Friday, February 25, 2011 12:53:43
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102060906 WG357433-01

Sample Date/Time: Friday, February 25, 2011 12:58:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 68
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25599.566	0.03				ug/L
|	Be	9	8.000	0.00	0.0676	0.007	9.690	ug/L
|	Al	27	20955.290	0.07	3.6243	0.176	4.868	ug/L
⌊>	Sc	45	284287.513	284287.51				ug/L
⌈	Ti	49	4824.981	0.01	9.2062	0.447	4.850	ug/L
|	V	51	3186.301	0.00	0.1098	0.017	15.373	ug/L
|	Cr	52	10314.086	0.01	0.4101	0.009	2.236	ug/L
|	Cr	53	996.816	0.00	0.6101	0.074	12.095	ug/L
|	Mn	55	110623.121	0.25	10.3853	0.288	2.770	ug/L
|	Co	59	1076.402	0.00	0.0981	0.006	5.948	ug/L
|	Ni	60	4141.236	0.01	2.2800	0.180	7.896	ug/L
|	Cu	65	2863.772	0.01	1.4977	0.036	2.407	ug/L
|	Zn	66	11628.544	0.03	10.0904	0.208	2.058	ug/L
|>	Ge	72	435239.698	435239.70				ug/L
|	As	75	515.705	0.00	0.7709	0.014	1.823	ug/L
|	Se	77	105.334	0.00	0.6407	0.374	58.302	ug/L
|	Se	82	231.635	0.00	2.9538	0.106	3.578	ug/L
⌊	Rb	85	3150.862	0.01				mg/L
	Y	89	244603.279	-46093.91				ug/L
	Rh	103	244.672	236.34				ug/L
⌈	Mo	98	471.290	0.00	0.2735	0.014	5.198	ug/L
|	Ag	107	83.668	0.00	0.0046	0.002	48.757	ug/L
|	Cd	114	8.817	0.00	0.0291	0.002	6.687	ug/L
|>	In	115	325048.342	325048.34				ug/L
|	Sn	118	82.267	0.00	0.0020	0.001	62.604	ug/L
⌊	Sb	123	116.913	0.00	0.0291	0.003	9.393	ug/L
⌈	Ba	135	1543.801	0.00	1.2454	0.050	4.003	ug/L
|	Ce	140	190.021	0.00				ug/L
⌊>	Tb	159	464611.611	464611.61				ug/L
⌈	Ho	165	53.339	0.00				ug/L
|	Tl	203	193.671	0.00	0.0262	0.005	19.074	ug/L
|	Tl	205	456.723	0.00	0.0188	0.005	28.515	ug/L
|	Pb	206	415.346	0.00	-0.0189	0.005	27.015	ug/L
|	Pb	207	339.343	0.00	-0.0189	0.006	33.743	ug/L
|	Pb	208	1647.071	0.00	-0.0095	0.003	29.111	ug/L
|	U	238	189710.012	0.42	5.1770	0.169	3.261	ug/L
⌊>	Bi	209	455944.505	455944.51				ug/L

Sample ID: L1102060906 WG357433-01
Report Date/Time: Friday, February 25, 2011 13:00:32
Page 1

Approved: February 28, 2011

Erin D. Long

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	172938218.656	608.43	56.8266	1.275	2.243	mg/L
|	K	39	12790861.965	43.13	1.6165	0.039	2.386	mg/L
|	Ca	43	609838.920	2.15	36.6522	1.348	3.678	mg/L
|	Fe	54	48338.510	0.03	0.0167	0.006	35.863	mg/L
|	Fe	57	38357.498	0.11	0.1455	0.012	8.070	mg/L
⌊>	Sc-1	45	284287.513	284287.51				mg/L
	Cl	35	751842.089	732057.20				mg/L
	Kr	83	42.667	6.67				mg/L
	Br	81	127532.081	120371.52				mg/L
	P	31	11303.724	1180.59				mg/L
	S	34	4940904.950	4739138.44				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.604			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.675			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.795			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		88.953			
⌈	Na	23					

Sample ID: L1102060906 WG357433-01
Report Date/Time: Friday, February 25, 2011 13:00:32
Page 2

Approved: February 28, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102060906S WG357433-05

Sample Date/Time: Friday, February 25, 2011 13:05:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 69
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23277.322	0.02				ug/L
|	Be	9	1282.082	0.00	5.1902	0.174	3.353	ug/L
|	Al	27	43645.602	0.16	8.4597	0.900	10.633	ug/L
⌊>	Sc	45	267654.612	267654.61				ug/L
⌈	Ti	49	3967.852	0.01	7.9571	0.545	6.853	ug/L
|	V	51	44697.585	0.10	5.4125	0.104	1.914	ug/L
|	Cr	52	43985.684	0.09	5.6845	0.103	1.821	ug/L
|	Cr	53	4895.022	0.01	5.7289	0.166	2.889	ug/L
|	Mn	55	152854.978	0.37	15.1575	0.428	2.821	ug/L
|	Co	59	43496.247	0.10	5.3322	0.121	2.263	ug/L
|	Ni	60	11951.270	0.03	7.0452	0.305	4.329	ug/L
|	Cu	65	11564.135	0.03	6.5502	0.133	2.031	ug/L
|	Zn	66	15992.285	0.04	14.8442	0.419	2.821	ug/L
|>	Ge	72	413589.868	413589.87				ug/L
|	As	75	4556.325	0.01	5.8803	0.065	1.103	ug/L
|	Se	77	419.342	0.00	6.2798	0.706	11.238	ug/L
|	Se	82	564.995	0.00	7.7694	0.353	4.546	ug/L
⌊	Rb	85	2834.097	0.01				mg/L
	Y	89	233859.445	-56837.74				ug/L
	Rh	103	204.671	196.34				ug/L
⌈	Mo	98	401.546	0.00	0.2525	0.010	4.053	ug/L
|	Ag	107	15590.644	0.05	4.6543	0.140	3.004	ug/L
|	Cd	114	4061.929	0.01	5.0909	0.097	1.897	ug/L
|>	In	115	300803.045	300803.04				ug/L
|	Sn	118	74.400	0.00	0.0014	0.001	68.991	ug/L
⌊	Sb	123	15103.965	0.05	5.4869	0.102	1.862	ug/L
⌈	Ba	135	7665.349	0.02	6.6649	0.025	0.379	ug/L
|	Ce	140	173.352	0.00				ug/L
⌊>	Tb	159	429301.136	429301.14				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	28498.228	0.07	5.3954	0.113	2.102	ug/L
|	Tl	205	70243.601	0.17	5.4570	0.213	3.906	ug/L
|	Pb	206	24475.204	0.06	5.6823	0.108	1.907	ug/L
|	Pb	207	21400.110	0.05	5.2705	0.120	2.271	ug/L
|	Pb	208	98897.923	0.24	5.4733	0.127	2.329	ug/L
|	U	238	351877.348	0.85	10.5859	0.283	2.673	ug/L
⌊>	Bi	209	413628.285	413628.28				ug/L

Sample ID: L1102060906S WG357433-05
Report Date/Time: Friday, February 25, 2011 13:07:21
Page 1

Approved: February 28, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	153099603.138	572.57	53.4780	3.141	5.873	mg/L
|	K	39	11281927.596	40.29	1.5105	0.055	3.617	mg/L
|	Ca	43	533107.126	1.99	34.0388	1.661	4.880	mg/L
|	Fe	54	46463.523	0.03	0.0185	0.002	13.300	mg/L
|	Fe	57	33031.583	0.10	0.1308	0.020	15.497	mg/L
⌊>	Sc-1	45	267654.612	267654.61				mg/L
	Cl	35	629303.165	609518.28				mg/L
	Kr	83	41.667	5.67				mg/L
	Br	81	97776.352	90615.79				mg/L
	P	31	9108.178	-1014.96				mg/L
	S	34	4256004.719	4054238.21				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.948			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		83.911			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		85.743			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		80.698			
⌈	Na	23					

Sample ID: L1102060906S WG357433-05
Report Date/Time: Friday, February 25, 2011 13:07:21
Page 2

Approved: February 28, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102060906S WG357433-05
Report Date/Time: Friday, February 25, 2011 13:07:21
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102060906SD WG357433-06

Sample Date/Time: Friday, February 25, 2011 13:11:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 70
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25866.789	0.02				ug/L
|	Be	9	1488.778	0.00	5.4252	0.186	3.425	ug/L
|	Al	27	53660.297	0.18	9.3998	0.468	4.983	ug/L
⌊>	Sc	45	297392.853	297392.85				ug/L
⌈	Ti	49	4738.264	0.01	8.8588	0.326	3.682	ug/L
|	V	51	50031.432	0.11	5.6567	0.058	1.031	ug/L
|	Cr	52	48998.594	0.09	5.9422	0.112	1.879	ug/L
|	Cr	53	5432.018	0.01	5.9451	0.129	2.174	ug/L
|	Mn	55	168967.104	0.38	15.6204	0.364	2.329	ug/L
|	Co	59	49051.198	0.11	5.6057	0.160	2.859	ug/L
|	Ni	60	14295.026	0.03	7.8608	0.298	3.789	ug/L
|	Cu	65	12916.133	0.03	6.8194	0.125	1.831	ug/L
|	Zn	66	18245.480	0.04	15.8179	0.237	1.498	ug/L
|>	Ge	72	443925.195	443925.19				ug/L
|	As	75	5146.859	0.01	6.1792	0.207	3.356	ug/L
|	Se	77	408.008	0.00	5.5824	0.718	12.864	ug/L
|	Se	82	651.013	0.00	8.3453	0.423	5.066	ug/L
⌊	Rb	85	3200.211	0.01				mg/L
	Y	89	258675.638	-32021.55				ug/L
	Rh	103	251.672	243.34				ug/L
⌈	Mo	98	470.513	0.00	0.2678	0.007	2.716	ug/L
|	Ag	107	17956.954	0.05	4.8628	0.020	0.410	ug/L
|	Cd	114	4745.132	0.01	5.3953	0.185	3.424	ug/L
|>	In	115	331630.255	331630.25				ug/L
|	Sn	118	94.134	0.00	0.0053	0.001	24.710	ug/L
⌊	Sb	123	16999.400	0.05	5.6007	0.136	2.425	ug/L
⌈	Ba	135	8496.027	0.02	6.6074	0.105	1.583	ug/L
|	Ce	140	210.023	0.00				ug/L
⌊>	Tb	159	479999.511	479999.51				ug/L
⌈	Ho	165	46.671	0.00				ug/L
|	Tl	203	32676.972	0.07	5.4934	0.174	3.176	ug/L
|	Tl	205	81626.792	0.18	5.6331	0.199	3.534	ug/L
|	Pb	206	28665.320	0.06	5.9140	0.202	3.419	ug/L
|	Pb	207	24963.037	0.05	5.4608	0.154	2.824	ug/L
|	Pb	208	115794.286	0.25	5.6926	0.110	1.937	ug/L
|	U	238	412804.532	0.89	11.0287	0.229	2.073	ug/L
⌊>	Bi	209	466138.730	466138.73				ug/L

Sample ID: L1102060906SD WG357433-06
Report Date/Time: Friday, February 25, 2011 13:14:10
Page 1

Approved: February 28, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	169746474.261	571.23	53.3523	2.285	4.283	mg/L
|	K	39	12893937.021	41.49	1.5554	0.046	2.941	mg/L
|	Ca	43	600337.624	2.02	34.4904	1.161	3.365	mg/L
|	Fe	54	51344.201	0.03	0.0180	0.003	15.693	mg/L
|	Fe	57	35867.857	0.10	0.1272	0.010	7.906	mg/L
⌊>	Sc-1	45	297392.853	297392.85				mg/L
	Cl	35	815184.946	795400.06				mg/L
	Kr	83	40.334	4.33				mg/L
	Br	81	124573.135	117412.57				mg/L
	P	31	10776.488	653.35				mg/L
	S	34	4947671.191	4745904.69				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.472			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.511			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.869			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		90.942			
⌈	Na	23					

Sample ID: L1102060906SD WG357433-06
Report Date/Time: Friday, February 25, 2011 13:14:10

Approved: February 28, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102060906SD WG357433-06
Report Date/Time: Friday, February 25, 2011 13:14:10
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102060908

Sample Date/Time: Friday, February 25, 2011 13:18:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 71
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21673.642	0.02				ug/L
|	Be	9	5.333	0.00	0.0581	0.016	27.278	ug/L
|	Al	27	250009.303	0.90	48.4049	9.696	20.031	ug/L
⌊>	Sc	45	277480.717	277480.72				ug/L
⌈	Ti	49	910.133	0.00	1.6310	0.194	11.908	ug/L
|	V	51	19508.582	0.04	2.0432	0.049	2.415	ug/L
|	Cr	52	13810.668	0.01	0.8878	0.005	0.581	ug/L
|	Cr	53	1150.182	0.00	0.7745	0.170	21.902	ug/L
|	Mn	55	84393.924	0.19	7.7552	0.199	2.570	ug/L
|	Co	59	2050.231	0.00	0.2080	0.003	1.584	ug/L
|	Ni	60	1629.483	0.00	0.8462	0.044	5.223	ug/L
|	Cu	65	1421.782	0.00	0.7016	0.016	2.245	ug/L
|	Zn	66	2349.966	0.00	1.5682	0.023	1.480	ug/L
|>	Ge	72	442893.273	442893.27				ug/L
|	As	75	4286.531	0.01	5.1848	0.066	1.271	ug/L
|	Se	77	70.667	0.00	0.0416	0.165	397.744	ug/L
|	Se	82	44.992	0.00	0.4692	0.045	9.559	ug/L
⌊	Rb	85	3067.501	0.01				mg/L
	Y	89	260816.992	-29880.20				ug/L
	Rh	103	31.000	22.67				ug/L
⌈	Mo	98	4195.562	0.01	2.2322	0.097	4.364	ug/L
|	Ag	107	15.333	0.00	-0.0147	0.001	6.940	ug/L
|	Cd	114	25.958	0.00	0.0471	0.010	21.290	ug/L
|>	In	115	346179.819	346179.82				ug/L
|	Sn	118	352.140	0.00	0.0845	0.004	4.902	ug/L
⌊	Sb	123	444.884	0.00	0.1304	0.010	7.781	ug/L
⌈	Ba	135	15491.147	0.03	11.8093	0.292	2.470	ug/L
|	Ce	140	1586.952	0.00				ug/L
⌊>	Tb	159	489525.530	489525.53				ug/L
⌈	Ho	165	50.005	0.00				ug/L
|	Tl	203	736.701	0.00	0.1127	0.012	10.927	ug/L
|	Tl	205	1696.981	0.00	0.0996	0.011	10.950	ug/L
|	Pb	206	838.377	0.00	0.0618	0.005	8.115	ug/L
|	Pb	207	699.031	0.00	0.0539	0.010	17.795	ug/L
|	Pb	208	3268.242	0.00	0.0639	0.006	8.955	ug/L
|	U	238	5394.846	0.01	0.1347	0.008	5.724	ug/L
⌊>	Bi	209	483453.726	483453.73				ug/L

Sample ID: L1102060908
Report Date/Time: Friday, February 25, 2011 13:20:56
Page 1

Approved: February 28, 2011

Erin D. Long

⌈	Na	23	20397752.593	73.18	4.2635	0.125	2.932	mg/L
|	Mg	24	3439236.632	12.40	1.1556	0.070	6.024	mg/L
|	K	39	3381987.868	10.30	0.3893	0.012	3.194	mg/L
|	Ca	43	87237.711	0.31	5.3614	0.158	2.951	mg/L
|	Fe	54	83650.346	0.16	0.0863	0.005	6.205	mg/L
|	Fe	57	24809.895	0.07	0.0869	0.002	1.783	mg/L
⌊>	Sc-1	45	277480.717	277480.72				mg/L
	Cl	35	129431.109	109646.22				mg/L
	Kr	83	39.334	3.33				mg/L
	Br	81	20348.018	13187.45				mg/L
	P	31	13559.867	3436.73				mg/L
	S	34	325023.688	123257.18				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.250			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.569			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.771			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.320			
⌈	Na	23					

Sample ID: L1102060908
Report Date/Time: Friday, February 25, 2011 13:20:56
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102060908
Report Date/Time: Friday, February 25, 2011 13:20:56
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 25, 2011 13:25:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19302.219	0.01				ug/L
|	Be	9	12475.115	0.05	49.3849	2.464	4.990	ug/L
|	Al	27	252874.765	0.92	49.8777	0.928	1.861	ug/L
⌊>	Sc	45	272120.561	272120.56				ug/L
⌈	Ti	49	51400.285	0.12	99.6679	2.303	2.310	ug/L
|	V	51	407819.390	0.94	49.4076	0.519	1.050	ug/L
|	Cr	52	343213.443	0.78	49.5948	0.917	1.849	ug/L
|	Cr	53	40238.252	0.09	49.3344	2.110	4.277	ug/L
|	Mn	55	517750.011	1.20	49.4482	0.413	0.835	ug/L
|	Co	59	416065.601	0.96	49.0629	0.484	0.986	ug/L
|	Ni	60	86680.986	0.20	49.2698	0.579	1.176	ug/L
|	Cu	65	88809.557	0.21	48.5194	0.640	1.320	ug/L
|	Zn	66	54173.558	0.12	49.3674	0.393	0.797	ug/L
|>	Ge	72	432062.184	432062.18				ug/L
|	As	75	40516.282	0.09	48.8859	0.053	0.109	ug/L
|	Se	77	2968.441	0.01	48.9930	1.764	3.601	ug/L
|	Se	82	3697.401	0.01	49.2675	0.331	0.672	ug/L
⌊	Rb	85	1519.131	0.00				mg/L
	Y	89	252465.578	-38231.61				ug/L
	Rh	103	18.000	9.67				ug/L
⌈	Mo	98	181448.000	0.55	100.3008	1.989	1.983	ug/L
|	Ag	107	182300.201	0.55	49.4870	0.618	1.248	ug/L
|	Cd	114	42845.941	0.13	48.5171	1.251	2.579	ug/L
|>	In	115	332013.697	332013.70				ug/L
|	Sn	118	152258.081	0.46	49.4856	0.248	0.501	ug/L
⌊	Sb	123	152198.037	0.46	50.1752	0.790	1.575	ug/L
⌈	Ba	135	61874.119	0.13	49.8649	0.753	1.511	ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	462868.905	462868.90				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	287520.142	0.62	48.6829	1.176	2.415	ug/L
|	Tl	205	714259.364	1.54	49.7022	1.178	2.371	ug/L
|	Pb	206	232831.938	0.50	49.1046	1.481	3.017	ug/L
|	Pb	207	222603.342	0.48	49.7542	0.835	1.677	ug/L
|	Pb	208	994769.075	2.14	49.9248	1.287	2.578	ug/L
|	U	238	1862919.849	4.02	50.0853	1.083	2.162	ug/L
⌊>	Bi	209	463290.825	463290.82				ug/L

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 13:27:43
Page 1

Approved: February 28, 2011

Na	23	23219998.031	84.97	4.9503	0.043	0.864	mg/L
Mg	24	14924894.839	54.85	5.1211	0.155	3.024	mg/L
K	39	35414510.434	128.30	4.8010	0.103	2.140	mg/L
Ca	43	78172.232	0.29	4.8978	0.049	0.999	mg/L
Fe	54	2570661.480	9.31	4.9350	0.165	3.351	mg/L
Fe	57	1051963.599	3.84	4.9482	0.147	2.969	mg/L
> Sc-1	45	272120.561	272120.56				mg/L
Cl	35	16356.700	-3428.19				mg/L
Kr	83	38.334	2.33				mg/L
Br	81	11141.537	3980.97				mg/L
P	31	8136.643	-1986.49				mg/L
S	34	179062.979	-22703.53				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	98.815				
Cr	52	99.190				
Cr	53					
Mn	55	98.896				
Co	59	98.126				
Ni	60	98.540				
Cu	65	97.039				
Zn	66	98.735				
> Ge	72		92.921			
As	75	97.772				
Se	77					
Se	82	98.535				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.974				
Cd	114	97.034				
> In	115		92.618			
Sn	118					
Sb	123	100.350				
Ba	135	99.730				
Ce	140					
> Tb	159		92.447			
Ho	165					
Tl	203	97.366				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.850				
U	238	100.171				
> Bi	209		90.387			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 13:27:43

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 13:27:43

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 25, 2011 13:32:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

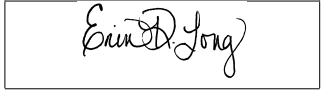
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20872.000	0.01				ug/L
|	Be	9	1.333	-0.00	0.0428	0.005	10.783	ug/L
|	Al	27	1283.417	-0.00	-0.1101	0.044	39.655	ug/L
⌊>	Sc	45	275087.412	275087.41				ug/L
⌈	Ti	49	66.674	0.00	0.0349	0.043	123.343	ug/L
|	V	51	2261.707	-0.00	-0.0034	0.016	484.443	ug/L
|	Cr	52	7559.265	-0.00	0.0002	0.027	14172.578	ug/L
|	Cr	53	310.036	-0.00	-0.2386	0.020	8.224	ug/L
|	Mn	55	336.342	-0.00	-0.0969	0.001	1.490	ug/L
|	Co	59	92.335	0.00	-0.0172	0.001	4.138	ug/L
|	Ni	60	43.667	-0.00	-0.0340	0.003	9.997	ug/L
|	Cu	65	213.671	0.00	0.0583	0.010	17.855	ug/L
|	Zn	66	540.687	0.00	-0.0522	0.020	37.340	ug/L
| >	Ge	72	437642.909	437642.91				ug/L
|	As	75	-114.711	-0.00	0.0192	0.047	246.568	ug/L
|	Se	77	52.000	-0.00	-0.2559	0.151	58.984	ug/L
|	Se	82	4.641	-0.00	-0.0549	0.122	222.504	ug/L
⌊	Rb	85	12.333	-0.00				mg/L
	Y	89	262812.276	-27884.91				ug/L
	Rh	103	5.333	-3.00				ug/L
⌈	Mo	98	66.087	0.00	0.0425	0.005	11.291	ug/L
|	Ag	107	20.334	0.00	-0.0134	0.001	4.543	ug/L
|	Cd	114	3.042	0.00	0.0222	0.001	5.241	ug/L
| >	In	115	346665.665	346665.66				ug/L
|	Sn	118	188.935	0.00	0.0335	0.008	23.406	ug/L
⌊	Sb	123	44.872	0.00	0.0039	0.003	70.642	ug/L
⌈	Ba	135	7.667	-0.00	0.0115	0.001	10.356	ug/L
|	Ce	140	13.335	0.00				ug/L
⌊>	Tb	159	479940.766	479940.77				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	29.667	0.00	-0.0022	0.002	78.314	ug/L
|	Tl	205	80.008	0.00	-0.0082	0.003	32.716	ug/L
|	Pb	206	369.011	0.00	-0.0332	0.003	9.028	ug/L
|	Pb	207	318.342	0.00	-0.0278	0.003	9.560	ug/L
|	Pb	208	1456.389	0.00	-0.0234	0.002	7.353	ug/L
|	U	238	97.001	0.00	-0.0018	0.000	6.961	ug/L
⌊>	Bi	209	482934.555	482934.55				ug/L

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 13:34:58
Page 1

Approved: February 28, 2011



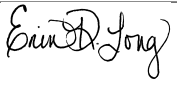
⌈	Na	23	66305.746	-0.11	-0.0021	0.001	42.793	mg/L
|	Mg	24	806.780	0.00	-0.0023	0.000	0.628	mg/L
|	K	39	557305.230	0.14	0.0094	0.004	44.180	mg/L
|	Ca	43	183.353	0.00	0.0024	0.001	32.567	mg/L
|	Fe	54	37300.657	-0.01	-0.0016	0.001	78.993	mg/L
|	Fe	57	6526.116	0.00	0.0024	0.002	72.458	mg/L
⌊>	Sc-1	45	275087.412	275087.41				mg/L
	Cl	35	16334.666	-3450.22				mg/L
	Kr	83	41.334	5.33				mg/L
	Br	81	9941.610	2781.05				mg/L
	P	31	8956.716	-1166.42				mg/L
	S	34	199565.029	-2201.48				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.121			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.705			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.857			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.219			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 13:34:58

Approved: February 28, 2011



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 13:34:58

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QCMRL WG 357403-03

Sample Date/Time: Friday, February 25, 2011 13:46:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 53
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21022.284	0.01				ug/L
|	Be	9	2.667	-0.00	0.0471	0.011	23.247	ug/L
|	Al	27	2183.572	0.00	0.0390	0.039	99.953	ug/L
|>	Sc	45	294594.932	294594.93				ug/L
⌈	Ti	49	50.005	-0.00	-0.0001	0.032	28054.791	ug/L
|	V	51	4186.486	0.00	0.2108	0.014	6.776	ug/L
|	Cr	52	10924.743	0.01	0.4359	0.039	8.985	ug/L
|	Cr	53	696.761	0.00	0.2062	0.031	15.195	ug/L
|	Mn	55	3347.927	0.01	0.1769	0.006	3.523	ug/L
|	Co	59	2003.221	0.00	0.1973	0.008	3.885	ug/L
|	Ni	60	1733.834	0.00	0.8821	0.013	1.433	ug/L
|	Cu	65	980.058	0.00	0.4539	0.006	1.399	ug/L
|	Zn	66	5352.819	0.01	4.1574	0.042	1.000	ug/L
|>	Ge	72	453256.809	453256.81				ug/L
|	As	75	45.464	0.00	0.2072	0.019	9.389	ug/L
|	Se	77	72.667	0.00	0.0478	0.328	686.338	ug/L
|	Se	82	16.316	0.00	0.0906	0.052	57.089	ug/L
⌊	Rb	85	17.667	0.00				mg/L
	Y	89	267795.374	-22901.82				ug/L
	Rh	103	4.333	-4.00				ug/L
⌈	Mo	98	30.233	0.00	0.0232	0.002	10.473	ug/L
|	Ag	107	811.041	0.00	0.1881	0.011	5.665	ug/L
|	Cd	114	104.197	0.00	0.1298	0.014	11.028	ug/L
|>	In	115	353791.401	353791.40				ug/L
|	Sn	118	92.934	0.00	0.0031	0.002	73.687	ug/L
⌊	Sb	123	674.316	0.00	0.1985	0.016	7.986	ug/L
⌈	Ba	135	553.354	0.00	0.4332	0.033	7.663	ug/L
|	Ce	140	6.667	-0.00				ug/L
|>	Tb	159	483142.427	483142.43				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	300.674	0.00	0.0392	0.003	8.597	ug/L
|	Tl	205	670.090	0.00	0.0288	0.007	22.579	ug/L
|	Pb	206	1475.457	0.00	0.1752	0.009	5.124	ug/L
|	Pb	207	1351.772	0.00	0.1787	0.007	3.842	ug/L
|	Pb	208	6095.795	0.01	0.1847	0.003	1.473	ug/L
|	U	238	8675.182	0.02	0.2076	0.004	1.838	ug/L
|>	Bi	209	510013.322	510013.32				ug/L

Sample ID: QCMRL WG 357403-03
Report Date/Time: Friday, February 25, 2011 13:48:15
Page 1

Approved: February 28, 2011

⌈	Na	23	79321.254	-0.08	-0.0005	0.000	87.305	mg/L
|	Mg	24	1093.503	0.00	-0.0022	0.000	1.909	mg/L
|	K	39	554722.440	-0.00	0.0039	0.002	63.648	mg/L
|	Ca	43	256.696	0.00	0.0059	0.003	45.026	mg/L
|	Fe	54	39441.333	-0.01	-0.0026	0.003	116.340	mg/L
|	Fe	57	6813.003	0.00	0.0016	0.001	41.488	mg/L
⌊>	Sc-1	45	294594.932	294594.93				mg/L
	Cl	35	16393.430	-3391.46				mg/L
	Kr	83	40.334	4.33				mg/L
	Br	81	8707.791	1547.23				mg/L
	P	31	9445.807	-677.33				mg/L
	S	34	196515.574	-5250.93				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.479			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.693			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.497			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.502			
⌈	Na	23					

Sample ID: QCMRL WG 357403-03
Report Date/Time: Friday, February 25, 2011 13:48:15
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QCMRL WG 357403-03
Report Date/Time: Friday, February 25, 2011 13:48:15
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: ~~L1102057401~~ L1102057101

Sample Date/Time: Friday, February 25, 2011 13:52:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20938.707	0.01				ug/L
|	Be	9	3.333	0.00	0.0496	0.011	22.314	ug/L
|	Al	27	389422.557	1.32	71.0760	1.424	2.003	ug/L
⌊>	Sc	45	294696.541	294696.54				ug/L
⌈	Ti	49	1203.527	0.00	2.1913	0.300	13.669	ug/L
|	V	51	3740.623	0.00	0.1705	0.018	10.558	ug/L
|	Cr	52	10897.045	0.01	0.4728	0.043	9.030	ug/L
|	Cr	53	660.088	0.00	0.1827	0.112	61.392	ug/L
|	Mn	55	8556.746	0.02	0.6730	0.008	1.173	ug/L
|	Co	59	289.007	0.00	0.0054	0.001	27.841	ug/L
|	Ni	60	6545.874	0.01	3.5867	0.031	0.874	ug/L
|	Cu	65	460.349	0.00	0.1892	0.016	8.372	ug/L
|	Zn	66	2367.971	0.00	1.5910	0.028	1.768	ug/L
|>	Ge	72	441557.418	441557.42				ug/L
|	As	75	-90.473	0.00	0.0488	0.019	38.019	ug/L
|	Se	77	68.667	0.00	0.0106	0.171	1614.506	ug/L
|	Se	82	11.687	-0.00	0.0361	0.137	379.234	ug/L
⌊	Rb	85	510.685	0.00				mg/L
	Y	89	267247.436	-23449.75				ug/L
	Rh	103	6.667	-1.67				ug/L
⌈	Mo	98	227.050	0.00	0.1238	0.005	3.956	ug/L
|	Ag	107	23.667	0.00	-0.0127	0.003	19.955	ug/L
|	Cd	114	0.496	-0.00	0.0194	0.007	33.446	ug/L
|>	In	115	358132.317	358132.32				ug/L
|	Sn	118	155.601	0.00	0.0216	0.004	20.715	ug/L
⌊	Sb	123	69.246	0.00	0.0109	0.003	29.785	ug/L
⌈	Ba	135	387.011	0.00	0.2967	0.017	5.703	ug/L
|	Ce	140	703.429	0.00				ug/L
⌊>	Tb	159	495801.887	495801.89				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	22.667	0.00	-0.0036	0.000	13.910	ug/L
|	Tl	205	76.675	0.00	-0.0087	0.002	22.685	ug/L
|	Pb	206	619.025	0.00	0.0109	0.006	54.503	ug/L
|	Pb	207	536.353	0.00	0.0130	0.008	59.957	ug/L
|	Pb	208	2499.482	0.00	0.0206	0.003	15.992	ug/L
|	U	238	148.003	0.00	-0.0007	0.000	5.665	ug/L
⌊>	Bi	209	509370.112	509370.11				ug/L

Sample ID: ~~L1102057401~~ L110205710
Report Date/Time: Friday, February 25, 2011 13:55:00
Page 1

Approved: February 28, 2011

Na	23	262027.844	0.54	0.0356	0.001	2.554	mg/L
Mg	24	157679.985	0.53	0.0474	0.001	2.104	mg/L
K	39	815157.010	0.88	0.0369	0.003	7.376	mg/L
Ca	43	2070.422	0.01	0.1111	0.005	4.092	mg/L
Fe	54	129232.642	0.30	0.1589	0.008	4.796	mg/L
Fe	57	25745.723	0.07	0.0842	0.005	5.708	mg/L
> Sc-1	45	294696.541	294696.54				mg/L
Cl	35	62257.220	42472.33				mg/L
Kr	83	36.000	0.00				mg/L
Br	81	9609.953	2449.39				mg/L
P	31	21441.698	11318.56				mg/L
S	34	218347.161	16580.66				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		94.963			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		99.904			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		99.025			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		99.377			
Na	23					

Sample ID: ~~L1102057401~~ L1102057101
Report Date/Time: Friday, February 25, 2011 13:55:00

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ~~L1102057401~~ L1102057101
Report Date/Time: Friday, February 25, 2011 13:55:00

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: ~~L1102057101~~ L1102057102

Sample Date/Time: Friday, February 25, 2011 13:59:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21489.746	0.01				ug/L
|	Be	9	4.667	0.00	0.0554	0.009	15.944	ug/L
|	Al	27	6885.722	0.02	0.9685	0.133	13.684	ug/L
⌊>	Sc	45	279519.923	279519.92				ug/L
⌈	Ti	49	90.009	0.00	0.0803	0.038	47.902	ug/L
|	V	51	2251.479	-0.00	-0.0041	0.007	174.504	ug/L
|	Cr	52	8918.065	0.00	0.2007	0.022	10.984	ug/L
|	Cr	53	393.380	-0.00	-0.1354	0.015	10.905	ug/L
|	Mn	55	1461.121	0.00	0.0097	0.004	36.574	ug/L
|	Co	59	118.669	0.00	-0.0142	0.002	11.806	ug/L
|	Ni	60	125.335	0.00	0.0120	0.002	18.197	ug/L
|	Cu	65	284.340	0.00	0.0967	0.006	6.158	ug/L
|	Zn	66	1921.538	0.00	1.2073	0.137	11.366	ug/L
|>	Ge	72	436798.366	436798.37				ug/L
|	As	75	-91.760	0.00	0.0460	0.020	42.495	ug/L
|	Se	77	56.000	-0.00	-0.1873	0.220	117.339	ug/L
|	Se	82	12.006	-0.00	0.0417	0.096	230.090	ug/L
⌊	Rb	85	28.000	0.00				mg/L
	Y	89	262770.302	-27926.89				ug/L
	Rh	103	3.667	-4.67				ug/L
⌈	Mo	98	24.566	0.00	0.0207	0.006	28.494	ug/L
|	Ag	107	12.667	0.00	-0.0153	0.001	5.021	ug/L
|	Cd	114	2.441	0.00	0.0216	0.001	3.639	ug/L
|>	In	115	341320.050	341320.05				ug/L
|	Sn	118	165.335	0.00	0.0270	0.002	8.271	ug/L
⌊	Sb	123	38.662	-0.00	0.0021	0.002	111.521	ug/L
⌈	Ba	135	51.667	0.00	0.0452	0.003	7.435	ug/L
|	Ce	140	36.670	0.00				ug/L
⌊>	Tb	159	485159.295	485159.30				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	15.334	-0.00	-0.0046	0.001	28.722	ug/L
|	Tl	205	40.004	0.00	-0.0109	0.001	5.963	ug/L
|	Pb	206	422.680	0.00	-0.0230	0.005	21.994	ug/L
|	Pb	207	372.344	0.00	-0.0168	0.001	5.226	ug/L
|	Pb	208	1682.072	0.00	-0.0131	0.002	11.922	ug/L
|	U	238	20.667	0.00	-0.0038	0.000	0.681	ug/L
⌊>	Bi	209	486328.069	486328.07				ug/L

Sample ID: ~~L1102057101~~ L1102057102
Report Date/Time: Friday, February 25, 2011 14:01:45
Page 1

Approved: February 28, 2011

Na	23	85983.335	-0.04	0.0018	0.000	16.977	mg/L
Mg	24	6876.387	0.02	-0.0003	0.000	45.891	mg/L
K	39	550711.428	0.08	0.0072	0.001	16.476	mg/L
Ca	43	523.399	0.00	0.0231	0.004	15.374	mg/L
Fe	54	81056.173	0.15	0.0802	0.008	10.520	mg/L
Fe	57	6632.864	0.00	0.0024	0.002	69.680	mg/L
> Sc-1	45	279519.923	279519.92				mg/L
Cl	35	24677.750	4892.86				mg/L
Kr	83	37.667	1.67				mg/L
Br	81	8135.311	974.75				mg/L
P	31	18846.510	8723.37				mg/L
S	34	203091.238	1324.73				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		93.940			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		95.214			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		96.899			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		94.881			
Na	23					

Sample ID: ~~L1102057101~~ L1102057102
Report Date/Time: Friday, February 25, 2011 14:01:45

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ~~L1102057101~~ L1102057102
Report Date/Time: Friday, February 25, 2011 14:01:45

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: ~~L1102057102~~ L1102057401

Sample Date/Time: Friday, February 25, 2011 14:06:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25315.381	0.01				ug/L
|	Be	9	32.000	0.00	0.1413	0.048	34.145	ug/L
|	Al	27	33676331.068	101.29	5475.2025	206.371	3.769	ug/L
⌊>	Sc	45	332680.207	332680.21				ug/L
⌈	Ti	49	89847.621	0.21	172.8982	4.197	2.428	ug/L
|	V	51	115537.291	0.26	13.6882	0.245	1.788	ug/L
|	Cr	52	61247.704	0.12	7.8727	0.261	3.318	ug/L
|	Cr	53	7440.292	0.02	8.5585	2.380	27.814	ug/L
|	Mn	55	1120340.422	2.57	106.2985	1.590	1.496	ug/L
|	Co	59	13751.921	0.03	1.5817	0.023	1.430	ug/L
|	Ni	60	11528.759	0.03	6.4499	0.135	2.090	ug/L
|	Cu	65	10600.056	0.02	5.6952	0.166	2.908	ug/L
|	Zn	66	108258.932	0.25	98.3997	0.413	0.419	ug/L
|>	Ge	72	435558.471	435558.47				ug/L
|	As	75	452.883	0.00	0.6952	0.042	6.090	ug/L
|	Se	77	76.667	0.00	0.1615	0.357	220.969	ug/L
|	Se	82	34.931	0.00	0.3455	0.069	20.104	ug/L
⌊	Rb	85	35309.253	0.08				mg/L
	Y	89	264245.386	-26451.80				ug/L
	Rh	103	20.000	11.67				ug/L
⌈	Mo	98	969.623	0.00	0.5247	0.017	3.318	ug/L
|	Ag	107	88.668	0.00	0.0046	0.002	47.233	ug/L
|	Cd	114	708.980	0.00	0.7931	0.023	2.852	ug/L
|>	In	115	344020.827	344020.83				ug/L
|	Sn	118	1018.319	0.00	0.2942	0.002	0.613	ug/L
⌊	Sb	123	11543.062	0.03	3.6628	0.062	1.686	ug/L
⌈	Ba	135	30437.892	0.06	23.0893	0.436	1.887	ug/L
|	Ce	140	181888.133	0.37				ug/L
⌊>	Tb	159	491886.001	491886.00				ug/L
⌈	Ho	165	1313.551	0.00				ug/L
|	Tl	203	305.008	0.00	0.0428	0.005	11.148	ug/L
|	Tl	205	750.103	0.00	0.0369	0.002	5.784	ug/L
|	Pb	206	31981.713	0.07	6.4194	0.087	1.360	ug/L
|	Pb	207	27422.823	0.06	5.8351	0.101	1.730	ug/L
|	Pb	208	127578.199	0.26	6.1004	0.040	0.651	ug/L
|	U	238	7298.402	0.02	0.1853	0.006	2.985	ug/L
⌊>	Bi	209	479681.987	479681.99				ug/L

Sample ID: ~~L1102057102~~ L1102057401
Report Date/Time: Friday, February 25, 2011 14:08:30
Page 1

Approved: February 28, 2011

Na	23	83927595.033	252.03	14.6742	0.402	2.738	mg/L
Mg	24	13673663.127	41.11	3.8374	0.059	1.536	mg/L
K	39	37914297.088	112.13	4.1964	0.121	2.876	mg/L
Ca	43	118290.927	0.36	6.0666	0.182	2.998	mg/L
Fe	54	2764807.363	8.17	4.3325	0.084	1.935	mg/L
Fe	57	1123731.334	3.36	4.3194	0.118	2.732	mg/L
> Sc-1	45	332680.207	332680.21				mg/L
Cl	35	295012.087	275227.20				mg/L
Kr	83	46.334	10.33				mg/L
Br	81	19788.242	12627.68				mg/L
P	31	960664.432	950541.29				mg/L
S	34	492390.337	290623.83				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		93.673			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		95.967			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		98.243			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		93.584			
Na	23					

Sample ID: ~~L1102057102~~ L1102057401
Report Date/Time: Friday, February 25, 2011 14:08:30

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: ~~L1102057102~~ L1102057401
Report Date/Time: Friday, February 25, 2011 14:08:30

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102057901

Sample Date/Time: Friday, February 25, 2011 14:13:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23895.236	0.02				ug/L
|	Be	9	4.667	0.00	0.0549	0.009	16.094	ug/L
|	Al	27	27003.124	0.09	4.6634	0.213	4.566	ug/L
⌊>	Sc	45	290476.664	290476.66				ug/L
⌈	Ti	49	193.355	0.00	0.2655	0.060	22.763	ug/L
|	V	51	2023.285	-0.00	-0.0404	0.009	21.064	ug/L
|	Cr	52	9101.899	0.00	0.1796	0.019	10.780	ug/L
|	Cr	53	1523.602	0.00	1.1854	0.064	5.414	ug/L
|	Mn	55	11341.544	0.02	0.9069	0.028	3.039	ug/L
|	Co	59	240.672	0.00	-0.0009	0.001	62.632	ug/L
|	Ni	60	517.685	0.00	0.2223	0.014	6.262	ug/L
|	Cu	65	367.344	0.00	0.1345	0.006	4.095	ug/L
|	Zn	66	2337.297	0.00	1.5096	0.071	4.720	ug/L
| >	Ge	72	453122.484	453122.48				ug/L
|	As	75	298.668	0.00	0.4977	0.024	4.722	ug/L
|	Se	77	118.001	0.00	0.7762	0.281	36.182	ug/L
|	Se	82	139.710	0.00	1.6626	0.169	10.167	ug/L
⌊	Rb	85	1335.103	0.00				mg/L
	Y	89	267081.065	-23616.12				ug/L
	Rh	103	25.667	17.33				ug/L
⌈	Mo	98	110.865	0.00	0.0661	0.003	3.988	ug/L
|	Ag	107	14.333	0.00	-0.0149	0.001	8.177	ug/L
|	Cd	114	1.674	0.00	0.0207	0.006	28.994	ug/L
| >	In	115	347234.442	347234.44				ug/L
|	Sn	118	100.667	0.00	0.0060	0.000	7.490	ug/L
⌊	Sb	123	73.996	0.00	0.0130	0.002	14.078	ug/L
⌈	Ba	135	11580.491	0.02	8.8290	0.090	1.018	ug/L
|	Ce	140	223.358	0.00				ug/L
⌊>	Tb	159	489402.198	489402.20				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	120.002	0.00	0.0127	0.004	30.232	ug/L
|	Tl	205	303.368	0.00	0.0069	0.003	37.847	ug/L
|	Pb	206	381.344	0.00	-0.0297	0.006	19.144	ug/L
|	Pb	207	353.010	0.00	-0.0194	0.005	26.655	ug/L
|	Pb	208	1623.069	0.00	-0.0144	0.003	20.444	ug/L
|	U	238	159.670	0.00	-0.0001	0.000	225.602	ug/L
⌊>	Bi	209	476867.678	476867.68				ug/L

Sample ID: L1102057901
Report Date/Time: Friday, February 25, 2011 14:15:15
Page 1

Approved: February 28, 2011

⌈	Na	23	208534918.534	718.08	41.8019	1.993	4.769	mg/L
|	Mg	24	8973314.900	30.91	2.8848	0.121	4.210	mg/L
|	K	39	1960983.376	4.87	0.1860	0.005	2.590	mg/L
|	Ca	43	31873.921	0.11	1.8666	0.090	4.816	mg/L
|	Fe	54	62317.833	0.07	0.0402	0.003	8.010	mg/L
|	Fe	57	13363.602	0.02	0.0311	0.003	11.091	mg/L
⌊>	Sc-1	45	290476.664	290476.66				mg/L
	Cl	35	1101379.023	1081594.14				mg/L
	Kr	83	33.667	-2.33				mg/L
	Br	81	79119.893	71959.33				mg/L
	P	31	41563.805	31440.67				mg/L
	S	34	222358.402	20591.90				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.450			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.864			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.747			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.035			
⌈	Na	23					

Sample ID: L1102057901
Report Date/Time: Friday, February 25, 2011 14:15:15

Approved: February 28, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102057901
Report Date/Time: Friday, February 25, 2011 14:15:15
Page 3

Approved: February 28, 2011

Data not used - sequencing error.

Method 6020 - Summary Report

Sample ID: L1102057102

Sample Date/Time: Friday, February 25, 2011 14:21:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 72
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22325.104	0.02				ug/L
|	Be	9	1.333	-0.00	0.0427	0.005	10.642	ug/L
|	Al	27	6368.704	0.02	0.8669	0.060	6.879	ug/L
⌊>	Sc	45	279763.957	279763.96				ug/L
⌈	Ti	49	50.005	-0.00	0.0017	0.019	1111.408	ug/L
|	V	51	2103.678	-0.00	-0.0266	0.015	56.189	ug/L
|	Cr	52	7428.166	-0.00	-0.0372	0.023	62.736	ug/L
|	Cr	53	353.375	-0.00	-0.1929	0.101	52.369	ug/L
|	Mn	55	633.360	0.00	-0.0698	0.002	2.730	ug/L
|	Co	59	80.668	-0.00	-0.0188	0.001	6.188	ug/L
|	Ni	60	64.668	0.00	-0.0228	0.002	9.496	ug/L
|	Cu	65	178.337	0.00	0.0376	0.006	14.641	ug/L
|	Zn	66	1241.089	0.00	0.5661	0.019	3.405	ug/L
⌊>	Ge	72	445099.819	445099.82				ug/L
|	As	75	-128.019	-0.00	0.0057	0.014	250.167	ug/L
|	Se	77	49.333	-0.00	-0.3141	0.114	36.443	ug/L
|	Se	82	1.299	-0.00	-0.1002	0.084	83.455	ug/L
⌊	Rb	85	33.667	0.00				mg/L
	Y	89	260608.421	-30088.77				ug/L
	Rh	103	3.333	-5.00				ug/L
⌈	Mo	98	16.525	0.00	0.0163	0.002	12.406	ug/L
|	Ag	107	14.667	0.00	-0.0148	0.001	6.620	ug/L
|	Cd	114	3.556	0.00	0.0228	0.001	5.240	ug/L
⌊>	In	115	343230.517	343230.52				ug/L
|	Sn	118	75.467	0.00	-0.0016	0.002	122.551	ug/L
⌊	Sb	123	24.371	-0.00	-0.0025	0.001	34.375	ug/L
⌈	Ba	135	23.334	0.00	0.0237	0.004	15.954	ug/L
|	Ce	140	20.002	0.00				ug/L
⌊>	Tb	159	479390.314	479390.31				ug/L
⌈	Ho	165	16.668	0.00				ug/L
|	Tl	203	16.334	-0.00	-0.0043	0.000	7.763	ug/L
|	Tl	205	40.004	0.00	-0.0108	0.001	12.065	ug/L
|	Pb	206	384.011	0.00	-0.0276	0.003	11.867	ug/L
|	Pb	207	325.675	0.00	-0.0239	0.004	15.806	ug/L
|	Pb	208	1558.731	0.00	-0.0160	0.003	20.525	ug/L
|	U	238	9.000	-0.00	-0.0041	0.000	1.244	ug/L
⌊>	Bi	209	467555.588	467555.59				ug/L

Sample ID: L1102057102
Report Date/Time: Friday, February 25, 2011 14:23:40
Page 1

Approved: February 28, 2011

Erin D. Long

Data not used - sequencing error.

	Na	23	61716.033	-0.13	-0.0033	0.001	15.677	mg/L
	Mg	24	2370.520	0.01	-0.0018	0.000	5.674	mg/L
	K	39	542464.969	0.05	0.0061	0.002	40.976	mg/L
	Ca	43	293.367	0.00	0.0090	0.003	28.612	mg/L
	Fe	54	46158.891	0.02	0.0140	0.004	28.015	mg/L
	Fe	57	5608.800	-0.00	-0.0023	0.001	61.877	mg/L
>	Sc-1	45	279763.957	279763.96				mg/L
	Cl	35	17195.439	-2589.45				mg/L
	Kr	83	42.334	6.33				mg/L
	Br	81	9858.192	2697.63				mg/L
	P	31	10125.158	2.02				mg/L
	S	34	169051.303	-32715.20				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc	45					
	Ti	49					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		95.725			
	As	75					
	Se	77					
	Se	82					
	Rb	85					
	Y	89					
	Rh	103					
	Mo	98					
	Ag	107					
	Cd	114					
>	In	115		95.747			
	Sn	118					
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		95.747			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
	U	238					
>	Bi	209		91.219			
	Na	23					

Sample ID: L1102057102
Report Date/Time: Friday, February 25, 2011 14:23:40
Page 2

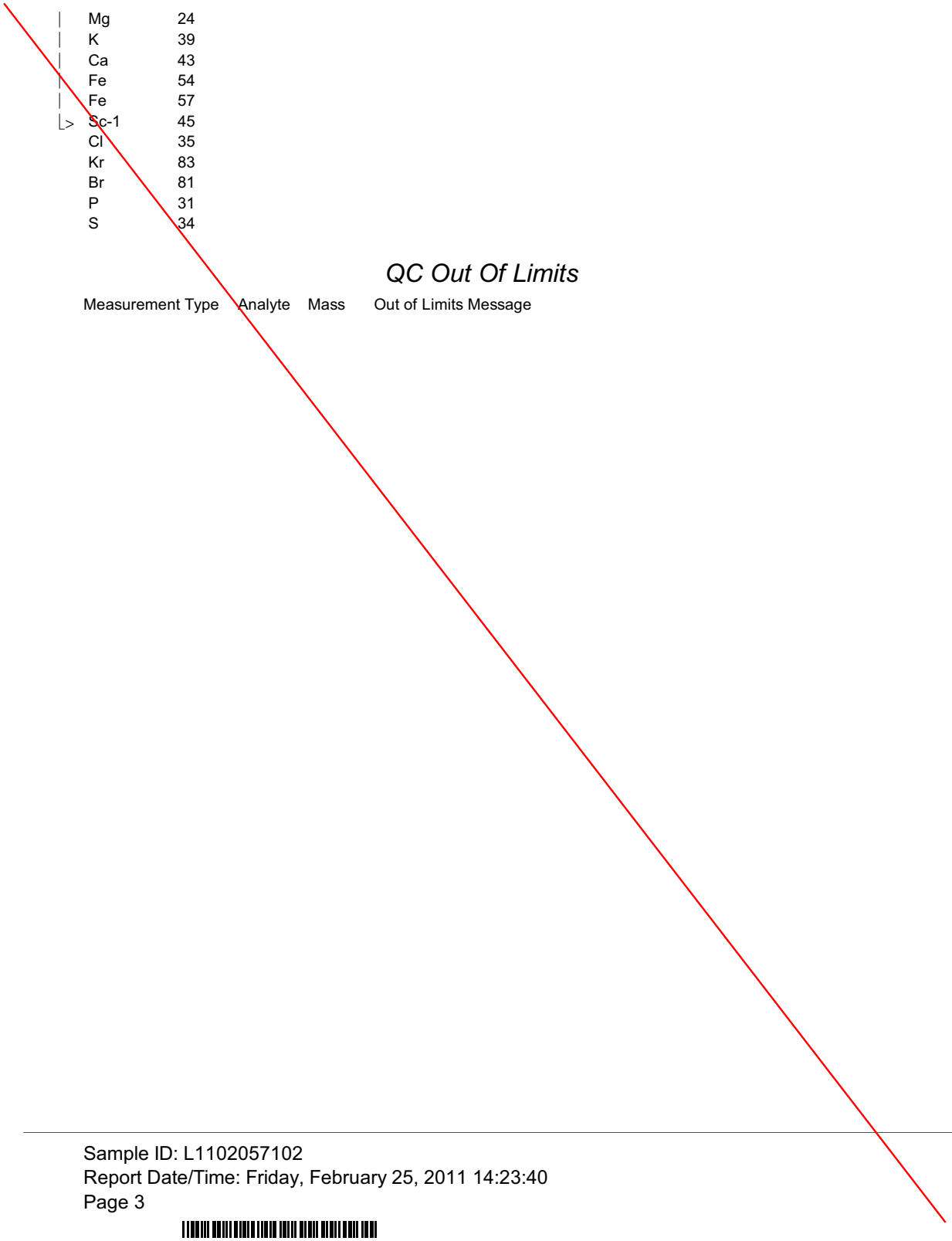
Approved: February 28, 2011

Data not used - sequencing error.

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message



Sample ID: L1102057102
Report Date/Time: Friday, February 25, 2011 14:23:40
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102060901PS WG357485-03

Sample Date/Time: Friday, February 25, 2011 14:28:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 73
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22842.768	0.03				ug/L
|	Be	9	12312.267	0.05	52.1623	3.655	7.007	ug/L
|	Al	27	254620.787	1.00	53.8068	1.996	3.710	ug/L
⌊>	Sc	45	254070.481	254070.48				ug/L
⌈	Ti	49	6682.901	0.02	13.9949	0.251	1.791	ug/L
|	V	51	397153.983	0.99	52.2706	2.726	5.215	ug/L
|	Cr	52	337714.677	0.83	53.0750	2.833	5.337	ug/L
|	Cr	53	39468.777	0.10	52.5966	4.788	9.103	ug/L
|	Mn	55	498865.733	1.25	51.7501	3.285	6.348	ug/L
|	Co	59	393510.887	0.99	50.3947	2.931	5.816	ug/L
|	Ni	60	84576.368	0.21	52.2132	3.361	6.437	ug/L
|	Cu	65	86454.586	0.22	51.2960	4.011	7.820	ug/L
|	Zn	66	58031.984	0.14	57.5196	3.768	6.550	ug/L
| >	Ge	72	397812.740	397812.74				ug/L
|	As	75	39295.844	0.10	51.4835	3.073	5.969	ug/L
|	Se	77	4539.700	0.01	82.1110	5.834	7.106	ug/L
|	Se	82	5672.625	0.01	82.1665	3.826	4.657	ug/L
⌊	Rb	85	3202.545	0.01				mg/L
	Y	89	226942.080	-63755.11				ug/L
	Rh	103	209.004	200.67				ug/L
⌈	Mo	98	388.025	0.00	0.2541	0.016	6.244	ug/L
|	Ag	107	139470.437	0.48	43.5198	2.836	6.516	ug/L
|	Cd	114	37131.492	0.13	48.3122	3.518	7.281	ug/L
| >	In	115	288960.231	288960.23				ug/L
|	Sn	118	249.603	0.00	0.0679	0.006	9.068	ug/L
⌊	Sb	123	138186.891	0.48	52.3585	3.364	6.424	ug/L
⌈	Ba	135	57789.911	0.14	52.2813	2.405	4.600	ug/L
|	Ce	140	173.352	0.00				ug/L
⌊>	Tb	159	412077.409	412077.41				ug/L
⌈	Ho	165	130.014	0.00				ug/L
|	Tl	203	256881.975	0.65	50.6291	2.694	5.322	ug/L
|	Tl	205	639053.997	1.61	51.7372	4.413	8.530	ug/L
|	Pb	206	219921.970	0.55	53.9891	3.028	5.608	ug/L
|	Pb	207	194633.395	0.49	50.6352	3.579	7.069	ug/L
|	Pb	208	903385.480	2.27	52.7732	3.130	5.931	ug/L
|	U	238	1982550.792	4.98	62.0470	3.239	5.220	ug/L
⌊>	Bi	209	397737.878	397737.88				ug/L

Sample ID: L1102060901PS WG357485-03
Report Date/Time: Friday, February 25, 2011 14:30:27
Page 1

Approved: February 28, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	215469155.909	848.06	79.2089	2.504	3.162	mg/L
|	K	39	10168024.049	38.13	1.4298	0.064	4.499	mg/L
|	Ca	43	480677.490	1.89	32.3037	1.314	4.066	mg/L
|	Fe	54	46211.748	0.04	0.0228	0.005	19.819	mg/L
|	Fe	57	28637.257	0.09	0.1169	0.010	8.721	mg/L
⌊>	Sc-1	45	254070.481	254070.48				mg/L
	Cl	35	654849.396	635064.51				mg/L
	Kr	83	46.334	10.33				mg/L
	Br	81	87392.896	80232.33				mg/L
	P	31	9802.804	-320.33				mg/L
	S	34	7753196.728	7551430.22				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.555			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		80.608			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		82.303			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		77.597			
⌈	Na	23					

Sample ID: L1102060901PS WG357485-03
Report Date/Time: Friday, February 25, 2011 14:30:27
Page 2

Approved: February 28, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102060901PS WG357485-03
Report Date/Time: Friday, February 25, 2011 14:30:27
Page 3

Approved: February 28, 2011

Data not used - sequencing error.

Method 6020 - Summary Report

Sample ID: ~~L1102060901SDL WG357485-04~~ L1102057102

Sample Date/Time: Friday, February 25, 2011 14:35:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 74
Method File: C:\elandata\Method\6020a.mth
Sample Description: ~~25~~ 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21038.823	0.01				ug/L
|	Be	9	3.333	0.00	0.0507	0.005	9.054	ug/L
|	Al	27	18550.564	0.06	3.3151	0.208	6.267	ug/L
⌊>	Sc	45	272650.441	272650.44				ug/L
⌈	Ti	49	146.682	0.00	0.1924	0.097	50.581	ug/L
|	V	51	2880.562	0.00	0.0759	0.007	9.813	ug/L
|	Cr	52	9591.027	0.00	0.3159	0.008	2.657	ug/L
|	Cr	53	406.716	-0.00	-0.1130	0.039	34.247	ug/L
|	Mn	55	1159.079	0.00	-0.0176	0.001	3.177	ug/L
|	Co	59	105.335	0.00	-0.0156	0.001	4.762	ug/L
|	Ni	60	96.335	0.00	-0.0037	0.003	76.811	ug/L
|	Cu	65	284.674	0.00	0.0988	0.007	7.583	ug/L
|	Zn	66	11371.578	0.03	9.9447	0.271	2.729	ug/L
|>	Ge	72	431594.527	431594.53				ug/L
|	As	75	-124.180	-0.00	0.0056	0.056	1004.047	ug/L
|	Se	77	54.000	-0.00	-0.2100	0.121	57.480	ug/L
|	Se	82	8.281	-0.00	-0.0064	0.125	1964.445	ug/L
⌊	Rb	85	60.667	0.00				mg/L
	Y	89	259586.492	-31110.70				ug/L
	Rh	103	6.000	-2.33				ug/L
⌈	Mo	98	22.790	0.00	0.0201	0.000	0.198	ug/L
|	Ag	107	83.001	0.00	0.0038	0.000	11.269	ug/L
|	Cd	114	-4.733	-0.00	0.0136	0.002	16.057	ug/L
|>	In	115	332454.906	332454.91				ug/L
|	Sn	118	86.000	0.00	0.0026	0.001	30.192	ug/L
⌊	Sb	123	333.088	0.00	0.0993	0.012	12.442	ug/L
⌈	Ba	135	33.667	0.00	0.0331	0.004	12.201	ug/L
|	Ce	140	56.673	0.00				ug/L
⌊>	Tb	159	455950.239	455950.24				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	27.334	0.00	-0.0026	0.001	46.120	ug/L
|	Tl	205	40.004	0.00	-0.0108	0.001	6.330	ug/L
|	Pb	206	396.345	0.00	-0.0263	0.005	20.222	ug/L
|	Pb	207	352.010	0.00	-0.0192	0.001	2.657	ug/L
|	Pb	208	1599.066	0.00	-0.0151	0.002	14.804	ug/L
|	U	238	186.337	0.00	0.0006	0.001	109.260	ug/L
⌊>	Bi	209	474375.587	474375.59				ug/L

Sample ID: ~~L1102060901SDL WG357485-04~~ L1102057102
Report Date/Time: Friday, February 25, 2011 14:37:14
Page 1

Approved: February 28, 2011

Na	23	417265.956	1.18	0.0729	0.005	6.302	mg/L
Mg	24	100860.539	0.37	0.0320	0.002	6.674	mg/L
K	39	585503.007	0.26	0.0138	0.002	14.969	mg/L
Ca	43	1346.895	0.00	0.0755	0.018	23.445	mg/L
Fe	54	45920.335	0.03	0.0157	0.002	10.946	mg/L
Fe	57	9231.857	0.01	0.0154	0.003	17.744	mg/L
Sc-1	45	272650.441	272650.44				mg/L
Cl	35	17977.483	-1807.41				mg/L
Kr	83	44.334	8.33				mg/L
Br	81	9649.989	2489.43				mg/L
P	31	9495.221	-627.92				mg/L
S	34	217038.587	15272.08				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		92.820			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		92.741			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		91.066			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		92.549			
Na	23					

Sample ID: ~~L1102060901SDL WG357485-04~~ L1102057102
Report Date/Time: Friday, February 25, 2011 14:37:14
Page 2

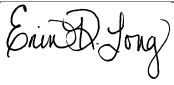
Approved: February 28, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 28, 2011



Data not used - sequencing error.

Method 6020 - Summary Report

Sample ID: L1102057102

Sample Date/Time: Friday, February 25, 2011 14:41:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 75
Method File: C:\elandata\Method\6020a.mth
Sample Description: 2

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19101.672	0.01				ug/L
|	Be	9	4.000	0.00	0.0531	0.001	1.017	ug/L
|	Al	27	18667.473	0.06	3.2898	0.232	7.059	ug/L
⌊>	Sc	45	276249.972	276249.97				ug/L
⌈	Ti	49	156.684	0.00	0.2169	0.070	32.388	ug/L
|	V	51	2577.847	0.00	0.0440	0.009	20.463	ug/L
|	Cr	52	9188.312	0.00	0.2781	0.021	7.432	ug/L
|	Cr	53	370.044	-0.00	-0.1515	0.064	42.352	ug/L
|	Mn	55	1620.147	0.00	0.0291	0.004	13.331	ug/L
|	Co	59	95.335	0.00	-0.0166	0.001	3.615	ug/L
|	Ni	60	121.669	0.00	0.0119	0.003	27.202	ug/L
|	Cu	65	275.673	0.00	0.0963	0.008	8.603	ug/L
|	Zn	66	2682.387	0.01	1.9699	0.036	1.838	ug/L
|>	Ge	72	424777.241	424777.24				ug/L
|	As	75	-99.277	0.00	0.0337	0.023	68.662	ug/L
|	Se	77	42.667	-0.00	-0.3903	0.151	38.736	ug/L
|	Se	82	3.681	-0.00	-0.0671	0.068	101.900	ug/L
⌊	Rb	85	34.667	0.00				mg/L
	Y	89	251867.921	-38829.27				ug/L
	Rh	103	6.000	-2.33				ug/L
⌈	Mo	98	36.608	0.00	0.0279	0.003	9.968	ug/L
|	Ag	107	18.667	0.00	-0.0135	0.001	8.083	ug/L
|	Cd	114	0.972	-0.00	0.0201	0.003	16.808	ug/L
|>	In	115	329690.347	329690.35				ug/L
|	Sn	118	100.667	0.00	0.0076	0.002	22.641	ug/L
⌊	Sb	123	159.914	0.00	0.0428	0.004	8.951	ug/L
⌈	Ba	135	33.667	0.00	0.0331	0.004	10.759	ug/L
|	Ce	140	40.004	0.00				ug/L
⌊>	Tb	159	453991.743	453991.74				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	18.000	-0.00	-0.0040	0.001	15.236	ug/L
|	Tl	205	43.338	0.00	-0.0106	0.001	13.312	ug/L
|	Pb	206	393.012	0.00	-0.0255	0.005	20.890	ug/L
|	Pb	207	339.009	0.00	-0.0207	0.010	47.783	ug/L
|	Pb	208	1603.734	0.00	-0.0135	0.005	36.419	ug/L
|	U	238	37.334	0.00	-0.0033	0.000	2.340	ug/L
⌊>	Bi	209	466118.523	466118.52				ug/L

Sample ID: L1102057102
Report Date/Time: Friday, February 25, 2011 14:44:01
Page 1

Approved: February 28, 2011

Erin D. Long

Data not used - sequencing error.

	Na	23	98044.853	0.01	0.0045	0.000	6.700	mg/L
	Mg	24	5045.110	0.02	-0.0009	0.000	6.879	mg/L
	K	39	545761.132	0.09	0.0074	0.003	43.785	mg/L
	Ca	43	413.383	0.00	0.0166	0.003	19.931	mg/L
	Fe	54	56741.743	0.06	0.0353	0.001	2.551	mg/L
	Fe	57	7903.913	0.01	0.0087	0.001	11.220	mg/L
>	Sc-1	45	276249.972	276249.97				mg/L
	Cl	35	19038.106	-746.78				mg/L
	Kr	83	36.667	0.67				mg/L
	Br	81	7562.860	402.30				mg/L
	P	31	10944.667	821.53				mg/L
	S	34	192818.965	-8947.54				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Li	6					
	Be	9					
	Al	27					
>	Sc	45					
	Ti	49					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	65					
	Zn	66					
>	Ge	72		91.354			
	As	75					
	Se	77					
	Se	82					
	Rb	85					
	Y	89					
	Rh	103					
	Mo	98					
	Ag	107					
	Cd	114					
>	In	115		91.970			
	Sn	118					
	Sb	123					
	Ba	135					
	Ce	140					
>	Tb	159		90.674			
	Ho	165					
	Tl	203					
	Tl	205					
	Pb	206					
	Pb	207					
	Pb	208					
	U	238					
>	Bi	209		90.938			
	Na	23					

Sample ID: L1102057102
Report Date/Time: Friday, February 25, 2011 14:44:01

Approved: February 28, 2011

Data not used - sequencing error.

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102057102
Report Date/Time: Friday, February 25, 2011 14:44:01
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 25, 2011 14:48:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18366.943	0.01				ug/L
|	Be	9	12494.471	0.05	50.7892	2.762	5.439	ug/L
|	Al	27	245307.843	0.92	49.6750	1.741	3.505	ug/L
⌊>	Sc	45	265085.960	265085.96				ug/L
⌈	Ti	49	52033.660	0.12	104.4143	3.778	3.618	ug/L
|	V	51	403099.881	0.96	50.5309	0.485	0.959	ug/L
|	Cr	52	339732.726	0.80	50.8157	0.507	0.998	ug/L
|	Cr	53	39023.242	0.09	49.5067	0.317	0.641	ug/L
|	Mn	55	510835.828	1.22	50.4933	1.072	2.123	ug/L
|	Co	59	412825.635	0.99	50.3784	0.793	1.573	ug/L
|	Ni	60	86103.558	0.21	50.6389	1.332	2.631	ug/L
|	Cu	65	88552.271	0.21	50.0596	0.190	0.379	ug/L
|	Zn	66	53557.591	0.13	50.5128	0.491	0.973	ug/L
|>	Ge	72	417593.140	417593.14				ug/L
|	As	75	40310.573	0.10	50.3194	0.207	0.411	ug/L
|	Se	77	2945.767	0.01	50.3514	2.164	4.298	ug/L
|	Se	82	3592.023	0.01	49.5245	0.325	0.657	ug/L
⌊	Rb	85	1449.120	0.00				mg/L
	Y	89	244546.051	-46151.14				ug/L
	Rh	103	14.000	5.67				ug/L
⌈	Mo	98	178165.394	0.56	101.9172	1.105	1.085	ug/L
|	Ag	107	175599.539	0.55	49.3361	1.071	2.171	ug/L
|	Cd	114	43834.935	0.14	51.3698	1.375	2.678	ug/L
|>	In	115	320801.965	320801.96				ug/L
|	Sn	118	150690.277	0.47	50.6882	0.414	0.817	ug/L
⌊	Sb	123	152252.666	0.47	51.9425	0.474	0.913	ug/L
⌈	Ba	135	61072.613	0.14	51.5528	0.949	1.842	ug/L
|	Ce	140	33.337	0.00				ug/L
⌊>	Tb	159	441875.317	441875.32				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	282236.723	0.63	49.5670	0.185	0.374	ug/L
|	Tl	205	704415.447	1.58	50.8337	0.654	1.286	ug/L
|	Pb	206	231417.922	0.52	50.6254	0.790	1.561	ug/L
|	Pb	207	214911.051	0.48	49.8387	1.675	3.360	ug/L
|	Pb	208	966004.444	2.16	50.2859	0.773	1.536	ug/L
|	U	238	1829230.792	4.10	51.0261	1.078	2.113	ug/L
⌊>	Bi	209	446563.301	446563.30				ug/L

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 14:50:48
Page 1

Approved: February 28, 2011

⌈	Na	23	23180904.594	87.10	5.0742	0.025	0.492	mg/L
|	Mg	24	14814211.859	55.90	5.2189	0.128	2.446	mg/L
|	K	39	36349981.531	135.27	5.0616	0.112	2.221	mg/L
|	Ca	43	78864.731	0.30	5.0716	0.153	3.013	mg/L
|	Fe	54	2538407.049	9.44	5.0021	0.052	1.048	mg/L
|	Fe	57	1040230.827	3.90	5.0250	0.186	3.706	mg/L
⌊>	Sc-1	45	265085.960	265085.96				mg/L
	Cl	35	15625.534	-4159.35				mg/L
	Kr	83	39.000	3.00				mg/L
	Br	81	6754.948	-405.62				mg/L
	P	31	7427.433	-2695.70				mg/L
	S	34	183482.765	-18283.74				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	101.062				
|	Cr	52	101.631				
|	Cr	53					
|	Mn	55	100.987				
|	Co	59	100.757				
|	Ni	60	101.278				
|	Cu	65	100.119				
|	Zn	66	101.026				
|>	Ge	72		89.809			
|	As	75	100.639				
|	Se	77					
|	Se	82	99.049				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	98.672				
|	Cd	114	102.740				
|>	In	115		89.490			
|	Sn	118					
⌊	Sb	123	103.885				
⌈	Ba	135	103.106				
|	Ce	140					
⌊>	Tb	159		88.254			
⌈	Ho	165					
|	Tl	203	99.134				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	100.572				
|	U	238	102.052				
⌊>	Bi	209		87.123			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 14:50:48

Approved: February 28, 2011

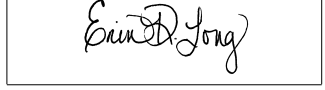
Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 14:50:48

Approved: February 28, 2011



Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 25, 2011 14:55:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19953.306	0.01				ug/L
|	Be	9	4.000	0.00	0.0535	0.014	25.874	ug/L
|	Al	27	1450.106	-0.00	-0.0717	0.037	51.556	ug/L
⌊>	Sc	45	269756.701	269756.70				ug/L
⌈	Ti	49	66.674	0.00	0.0370	0.044	120.146	ug/L
|	V	51	2226.969	-0.00	-0.0037	0.007	198.450	ug/L
|	Cr	52	7357.446	-0.00	-0.0139	0.011	78.150	ug/L
|	Cr	53	306.702	-0.00	-0.2367	0.075	31.608	ug/L
|	Mn	55	360.677	-0.00	-0.0941	0.002	1.951	ug/L
|	Co	59	87.001	0.00	-0.0177	0.000	2.370	ug/L
|	Ni	60	43.334	-0.00	-0.0338	0.002	4.446	ug/L
|	Cu	65	161.670	0.00	0.0315	0.002	7.291	ug/L
|	Zn	66	516.685	0.00	-0.0672	0.007	10.768	ug/L
|>	Ge	72	431429.998	431430.00				ug/L
|	As	75	-99.266	0.00	0.0357	0.012	32.888	ug/L
|	Se	77	48.667	-0.00	-0.2991	0.093	31.100	ug/L
|	Se	82	5.012	-0.00	-0.0494	0.069	139.360	ug/L
⌊	Rb	85	17.334	0.00				mg/L
	Y	89	258336.602	-32360.59				ug/L
	Rh	103	3.333	-5.00				ug/L
⌈	Mo	98	63.791	0.00	0.0427	0.009	20.838	ug/L
|	Ag	107	17.000	0.00	-0.0140	0.001	6.119	ug/L
|	Cd	114	0.470	-0.00	0.0195	0.002	10.610	ug/L
|>	In	115	331574.948	331574.95				ug/L
|	Sn	118	177.068	0.00	0.0323	0.005	14.474	ug/L
⌊	Sb	123	72.495	0.00	0.0136	0.002	16.997	ug/L
⌈	Ba	135	8.667	-0.00	0.0125	0.001	11.931	ug/L
|	Ce	140	26.669	0.00				ug/L
⌊>	Tb	159	464483.602	464483.60				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	25.334	0.00	-0.0028	0.001	18.875	ug/L
|	Tl	205	40.004	0.00	-0.0108	0.001	6.166	ug/L
|	Pb	206	357.677	0.00	-0.0337	0.002	7.165	ug/L
|	Pb	207	344.676	0.00	-0.0203	0.006	28.829	ug/L
|	Pb	208	1491.058	0.00	-0.0199	0.003	14.728	ug/L
|	U	238	91.335	0.00	-0.0019	0.000	19.837	ug/L
⌊>	Bi	209	471073.225	471073.23				ug/L

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 14:58:02
Page 1

Approved: February 28, 2011

⌈	Na	23	44570.244	-0.18	-0.0065	0.000	2.677	mg/L
|	Mg	24	590.077	0.00	-0.0024	0.000	1.382	mg/L
|	K	39	553246.348	0.16	0.0102	0.001	6.017	mg/L
|	Ca	43	183.353	0.00	0.0027	0.001	37.126	mg/L
|	Fe	54	36523.365	-0.01	-0.0018	0.002	123.105	mg/L
|	Fe	57	6345.991	0.00	0.0021	0.003	130.532	mg/L
⌊>	Sc-1	45	269756.701	269756.70				mg/L
	Cl	35	15795.138	-3989.75				mg/L
	Kr	83	37.000	1.00				mg/L
	Br	81	6676.896	-483.67				mg/L
	P	31	8924.652	-1198.48				mg/L
	S	34	193795.878	-7970.63				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.785			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.495			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.770			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		91.905			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 14:58:02
Page 2

Approved: February 28, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 14:58:02

Approved: February 28, 2011

Data not used - sequencing error.

Method 6020 - Summary Report

Sample ID: L1102057102

Sample Date/Time: Friday, February 25, 2011 15:02:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 76
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20654.652	0.01				ug/L
|	Be	9	4.000	0.00	0.0524	0.013	24.690	ug/L
|	Al	27	9271.113	0.03	1.3712	0.382	27.876	ug/L
⌊>	Sc	45	288777.200	288777.20				ug/L
⌈	Ti	49	90.009	0.00	0.0812	0.021	25.325	ug/L
|	V	51	2311.328	-0.00	0.0044	0.005	125.854	ug/L
|	Cr	52	13232.884	0.01	0.8406	0.052	6.129	ug/L
|	Cr	53	926.803	0.00	0.5242	0.117	22.415	ug/L
|	Mn	55	1709.830	0.00	0.0340	0.003	8.582	ug/L
|	Co	59	128.669	0.00	-0.0129	0.003	19.681	ug/L
|	Ni	60	262.339	0.00	0.0899	0.004	4.814	ug/L
|	Cu	65	329.009	0.00	0.1218	0.010	7.976	ug/L
|	Zn	66	2760.742	0.01	1.9838	0.074	3.752	ug/L
|>	Ge	72	434734.389	434734.39				ug/L
|	As	75	-131.003	-0.00	-0.0016	0.050	3062.808	ug/L
|	Se	77	56.667	-0.00	-0.1705	0.193	112.945	ug/L
|	Se	82	2.646	-0.00	-0.0821	0.119	144.627	ug/L
⌊	Rb	85	28.000	0.00				mg/L
	Y	89	262941.739	-27755.45				ug/L
	Rh	103	3.333	-5.00				ug/L
⌈	Mo	98	202.570	0.00	0.1137	0.007	6.261	ug/L
|	Ag	107	19.334	0.00	-0.0137	0.001	9.968	ug/L
|	Cd	114	-0.340	-0.00	0.0186	0.003	18.349	ug/L
|>	In	115	349945.115	349945.11				ug/L
|	Sn	118	226.536	0.00	0.0446	0.003	6.558	ug/L
⌊	Sb	123	86.038	0.00	0.0166	0.002	9.912	ug/L
⌈	Ba	135	45.667	0.00	0.0409	0.001	2.536	ug/L
|	Ce	140	30.003	0.00				ug/L
⌊>	Tb	159	481406.571	481406.57				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	21.334	0.00	-0.0037	0.000	13.225	ug/L
|	Tl	205	66.674	0.00	-0.0092	0.001	10.902	ug/L
|	Pb	206	461.015	0.00	-0.0165	0.002	13.362	ug/L
|	Pb	207	385.345	0.00	-0.0151	0.004	26.085	ug/L
|	Pb	208	1765.411	0.00	-0.0102	0.001	7.149	ug/L
|	U	238	67.001	0.00	-0.0026	0.000	7.754	ug/L
⌊>	Bi	209	493012.168	493012.17				ug/L

Sample ID: L1102057102
Report Date/Time: Friday, February 25, 2011 15:04:49
Page 1

Approved: February 28, 2011

Erin D. Long

Data not used - sequencing error.

Na	23	81489.005	-0.07	0.0003	0.001	184.835	mg/L
Mg	24	7099.897	0.02	-0.0003	0.000	16.376	mg/L
K	39	552869.909	0.03	0.0051	0.001	23.298	mg/L
Ca	43	386.713	0.00	0.0140	0.006	40.728	mg/L
Fe	54	86706.250	0.16	0.0856	0.007	7.798	mg/L
Fe	57	7099.905	0.00	0.0035	0.002	67.335	mg/L
Sc-1	45	288777.200	288777.20				mg/L
Cl	35	23553.708	3768.82				mg/L
Kr	83	40.667	4.67				mg/L
Br	81	7039.811	-120.75				mg/L
P	31	16613.791	6490.65				mg/L
S	34	196720.399	-5046.11				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		93.496			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		97.620			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		96.150			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		96.185			
Na	23					

Sample ID: L1102057102
Report Date/Time: Friday, February 25, 2011 15:04:49
Page 2

Approved: February 28, 2011

Erin D. Long

Data not used - sequencing error.

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102057102
Report Date/Time: Friday, February 25, 2011 15:04:49
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 25, 2011 15:09:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19251.950	0.00				ug/L
|	Be	9	13404.994	0.05	49.7685	2.631	5.287	ug/L
|	Al	27	261239.881	0.90	48.3336	2.200	4.551	ug/L
|>	Sc	45	289995.390	289995.39				ug/L
⌈	Ti	49	56689.282	0.13	108.0439	1.919	1.776	ug/L
|	V	51	435757.445	0.99	51.9069	0.932	1.796	ug/L
|	Cr	52	368346.313	0.82	52.3799	0.717	1.370	ug/L
|	Cr	53	42758.826	0.10	51.5575	0.232	0.450	ug/L
|	Mn	55	561488.986	1.28	52.7133	1.241	2.354	ug/L
|	Co	59	452336.384	1.03	52.4249	0.945	1.803	ug/L
|	Ni	60	94004.443	0.21	52.5245	0.943	1.796	ug/L
|	Cu	65	95229.917	0.22	51.1395	0.363	0.710	ug/L
|	Zn	66	57342.533	0.13	51.3820	0.724	1.410	ug/L
|>	Ge	72	439615.858	439615.86				ug/L
|	As	75	42529.886	0.10	50.4349	0.949	1.882	ug/L
|	Se	77	3233.856	0.01	52.5303	0.750	1.429	ug/L
|	Se	82	3833.821	0.01	50.2145	0.771	1.536	ug/L
⌊	Rb	85	1590.809	0.00				mg/L
	Y	89	263827.848	-26869.34				ug/L
	Rh	103	19.334	11.00				ug/L
⌈	Mo	98	193160.289	0.56	102.5490	0.917	0.894	ug/L
|	Ag	107	193162.742	0.56	50.3655	0.728	1.445	ug/L
|	Cd	114	47101.478	0.14	51.2237	1.627	3.176	ug/L
|>	In	115	345639.366	345639.37				ug/L
|	Sn	118	160433.421	0.46	50.0849	0.315	0.629	ug/L
⌊	Sb	123	160935.812	0.47	50.9589	1.015	1.992	ug/L
⌈	Ba	135	66119.874	0.14	51.3850	0.233	0.453	ug/L
|	Ce	140	36.670	0.00				ug/L
|>	Tb	159	479960.271	479960.27				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	309651.540	0.64	49.9817	2.331	4.663	ug/L
|	Tl	205	768748.299	1.58	50.9790	1.628	3.194	ug/L
|	Pb	206	251395.193	0.52	50.5255	1.626	3.218	ug/L
|	Pb	207	243081.377	0.50	51.7703	0.728	1.406	ug/L
|	Pb	208	1072355.730	2.20	51.2813	1.181	2.303	ug/L
|	U	238	1981567.610	4.08	50.7837	1.835	3.614	ug/L
|>	Bi	209	486281.817	486281.82				ug/L

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 15:11:36
Page 1

Approved: February 28, 2011

⌈	Na	23	24828843.326	85.27	4.9673	0.055	1.116	mg/L
|	Mg	24	15709720.640	54.17	5.0573	0.017	0.343	mg/L
|	K	39	38714644.582	131.63	4.9255	0.055	1.109	mg/L
|	Ca	43	86329.643	0.30	5.0761	0.048	0.944	mg/L
|	Fe	54	2846733.067	9.68	5.1301	0.110	2.136	mg/L
|	Fe	57	1138611.509	3.90	5.0239	0.070	1.398	mg/L
⌊>	Sc-1	45	289995.390	289995.39				mg/L
	Cl	35	16062.224	-3722.66				mg/L
	Kr	83	34.334	-1.67				mg/L
	Br	81	6444.744	-715.82				mg/L
	P	31	8326.802	-1796.34				mg/L
	S	34	196138.326	-5628.18				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	103.814				
|	Cr	52	104.760				
|	Cr	53					
|	Mn	55	105.427				
|	Co	59	104.850				
|	Ni	60	105.049				
|	Cu	65	102.279				
|	Zn	66	102.764				
|>	Ge	72		94.546			
|	As	75	100.870				
|	Se	77					
|	Se	82	100.429				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	100.731				
|	Cd	114	102.447				
|>	In	115		96.419			
|	Sn	118					
⌊	Sb	123	101.918				
⌈	Ba	135	102.770				
|	Ce	140					
⌊>	Tb	159		95.861			
⌈	Ho	165					
|	Tl	203	99.963				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	102.563				
|	U	238	101.567				
⌊>	Bi	209		94.872			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 15:11:36

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 15:11:36

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 25, 2011 15:16:39
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19185.136	0.01				ug/L
|	Be	9	6.000	0.00	0.0607	0.008	13.146	ug/L
|	Al	27	1633.475	0.00	-0.0455	0.095	209.510	ug/L
⌊>	Sc	45	278166.035	278166.03				ug/L
⌈	Ti	49	60.006	0.00	0.0245	0.052	211.186	ug/L
|	V	51	2204.561	-0.00	-0.0056	0.011	199.339	ug/L
|	Cr	52	7269.714	-0.00	-0.0236	0.010	40.724	ug/L
|	Cr	53	236.693	-0.00	-0.3233	0.040	12.463	ug/L
|	Mn	55	361.343	-0.00	-0.0939	0.001	0.750	ug/L
|	Co	59	92.668	0.00	-0.0170	0.001	3.198	ug/L
|	Ni	60	36.000	-0.00	-0.0380	0.002	6.242	ug/L
|	Cu	65	138.669	0.00	0.0192	0.015	78.574	ug/L
|	Zn	66	504.351	0.00	-0.0770	0.018	23.966	ug/L
|>	Ge	72	430110.800	430110.80				ug/L
|	As	75	-107.913	-0.00	0.0247	0.036	144.306	ug/L
|	Se	77	54.667	-0.00	-0.1953	0.227	116.360	ug/L
|	Se	82	0.693	-0.00	-0.1073	0.101	94.486	ug/L
⌊	Rb	85	10.000	-0.00				mg/L
	Y	89	257201.552	-33495.64				ug/L
	Rh	103	5.000	-3.33				ug/L
⌈	Mo	98	74.713	0.00	0.0479	0.004	9.059	ug/L
|	Ag	107	21.334	0.00	-0.0130	0.001	6.089	ug/L
|	Cd	114	2.016	0.00	0.0212	0.002	7.222	ug/L
|>	In	115	338668.653	338668.65				ug/L
|	Sn	118	182.135	0.00	0.0328	0.004	12.360	ug/L
⌊	Sb	123	58.453	0.00	0.0086	0.004	51.216	ug/L
⌈	Ba	135	8.667	-0.00	0.0125	0.003	21.676	ug/L
|	Ce	140	6.667	-0.00				ug/L
⌊>	Tb	159	463879.113	463879.11				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	26.667	0.00	-0.0026	0.001	38.236	ug/L
|	Tl	205	63.340	0.00	-0.0093	0.002	24.682	ug/L
|	Pb	206	362.010	0.00	-0.0325	0.004	10.947	ug/L
|	Pb	207	302.008	0.00	-0.0294	0.007	22.615	ug/L
|	Pb	208	1455.724	0.00	-0.0214	0.001	6.553	ug/L
|	U	238	92.668	0.00	-0.0018	0.000	14.258	ug/L
⌊>	Bi	209	469069.234	469069.23				ug/L

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 15:18:50
Page 1

Approved: February 28, 2011

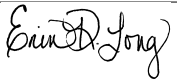
⌈	Na	23	39377.984	-0.21	-0.0079	0.000	1.437	mg/L
|	Mg	24	523.400	0.00	-0.0024	0.000	0.920	mg/L
|	K	39	552946.942	0.10	0.0078	0.001	9.059	mg/L
|	Ca	43	163.351	0.00	0.0011	0.003	273.897	mg/L
|	Fe	54	36542.557	-0.01	-0.0039	0.002	53.145	mg/L
|	Fe	57	6025.753	-0.00	-0.0003	0.001	450.769	mg/L
⌊>	Sc-1	45	278166.035	278166.03				mg/L
	Cl	35	15384.493	-4400.39				mg/L
	Kr	83	35.334	-0.67				mg/L
	Br	81	6254.622	-905.94				mg/L
	P	31	8438.921	-1684.22				mg/L
	S	34	190719.866	-11046.64				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.501			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.474			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.649			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		91.514			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 15:18:50

Approved: February 28, 2011



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 15:18:50

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: PBW 57 WG357434-02

Sample Date/Time: Friday, February 25, 2011 15:23:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21723.617	0.01				ug/L
|	Be	9	8.000	0.00	0.0672	0.007	11.004	ug/L
|	Al	27	55000.992	0.18	9.9151	0.383	3.861	ug/L
⌊>	Sc	45	289274.340	289274.34				ug/L
⌈	Ti	49	73.341	0.00	0.0492	0.032	64.076	ug/L
|	V	51	2451.920	0.00	0.0213	0.002	7.216	ug/L
|	Cr	52	8797.290	0.00	0.1885	0.010	5.046	ug/L
|	Cr	53	483.394	-0.00	-0.0216	0.109	502.412	ug/L
|	Mn	55	6005.196	0.01	0.4426	0.007	1.648	ug/L
|	Co	59	265.006	0.00	0.0031	0.000	15.957	ug/L
|	Ni	60	166.003	0.00	0.0353	0.001	2.513	ug/L
|	Cu	65	317.008	0.00	0.1151	0.013	10.947	ug/L
|	Zn	66	2857.437	0.01	2.0714	0.023	1.103	ug/L
|>	Ge	72	434917.791	434917.79				ug/L
|	As	75	-48.325	0.00	0.0975	0.009	9.446	ug/L
|	Se	77	59.334	0.00	-0.1284	0.361	281.201	ug/L
|	Se	82	12.748	-0.00	0.0529	0.077	145.820	ug/L
⌊	Rb	85	109.002	0.00				mg/L
	Y	89	264618.740	-26078.45				ug/L
	Rh	103	6.000	-2.33				ug/L
⌈	Mo	98	41.493	0.00	0.0298	0.004	12.522	ug/L
|	Ag	107	60.334	0.00	-0.0027	0.001	21.837	ug/L
|	Cd	114	235.378	0.00	0.2782	0.010	3.593	ug/L
|>	In	115	341121.709	341121.71				ug/L
|	Sn	118	214.669	0.00	0.0426	0.004	9.329	ug/L
⌊	Sb	123	115.118	0.00	0.0267	0.002	7.003	ug/L
⌈	Ba	135	288.340	0.00	0.2288	0.016	6.947	ug/L
|	Ce	140	673.423	0.00				ug/L
⌊>	Tb	159	481509.643	481509.64				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	84.335	0.00	0.0065	0.001	11.124	ug/L
|	Tl	205	203.356	0.00	-0.0002	0.003	1871.661	ug/L
|	Pb	206	5410.185	0.01	0.9760	0.040	4.097	ug/L
|	Pb	207	4613.777	0.01	0.8836	0.033	3.698	ug/L
|	Pb	208	21551.720	0.04	0.9337	0.014	1.465	ug/L
|	U	238	513.685	0.00	0.0088	0.000	2.802	ug/L
⌊>	Bi	209	488539.092	488539.09				ug/L

Sample ID: PBW 57 WG357434-02
Report Date/Time: Friday, February 25, 2011 15:25:36
Page 1

Approved: February 28, 2011

⌈	Na	23	127378.973	0.09	0.0095	0.001	5.384	mg/L
|	Mg	24	50877.571	0.18	0.0138	0.000	3.508	mg/L
|	K	39	593637.053	0.17	0.0102	0.001	6.124	mg/L
|	Ca	43	903.465	0.00	0.0444	0.005	10.372	mg/L
|	Fe	54	92408.339	0.18	0.0958	0.004	4.173	mg/L
|	Fe	57	10549.952	0.01	0.0188	0.001	5.241	mg/L
⌊>	Sc-1	45	289274.340	289274.34				mg/L
	Cl	35	167860.809	148075.92				mg/L
	Kr	83	29.000	-7.00				mg/L
	Br	81	7299.331	138.77				mg/L
	P	31	16073.585	5950.45				mg/L
	S	34	187046.258	-14720.25				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.535			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.158			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.170			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.312			
⌈	Na	23					

Sample ID: PBW 57 WG357434-02
Report Date/Time: Friday, February 25, 2011 15:25:36

Approved: February 28, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 57 WG357434-02
Report Date/Time: Friday, February 25, 2011 15:25:36
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: LCSW 57 WG357434-03

Sample Date/Time: Friday, February 25, 2011 15:30:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 19
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23561.124	0.02				ug/L
|	Be	9	6705.582	0.02	24.2748	1.164	4.794	ug/L
|	Al	27	167051.682	0.56	29.9493	0.321	1.071	ug/L
⌊>	Sc	45	297873.994	297873.99				ug/L
⌈	Ti	49	163.351	0.00	0.2216	0.065	29.122	ug/L
|	V	51	225119.103	0.51	26.8645	0.619	2.303	ug/L
|	Cr	52	197778.658	0.43	27.8056	0.286	1.028	ug/L
|	Cr	53	22761.484	0.05	27.3425	0.325	1.187	ug/L
|	Mn	55	298098.537	0.68	28.1174	0.564	2.005	ug/L
|	Co	59	230506.668	0.53	26.8820	0.268	0.999	ug/L
|	Ni	60	48835.135	0.11	27.4449	0.809	2.949	ug/L
|	Cu	65	49572.407	0.11	26.7708	0.130	0.485	ug/L
|	Zn	66	29303.836	0.07	26.1727	0.589	2.249	ug/L
| >	Ge	72	436693.544	436693.54				ug/L
|	As	75	19952.539	0.05	23.9046	0.735	3.077	ug/L
|	Se	77	1411.433	0.00	22.4559	0.315	1.403	ug/L
|	Se	82	1705.112	0.00	22.4165	0.436	1.945	ug/L
⌊	Rb	85	105.002	0.00				mg/L
	Y	89	270695.714	-20001.47				ug/L
	Rh	103	11.333	3.00				ug/L
⌈	Mo	98	53.603	0.00	0.0357	0.009	25.430	ug/L
|	Ag	107	92457.733	0.26	23.8355	0.124	0.519	ug/L
|	Cd	114	23090.754	0.07	24.8516	0.965	3.881	ug/L
| >	In	115	349431.993	349431.99				ug/L
|	Sn	118	151.601	0.00	0.0215	0.003	15.737	ug/L
⌊	Sb	123	80843.145	0.23	25.3179	0.588	2.322	ug/L
⌈	Ba	135	34422.869	0.07	25.7376	1.171	4.549	ug/L
|	Ce	140	293.367	0.00				ug/L
⌊>	Tb	159	499109.732	499109.73				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	160943.350	0.32	25.2908	0.191	0.756	ug/L
|	Tl	205	402190.345	0.81	25.9703	0.397	1.529	ug/L
|	Pb	206	137405.108	0.27	26.8465	0.123	0.456	ug/L
|	Pb	207	123208.303	0.25	25.5181	0.182	0.713	ug/L
|	Pb	208	566924.493	1.13	26.3679	0.377	1.429	ug/L
|	U	238	1055912.942	2.12	26.3545	0.228	0.865	ug/L
⌊>	Bi	209	498986.161	498986.16				ug/L

Sample ID: LCSW 57 WG357434-03
Report Date/Time: Friday, February 25, 2011 15:32:23
Page 1

Approved: February 28, 2011

⌈	Na	23	122083.218	0.06	0.0077	0.000	0.759	mg/L
|	Mg	24	95708.719	0.32	0.0274	0.001	2.300	mg/L
|	K	39	649655.450	0.30	0.0151	0.003	17.424	mg/L
|	Ca	43	1363.563	0.00	0.0694	0.009	13.203	mg/L
|	Fe	54	89594.673	0.16	0.0860	0.009	10.387	mg/L
|	Fe	57	9088.381	0.01	0.0111	0.002	14.628	mg/L
⌊>	Sc-1	45	297873.994	297873.99				mg/L
	Cl	35	650039.873	630254.99				mg/L
	Kr	83	45.001	9.00				mg/L
	Br	81	7032.475	-128.09				mg/L
	P	31	18123.767	8000.63				mg/L
	S	34	194577.488	-7189.02				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.917			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.477			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.686			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.351			
⌈	Na	23					

Sample ID: LCSW 57 WG357434-03
Report Date/Time: Friday, February 25, 2011 15:32:23
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 57 WG357434-03
Report Date/Time: Friday, February 25, 2011 15:32:23
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: FBLK WG357088-01

Sample Date/Time: Friday, February 25, 2011 15:36:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 20
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16965.230	0.00				ug/L
|	Be	9	6.667	0.00	0.0650	0.009	14.261	ug/L
|	Al	27	15094.792	0.05	2.7733	0.277	9.993	ug/L
⌊>	Sc	45	260055.071	260055.07				ug/L
⌈	Ti	49	150.016	0.00	0.2335	0.100	42.716	ug/L
|	V	51	7871.849	0.01	0.7984	0.018	2.294	ug/L
|	Cr	52	27516.757	0.05	3.4491	0.056	1.638	ug/L
|	Cr	53	743.435	0.00	0.4150	0.015	3.526	ug/L
|	Mn	55	1633.150	0.00	0.0464	0.005	10.639	ug/L
|	Co	59	173.670	0.00	-0.0051	0.001	21.738	ug/L
|	Ni	60	1262.759	0.00	0.7462	0.015	2.070	ug/L
|	Cu	65	594.690	0.00	0.3071	0.023	7.445	ug/L
|	Zn	66	2986.476	0.01	2.5371	0.077	3.048	ug/L
| >	Ge	72	385832.433	385832.43				ug/L
|	As	75	-103.305	-0.00	0.0160	0.010	60.121	ug/L
|	Se	77	54.000	0.00	-0.1014	0.103	101.452	ug/L
|	Se	82	10.287	-0.00	0.0367	0.052	140.887	ug/L
⌊	Rb	85	116.669	0.00				mg/L
	Y	89	235613.470	-55083.72				ug/L
	Rh	103	5.333	-3.00				ug/L
⌈	Mo	98	62.160	0.00	0.0475	0.005	10.823	ug/L
|	Ag	107	32.667	0.00	-0.0084	0.002	20.583	ug/L
|	Cd	114	3.200	0.00	0.0231	0.007	29.025	ug/L
| >	In	115	286080.793	286080.79				ug/L
|	Sn	118	155.201	0.00	0.0333	0.003	7.983	ug/L
⌊	Sb	123	64.411	0.00	0.0143	0.004	24.653	ug/L
⌈	Ba	135	805.040	0.00	0.7483	0.018	2.470	ug/L
|	Ce	140	73.341	0.00				ug/L
⌊>	Tb	159	404389.086	404389.09				ug/L
⌈	Ho	165	0.000	-0.00				ug/L
|	Tl	203	25.667	0.00	-0.0018	0.001	53.168	ug/L
|	Tl	205	60.006	0.00	-0.0085	0.001	11.522	ug/L
|	Pb	206	539.687	0.00	0.0296	0.009	29.477	ug/L
|	Pb	207	452.348	0.00	0.0259	0.003	13.040	ug/L
|	Pb	208	2128.444	0.00	0.0354	0.002	5.126	ug/L
|	U	238	73.334	0.00	-0.0019	0.001	31.455	ug/L
⌊>	Bi	209	384371.039	384371.04				ug/L

Sample ID: FBLK WG357088-01
Report Date/Time: Friday, February 25, 2011 15:39:10
Page 1

Approved: February 28, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	24843.340	0.09	0.0063	0.000	6.084	mg/L
|	K	39	1041288.799	2.12	0.0832	0.002	2.108	mg/L
|	Ca	43	1260.207	0.00	0.0739	0.015	20.473	mg/L
|	Fe	54	72454.641	0.14	0.0741	0.006	7.743	mg/L
|	Fe	57	6265.922	0.00	0.0028	0.001	23.229	mg/L
⌊>	Sc-1	45	260055.071	260055.07				mg/L
	Cl	35	29545.584	9760.70				mg/L
	Kr	83	43.667	7.67				mg/L
	Br	81	8241.396	1080.83				mg/L
	P	31	13901.081	3777.94				mg/L
	S	34	175076.652	-26689.85				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.979			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		79.804			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		80.767			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		74.990			
⌈	Na	23					

Sample ID: FBLK WG357088-01
Report Date/Time: Friday, February 25, 2011 15:39:10
Page 2

Approved: February 28, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: FBLK WG357088-01
Report Date/Time: Friday, February 25, 2011 15:39:10

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102050217

Sample Date/Time: Friday, February 25, 2011 15:43:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18183.246	0.00				ug/L
|	Be	9	7.333	0.00	0.0667	0.005	8.190	ug/L
|	Al	27	518032.056	1.90	102.8469	4.347	4.227	ug/L
⌊>	Sc	45	271557.414	271557.41				ug/L
⌈	Ti	49	1616.959	0.00	3.1096	0.184	5.914	ug/L
|	V	51	14148.863	0.03	1.4837	0.013	0.873	ug/L
|	Cr	52	12930.153	0.01	0.8471	0.049	5.800	ug/L
|	Cr	53	896.797	0.00	0.5176	0.124	24.044	ug/L
|	Mn	55	787866.124	1.86	76.8681	0.573	0.745	ug/L
|	Co	59	5523.581	0.01	0.6371	0.019	2.978	ug/L
|	Ni	60	937.053	0.00	0.4857	0.010	2.160	ug/L
|	Cu	65	1217.420	0.00	0.6225	0.016	2.491	ug/L
|	Zn	66	2895.782	0.01	2.1794	0.097	4.474	ug/L
| >	Ge	72	423337.257	423337.26				ug/L
|	As	75	2476.654	0.01	3.1951	0.045	1.415	ug/L
|	Se	77	77.334	0.00	0.2106	0.117	55.521	ug/L
|	Se	82	1.594	-0.00	-0.0951	0.042	43.835	ug/L
⌊	Rb	85	1233.755	0.00				mg/L
	Y	89	258251.039	-32446.15				ug/L
	Rh	103	6.333	-2.00				ug/L
⌈	Mo	98	398.651	0.00	0.2331	0.004	1.878	ug/L
|	Ag	107	19977.286	0.06	5.5283	0.469	8.483	ug/L
|	Cd	114	14.382	0.00	0.0356	0.007	19.850	ug/L
| >	In	115	324267.068	324267.07				ug/L
|	Sn	118	124.934	0.00	0.0163	0.003	21.474	ug/L
⌊	Sb	123	83.952	0.00	0.0181	0.002	9.660	ug/L
⌈	Ba	135	13097.711	0.03	10.8298	0.452	4.175	ug/L
|	Ce	140	31539.477	0.07				ug/L
⌊>	Tb	159	451381.548	451381.55				ug/L
⌈	Ho	165	236.693	0.00				ug/L
|	Tl	203	64.668	0.00	0.0045	0.001	25.593	ug/L
|	Tl	205	170.018	0.00	-0.0011	0.001	84.844	ug/L
|	Pb	206	1962.879	0.00	0.3296	0.013	3.962	ug/L
|	Pb	207	1636.484	0.00	0.2905	0.007	2.460	ug/L
|	Pb	208	7774.943	0.01	0.3188	0.006	1.862	ug/L
|	U	238	17116.825	0.04	0.4812	0.012	2.590	ug/L
⌊>	Bi	209	438968.947	438968.95				ug/L

Sample ID: L1102050217
Report Date/Time: Friday, February 25, 2011 15:45:58
Page 1

Approved: February 28, 2011

⌈	Na	23	293878898.864	1082.50	63.0139	1.872	2.970	mg/L
|	Mg	24	235958.549	0.87	0.0786	0.003	3.333	mg/L
|	K	39	1073291.693	2.07	0.0814	0.004	5.084	mg/L
|	Ca	43	6082.457	0.02	0.3740	0.017	4.567	mg/L
|	Fe	54	198582.142	0.59	0.3141	0.005	1.680	mg/L
|	Fe	57	67970.451	0.23	0.2941	0.010	3.386	mg/L
⌊>	Sc-1	45	271557.414	271557.41				mg/L
	Cl	35	449417.955	429633.07				mg/L
	Kr	83	46.667	10.67				mg/L
	Br	81	6642.205	-518.36				mg/L
	P	31	13982.464	3859.33				mg/L
	S	34	171390.164	-30376.34				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.045			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.457			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.153			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		85.641			
⌈	Na	23					

Sample ID: L1102050217
Report Date/Time: Friday, February 25, 2011 15:45:58
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102050217
Report Date/Time: Friday, February 25, 2011 15:45:58
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102050611 WG357434-01

Sample Date/Time: Friday, February 25, 2011 15:50:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 22
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18584.037	0.00				ug/L
|	Be	9	11.333	0.00	0.0806	0.024	29.357	ug/L
|	Al	27	452996.279	1.59	85.7963	7.373	8.594	ug/L
⌊>	Sc	45	284871.687	284871.69				ug/L
⌈	Ti	49	2977.412	0.01	5.7614	0.697	12.098	ug/L
|	V	51	21016.909	0.04	2.3183	0.042	1.809	ug/L
|	Cr	52	13951.533	0.01	0.9853	0.033	3.351	ug/L
|	Cr	53	663.422	0.00	0.2159	0.165	76.541	ug/L
|	Mn	55	634540.882	1.49	61.4248	1.384	2.254	ug/L
|	Co	59	6914.794	0.02	0.7986	0.028	3.535	ug/L
|	Ni	60	1602.478	0.00	0.8654	0.033	3.831	ug/L
|	Cu	65	1427.450	0.00	0.7339	0.026	3.484	ug/L
|	Zn	66	11708.968	0.03	10.3847	0.140	1.350	ug/L
| >	Ge	72	426517.348	426517.35				ug/L
|	As	75	811.151	0.00	1.1436	0.064	5.633	ug/L
|	Se	77	58.000	-0.00	-0.1303	0.216	165.956	ug/L
|	Se	82	14.397	-0.00	0.0784	0.126	160.727	ug/L
⌊	Rb	85	484.350	0.00				mg/L
	Y	89	280925.713	-9771.48				ug/L
	Rh	103	6.000	-2.33				ug/L
⌈	Mo	98	271.942	0.00	0.1608	0.010	6.363	ug/L
|	Ag	107	28.667	0.00	-0.0107	0.001	6.276	ug/L
|	Cd	114	46.199	0.00	0.0723	0.003	4.685	ug/L
| >	In	115	325327.475	325327.47				ug/L
|	Sn	118	991.249	0.00	0.3036	0.005	1.599	ug/L
⌊	Sb	123	254.665	0.00	0.0754	0.004	4.903	ug/L
⌈	Ba	135	25838.943	0.06	20.9595	0.480	2.289	ug/L
|	Ce	140	104483.411	0.23				ug/L
⌊>	Tb	159	459898.522	459898.52				ug/L
⌈	Ho	165	1046.826	0.00				ug/L
|	Tl	203	19.334	0.00	-0.0037	0.001	24.106	ug/L
|	Tl	205	40.004	0.00	-0.0107	0.001	13.393	ug/L
|	Pb	206	6262.690	0.01	1.2652	0.036	2.854	ug/L
|	Pb	207	5212.744	0.01	1.1150	0.028	2.515	ug/L
|	Pb	208	24633.555	0.05	1.1913	0.028	2.384	ug/L
|	U	238	73816.609	0.17	2.0552	0.055	2.664	ug/L
⌊>	Bi	209	446450.595	446450.59				ug/L

Sample ID: L1102050611 WG357434-01
Report Date/Time: Friday, February 25, 2011 15:52:45
Page 1

Approved: February 28, 2011

⌈	Na	23	307889385.275	1081.57	62.9600	3.309	5.256	mg/L
|	Mg	24	455246.023	1.60	0.1468	0.006	4.216	mg/L
|	K	39	1310021.908	2.71	0.1055	0.003	2.712	mg/L
|	Ca	43	22156.736	0.08	1.3205	0.039	2.972	mg/L
|	Fe	54	161739.983	0.43	0.2275	0.007	2.873	mg/L
|	Fe	57	54178.470	0.17	0.2167	0.006	2.715	mg/L
⌊>	Sc-1	45	284871.687	284871.69				mg/L
	Cl	35	81429.548	61644.66				mg/L
	Kr	83	31.000	-5.00				mg/L
	Br	81	7181.914	21.35				mg/L
	P	31	23148.767	13025.63				mg/L
	S	34	187716.301	-14050.20				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.729			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.752			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.854			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		87.101			
⌈	Na	23					

Sample ID: L1102050611 WG357434-01
Report Date/Time: Friday, February 25, 2011 15:52:45
Page 2

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102050611 WG357434-01
Report Date/Time: Friday, February 25, 2011 15:52:45
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102050611S WG357434-04

Sample Date/Time: Friday, February 25, 2011 15:57:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 23
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18283.507	0.00				ug/L
|	Be	9	1314.753	0.00	5.1610	0.437	8.476	ug/L
|	Al	27	467163.348	1.68	90.9985	4.299	4.724	ug/L
⌊>	Sc	45	276870.881	276870.88				ug/L
⌈	Ti	49	2827.349	0.01	5.4781	0.109	1.989	ug/L
|	V	51	67307.164	0.15	8.0489	0.231	2.868	ug/L
|	Cr	52	52120.678	0.10	6.7138	0.232	3.458	ug/L
|	Cr	53	5208.545	0.01	5.9454	0.273	4.591	ug/L
|	Mn	55	695070.898	1.63	67.4301	1.120	1.661	ug/L
|	Co	59	53270.833	0.12	6.3509	0.201	3.170	ug/L
|	Ni	60	11283.811	0.03	6.4610	0.250	3.868	ug/L
|	Cu	65	11426.639	0.03	6.2880	0.177	2.814	ug/L
|	Zn	66	17430.353	0.04	15.7572	0.330	2.091	ug/L
| >	Ge	72	425743.791	425743.79				ug/L
|	As	75	5421.303	0.01	6.7760	0.315	4.655	ug/L
|	Se	77	398.675	0.00	5.7042	0.447	7.841	ug/L
|	Se	82	429.018	0.00	5.6977	0.313	5.488	ug/L
⌊	Rb	85	497.017	0.00				mg/L
	Y	89	279174.769	-11522.42				ug/L
	Rh	103	10.667	2.33				ug/L
⌈	Mo	98	294.350	0.00	0.1738	0.014	7.946	ug/L
|	Ag	107	18404.105	0.06	5.0911	0.090	1.769	ug/L
|	Cd	114	4926.971	0.02	5.7195	0.088	1.539	ug/L
| >	In	115	324744.771	324744.77				ug/L
|	Sn	118	233.869	0.00	0.0524	0.002	4.359	ug/L
⌊	Sb	123	17266.857	0.05	5.8106	0.107	1.840	ug/L
⌈	Ba	135	32770.606	0.07	26.9107	0.156	0.581	ug/L
|	Ce	140	102661.298	0.23				ug/L
⌊>	Tb	159	454251.762	454251.76				ug/L
⌈	Ho	165	906.799	0.00				ug/L
|	Tl	203	30922.381	0.07	5.5186	0.152	2.757	ug/L
|	Tl	205	76364.831	0.17	5.5951	0.187	3.335	ug/L
|	Pb	206	32470.630	0.07	7.1340	0.250	3.507	ug/L
|	Pb	207	28854.195	0.07	6.7230	0.216	3.207	ug/L
|	Pb	208	133227.786	0.30	6.9744	0.173	2.482	ug/L
|	U	238	270167.466	0.62	7.6620	0.218	2.839	ug/L
⌊>	Bi	209	439102.343	439102.34				ug/L

Sample ID: L1102050611S WG357434-04
Report Date/Time: Friday, February 25, 2011 15:59:30
Page 1

Approved: February 28, 2011

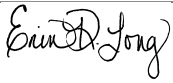
⌈	Na	23	309260662.760	1119.10	65.1442	4.029	6.185	mg/L
|	Mg	24	468896.456	1.70	0.1558	0.007	4.580	mg/L
|	K	39	1311734.356	2.86	0.1108	0.006	5.641	mg/L
|	Ca	43	21481.866	0.08	1.3186	0.071	5.370	mg/L
|	Fe	54	165281.126	0.46	0.2433	0.015	6.033	mg/L
|	Fe	57	53032.268	0.17	0.2186	0.007	3.127	mg/L
⌊>	Sc-1	45	276870.881	276870.88				mg/L
	Cl	35	270271.092	250486.20				mg/L
	Kr	83	38.000	2.00				mg/L
	Br	81	6721.592	-438.97				mg/L
	P	31	23837.057	13713.92				mg/L
	S	34	185893.144	-15873.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.562			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.590			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.726			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		85.667			
⌈	Na	23					

Sample ID: L1102050611S WG357434-04
Report Date/Time: Friday, February 25, 2011 15:59:30
Page 2

Approved: February 28, 2011



Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102050611S WG357434-04
Report Date/Time: Friday, February 25, 2011 15:59:30
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102050611SD WG357434-05

Sample Date/Time: Friday, February 25, 2011 16:04:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 24
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18968.031	0.00				ug/L
|	Be	9	1452.772	0.01	5.4844	0.312	5.697	ug/L
|	Al	27	537305.744	1.87	100.8955	4.843	4.800	ug/L
⌊>	Sc	45	286907.983	286907.98				ug/L
⌈	Ti	49	3184.161	0.01	6.0383	0.538	8.913	ug/L
|	V	51	72304.219	0.16	8.4638	0.341	4.025	ug/L
|	Cr	52	54941.417	0.11	6.9493	0.142	2.037	ug/L
|	Cr	53	5502.064	0.01	6.1587	0.164	2.661	ug/L
|	Mn	55	782657.057	1.80	74.2236	1.615	2.176	ug/L
|	Co	59	57212.464	0.13	6.6691	0.127	1.910	ug/L
|	Ni	60	12028.019	0.03	6.7323	0.176	2.615	ug/L
|	Cu	65	12097.775	0.03	6.5081	0.281	4.318	ug/L
|	Zn	66	19140.839	0.04	16.9521	0.624	3.679	ug/L
|>	Ge	72	435525.800	435525.80				ug/L
|	As	75	5736.585	0.01	7.0008	0.478	6.827	ug/L
|	Se	77	375.340	0.00	5.1636	0.250	4.834	ug/L
|	Se	82	424.314	0.00	5.5067	0.742	13.475	ug/L
⌊	Rb	85	533.686	0.00				mg/L
	Y	89	283277.727	-7419.46				ug/L
	Rh	103	10.333	2.00				ug/L
⌈	Mo	98	298.313	0.00	0.1741	0.006	3.344	ug/L
|	Ag	107	18979.862	0.06	5.1891	0.177	3.415	ug/L
|	Cd	114	5153.929	0.02	5.9125	0.333	5.629	ug/L
|>	In	115	328586.102	328586.10				ug/L
|	Sn	118	300.005	0.00	0.0733	0.009	11.759	ug/L
⌊	Sb	123	17779.393	0.05	5.9126	0.196	3.309	ug/L
⌈	Ba	135	35562.508	0.08	28.6682	0.427	1.491	ug/L
|	Ce	140	115175.613	0.25				ug/L
⌊>	Tb	159	462680.202	462680.20				ug/L
⌈	Ho	165	1110.173	0.00				ug/L
|	Tl	203	33058.243	0.07	5.8542	0.058	0.996	ug/L
|	Tl	205	80753.098	0.18	5.8705	0.123	2.092	ug/L
|	Pb	206	35520.072	0.08	7.7501	0.205	2.644	ug/L
|	Pb	207	30257.697	0.07	6.9988	0.069	0.984	ug/L
|	Pb	208	141994.847	0.32	7.3802	0.153	2.070	ug/L
|	U	238	292584.676	0.66	8.2306	0.341	4.141	ug/L
⌊>	Bi	209	442336.912	442336.91				ug/L

Sample ID: L1102050611SD WG357434-05
Report Date/Time: Friday, February 25, 2011 16:06:15
Page 1

Approved: February 28, 2011

⌈	Na	23	350496720.910	1221.57	71.1087	3.043	4.279	mg/L
|	Mg	24	517205.562	1.80	0.1658	0.006	3.873	mg/L
|	K	39	1349495.514	2.82	0.1094	0.006	5.199	mg/L
|	Ca	43	23977.863	0.08	1.4192	0.111	7.843	mg/L
|	Fe	54	174399.329	0.47	0.2486	0.013	5.376	mg/L
|	Fe	57	60508.585	0.19	0.2432	0.003	1.028	mg/L
⌊>	Sc-1	45	286907.983	286907.98				mg/L
	Cl	35	25172.999	5388.11				mg/L
	Kr	83	42.334	6.33				mg/L
	Br	81	6670.224	-490.34				mg/L
	P	31	24388.413	14265.28				mg/L
	S	34	174291.593	-27474.91				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.666			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.662			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.410			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		86.299			
⌈	Na	23					

Sample ID: L1102050611SD WG357434-05
Report Date/Time: Friday, February 25, 2011 16:06:15
Page 2

Approved: February 28, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102050611SD WG357434-05
Report Date/Time: Friday, February 25, 2011 16:06:15

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102050610

Sample Date/Time: Friday, February 25, 2011 16:10:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 25
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17815.874	-0.00				ug/L
|	Be	9	10.667	0.00	0.0771	0.011	14.479	ug/L
|	Al	27	1332088.667	4.61	249.3894	17.032	6.829	ug/L
⌊>	Sc	45	289219.267	289219.27				ug/L
⌈	Ti	49	7350.102	0.02	14.0880	0.448	3.180	ug/L
|	V	51	25610.809	0.05	2.8250	0.050	1.761	ug/L
|	Cr	52	16043.699	0.02	1.2517	0.040	3.159	ug/L
|	Cr	53	1263.540	0.00	0.9403	0.029	3.102	ug/L
|	Mn	55	696684.569	1.60	66.1455	0.764	1.155	ug/L
|	Co	59	7863.174	0.02	0.8934	0.027	3.055	ug/L
|	Ni	60	1888.197	0.00	1.0088	0.041	4.045	ug/L
|	Cu	65	1806.848	0.00	0.9250	0.010	1.048	ug/L
|	Zn	66	10747.213	0.02	9.2958	0.140	1.502	ug/L
|>	Ge	72	434869.198	434869.20				ug/L
|	As	75	936.791	0.00	1.2749	0.027	2.152	ug/L
|	Se	77	84.667	0.00	0.2987	0.078	26.245	ug/L
|	Se	82	-0.020	-0.00	-0.1146	0.199	174.019	ug/L
⌊	Rb	85	2340.298	0.01				mg/L
	Y	89	285652.835	-5044.35				ug/L
	Rh	103	9.667	1.33				ug/L
⌈	Mo	98	309.647	0.00	0.1804	0.003	1.852	ug/L
|	Ag	107	44.334	0.00	-0.0066	0.003	45.008	ug/L
|	Cd	114	43.021	0.00	0.0680	0.015	22.448	ug/L
|>	In	115	328744.773	328744.77				ug/L
|	Sn	118	224.536	0.00	0.0484	0.001	2.802	ug/L
⌊	Sb	123	302.502	0.00	0.0906	0.004	4.913	ug/L
⌈	Ba	135	28310.997	0.06	22.7639	0.232	1.020	ug/L
|	Ce	140	112628.780	0.24				ug/L
⌊>	Tb	159	464067.285	464067.28				ug/L
⌈	Ho	165	950.140	0.00				ug/L
|	Tl	203	100.335	0.00	0.0106	0.003	29.354	ug/L
|	Tl	205	250.028	0.00	0.0044	0.002	34.659	ug/L
|	Pb	206	7100.930	0.02	1.4383	0.017	1.202	ug/L
|	Pb	207	6027.880	0.01	1.2952	0.022	1.688	ug/L
|	Pb	208	28319.174	0.06	1.3740	0.027	1.974	ug/L
|	U	238	77954.699	0.17	2.1562	0.038	1.760	ug/L
⌊>	Bi	209	449723.217	449723.22				ug/L

Sample ID: L1102050610
Report Date/Time: Friday, February 25, 2011 16:13:00
Page 1

Approved: February 28, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	641094.456	2.22	0.2053	0.018	8.715	mg/L
|	K	39	1726127.712	4.09	0.1570	0.009	5.936	mg/L
|	Ca	43	22828.328	0.08	1.3418	0.063	4.666	mg/L
|	Fe	54	260786.039	0.76	0.4054	0.023	5.558	mg/L
|	Fe	57	93986.228	0.30	0.3906	0.017	4.277	mg/L
⌊>	Sc-1	45	289219.267	289219.27				mg/L
	Cl	35	675787.788	656002.90				mg/L
	Kr	83	40.667	4.67				mg/L
	Br	81	7441.441	280.88				mg/L
	P	31	24397.778	14274.64				mg/L
	S	34	184630.184	-17136.32				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.525			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.706			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.687			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		87.740			
⌈	Na	23					

Sample ID: L1102050610
Report Date/Time: Friday, February 25, 2011 16:13:00
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102050610PS WG357487-01

Sample Date/Time: Friday, February 25, 2011 16:17:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20220.760	0.01				ug/L
|	Be	9	11677.500	0.04	43.2677	3.237	7.481	ug/L
|	Al	27	1532250.268	5.26	284.3901	13.288	4.672	ug/L
⌊>	Sc	45	290768.762	290768.76				ug/L
⌈	Ti	49	7113.249	0.02	13.4398	0.993	7.390	ug/L
|	V	51	409259.016	0.92	48.5906	0.598	1.230	ug/L
|	Cr	52	336345.725	0.74	47.5950	1.041	2.188	ug/L
|	Cr	53	39719.356	0.09	47.7121	0.359	0.752	ug/L
|	Mn	55	1179432.936	2.67	110.5684	3.540	3.201	ug/L
|	Co	59	405588.768	0.92	46.8772	1.392	2.969	ug/L
|	Ni	60	84679.626	0.19	47.1754	1.187	2.516	ug/L
|	Cu	65	85887.158	0.19	45.9896	1.037	2.256	ug/L
|	Zn	66	58755.745	0.13	52.5154	1.460	2.780	ug/L
|>	Ge	72	440861.427	440861.43				ug/L
|	As	75	40372.836	0.09	47.7470	0.515	1.079	ug/L
|	Se	77	2834.402	0.01	45.7776	0.601	1.312	ug/L
|	Se	82	3381.910	0.01	44.1528	0.304	0.689	ug/L
⌊	Rb	85	2299.954	0.01				mg/L
	Y	89	281601.451	-9095.74				ug/L
	Rh	103	20.000	11.67				ug/L
⌈	Mo	98	299.094	0.00	0.1706	0.009	5.563	ug/L
|	Ag	107	161671.554	0.48	43.3179	0.977	2.254	ug/L
|	Cd	114	41266.470	0.12	46.1201	1.561	3.385	ug/L
|>	In	115	336314.038	336314.04				ug/L
|	Sn	118	407.475	0.00	0.1055	0.005	4.971	ug/L
⌊	Sb	123	143969.537	0.43	46.8504	0.670	1.431	ug/L
⌈	Ba	135	86364.736	0.18	68.2732	2.426	3.554	ug/L
|	Ce	140	112763.686	0.24				ug/L
⌊>	Tb	159	472047.215	472047.22				ug/L
⌈	Ho	165	983.480	0.00				ug/L
|	Tl	203	261394.445	0.57	44.8831	1.862	4.148	ug/L
|	Tl	205	652639.492	1.43	46.0619	2.621	5.690	ug/L
|	Pb	206	232569.187	0.51	49.7420	1.665	3.346	ug/L
|	Pb	207	203951.735	0.45	46.2318	1.087	2.352	ug/L
|	Pb	208	945277.556	2.07	48.1101	1.198	2.490	ug/L
|	U	238	1820584.909	3.99	49.6488	1.850	3.726	ug/L
⌊>	Bi	209	456758.558	456758.56				ug/L

Sample ID: L1102050610PS WG357487-01
Report Date/Time: Friday, February 25, 2011 16:19:52
Page 1

Approved: February 28, 2011

⌈	Na	23	330765060.341	1137.98	66.2433	3.720	5.615	mg/L
|	Mg	24	602950.388	2.07	0.1912	0.008	4.174	mg/L
|	K	39	1710120.037	4.00	0.1535	0.008	4.890	mg/L
|	Ca	43	22387.274	0.08	1.3072	0.060	4.573	mg/L
|	Fe	54	260966.066	0.76	0.4024	0.020	4.884	mg/L
|	Fe	57	93982.694	0.30	0.3883	0.027	6.975	mg/L
⌊>	Sc-1	45	290768.762	290768.76				mg/L
	Cl	35	674403.403	654618.52				mg/L
	Kr	83	43.334	7.33				mg/L
	Br	81	7492.807	332.24				mg/L
	P	31	25750.468	15627.33				mg/L
	S	34	186856.055	-14910.45				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.813			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		93.817			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.281			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.112			
⌈	Na	23					

Sample ID: L1102050610PS WG357487-01
Report Date/Time: Friday, February 25, 2011 16:19:52
Page 2

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1102050610PS WG357487-01
Report Date/Time: Friday, February 25, 2011 16:19:52
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102050610SDL WG357487-02

Sample Date/Time: Friday, February 25, 2011 16:24:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 27
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19753.066	0.01				ug/L
|	Be	9	5.333	0.00	0.0570	0.010	18.257	ug/L
|	Al	27	246605.096	0.85	45.9306	3.684	8.022	ug/L
⌊>	Sc	45	288943.894	288943.89				ug/L
⌈	Ti	49	1643.635	0.00	2.9098	0.502	17.255	ug/L
|	V	51	6811.964	0.01	0.5052	0.018	3.650	ug/L
|	Cr	52	9085.885	0.00	0.1602	0.038	23.431	ug/L
|	Cr	53	533.401	-0.00	0.0043	0.088	2018.374	ug/L
|	Mn	55	136586.938	0.30	12.1748	0.214	1.760	ug/L
|	Co	59	1654.820	0.00	0.1557	0.003	1.887	ug/L
|	Ni	60	403.679	0.00	0.1576	0.009	5.747	ug/L
|	Cu	65	500.018	0.00	0.2002	0.005	2.577	ug/L
|	Zn	66	3413.617	0.01	2.4145	0.022	0.927	ug/L
| >	Ge	72	459320.897	459320.90				ug/L
|	As	75	90.609	0.00	0.2576	0.044	17.093	ug/L
|	Se	77	54.667	-0.00	-0.2543	0.093	36.633	ug/L
|	Se	82	-4.026	-0.00	-0.1674	0.063	37.764	ug/L
⌊	Rb	85	481.350	0.00				mg/L
	Y	89	281633.241	-9063.95				ug/L
	Rh	103	7.000	-1.33				ug/L
⌈	Mo	98	74.270	0.00	0.0460	0.005	10.155	ug/L
|	Ag	107	25.667	0.00	-0.0121	0.001	10.862	ug/L
|	Cd	114	3.878	0.00	0.0231	0.001	5.355	ug/L
| >	In	115	354545.440	354545.44				ug/L
|	Sn	118	162.001	0.00	0.0240	0.004	14.982	ug/L
⌊	Sb	123	320.628	0.00	0.0888	0.010	11.405	ug/L
⌈	Ba	135	5570.608	0.01	4.2648	0.176	4.127	ug/L
|	Ce	140	22965.307	0.05				ug/L
⌊>	Tb	159	487947.420	487947.42				ug/L
⌈	Ho	165	226.692	0.00				ug/L
|	Tl	203	37.667	0.00	-0.0010	0.001	129.741	ug/L
|	Tl	205	76.675	0.00	-0.0085	0.000	4.211	ug/L
|	Pb	206	1779.176	0.00	0.2489	0.001	0.460	ug/L
|	Pb	207	1549.469	0.00	0.2332	0.008	3.315	ug/L
|	Pb	208	7185.094	0.01	0.2493	0.003	1.353	ug/L
|	U	238	15179.665	0.03	0.3832	0.007	1.917	ug/L
⌊>	Bi	209	487930.338	487930.34				ug/L

Approved: February 28, 2011

⌈	Na	23	67171546.464	232.75	13.5522	0.812	5.994	mg/L
|	Mg	24	127872.888	0.44	0.0389	0.004	9.149	mg/L
|	K	39	770308.220	0.79	0.0335	0.007	22.386	mg/L
|	Ca	43	4514.806	0.02	0.2583	0.014	5.603	mg/L
|	Fe	54	82378.488	0.14	0.0779	0.008	10.604	mg/L
|	Fe	57	23503.269	0.06	0.0768	0.007	9.559	mg/L
⌊>	Sc-1	45	288943.894	288943.89				mg/L
	Cl	35	146941.199	127156.31				mg/L
	Kr	83	41.334	5.33				mg/L
	Br	81	6600.846	-559.72				mg/L
	P	31	12373.653	2250.52				mg/L
	S	34	181109.524	-20656.98				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.783			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.903			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.456			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.194			
⌈	Na	23					

Sample ID: L1102050610SDL WG357487-02
Report Date/Time: Friday, February 25, 2011 16:26:38
Page 2

Approved: February 28, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102050610SDL WG357487-02
Report Date/Time: Friday, February 25, 2011 16:26:38
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 25, 2011 16:31:12
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21456.393	0.01				ug/L
|	Be	9	14105.282	0.05	49.3635	1.206	2.443	ug/L
|	Al	27	284920.454	0.92	49.7210	1.597	3.212	ug/L
⌊>	Sc	45	307558.203	307558.20				ug/L
⌈	Ti	49	58553.518	0.12	104.3902	4.431	4.244	ug/L
|	V	51	451422.584	0.95	50.2680	0.465	0.925	ug/L
|	Cr	52	382271.994	0.79	50.7929	0.327	0.643	ug/L
|	Cr	53	43769.988	0.09	49.3317	1.693	3.431	ug/L
|	Mn	55	582896.548	1.24	51.1637	0.795	1.554	ug/L
|	Co	59	465926.570	0.99	50.4854	1.119	2.217	ug/L
|	Ni	60	98253.392	0.21	51.3248	0.134	0.262	ug/L
|	Cu	65	100535.520	0.21	50.4824	0.562	1.112	ug/L
|	Zn	66	59845.807	0.13	50.1342	0.927	1.849	ug/L
| >	Ge	72	470165.653	470165.65				ug/L
|	As	75	44839.155	0.10	49.7171	0.323	0.650	ug/L
|	Se	77	3251.196	0.01	49.3039	1.719	3.487	ug/L
|	Se	82	4017.141	0.01	49.1919	1.260	2.562	ug/L
⌊	Rb	85	1623.481	0.00				mg/L
	Y	89	281165.947	-9531.24				ug/L
	Rh	103	23.667	15.33				ug/L
⌈	Mo	98	201521.997	0.55	101.4699	0.946	0.932	ug/L
|	Ag	107	200541.311	0.55	49.5912	0.708	1.428	ug/L
|	Cd	114	48382.344	0.13	49.9045	1.817	3.641	ug/L
| >	In	115	364445.320	364445.32				ug/L
|	Sn	118	168788.169	0.46	49.9763	0.478	0.957	ug/L
⌊	Sb	123	167469.273	0.46	50.2922	0.737	1.466	ug/L
⌈	Ba	135	69303.745	0.14	51.2432	0.717	1.398	ug/L
|	Ce	140	40.004	0.00				ug/L
⌊>	Tb	159	504427.443	504427.44				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	325804.277	0.64	50.3454	1.104	2.192	ug/L
|	Tl	205	812663.357	1.60	51.6072	1.009	1.954	ug/L
|	Pb	206	267135.593	0.53	51.4099	0.646	1.258	ug/L
|	Pb	207	250767.749	0.49	51.1505	0.885	1.730	ug/L
|	Pb	208	1114403.867	2.19	51.0337	0.672	1.317	ug/L
|	U	238	2053642.858	4.05	50.3902	0.594	1.180	ug/L
⌊>	Bi	209	507572.357	507572.36				ug/L

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 16:33:25
Page 1

Approved: February 28, 2011

Na	23	25767085.816	83.44	4.8611	0.109	2.244	mg/L	
Mg	24	16320905.737	53.07	4.9542	0.037	0.754	mg/L	
K	39	41437904.886	132.84	4.9707	0.069	1.384	mg/L	
Ca	43	87940.524	0.29	4.8750	0.120	2.455	mg/L	
Fe	54	2915089.443	9.34	4.9496	0.133	2.680	mg/L	
Fe	57	1173635.840	3.79	4.8829	0.147	3.020	mg/L	
> Sc-1	45	307558.203	307558.20				mg/L	
Cl	35	23539.675	3754.79				mg/L	
Kr	83	45.001	9.00				mg/L	
Br	81	6249.286	-911.28				mg/L	
P	31	10771.810	648.67				mg/L	
S	34	201835.301	68.80				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	100.536				
Cr	52	101.586				
Cr	53					
Mn	55	102.327				
Co	59	100.971				
Ni	60	102.650				
Cu	65	100.965				
Zn	66	100.268				
> Ge	72		101.116			
As	75	99.434				
Se	77					
Se	82	98.384				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.182				
Cd	114	99.809				
> In	115		101.665			
Sn	118					
Sb	123	100.584				
Ba	135	102.486				
Ce	140					
> Tb	159		100.748			
Ho	165					
Tl	203	100.691				
Tl	205					
Pb	206					
Pb	207					
Pb	208	102.067				
U	238	100.780				
> Bi	209		99.026			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 16:33:25

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 16:33:25

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 25, 2011 16:38:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20738.223	0.01				ug/L
|	Be	9	2.000	-0.00	0.0449	0.008	16.722	ug/L
|	Al	27	1616.816	0.00	-0.0576	0.140	243.708	ug/L
⌊>	Sc	45	286343.479	286343.48				ug/L
⌈	Ti	49	83.342	0.00	0.0605	0.046	75.907	ug/L
|	V	51	2093.681	-0.00	-0.0341	0.014	42.388	ug/L
|	Cr	52	7187.988	-0.00	-0.0975	0.029	29.448	ug/L
|	Cr	53	306.702	-0.00	-0.2582	0.014	5.457	ug/L
|	Mn	55	332.676	-0.00	-0.0986	0.000	0.296	ug/L
|	Co	59	81.334	-0.00	-0.0189	0.001	5.485	ug/L
|	Ni	60	44.667	-0.00	-0.0344	0.007	19.205	ug/L
|	Cu	65	109.668	0.00	-0.0003	0.007	2262.508	ug/L
|	Zn	66	432.347	-0.00	-0.1670	0.049	29.332	ug/L
|>	Ge	72	456605.823	456605.82				ug/L
|	As	75	-115.335	-0.00	0.0236	0.044	187.230	ug/L
|	Se	77	43.333	-0.00	-0.4298	0.079	18.458	ug/L
|	Se	82	1.974	-0.00	-0.0934	0.222	237.791	ug/L
⌊	Rb	85	13.667	-0.00				mg/L
	Y	89	281567.717	-9129.47				ug/L
	Rh	103	2.667	-5.67				ug/L
⌈	Mo	98	70.088	0.00	0.0438	0.008	17.926	ug/L
|	Ag	107	22.334	0.00	-0.0130	0.001	10.527	ug/L
|	Cd	114	3.611	0.00	0.0228	0.003	13.750	ug/L
|>	In	115	353803.905	353803.90				ug/L
|	Sn	118	172.668	0.00	0.0273	0.005	18.021	ug/L
⌊	Sb	123	81.164	0.00	0.0148	0.002	11.799	ug/L
⌈	Ba	135	11.667	0.00	0.0143	0.002	11.038	ug/L
|	Ce	140	23.336	0.00				ug/L
⌊>	Tb	159	492650.527	492650.53				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	25.334	0.00	-0.0031	0.001	18.254	ug/L
|	Tl	205	66.674	0.00	-0.0092	0.003	29.521	ug/L
|	Pb	206	380.678	0.00	-0.0335	0.004	12.649	ug/L
|	Pb	207	317.008	-0.00	-0.0304	0.001	4.405	ug/L
|	Pb	208	1546.730	0.00	-0.0216	0.001	3.761	ug/L
|	U	238	114.335	0.00	-0.0015	0.000	33.675	ug/L
⌊>	Bi	209	499695.496	499695.50				ug/L

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 16:40:39
Page 1

Approved: February 28, 2011

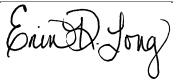
⌈	Na	23	69098.165	-0.11	-0.0021	0.001	27.970	mg/L
|	Mg	24	480.060	0.00	-0.0024	0.000	0.339	mg/L
|	K	39	555563.252	0.05	0.0060	0.001	22.727	mg/L
|	Ca	43	190.021	0.00	0.0024	0.002	81.736	mg/L
|	Fe	54	38281.610	-0.01	-0.0027	0.003	115.572	mg/L
|	Fe	57	6169.190	-0.00	-0.0005	0.001	193.187	mg/L
⌊>	Sc-1	45	286343.479	286343.48				mg/L
	Cl	35	20220.427	435.54				mg/L
	Kr	83	41.334	5.33				mg/L
	Br	81	6260.627	-899.94				mg/L
	P	31	9345.068	-778.07				mg/L
	S	34	194576.983	-7189.52				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.199			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.696			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.396			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.489			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 16:40:39

Approved: February 28, 2011



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 16:40:39

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: PBS 88 WG357299-03

Sample Date/Time: Friday, February 25, 2011 16:45:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 28
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22358.396	0.01				ug/L
|	Be	9	4.000	0.00	0.0514	0.007	13.598	ug/L
|	Al	27	18401.117	0.05	2.8711	0.934	32.533	ug/L
⌊>	Sc	45	308263.072	308263.07				ug/L
⌈	Ti	49	113.345	0.00	0.1141	0.104	91.377	ug/L
|	V	51	2328.227	-0.00	-0.0086	0.019	216.520	ug/L
|	Cr	52	8781.610	0.00	0.1177	0.040	34.188	ug/L
|	Cr	53	323.371	-0.00	-0.2408	0.040	16.813	ug/L
|	Mn	55	1818.184	0.00	0.0350	0.005	12.897	ug/L
|	Co	59	127.002	0.00	-0.0139	0.002	15.918	ug/L
|	Ni	60	114.668	0.00	0.0028	0.004	128.909	ug/L
|	Cu	65	492.017	0.00	0.1960	0.003	1.704	ug/L
|	Zn	66	2614.368	0.00	1.7213	0.013	0.783	ug/L
| >	Ge	72	459432.428	459432.43				ug/L
|	As	75	-122.368	-0.00	0.0165	0.076	461.427	ug/L
|	Se	77	52.667	-0.00	-0.2858	0.259	90.578	ug/L
|	Se	82	5.971	-0.00	-0.0432	0.320	740.268	ug/L
⌊	Rb	85	39.667	0.00				mg/L
	Y	89	280793.388	-9903.80				ug/L
	Rh	103	6.000	-2.33				ug/L
⌈	Mo	98	110.011	0.00	0.0639	0.007	11.470	ug/L
|	Ag	107	42.667	0.00	-0.0079	0.002	19.945	ug/L
|	Cd	114	4.165	0.00	0.0233	0.001	4.319	ug/L
| >	In	115	357461.934	357461.93				ug/L
|	Sn	118	170.668	0.00	0.0262	0.001	3.986	ug/L
⌊	Sb	123	100.456	0.00	0.0205	0.004	18.158	ug/L
⌈	Ba	135	50.667	0.00	0.0428	0.001	3.029	ug/L
|	Ce	140	123.347	0.00				ug/L
⌊>	Tb	159	506626.269	506626.27				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	18.667	-0.00	-0.0042	0.001	21.903	ug/L
|	Tl	205	46.671	0.00	-0.0106	0.001	12.714	ug/L
|	Pb	206	468.016	0.00	-0.0178	0.009	48.301	ug/L
|	Pb	207	372.011	0.00	-0.0202	0.010	51.369	ug/L
|	Pb	208	1807.083	0.00	-0.0107	0.003	26.320	ug/L
|	U	238	100.668	0.00	-0.0018	0.000	14.736	ug/L
⌊>	Bi	209	507798.133	507798.13				ug/L

Sample ID: PBS 88 WG357299-03
Report Date/Time: Friday, February 25, 2011 16:47:25
Page 1

Approved: February 28, 2011

⌈	Na	23	109608.478	0.01	0.0046	0.001	13.215	mg/L
|	Mg	24	7496.895	0.02	-0.0003	0.000	25.303	mg/L
|	K	39	566394.191	-0.05	0.0022	0.001	65.451	mg/L
|	Ca	43	253.362	0.00	0.0051	0.002	40.844	mg/L
|	Fe	54	74471.021	0.10	0.0545	0.002	3.001	mg/L
|	Fe	57	7116.578	0.00	0.0015	0.001	91.421	mg/L
⌊>	Sc-1	45	308263.072	308263.07				mg/L
	Cl	35	22135.815	2350.93				mg/L
	Kr	83	41.667	5.67				mg/L
	Br	81	6889.041	-271.52				mg/L
	P	31	16104.334	5981.20				mg/L
	S	34	190858.916	-10907.59				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.807			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.717			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.187			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.070			
⌈	Na	23					

Sample ID: PBS 88 WG357299-03
Report Date/Time: Friday, February 25, 2011 16:47:25
Page 2

Approved: February 28, 2011

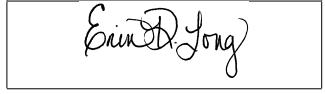
Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 88 WG357299-03
Report Date/Time: Friday, February 25, 2011 16:47:25
Page 3

Approved: February 28, 2011



Method 6020 - Summary Report

Sample ID: LCSS 88 WG357299-04

Sample Date/Time: Friday, February 25, 2011 16:52:00
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22024.381	0.01				ug/L
|	Be	9	6977.102	0.02	24.4050	0.770	3.156	ug/L
|	Al	27	145213.648	0.47	25.1370	0.993	3.949	ug/L
⌊>	Sc	45	308006.212	308006.21				ug/L
⌈	Ti	49	86.676	0.00	0.0670	0.076	113.209	ug/L
|	V	51	236965.661	0.51	26.9959	0.338	1.253	ug/L
|	Cr	52	205208.790	0.43	27.5376	0.778	2.826	ug/L
|	Cr	53	23636.933	0.05	27.1067	0.672	2.477	ug/L
|	Mn	55	304151.937	0.66	27.3880	0.709	2.590	ug/L
|	Co	59	243413.444	0.53	27.1078	0.779	2.875	ug/L
|	Ni	60	50171.048	0.11	26.9131	0.250	0.929	ug/L
|	Cu	65	51740.031	0.11	26.6763	0.145	0.542	ug/L
|	Zn	66	31269.124	0.07	26.6712	0.294	1.103	ug/L
|>	Ge	72	457412.028	457412.03				ug/L
|	As	75	21711.835	0.05	24.8233	0.186	0.750	ug/L
|	Se	77	1527.450	0.00	23.2429	0.864	3.716	ug/L
|	Se	82	1861.162	0.00	23.3625	0.149	0.638	ug/L
⌊	Rb	85	24.667	0.00				mg/L
	Y	89	279647.692	-11049.50				ug/L
	Rh	103	11.000	2.67				ug/L
⌈	Mo	98	43.603	0.00	0.0293	0.002	5.494	ug/L
|	Ag	107	97138.823	0.27	23.9135	0.238	0.997	ug/L
|	Cd	114	24398.621	0.07	25.0671	1.145	4.566	ug/L
|>	In	115	365927.910	365927.91				ug/L
|	Sn	118	126.401	0.00	0.0120	0.002	16.802	ug/L
⌊	Sb	123	83516.692	0.23	24.9708	0.254	1.019	ug/L
⌈	Ba	135	35660.175	0.07	26.1948	0.451	1.721	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	507815.359	507815.36				ug/L
⌈	Ho	165	13.335	0.00				ug/L
|	Tl	203	165663.896	0.33	25.6177	0.294	1.149	ug/L
|	Tl	205	405266.687	0.80	25.7546	0.528	2.049	ug/L
|	Pb	206	142521.726	0.28	27.4033	0.073	0.267	ug/L
|	Pb	207	125815.468	0.25	25.6441	0.371	1.448	ug/L
|	Pb	208	583865.511	1.15	26.7186	0.182	0.682	ug/L
|	U	238	1060716.587	2.09	26.0488	0.076	0.293	ug/L
⌊>	Bi	209	507112.460	507112.46				ug/L

Sample ID: LCSS 88 WG357299-04
Report Date/Time: Friday, February 25, 2011 16:54:12
Page 1

Approved: February 28, 2011

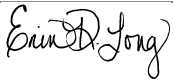
⌈	Na	23	79973.275	-0.09	-0.0010	0.000	5.158	mg/L
|	Mg	24	2767.327	0.01	-0.0017	0.000	1.748	mg/L
|	K	39	555609.458	-0.08	0.0009	0.001	97.701	mg/L
|	Ca	43	226.692	0.00	0.0036	0.003	85.876	mg/L
|	Fe	54	73207.094	0.10	0.0524	0.005	10.274	mg/L
|	Fe	57	6699.587	-0.00	-0.0002	0.002	767.547	mg/L
⌊>	Sc-1	45	308006.212	308006.21				mg/L
	Cl	35	27452.305	7667.42				mg/L
	Kr	83	42.667	6.67				mg/L
	Br	81	6550.813	-609.75				mg/L
	P	31	15885.287	5762.15				mg/L
	S	34	193022.819	-8743.69				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.373			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.078			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.424			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.936			
⌈	Na	23					

Sample ID: LCSS 88 WG357299-04
Report Date/Time: Friday, February 25, 2011 16:54:12
Page 2

Approved: February 28, 2011



	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 88 WG357299-04
Report Date/Time: Friday, February 25, 2011 16:54:12
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102031801

Sample Date/Time: Friday, February 25, 2011 16:58:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 30
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21372.972	0.01				ug/L
|	Be	9	53.333	0.00	0.2267	0.025	11.134	ug/L
|	Al	27	11950370.076	39.48	2133.9767	47.291	2.216	ug/L
⌊>	Sc	45	302697.765	302697.77				ug/L
⌈	Ti	49	82235.081	0.18	151.6209	4.366	2.880	ug/L
|	V	51	118282.443	0.25	13.4215	0.342	2.550	ug/L
|	Cr	52	163967.872	0.34	21.9188	0.438	1.998	ug/L
|	Cr	53	18412.135	0.04	21.1123	1.199	5.680	ug/L
|	Mn	55	2706065.433	5.95	246.1511	4.060	1.649	ug/L
|	Co	59	65046.582	0.14	7.2659	0.113	1.554	ug/L
|	Ni	60	69378.953	0.15	37.4660	0.753	2.011	ug/L
|	Cu	65	23513.200	0.05	12.1667	0.406	3.336	ug/L
|	Zn	66	224431.193	0.49	195.9698	4.431	2.261	ug/L
|>	Ge	72	454606.280	454606.28				ug/L
|	As	75	1241.902	0.00	1.5748	0.088	5.582	ug/L
|	Se	77	63.334	0.00	-0.1082	0.348	321.886	ug/L
|	Se	82	28.563	0.00	0.2456	0.171	69.611	ug/L
⌊	Rb	85	4996.632	0.01				mg/L
	Y	89	308036.090	17338.90				ug/L
	Rh	103	262.673	254.34				ug/L
⌈	Mo	98	142.354	0.00	0.0834	0.003	4.187	ug/L
|	Ag	107	170.336	0.00	0.0260	0.002	8.472	ug/L
|	Cd	114	193.594	0.00	0.2303	0.007	2.962	ug/L
|>	In	115	344178.680	344178.68				ug/L
|	Sn	118	275.604	0.00	0.0611	0.004	7.100	ug/L
⌊	Sb	123	149.331	0.00	0.0372	0.004	11.646	ug/L
⌈	Ba	135	30317.190	0.06	23.9028	0.138	0.578	ug/L
|	Ce	140	108880.493	0.23				ug/L
⌊>	Tb	159	473149.897	473149.90				ug/L
⌈	Ho	165	2587.261	0.01				ug/L
|	Tl	203	94.668	0.00	0.0084	0.004	42.375	ug/L
|	Tl	205	253.362	0.00	0.0035	0.003	78.820	ug/L
|	Pb	206	67938.200	0.14	13.7764	0.581	4.217	ug/L
|	Pb	207	59556.789	0.12	12.8009	0.304	2.374	ug/L
|	Pb	208	276121.351	0.57	13.3304	0.377	2.829	ug/L
|	U	238	16952.878	0.04	0.4366	0.022	5.008	ug/L
⌊>	Bi	209	479075.151	479075.15				ug/L

Sample ID: L1102031801
Report Date/Time: Friday, February 25, 2011 17:00:59
Page 1

Approved: February 28, 2011

Erin D. Long

⌈	Na	23	3234606.020	10.34	0.6059	0.018	2.900	mg/L
|	Mg	24	20320018.100	67.13	6.2681	0.075	1.200	mg/L
|	K	39	3921670.239	11.07	0.4180	0.006	1.534	mg/L
|	Ca	43	1681544.649	5.56	94.8901	1.404	1.479	mg/L
|	Fe	54	4334579.335	14.18	7.5168	0.080	1.062	mg/L
|	Fe	57	1854688.255	6.11	7.8580	0.111	1.419	mg/L
⌊>	Sc-1	45	302697.765	302697.77				mg/L
	Cl	35	26604.682	6819.79				mg/L
	Kr	83	50.334	14.33				mg/L
	Br	81	10998.713	3838.15				mg/L
	P	31	246955.507	236832.37				mg/L
	S	34	218972.433	17205.93				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.769			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.011			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.501			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.466			
⌈	Na	23					

Sample ID: L1102031801
Report Date/Time: Friday, February 25, 2011 17:00:59
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Zn 66 Upper, S, EEE	Zn	66	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102031802

Sample Date/Time: Friday, February 25, 2011 17:05:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 31
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19719.514	0.00				ug/L
|	Be	9	48.667	0.00	0.2096	0.017	8.272	ug/L
|	Al	27	13816384.292	45.53	2460.8624	126.308	5.133	ug/L
⌊>	Sc	45	303661.420	303661.42				ug/L
⌈	Ti	49	83697.232	0.19	155.3840	3.353	2.158	ug/L
|	V	51	143941.571	0.31	16.5085	0.338	2.048	ug/L
|	Cr	52	190830.000	0.40	25.8789	0.767	2.964	ug/L
|	Cr	53	21742.476	0.05	25.2216	1.265	5.016	ug/L
|	Mn	55	3338346.000	7.39	305.8310	7.057	2.307	ug/L
|	Co	59	80111.472	0.18	9.0187	0.186	2.063	ug/L
|	Ni	60	69384.270	0.15	37.7349	0.845	2.240	ug/L
|	Cu	65	25157.191	0.06	13.1124	0.150	1.143	ug/L
|	Zn	66	74446.862	0.16	65.1042	1.336	2.052	ug/L
|>	Ge	72	451469.408	451469.41				ug/L
|	As	75	1166.062	0.00	1.4968	0.119	7.974	ug/L
|	Se	77	78.667	0.00	0.1483	0.063	42.689	ug/L
|	Se	82	32.282	0.00	0.2939	0.353	120.138	ug/L
⌊	Rb	85	6156.957	0.01				mg/L
	Y	89	320063.449	29366.26				ug/L
	Rh	103	228.005	219.67				ug/L
⌈	Mo	98	113.161	0.00	0.0689	0.008	11.199	ug/L
|	Ag	107	207.671	0.00	0.0368	0.006	16.628	ug/L
|	Cd	114	158.364	0.00	0.1949	0.015	7.512	ug/L
|>	In	115	338034.132	338034.13				ug/L
|	Sn	118	157.468	0.00	0.0250	0.004	17.326	ug/L
⌊	Sb	123	167.707	0.00	0.0440	0.002	3.473	ug/L
⌈	Ba	135	37152.940	0.08	29.7388	0.381	1.281	ug/L
|	Ce	140	141532.840	0.30				ug/L
⌊>	Tb	159	466011.041	466011.04				ug/L
⌈	Ho	165	3607.678	0.01				ug/L
|	Tl	203	85.001	0.00	0.0069	0.001	11.433	ug/L
|	Tl	205	240.027	0.00	0.0027	0.006	205.070	ug/L
|	Pb	206	80938.161	0.17	16.5387	0.367	2.217	ug/L
|	Pb	207	69772.656	0.15	15.1111	0.292	1.932	ug/L
|	Pb	208	325263.893	0.68	15.8214	0.267	1.687	ug/L
|	U	238	16931.160	0.04	0.4388	0.007	1.594	ug/L
⌊>	Bi	209	475929.581	475929.58				ug/L

Sample ID: L1102031802
Report Date/Time: Friday, February 25, 2011 17:07:46
Page 1

Approved: February 28, 2011

⌈	Na	23	3095312.157	9.85	0.5776	0.019	3.365	mg/L
|	Mg	24	19791833.448	65.21	6.0880	0.125	2.061	mg/L
|	K	39	4992914.572	14.57	0.5486	0.019	3.498	mg/L
|	Ca	43	1611416.208	5.31	90.6960	3.365	3.710	mg/L
|	Fe	54	4448583.972	14.52	7.6972	0.307	3.992	mg/L
|	Fe	57	1850158.206	6.07	7.8166	0.242	3.090	mg/L
⌊>	Sc-1	45	303661.420	303661.42				mg/L
	Cl	35	30916.398	11131.51				mg/L
	Kr	83	44.334	8.33				mg/L
	Br	81	12595.265	5434.70				mg/L
	P	31	264916.985	254793.85				mg/L
	S	34	205766.699	4000.19				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.095			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.297			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.075			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.852			
⌈	Na	23					

Sample ID: L1102031802
Report Date/Time: Friday, February 25, 2011 17:07:46
Page 2

Approved: February 28, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102031803

Sample Date/Time: Friday, February 25, 2011 17:12:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 32
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20704.847	0.00				ug/L
|	Be	9	66.000	0.00	0.2649	0.026	9.828	ug/L
|	Al	27	19616422.699	62.73	3390.5956	127.882	3.772	ug/L
⌊>	Sc	45	312993.730	312993.73				ug/L
⌈	Ti	49	114445.888	0.25	210.8704	3.929	1.863	ug/L
|	V	51	220699.211	0.48	25.2619	0.726	2.874	ug/L
|	Cr	52	278592.483	0.59	37.9856	1.215	3.198	ug/L
|	Cr	53	32355.527	0.07	37.5417	1.795	4.781	ug/L
|	Mn	55	4947578.583	10.87	449.7588	4.070	0.905	ug/L
|	Co	59	120068.868	0.26	13.4253	0.257	1.913	ug/L
|	Ni	60	86857.458	0.19	46.8872	1.032	2.200	ug/L
|	Cu	65	31695.470	0.07	16.4085	0.391	2.381	ug/L
|	Zn	66	122726.550	0.27	106.8324	2.275	2.130	ug/L
| >	Ge	72	455027.353	455027.35				ug/L
|	As	75	1236.689	0.00	1.5675	0.016	1.037	ug/L
|	Se	77	77.334	0.00	0.1159	0.192	165.413	ug/L
|	Se	82	29.893	0.00	0.2631	0.126	47.794	ug/L
⌊	Rb	85	8266.832	0.02				mg/L
	Y	89	343149.279	52452.09				ug/L
	Rh	103	278.673	270.34				ug/L
⌈	Mo	98	127.426	0.00	0.0766	0.001	1.347	ug/L
|	Ag	107	301.674	0.00	0.0618	0.006	9.707	ug/L
|	Cd	114	201.962	0.00	0.2434	0.019	7.934	ug/L
| >	In	115	338208.309	338208.31				ug/L
|	Sn	118	275.470	0.00	0.0626	0.004	6.467	ug/L
⌊	Sb	123	150.872	0.00	0.0385	0.001	3.855	ug/L
⌈	Ba	135	51880.773	0.11	40.7108	0.428	1.051	ug/L
|	Ce	140	215989.091	0.45				ug/L
⌊>	Tb	159	475385.653	475385.65				ug/L
⌈	Ho	165	5622.143	0.01				ug/L
|	Tl	203	111.668	0.00	0.0112	0.002	19.132	ug/L
|	Tl	205	270.031	0.00	0.0046	0.001	17.045	ug/L
|	Pb	206	87686.314	0.18	17.8009	0.174	0.977	ug/L
|	Pb	207	77385.804	0.16	16.6559	0.568	3.407	ug/L
|	Pb	208	360398.972	0.75	17.4189	0.311	1.784	ug/L
|	U	238	20730.342	0.04	0.5345	0.015	2.751	ug/L
⌊>	Bi	209	479317.181	479317.18				ug/L

Sample ID: L1102031803
Report Date/Time: Friday, February 25, 2011 17:14:34
Page 1

Approved: February 28, 2011

⌈	Na	23	3677179.438	11.41	0.6684	0.027	3.989	mg/L
|	Mg	24	23057523.695	73.72	6.8831	0.198	2.876	mg/L
|	K	39	7046241.148	20.65	0.7760	0.030	3.859	mg/L
|	Ca	43	1820605.298	5.82	99.3839	3.434	3.455	mg/L
|	Fe	54	6536643.899	20.76	11.0049	0.422	3.836	mg/L
|	Fe	57	2742215.649	8.75	11.2576	0.478	4.245	mg/L
⌊>	Sc-1	45	312993.730	312993.73				mg/L
	Cl	35	93293.921	73509.03				mg/L
	Kr	83	50.667	14.67				mg/L
	Br	81	11375.133	4214.57				mg/L
	P	31	305509.273	295386.14				mg/L
	S	34	210163.779	8397.27				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.860			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.346			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.947			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.513			
⌈	Na	23					

Sample ID: L1102031803
Report Date/Time: Friday, February 25, 2011 17:14:34
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Zn 66 Upper, S, EEE	Zn	66	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102031804

Sample Date/Time: Friday, February 25, 2011 17:19:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 33
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19686.084	0.01				ug/L
|	Be	9	14.667	0.00	0.0943	0.012	12.617	ug/L
|	Al	27	4167009.358	14.92	806.4248	58.145	7.210	ug/L
⌊>	Sc	45	279992.643	279992.64				ug/L
⌈	Ti	49	26317.236	0.06	50.6370	1.423	2.809	ug/L
|	V	51	46786.651	0.10	5.3856	0.058	1.076	ug/L
|	Cr	52	122261.239	0.26	16.8343	0.274	1.628	ug/L
|	Cr	53	13517.150	0.03	16.0476	0.243	1.514	ug/L
|	Mn	55	1300277.081	2.99	123.5339	0.420	0.340	ug/L
|	Co	59	44718.210	0.10	5.2125	0.032	0.620	ug/L
|	Ni	60	114484.447	0.26	64.6496	0.112	0.174	ug/L
|	Cu	65	7237.359	0.02	3.8741	0.102	2.638	ug/L
|	Zn	66	13438.828	0.03	11.7530	0.238	2.024	ug/L
|>	Ge	72	435030.465	435030.46				ug/L
|	As	75	1790.155	0.00	2.2935	0.058	2.522	ug/L
|	Se	77	50.000	-0.00	-0.2847	0.171	59.940	ug/L
|	Se	82	18.954	0.00	0.1341	0.106	79.429	ug/L
⌊	Rb	85	2179.926	0.00				mg/L
	Y	89	290618.193	-79.00				ug/L
	Rh	103	487.017	478.68				ug/L
⌈	Mo	98	261.207	0.00	0.1549	0.009	5.901	ug/L
|	Ag	107	86.668	0.00	0.0054	0.006	118.219	ug/L
|	Cd	114	34.420	0.00	0.0587	0.010	17.353	ug/L
|>	In	115	324944.059	324944.06				ug/L
|	Sn	118	78.267	0.00	0.0007	0.002	338.468	ug/L
⌊	Sb	123	81.994	0.00	0.0173	0.001	3.698	ug/L
⌈	Ba	135	7668.683	0.02	6.3174	0.206	3.255	ug/L
|	Ce	140	48190.730	0.11				ug/L
⌊>	Tb	159	453348.867	453348.87				ug/L
⌈	Ho	165	1360.229	0.00				ug/L
|	Tl	203	75.668	0.00	0.0059	0.002	25.867	ug/L
|	Tl	205	200.022	0.00	0.0006	0.002	360.910	ug/L
|	Pb	206	9945.044	0.02	2.0225	0.060	2.964	ug/L
|	Pb	207	8669.847	0.02	1.8718	0.073	3.894	ug/L
|	Pb	208	40096.489	0.08	1.9498	0.038	1.928	ug/L
|	U	238	27673.187	0.06	0.7500	0.017	2.229	ug/L
⌊>	Bi	209	456977.979	456977.98				ug/L

Sample ID: L1102031804
Report Date/Time: Friday, February 25, 2011 17:21:22
Page 1

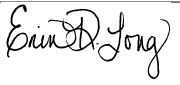
Approved: February 28, 2011

⌈	Na	23	6343309.558	22.34	1.3048	0.052	3.949	mg/L
|	Mg	24	40566090.349	145.07	13.5478	0.451	3.332	mg/L
|	K	39	1964272.759	5.15	0.1965	0.017	8.578	mg/L
|	Ca	43	2766502.884	9.91	169.2468	11.699	6.913	mg/L
|	Fe	54	2187137.461	7.69	4.0777	0.268	6.569	mg/L
|	Fe	57	1003886.645	3.57	4.5987	0.299	6.505	mg/L
⌊>	Sc-1	45	279992.643	279992.64				mg/L
	Cl	35	31022.714	11237.83				mg/L
	Kr	83	43.667	7.67				mg/L
	Br	81	7292.661	132.10				mg/L
	P	31	85462.364	75339.23				mg/L
	S	34	225691.160	23924.65				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.559			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.646			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.546			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.155			
⌈	Na	23					

Approved: February 28, 2011



| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102031805

Sample Date/Time: Friday, February 25, 2011 17:25:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 34
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20437.586	-0.00				ug/L
|	Be	9	105.334	0.00	0.3802	0.048	12.704	ug/L
|	Al	27	51036423.526	154.67	8360.5597	503.777	6.026	ug/L
⌊>	Sc	45	330284.515	330284.51				ug/L
⌈	Ti	49	117380.052	0.26	219.3317	6.393	2.915	ug/L
|	V	51	200969.503	0.44	23.3026	1.206	5.174	ug/L
|	Cr	52	376159.758	0.82	52.4076	2.332	4.449	ug/L
|	Cr	53	43164.001	0.09	50.9807	1.564	3.067	ug/L
|	Mn	55	5613188.170	12.51	517.4691	16.250	3.140	ug/L
|	Co	59	77546.412	0.17	8.7824	0.204	2.318	ug/L
|	Ni	60	60854.705	0.14	33.2871	1.074	3.225	ug/L
|	Cu	65	20934.110	0.05	10.9684	0.277	2.524	ug/L
|	Zn	66	72198.208	0.16	63.5062	1.599	2.518	ug/L
|>	Ge	72	448705.666	448705.67				ug/L
|	As	75	4665.541	0.01	5.5594	0.158	2.838	ug/L
|	Se	77	65.334	0.00	-0.0586	0.389	664.099	ug/L
|	Se	82	37.879	0.00	0.3703	0.080	21.492	ug/L
⌊	Rb	85	22978.602	0.05				mg/L
	Y	89	347664.546	56967.36				ug/L
	Rh	103	211.004	202.67				ug/L
⌈	Mo	98	176.903	0.00	0.1034	0.010	9.410	ug/L
|	Ag	107	804.374	0.00	0.1957	0.010	5.218	ug/L
|	Cd	114	303.795	0.00	0.3563	0.012	3.355	ug/L
|>	In	115	338264.021	338264.02				ug/L
|	Sn	118	471.478	0.00	0.1251	0.005	3.990	ug/L
⌊	Sb	123	69.532	0.00	0.0122	0.002	16.676	ug/L
⌈	Ba	135	61564.960	0.13	48.9505	1.468	2.999	ug/L
|	Ce	140	240682.949	0.51				ug/L
⌊>	Tb	159	469157.945	469157.94				ug/L
⌈	Ho	165	5095.148	0.01				ug/L
|	Tl	203	314.341	0.00	0.0442	0.003	6.248	ug/L
|	Tl	205	746.770	0.00	0.0364	0.009	24.781	ug/L
|	Pb	206	203734.487	0.42	41.3247	0.989	2.392	ug/L
|	Pb	207	177170.479	0.37	38.0760	0.956	2.511	ug/L
|	Pb	208	827690.220	1.72	39.9463	0.945	2.367	ug/L
|	U	238	28613.844	0.06	0.7360	0.012	1.583	ug/L
⌊>	Bi	209	481429.776	481429.78				ug/L

Sample ID: L1102031805
Report Date/Time: Friday, February 25, 2011 17:28:10
Page 1

Approved: February 28, 2011

⌈	Na	23	2979323.996	8.68	0.5094	0.029	5.760	mg/L
|	Mg	24	15727829.828	47.64	4.4475	0.200	4.503	mg/L
|	K	39	5188129.200	13.83	0.5210	0.014	2.685	mg/L
|	Ca	43	1505950.870	4.56	77.8834	1.347	1.730	mg/L
|	Fe	54	8110478.028	24.43	12.9478	0.626	4.837	mg/L
|	Fe	57	3296848.166	9.97	12.8256	0.670	5.225	mg/L
⌊>	Sc-1	45	330284.515	330284.51				mg/L
	Cl	35	57633.610	37848.72				mg/L
	Kr	83	52.334	16.33				mg/L
	Br	81	16866.214	9705.65				mg/L
	P	31	474452.755	464329.62				mg/L
	S	34	203901.832	2135.33				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.500			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.361			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.704			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.925			
⌈	Na	23					

Sample ID: L1102031805
Report Date/Time: Friday, February 25, 2011 17:28:10

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102031806

Sample Date/Time: Friday, February 25, 2011 17:32:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 35
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19920.074	-0.01				ug/L
|	Be	9	112.667	0.00	0.3659	0.046	12.472	ug/L
|	Al	27	25004314.484	67.66	3657.5753	105.113	2.874	ug/L
⌊>	Sc	45	369732.917	369732.92				ug/L
⌈	Ti	49	23673.713	0.05	41.6509	1.460	3.506	ug/L
|	V	51	381142.000	0.80	41.9106	0.285	0.679	ug/L
|	Cr	52	273606.450	0.56	35.6190	0.885	2.484	ug/L
|	Cr	53	32034.458	0.07	35.5182	1.269	3.574	ug/L
|	Mn	55	9176237.379	19.30	798.2196	19.984	2.504	ug/L
|	Co	59	278787.203	0.59	29.8597	0.999	3.345	ug/L
|	Ni	60	37892.037	0.08	19.5335	0.268	1.371	ug/L
|	Cu	65	20815.525	0.04	10.2876	0.295	2.870	ug/L
|	Zn	66	31891.102	0.07	26.1516	0.629	2.407	ug/L
| >	Ge	72	475576.454	475576.45				ug/L
|	As	75	100.358	0.00	0.2647	0.043	16.305	ug/L
|	Se	77	87.334	0.00	0.2178	0.262	120.308	ug/L
|	Se	82	38.548	0.00	0.3510	0.051	14.533	ug/L
⌊	Rb	85	11793.406	0.02				mg/L
	Y	89	382054.292	91357.10				ug/L
	Rh	103	16.000	7.67				ug/L
⌈	Mo	98	95.494	0.00	0.0562	0.011	18.838	ug/L
|	Ag	107	268.340	0.00	0.0487	0.006	13.174	ug/L
|	Cd	114	41.492	0.00	0.0623	0.006	9.980	ug/L
| >	In	115	359241.752	359241.75				ug/L
|	Sn	118	84.134	0.00	-0.0000	0.004	15318.515	ug/L
⌊	Sb	123	34.662	-0.00	0.0003	0.001	516.806	ug/L
⌈	Ba	135	53720.454	0.11	40.4687	0.890	2.199	ug/L
|	Ce	140	418854.232	0.85				ug/L
⌊>	Tb	159	495275.791	495275.79				ug/L
⌈	Ho	165	7960.638	0.02				ug/L
|	Tl	203	99.335	0.00	0.0082	0.001	6.375	ug/L
|	Tl	205	193.355	0.00	-0.0014	0.002	129.565	ug/L
|	Pb	206	12105.120	0.02	2.2132	0.070	3.178	ug/L
|	Pb	207	10338.112	0.02	2.0051	0.024	1.212	ug/L
|	Pb	208	48263.797	0.09	2.1085	0.021	1.019	ug/L
|	U	238	5412.520	0.01	0.1278	0.003	2.167	ug/L
⌊>	Bi	209	510363.019	510363.02				ug/L

Sample ID: L1102031806
Report Date/Time: Friday, February 25, 2011 17:34:55
Page 1

Approved: February 28, 2011

⌈	Na	23	816323.284	1.86	0.1125	0.008	6.765	mg/L
|	Mg	24	5575083.317	15.09	1.4073	0.072	5.152	mg/L
|	K	39	3445976.690	7.44	0.2823	0.014	4.928	mg/L
|	Ca	43	38685.249	0.10	1.7794	0.075	4.242	mg/L
|	Fe	54	8467564.474	22.79	12.0783	0.672	5.565	mg/L
|	Fe	57	3376421.458	9.12	11.7413	0.769	6.547	mg/L
⌊>	Sc-1	45	369732.917	369732.92				mg/L
	Cl	35	43799.085	24014.20				mg/L
	Kr	83	52.001	16.00				mg/L
	Br	81	14940.501	7779.94				mg/L
	P	31	95683.665	85560.53				mg/L
	S	34	186501.572	-15264.93				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.279			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.213			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.920			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.570			
⌈	Na	23					

Sample ID: L1102031806
Report Date/Time: Friday, February 25, 2011 17:34:55
Page 2

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102031806PS WG357404-01

Sample Date/Time: Friday, February 25, 2011 17:39:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 36
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20771.741	-0.01				ug/L
|	Be	9	14457.112	0.04	40.8499	1.114	2.727	ug/L
|	Al	27	25566389.633	67.13	3628.7130	224.440	6.185	ug/L
⌊>	Sc	45	381146.511	381146.51				ug/L
⌈	Ti	49	23847.482	0.05	41.7372	1.837	4.401	ug/L
|	V	51	840989.782	1.75	92.3098	0.976	1.057	ug/L
|	Cr	52	663898.235	1.37	87.5207	1.816	2.075	ug/L
|	Cr	53	76526.052	0.16	85.2415	2.042	2.396	ug/L
|	Mn	55	9845705.229	20.59	851.8753	20.875	2.451	ug/L
|	Co	59	765116.003	1.60	81.5526	1.082	1.327	ug/L
|	Ni	60	140008.782	0.29	71.9444	1.106	1.538	ug/L
|	Cu	65	125375.077	0.26	61.9138	1.103	1.782	ug/L
|	Zn	66	96027.535	0.20	79.4050	1.267	1.595	ug/L
|>	Ge	72	478144.787	478144.79				ug/L
|	As	75	49108.005	0.10	53.5286	0.816	1.525	ug/L
|	Se	77	3814.061	0.01	57.0606	1.089	1.909	ug/L
|	Se	82	4424.570	0.01	53.2861	1.768	3.318	ug/L
⌊	Rb	85	11604.513	0.02				mg/L
	Y	89	381276.134	90578.94				ug/L
	Rh	103	28.334	20.00				ug/L
⌈	Mo	98	82.270	0.00	0.0493	0.004	7.110	ug/L
|	Ag	107	202109.459	0.56	50.4473	0.515	1.020	ug/L
|	Cd	114	50775.921	0.14	52.8544	0.822	1.555	ug/L
|>	In	115	361048.105	361048.10				ug/L
|	Sn	118	266.537	0.00	0.0544	0.001	2.712	ug/L
⌊	Sb	123	174989.112	0.48	53.0433	0.446	0.842	ug/L
⌈	Ba	135	124135.340	0.25	94.3424	0.767	0.813	ug/L
|	Ce	140	413358.654	0.84				ug/L
⌊>	Tb	159	490785.928	490785.93				ug/L
⌈	Ho	165	7877.222	0.02				ug/L
|	Tl	203	326329.021	0.65	50.9020	0.875	1.720	ug/L
|	Tl	205	821265.029	1.63	52.6458	1.097	2.085	ug/L
|	Pb	206	291916.950	0.58	56.7314	0.269	0.475	ug/L
|	Pb	207	252144.846	0.50	51.9270	0.590	1.137	ug/L
|	Pb	208	1176363.800	2.34	54.3946	0.587	1.079	ug/L
|	U	238	2035656.107	4.05	50.4328	0.807	1.599	ug/L
⌊>	Bi	209	502734.625	502734.63				ug/L

Sample ID: L1102031806PS WG357404-01
Report Date/Time: Friday, February 25, 2011 17:41:40
Page 1

Approved: February 28, 2011

⌈	Na	23	800227.513	1.75	0.1061	0.005	5.063	mg/L
|	Mg	24	5477015.462	14.38	1.3406	0.068	5.088	mg/L
|	K	39	3465655.147	7.21	0.2736	0.009	3.334	mg/L
|	Ca	43	38012.575	0.10	1.6951	0.048	2.856	mg/L
|	Fe	54	8346338.826	21.76	11.5348	0.205	1.777	mg/L
|	Fe	57	3478276.543	9.11	11.7211	0.372	3.174	mg/L
⌊>	Sc-1	45	381146.511	381146.51				mg/L
	Cl	35	41900.265	22115.38				mg/L
	Kr	83	55.001	19.00				mg/L
	Br	81	14086.582	6926.02				mg/L
	P	31	94491.274	84368.14				mg/L
	S	34	186990.277	-14776.23				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.832			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.717			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.023			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.082			
⌈	Na	23					

Sample ID: L1102031806PS WG357404-01
Report Date/Time: Friday, February 25, 2011 17:41:40

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102031806SDL WG357404-02

Sample Date/Time: Friday, February 25, 2011 17:46:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 37
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19602.551	0.00				ug/L
|	Be	9	22.000	0.00	0.1163	0.045	38.853	ug/L
|	Al	27	5173349.708	17.13	925.8276	49.680	5.366	ug/L
⌊>	Sc	45	302234.889	302234.89				ug/L
⌈	Ti	49	4851.668	0.01	8.4155	0.812	9.654	ug/L
|	V	51	76751.140	0.16	8.1708	0.081	0.989	ug/L
|	Cr	52	59445.424	0.11	6.8303	0.082	1.195	ug/L
|	Cr	53	6419.372	0.01	6.5831	0.449	6.822	ug/L
|	Mn	55	1872805.249	3.91	161.8732	3.306	2.043	ug/L
|	Co	59	56155.466	0.12	5.9577	0.094	1.575	ug/L
|	Ni	60	7800.788	0.02	3.9525	0.168	4.245	ug/L
|	Cu	65	4228.270	0.01	2.0323	0.051	2.500	ug/L
|	Zn	66	8193.771	0.02	6.2754	0.105	1.670	ug/L
| >	Ge	72	478305.064	478305.06				ug/L
|	As	75	-93.554	0.00	0.0536	0.039	72.416	ug/L
|	Se	77	45.333	-0.00	-0.4311	0.023	5.328	ug/L
|	Se	82	3.594	-0.00	-0.0734	0.147	200.815	ug/L
⌊	Rb	85	2403.980	0.00				mg/L
	Y	89	308882.446	18185.26				ug/L
	Rh	103	4.667	-3.67				ug/L
⌈	Mo	98	16.160	0.00	0.0157	0.001	9.331	ug/L
|	Ag	107	76.334	0.00	0.0005	0.004	721.897	ug/L
|	Cd	114	7.380	0.00	0.0266	0.015	55.150	ug/L
| >	In	115	358552.908	358552.91				ug/L
|	Sn	118	51.067	-0.00	-0.0100	0.003	28.699	ug/L
⌊	Sb	123	287.793	0.00	0.0776	0.009	11.155	ug/L
⌈	Ba	135	10791.931	0.02	8.2924	0.301	3.629	ug/L
|	Ce	140	84124.637	0.17				ug/L
⌊>	Tb	159	485820.355	485820.36				ug/L
⌈	Ho	165	1526.937	0.00				ug/L
|	Tl	203	79.334	0.00	0.0053	0.003	52.298	ug/L
|	Tl	205	186.687	0.00	-0.0016	0.002	130.078	ug/L
|	Pb	206	2618.369	0.00	0.4007	0.016	4.051	ug/L
|	Pb	207	2222.270	0.00	0.3614	0.030	8.216	ug/L
|	Pb	208	10611.361	0.02	0.3969	0.016	3.934	ug/L
|	U	238	1097.071	0.00	0.0228	0.000	1.339	ug/L
⌊>	Bi	209	503863.555	503863.55				ug/L

Sample ID: L1102031806SDL WG357404-02
Report Date/Time: Friday, February 25, 2011 17:48:25
Page 1

Approved: February 28, 2011

⌈	Na	23	197807.359	0.31	0.0220	0.001	5.739	mg/L
|	Mg	24	1178909.648	3.90	0.3619	0.010	2.745	mg/L
|	K	39	1143819.166	1.90	0.0751	0.006	7.446	mg/L
|	Ca	43	7196.645	0.02	0.3981	0.026	6.528	mg/L
|	Fe	54	1714527.380	5.53	2.9344	0.081	2.748	mg/L
|	Fe	57	690669.090	2.26	2.9138	0.063	2.146	mg/L
⌊>	Sc-1	45	302234.889	302234.89				mg/L
	Cl	35	21326.054	1541.17				mg/L
	Kr	83	46.667	10.67				mg/L
	Br	81	8026.553	865.99				mg/L
	P	31	22257.412	12134.27				mg/L
	S	34	164138.156	-37628.35				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.866			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.021			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.031			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.302			
⌈	Na	23					

Sample ID: L1102031806SDL WG357404-02
Report Date/Time: Friday, February 25, 2011 17:48:25
Page 2

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1102031806SDL WG357404-02
Report Date/Time: Friday, February 25, 2011 17:48:25
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 25, 2011 17:53:00
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19101.689	0.00				ug/L
|	Be	9	13238.777	0.05	48.5262	2.952	6.083	ug/L
|	Al	27	275168.693	0.93	50.3324	3.152	6.263	ug/L
⌊>	Sc	45	293928.829	293928.83				ug/L
⌈	Ti	49	59086.628	0.13	107.8560	2.701	2.504	ug/L
|	V	51	450252.438	0.98	51.3506	0.782	1.522	ug/L
|	Cr	52	380460.190	0.81	51.7888	0.585	1.130	ug/L
|	Cr	53	44653.980	0.10	51.5504	1.005	1.950	ug/L
|	Mn	55	583690.379	1.27	52.4773	0.926	1.765	ug/L
|	Co	59	469161.832	1.02	52.0732	1.076	2.067	ug/L
|	Ni	60	98123.728	0.21	52.4950	0.330	0.628	ug/L
|	Cu	65	99104.676	0.22	50.9587	0.290	0.569	ug/L
|	Zn	66	59204.673	0.13	50.7960	0.949	1.869	ug/L
| >	Ge	72	459122.177	459122.18				ug/L
|	As	75	45062.378	0.10	51.1653	0.675	1.320	ug/L
|	Se	77	3329.888	0.01	51.7862	0.851	1.644	ug/L
|	Se	82	3990.438	0.01	50.0531	1.573	3.143	ug/L
⌊	Rb	85	1622.148	0.00				mg/L
	Y	89	279113.987	-11583.20				ug/L
	Rh	103	19.334	11.00				ug/L
⌈	Mo	98	201230.589	0.59	107.4339	1.425	1.326	ug/L
|	Ag	107	198909.534	0.58	52.1515	0.348	0.666	ug/L
|	Cd	114	46204.100	0.13	50.5274	0.681	1.348	ug/L
| >	In	115	343715.816	343715.82				ug/L
|	Sn	118	165165.613	0.48	51.8504	0.374	0.722	ug/L
⌊	Sb	123	165587.357	0.48	52.7231	0.261	0.495	ug/L
⌈	Ba	135	68190.743	0.14	52.8304	0.385	0.729	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	481472.029	481472.03				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	307093.712	0.62	48.9577	0.381	0.778	ug/L
|	Tl	205	757239.560	1.54	49.6065	0.765	1.543	ug/L
|	Pb	206	255510.879	0.52	50.7328	0.179	0.352	ug/L
|	Pb	207	239112.343	0.49	50.3234	0.670	1.331	ug/L
|	Pb	208	1071864.406	2.18	50.6460	0.208	0.410	ug/L
|	U	238	1971821.147	4.01	49.9200	0.286	0.572	ug/L
⌊>	Bi	209	491949.431	491949.43				ug/L

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 17:55:12
Page 1

Approved: February 28, 2011

⌈	Na	23	24989727.856	84.77	4.9384	0.229	4.642	mg/L
|	Mg	24	15865157.838	54.04	5.0454	0.229	4.539	mg/L
|	K	39	40181948.321	134.95	5.0498	0.174	3.436	mg/L
|	Ca	43	89440.452	0.30	5.1956	0.258	4.968	mg/L
|	Fe	54	2909472.495	9.77	5.1778	0.186	3.601	mg/L
|	Fe	57	1189584.034	4.03	5.1859	0.204	3.943	mg/L
⌊>	Sc-1	45	293928.829	293928.83				mg/L
	Cl	35	17763.768	-2021.12				mg/L
	Kr	83	48.001	12.00				mg/L
	Br	81	6315.994	-844.57				mg/L
	P	31	8756.517	-1366.62				mg/L
	S	34	187881.320	-13885.18				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	102.701				
|	Cr	52	103.578				
|	Cr	53					
|	Mn	55	104.955				
|	Co	59	104.146				
|	Ni	60	104.990				
|	Cu	65	101.917				
|	Zn	66	101.592				
|>	Ge	72		98.741			
|	As	75	102.331				
|	Se	77					
|	Se	82	100.106				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	104.303				
|	Cd	114	101.055				
|>	In	115		95.882			
|	Sn	118					
⌊	Sb	123	105.446				
⌈	Ba	135	105.661				
|	Ce	140					
⌊>	Tb	159		96.163			
⌈	Ho	165					
|	Tl	203	97.915				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	101.292				
|	U	238	99.840				
⌊>	Bi	209		95.978			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 17:55:12
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 17:55:12

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 25, 2011 18:00:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

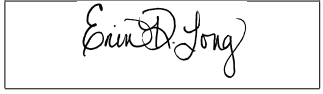
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19118.625	-0.00				ug/L
|	Be	9	4.000	0.00	0.0517	0.008	14.599	ug/L
|	Al	27	1716.815	0.00	-0.0583	0.048	81.998	ug/L
|>	Sc	45	306393.854	306393.85				ug/L
⌈	Ti	49	53.339	-0.00	0.0023	0.038	1666.011	ug/L
|	V	51	2152.961	-0.00	-0.0359	0.015	40.896	ug/L
|	Cr	52	7225.015	-0.00	-0.1277	0.027	21.110	ug/L
|	Cr	53	233.360	-0.00	-0.3544	0.073	20.517	ug/L
|	Mn	55	340.009	-0.00	-0.0990	0.001	1.455	ug/L
|	Co	59	82.335	-0.00	-0.0191	0.001	7.318	ug/L
|	Ni	60	43.001	-0.00	-0.0362	0.002	6.795	ug/L
|	Cu	65	105.002	0.00	-0.0046	0.003	66.145	ug/L
|	Zn	66	455.015	-0.00	-0.1613	0.026	16.066	ug/L
|>	Ge	72	473176.614	473176.61				ug/L
|	As	75	-122.687	-0.00	0.0205	0.051	246.328	ug/L
|	Se	77	58.000	-0.00	-0.2298	0.236	102.538	ug/L
|	Se	82	3.690	-0.00	-0.0713	0.145	202.823	ug/L
⌊	Rb	85	16.667	0.00				mg/L
	Y	89	286148.088	-4549.10				ug/L
	Rh	103	7.667	-0.67				ug/L
⌈	Mo	98	66.677	0.00	0.0417	0.004	9.149	ug/L
|	Ag	107	22.667	0.00	-0.0129	0.001	4.620	ug/L
|	Cd	114	-0.484	-0.00	0.0184	0.002	12.506	ug/L
|>	In	115	357702.439	357702.44				ug/L
|	Sn	118	137.601	0.00	0.0162	0.001	6.751	ug/L
⌊	Sb	123	121.415	0.00	0.0269	0.003	12.524	ug/L
⌈	Ba	135	7.667	-0.00	0.0113	0.002	21.374	ug/L
|	Ce	140	20.002	0.00				ug/L
|>	Tb	159	495015.142	495015.14				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	31.667	0.00	-0.0022	0.000	17.888	ug/L
|	Tl	205	50.005	0.00	-0.0104	0.001	6.110	ug/L
|	Pb	206	390.012	0.00	-0.0339	0.003	9.524	ug/L
|	Pb	207	354.343	0.00	-0.0248	0.005	19.387	ug/L
|	Pb	208	1623.069	0.00	-0.0202	0.003	12.999	ug/L
|	U	238	114.668	0.00	-0.0015	0.000	4.740	ug/L
|>	Bi	209	514599.576	514599.58				ug/L

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 18:02:27
Page 1

Approved: February 28, 2011



⌈	Na	23	40238.150	-0.22	-0.0085	0.000	3.688	mg/L
|	Mg	24	493.395	0.00	-0.0024	0.000	0.839	mg/L
|	K	39	559913.515	-0.06	0.0019	0.002	128.477	mg/L
|	Ca	43	173.352	0.00	0.0008	0.003	361.397	mg/L
|	Fe	54	40486.156	-0.01	-0.0035	0.003	80.795	mg/L
|	Fe	57	5858.971	-0.00	-0.0036	0.000	11.237	mg/L
⌊>	Sc-1	45	306393.854	306393.85				mg/L
	Cl	35	16666.545	-3118.34				mg/L
	Kr	83	35.667	-0.33				mg/L
	Br	81	6315.997	-844.57				mg/L
	P	31	9014.081	-1109.06				mg/L
	S	34	189604.744	-12161.76				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.763			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.784			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.868			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.397			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 18:02:27
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 18:02:27

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102031807

Sample Date/Time: Friday, February 25, 2011 18:07:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23026.676	-0.01				ug/L
|	Be	9	160.001	0.00	0.4564	0.037	8.056	ug/L
|	Al	27	45134634.462	109.80	5935.1781	104.974	1.769	ug/L
⌊>	Sc	45	411133.131	411133.13				ug/L
⌈	Ti	49	201952.408	0.42	351.7123	7.368	2.095	ug/L
|	V	51	588287.180	1.22	64.0427	0.828	1.293	ug/L
|	Cr	52	509043.654	1.04	66.3776	1.017	1.532	ug/L
|	Cr	53	58332.193	0.12	64.3693	1.371	2.130	ug/L
|	Mn	55	9997529.106	20.77	859.0277	11.994	1.396	ug/L
|	Co	59	269050.816	0.56	28.4610	0.170	0.596	ug/L
|	Ni	60	52179.651	0.11	26.5923	0.512	1.925	ug/L
|	Cu	65	41461.547	0.09	20.2956	0.451	2.224	ug/L
|	Zn	66	58642.717	0.12	47.9423	0.582	1.215	ug/L
| >	Ge	72	481463.526	481463.53				ug/L
|	As	75	333.931	0.00	0.5158	0.035	6.755	ug/L
|	Se	77	100.001	0.00	0.3928	0.266	67.776	ug/L
|	Se	82	75.210	0.00	0.7853	0.163	20.712	ug/L
⌊	Rb	85	22600.403	0.05				mg/L
	Y	89	395093.223	104396.03				ug/L
	Rh	103	22.000	13.67				ug/L
⌈	Mo	98	106.239	0.00	0.0623	0.001	2.301	ug/L
|	Ag	107	518.352	0.00	0.1128	0.001	0.921	ug/L
|	Cd	114	83.121	0.00	0.1068	0.021	20.017	ug/L
| >	In	115	355340.438	355340.44				ug/L
|	Sn	118	108.934	0.00	0.0078	0.001	7.446	ug/L
⌊	Sb	123	64.036	0.00	0.0094	0.003	29.603	ug/L
⌈	Ba	135	78305.538	0.16	58.5506	1.353	2.310	ug/L
|	Ce	140	444449.222	0.89				ug/L
⌊>	Tb	159	498916.740	498916.74				ug/L
⌈	Ho	165	8978.263	0.02				ug/L
|	Tl	203	130.002	0.00	0.0128	0.001	3.960	ug/L
|	Tl	205	326.705	0.00	0.0069	0.003	45.781	ug/L
|	Pb	206	30603.744	0.06	5.7190	0.041	0.722	ug/L
|	Pb	207	26550.476	0.05	5.2609	0.048	0.909	ug/L
|	Pb	208	122774.575	0.24	5.4675	0.033	0.595	ug/L
|	U	238	7741.074	0.02	0.1833	0.006	3.131	ug/L
⌊>	Bi	209	514144.470	514144.47				ug/L

Sample ID: L1102031807
Report Date/Time: Friday, February 25, 2011 18:09:12
Page 1

Approved: February 28, 2011

⌈	Na	23	986688.897	2.05	0.1236	0.004	3.028	mg/L
|	Mg	24	8313367.041	20.23	1.8868	0.058	3.051	mg/L
|	K	39	7180958.730	15.58	0.5867	0.012	2.084	mg/L
|	Ca	43	85553.166	0.21	3.5473	0.173	4.864	mg/L
|	Fe	54	15075736.233	36.54	19.3646	0.372	1.923	mg/L
|	Fe	57	6124794.754	14.88	19.1470	0.332	1.732	mg/L
⌊>	Sc-1	45	411133.131	411133.13				mg/L
	Cl	35	46745.043	26960.16				mg/L
	Kr	83	52.667	16.67				mg/L
	Br	81	31779.088	24618.52				mg/L
	P	31	153104.577	142981.44				mg/L
	S	34	186341.502	-15425.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.545			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.125			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.647			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.308			
⌈	Na	23					

Sample ID: L1102031807
Report Date/Time: Friday, February 25, 2011 18:09:12

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102031808 WG357299-01

Sample Date/Time: Friday, February 25, 2011 18:13:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 39
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21489.813	-0.00				ug/L
|	Be	9	138.001	0.00	0.4446	0.061	13.723	ug/L
|	Al	27	37562679.241	103.07	5571.5147	209.058	3.752	ug/L
⌊>	Sc	45	364648.905	364648.91				ug/L
⌈	Ti	49	83340.826	0.18	151.7681	2.661	1.754	ug/L
|	V	51	348497.273	0.75	39.5782	0.428	1.082	ug/L
|	Cr	52	353382.692	0.75	47.8983	0.082	0.172	ug/L
|	Cr	53	39371.359	0.08	45.2597	1.481	3.273	ug/L
|	Mn	55	8639480.024	18.77	776.4785	14.127	1.819	ug/L
|	Co	59	686798.238	1.49	76.0411	0.256	0.337	ug/L
|	Ni	60	75564.245	0.16	40.3061	0.438	1.087	ug/L
|	Cu	65	29875.550	0.06	15.2805	0.305	1.994	ug/L
|	Zn	66	81371.616	0.18	69.8251	0.698	0.999	ug/L
|>	Ge	72	460284.229	460284.23				ug/L
|	As	75	1385.165	0.00	1.7185	0.106	6.161	ug/L
|	Se	77	101.334	0.00	0.4844	0.175	36.089	ug/L
|	Se	82	41.189	0.00	0.3997	0.087	21.861	ug/L
⌊	Rb	85	25008.155	0.05				mg/L
	Y	89	368116.295	77419.11				ug/L
	Rh	103	140.669	132.34				ug/L
⌈	Mo	98	143.276	0.00	0.0842	0.002	2.398	ug/L
|	Ag	107	19413.688	0.06	5.0885	0.019	0.374	ug/L
|	Cd	114	139.140	0.00	0.1714	0.024	14.075	ug/L
|>	In	115	342689.527	342689.53				ug/L
|	Sn	118	142.934	0.00	0.0197	0.004	21.482	ug/L
⌊	Sb	123	67.535	0.00	0.0113	0.005	45.192	ug/L
⌈	Ba	135	66242.719	0.14	51.4785	0.782	1.519	ug/L
|	Ce	140	378381.606	0.79				ug/L
⌊>	Tb	159	479994.079	479994.08				ug/L
⌈	Ho	165	7453.526	0.02				ug/L
|	Tl	203	156.003	0.00	0.0176	0.002	12.667	ug/L
|	Tl	205	360.043	0.00	0.0098	0.004	37.333	ug/L
|	Pb	206	31867.033	0.06	6.1730	0.122	1.979	ug/L
|	Pb	207	27935.246	0.06	5.7392	0.082	1.426	ug/L
|	Pb	208	130111.649	0.26	6.0082	0.120	2.001	ug/L
|	U	238	15482.469	0.03	0.3839	0.001	0.232	ug/L
⌊>	Bi	209	496699.118	496699.12				ug/L

Sample ID: L1102031808 WG357299-01
Report Date/Time: Friday, February 25, 2011 18:15:59
Page 1

Approved: February 28, 2011

⌈	Na	23	2101906.572	5.42	0.3195	0.009	2.732	mg/L
|	Mg	24	12764336.658	35.02	3.2681	0.083	2.530	mg/L
|	K	39	8613859.004	21.75	0.8171	0.024	2.994	mg/L
|	Ca	43	896276.624	2.46	41.9941	1.416	3.371	mg/L
|	Fe	54	9670704.734	26.40	13.9919	0.584	4.171	mg/L
|	Fe	57	3982314.792	10.90	14.0333	0.421	3.000	mg/L
⌊>	Sc-1	45	364648.905	364648.91				mg/L
	Cl	35	44635.411	24850.52				mg/L
	Kr	83	55.001	19.00				mg/L
	Br	81	21416.244	14255.68				mg/L
	P	31	420938.802	410815.66				mg/L
	S	34	208076.973	6310.47				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.991			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.596			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.868			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.904			
⌈	Na	23					

Sample ID: L1102031808 WG357299-01
Report Date/Time: Friday, February 25, 2011 18:15:59
Page 2

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102031809S WG357299-05

Sample Date/Time: Friday, February 25, 2011 18:20:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 40
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20688.406	-0.00				ug/L
|	Be	9	1405.432	0.00	4.4453	0.230	5.185	ug/L
|	Al	27	21326737.081	62.18	3361.2414	83.962	2.498	ug/L
⌊>	Sc	45	342913.901	342913.90				ug/L
⌈	Ti	49	34977.892	0.08	63.7330	0.195	0.307	ug/L
|	V	51	291400.395	0.63	33.1005	0.412	1.245	ug/L
|	Cr	52	242568.132	0.51	32.5846	0.288	0.883	ug/L
|	Cr	53	27370.147	0.06	31.3299	0.743	2.370	ug/L
|	Mn	55	6532181.966	14.21	587.9397	7.801	1.327	ug/L
|	Co	59	195350.372	0.42	21.6413	0.190	0.880	ug/L
|	Ni	60	50272.899	0.11	26.8378	0.198	0.739	ug/L
|	Cu	65	25835.270	0.06	13.2292	0.404	3.053	ug/L
|	Zn	66	43390.366	0.09	37.0395	0.246	0.664	ug/L
| >	Ge	72	459583.626	459583.63				ug/L
|	As	75	3037.829	0.01	3.5905	0.144	4.005	ug/L
|	Se	77	220.669	0.00	2.3809	0.370	15.533	ug/L
|	Se	82	195.190	0.00	2.3340	0.035	1.487	ug/L
⌊	Rb	85	15716.832	0.03				mg/L
	Y	89	352673.151	61975.96				ug/L
	Rh	103	90.001	81.67				ug/L
⌈	Mo	98	97.604	0.00	0.0589	0.002	3.785	ug/L
|	Ag	107	15421.706	0.04	3.9702	0.090	2.257	ug/L
|	Cd	114	4622.184	0.01	5.0024	0.168	3.364	ug/L
| >	In	115	348588.698	348588.70				ug/L
|	Sn	118	161.201	0.00	0.0246	0.003	13.698	ug/L
⌊	Sb	123	614.895	0.00	0.1828	0.003	1.508	ug/L
⌈	Ba	135	55395.581	0.11	42.4339	0.829	1.955	ug/L
|	Ce	140	286944.502	0.59				ug/L
⌊>	Tb	159	486984.884	486984.88				ug/L
⌈	Ho	165	5992.401	0.01				ug/L
|	Tl	203	29020.684	0.06	4.5190	0.055	1.209	ug/L
|	Tl	205	71606.092	0.14	4.5767	0.131	2.865	ug/L
|	Pb	206	49055.543	0.10	9.4412	0.197	2.091	ug/L
|	Pb	207	43460.008	0.09	8.8685	0.084	0.953	ug/L
|	Pb	208	201289.016	0.40	9.2279	0.071	0.774	ug/L
|	U	238	202012.614	0.40	4.9990	0.049	0.986	ug/L
⌊>	Bi	209	502889.523	502889.52				ug/L

Sample ID: L1102031809S WG357299-05
Report Date/Time: Friday, February 25, 2011 18:22:45
Page 1

Approved: February 28, 2011

⌈	Na	23	1353383.280	3.60	0.2136	0.004	1.765	mg/L
|	Mg	24	7803079.361	22.75	2.1229	0.014	0.669	mg/L
|	K	39	5926815.723	15.40	0.5797	0.015	2.511	mg/L
|	Ca	43	559522.716	1.63	27.8592	0.092	0.330	mg/L
|	Fe	54	5808610.942	16.80	8.9034	0.126	1.420	mg/L
|	Fe	57	2359045.011	6.86	8.8248	0.048	0.539	mg/L
⌊>	Sc-1	45	342913.901	342913.90				mg/L
	Cl	35	27109.363	7324.48				mg/L
	Kr	83	55.334	19.33				mg/L
	Br	81	13958.406	6797.84				mg/L
	P	31	232943.609	222820.47				mg/L
	S	34	203791.108	2024.60				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.840			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.241			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.264			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.112			
⌈	Na	23					

Sample ID: L1102031809S WG357299-05
Report Date/Time: Friday, February 25, 2011 18:22:45
Page 2

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1102031809S WG357299-05
Report Date/Time: Friday, February 25, 2011 18:22:45
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102031810SD WG357299-06

Sample Date/Time: Friday, February 25, 2011 18:27:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 41
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21440.064	-0.00				ug/L
|	Be	9	1419.435	0.00	4.4996	0.471	10.472	ug/L
|	Al	27	28738099.402	83.91	4535.8617	205.705	4.535	ug/L
⌊>	Sc	45	342570.246	342570.25				ug/L
⌈	Ti	49	66027.263	0.14	120.3151	3.967	3.297	ug/L
|	V	51	321543.122	0.69	36.5243	0.466	1.275	ug/L
|	Cr	52	294584.649	0.62	39.7755	0.295	0.741	ug/L
|	Cr	53	33930.872	0.07	38.9503	0.523	1.342	ug/L
|	Mn	55	6054053.968	13.16	544.4853	9.447	1.735	ug/L
|	Co	59	177551.314	0.39	19.6539	0.467	2.374	ug/L
|	Ni	60	60423.276	0.13	32.2435	0.244	0.756	ug/L
|	Cu	65	29613.415	0.06	15.1602	0.292	1.924	ug/L
|	Zn	66	57608.038	0.12	49.3146	0.446	0.904	ug/L
| >	Ge	72	459961.941	459961.94				ug/L
|	As	75	4232.752	0.01	4.9376	0.100	2.026	ug/L
|	Se	77	290.671	0.00	3.4887	0.302	8.662	ug/L
|	Se	82	319.639	0.00	3.8925	0.253	6.512	ug/L
⌊	Rb	85	20166.183	0.04				mg/L
	Y	89	347240.112	56542.92				ug/L
	Rh	103	96.668	88.33				ug/L
⌈	Mo	98	105.864	0.00	0.0635	0.007	11.352	ug/L
|	Ag	107	15053.808	0.04	3.8951	0.067	1.731	ug/L
|	Cd	114	4551.074	0.01	4.9507	0.168	3.392	ug/L
| >	In	115	346780.226	346780.23				ug/L
|	Sn	118	123.201	0.00	0.0130	0.003	21.720	ug/L
⌊	Sb	123	414.006	0.00	0.1204	0.006	4.986	ug/L
⌈	Ba	135	56167.218	0.12	43.0721	0.278	0.646	ug/L
|	Ce	140	283114.836	0.58				ug/L
⌊>	Tb	159	486446.548	486446.55				ug/L
⌈	Ho	165	5788.924	0.01				ug/L
|	Tl	203	29273.418	0.06	4.5765	0.072	1.573	ug/L
|	Tl	205	73029.676	0.15	4.6865	0.075	1.599	ug/L
|	Pb	206	52599.844	0.10	10.1705	0.082	0.806	ug/L
|	Pb	207	46174.179	0.09	9.4651	0.147	1.552	ug/L
|	Pb	208	213604.727	0.42	9.8364	0.060	0.607	ug/L
|	U	238	199494.881	0.40	4.9559	0.063	1.271	ug/L
⌊>	Bi	209	500930.012	500930.01				ug/L

Sample ID: L1102031810SD WG357299-06
Report Date/Time: Friday, February 25, 2011 18:29:32
Page 1

Approved: February 28, 2011

Erin D. Long

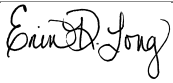
⌈	Na	23	1493587.820	4.01	0.2377	0.006	2.630	mg/L
|	Mg	24	8674159.602	25.32	2.3629	0.048	2.052	mg/L
|	K	39	6485229.170	17.05	0.6414	0.007	1.014	mg/L
|	Ca	43	583180.382	1.70	29.0714	0.342	1.175	mg/L
|	Fe	54	7741457.156	22.47	11.9095	0.511	4.290	mg/L
|	Fe	57	3092217.524	9.01	11.5902	0.166	1.433	mg/L
⌊>	Sc-1	45	342570.246	342570.25				mg/L
	Cl	35	33658.567	13873.68				mg/L
	Kr	83	42.667	6.67				mg/L
	Br	81	17863.275	10702.71				mg/L
	P	31	272723.243	262600.11				mg/L
	S	34	200477.373	-1289.13				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.921			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.737			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.157			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.730			
⌈	Na	23					

Sample ID: L1102031810SD WG357299-06
Report Date/Time: Friday, February 25, 2011 18:29:32
Page 2

Approved: February 28, 2011



| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1102031810SD WG357299-06
Report Date/Time: Friday, February 25, 2011 18:29:32
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102057103S WG357299-07

Sample Date/Time: Friday, February 25, 2011 18:34:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 42
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21807.233	-0.00				ug/L
|	Be	9	1430.769	0.00	4.4924	0.388	8.637	ug/L
|	Al	27	30970340.708	89.55	4840.3690	218.363	4.511	ug/L
⌊>	Sc	45	345882.886	345882.89				ug/L
⌈	Ti	49	22130.009	0.05	38.1283	0.906	2.376	ug/L
|	V	51	253799.722	0.52	27.2341	0.095	0.349	ug/L
|	Cr	52	112532.473	0.21	13.6880	0.181	1.320	ug/L
|	Cr	53	12732.707	0.02	13.4467	0.095	0.703	ug/L
|	Mn	55	2145012.886	4.42	182.6230	2.238	1.225	ug/L
|	Co	59	63414.739	0.13	6.6294	0.028	0.423	ug/L
|	Ni	60	15270.805	0.03	7.6744	0.147	1.909	ug/L
|	Cu	65	17910.873	0.04	8.6601	0.168	1.943	ug/L
|	Zn	66	47164.102	0.10	38.1196	0.439	1.152	ug/L
| >	Ge	72	485615.534	485615.53				ug/L
|	As	75	3337.277	0.01	3.7264	0.155	4.157	ug/L
|	Se	77	160.001	0.00	1.2810	0.155	12.118	ug/L
|	Se	82	145.968	0.00	1.6184	0.160	9.866	ug/L
⌊	Rb	85	29867.172	0.06				mg/L
	Y	89	295647.975	4950.79				ug/L
	Rh	103	6.000	-2.33				ug/L
⌈	Mo	98	109.828	0.00	0.0628	0.004	6.524	ug/L
|	Ag	107	17771.622	0.05	4.3797	0.080	1.817	ug/L
|	Cd	114	5133.396	0.01	5.3146	0.181	3.404	ug/L
| >	In	115	364304.348	364304.35				ug/L
|	Sn	118	176.802	0.00	0.0271	0.002	7.016	ug/L
⌊	Sb	123	1602.597	0.00	0.4713	0.012	2.528	ug/L
⌈	Ba	135	22493.173	0.05	17.0164	0.554	3.257	ug/L
|	Ce	140	148391.186	0.30				ug/L
⌊>	Tb	159	493201.677	493201.68				ug/L
⌈	Ho	165	936.805	0.00				ug/L
|	Tl	203	30839.121	0.06	4.6289	0.020	0.426	ug/L
|	Tl	205	78501.409	0.15	4.8368	0.030	0.615	ug/L
|	Pb	206	57409.564	0.11	10.6624	0.047	0.439	ug/L
|	Pb	207	49501.395	0.09	9.7445	0.090	0.920	ug/L
|	Pb	208	231072.267	0.44	10.2196	0.063	0.617	ug/L
|	U	238	221303.489	0.42	5.2777	0.171	3.245	ug/L
⌊>	Bi	209	521779.710	521779.71				ug/L

Sample ID: L1102057103S WG357299-07
Report Date/Time: Friday, February 25, 2011 18:36:19
Page 1

Approved: February 28, 2011

⌈	Na	23	81102.451	-0.11	-0.0025	0.000	16.930	mg/L
|	Mg	24	712177.832	2.06	0.1898	0.005	2.503	mg/L
|	K	39	2394167.203	5.04	0.1925	0.011	5.752	mg/L
|	Ca	43	2050.416	0.01	0.0923	0.003	3.783	mg/L
|	Fe	54	7647499.761	21.98	11.6504	0.333	2.857	mg/L
|	Fe	57	3037655.701	8.76	11.2769	0.171	1.513	mg/L
⌊>	Sc-1	45	345882.886	345882.89				mg/L
	Cl	35	27051.876	7266.99				mg/L
	Kr	83	42.334	6.33				mg/L
	Br	81	6682.233	-478.33				mg/L
	P	31	44466.047	34342.91				mg/L
	S	34	175143.149	-26623.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.438			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.625			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.506			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.798			
⌈	Na	23					

Sample ID: L1102057103S WG357299-07
Report Date/Time: Friday, February 25, 2011 18:36:19
Page 2

Approved: February 28, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1102057103S WG357299-07
Report Date/Time: Friday, February 25, 2011 18:36:19
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102057104SD WG357299-08

Sample Date/Time: Friday, February 25, 2011 18:40:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 43
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20788.264	-0.01				ug/L
|	Be	9	1470.775	0.00	4.4701	0.431	9.637	ug/L
|	Al	27	36807892.612	103.02	5568.7767	430.439	7.730	ug/L
⌊>	Sc	45	358374.657	358374.66				ug/L
⌈	Ti	49	45698.766	0.09	78.3038	1.016	1.298	ug/L
|	V	51	286239.219	0.58	30.5448	0.519	1.698	ug/L
|	Cr	52	128577.339	0.24	15.6858	0.207	1.321	ug/L
|	Cr	53	14708.951	0.03	15.5251	0.540	3.479	ug/L
|	Mn	55	780903.249	1.60	65.9666	0.804	1.218	ug/L
|	Co	59	55802.840	0.11	5.7920	0.096	1.654	ug/L
|	Ni	60	16054.706	0.03	8.0175	0.124	1.551	ug/L
|	Cu	65	19746.344	0.04	9.4905	0.209	2.205	ug/L
|	Zn	66	35357.417	0.07	28.2499	0.174	0.616	ug/L
|>	Ge	72	488823.572	488823.57				ug/L
|	As	75	3641.912	0.01	4.0269	0.056	1.382	ug/L
|	Se	77	167.335	0.00	1.3740	0.102	7.443	ug/L
|	Se	82	175.329	0.00	1.9527	0.198	10.152	ug/L
⌊	Rb	85	34563.311	0.07				mg/L
	Y	89	296491.889	5794.70				ug/L
	Rh	103	10.000	1.67				ug/L
⌈	Mo	98	105.020	0.00	0.0604	0.007	11.210	ug/L
|	Ag	107	18779.146	0.05	4.6237	0.091	1.972	ug/L
|	Cd	114	5073.713	0.01	5.2461	0.211	4.030	ug/L
|>	In	115	364639.622	364639.62				ug/L
|	Sn	118	173.602	0.00	0.0261	0.004	16.017	ug/L
⌊	Sb	123	2440.066	0.01	0.7222	0.010	1.337	ug/L
⌈	Ba	135	23227.181	0.05	17.4577	0.191	1.094	ug/L
|	Ce	140	131120.440	0.26				ug/L
⌊>	Tb	159	496347.814	496347.81				ug/L
⌈	Ho	165	923.468	0.00				ug/L
|	Tl	203	32360.271	0.06	4.8151	0.034	0.698	ug/L
|	Tl	205	78417.513	0.15	4.7904	0.156	3.258	ug/L
|	Pb	206	50217.674	0.09	9.2321	0.303	3.280	ug/L
|	Pb	207	43132.647	0.08	8.4025	0.153	1.817	ug/L
|	Pb	208	203673.660	0.38	8.9165	0.063	0.702	ug/L
|	U	238	225523.593	0.43	5.3328	0.077	1.445	ug/L
⌊>	Bi	209	526379.742	526379.74				ug/L

Sample ID: L1102057104SD WG357299-08
Report Date/Time: Friday, February 25, 2011 18:43:07
Page 1

Approved: February 28, 2011

⌈	Na	23	56870.285	-0.19	-0.0069	0.000	6.592	mg/L
|	Mg	24	821172.363	2.30	0.2121	0.015	7.201	mg/L
|	K	39	2695515.574	5.65	0.2154	0.016	7.343	mg/L
|	Ca	43	1126.843	0.00	0.0447	0.003	6.889	mg/L
|	Fe	54	8683988.441	24.15	12.7999	0.760	5.937	mg/L
|	Fe	57	3554644.051	9.92	12.7608	0.619	4.847	mg/L
⌊>	Sc-1	45	358374.657	358374.66				mg/L
	Cl	35	17031.830	-2753.06				mg/L
	Kr	83	39.334	3.33				mg/L
	Br	81	6598.177	-562.39				mg/L
	P	31	45561.592	35438.46				mg/L
	S	34	177771.703	-23994.80				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.128			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		101.719			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.134			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.695			
⌈	Na	23					

Sample ID: L1102057104SD WG357299-08
Report Date/Time: Friday, February 25, 2011 18:43:07
Page 2

Approved: February 28, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102057104SD WG357299-08
Report Date/Time: Friday, February 25, 2011 18:43:07
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102057105

Sample Date/Time: Friday, February 25, 2011 18:47:42
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 44
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21573.490	0.00				ug/L
|	Be	9	39.333	0.00	0.1615	0.024	14.819	ug/L
|	Al	27	33660271.778	99.02	5352.7669	225.967	4.221	ug/L
⌊>	Sc	45	340229.340	340229.34				ug/L
⌈	Ti	49	25080.659	0.05	42.6904	2.510	5.880	ug/L
|	V	51	185090.639	0.37	19.5413	0.585	2.996	ug/L
|	Cr	52	69818.669	0.12	7.9615	0.168	2.114	ug/L
|	Cr	53	7483.550	0.01	7.5469	0.296	3.920	ug/L
|	Mn	55	581575.200	1.18	48.8163	0.897	1.838	ug/L
|	Co	59	6301.382	0.01	0.6255	0.015	2.416	ug/L
|	Ni	60	4140.900	0.01	2.0127	0.091	4.543	ug/L
|	Cu	65	6744.008	0.01	3.1851	0.062	1.935	ug/L
|	Zn	66	10850.327	0.02	8.2422	0.221	2.678	ug/L
|>	Ge	72	491602.075	491602.07				ug/L
|	As	75	197.490	0.00	0.3639	0.021	5.891	ug/L
|	Se	77	64.000	-0.00	-0.1731	0.183	105.937	ug/L
|	Se	82	7.731	-0.00	-0.0260	0.054	208.302	ug/L
⌊	Rb	85	28311.328	0.06				mg/L
	Y	89	300502.109	9804.92				ug/L
	Rh	103	4.000	-4.33				ug/L
⌈	Mo	98	74.608	0.00	0.0457	0.007	15.720	ug/L
|	Ag	107	62.334	0.00	-0.0030	0.002	77.622	ug/L
|	Cd	114	56.212	0.00	0.0778	0.011	13.500	ug/L
|>	In	115	358994.513	358994.51				ug/L
|	Sn	118	115.601	0.00	0.0095	0.003	27.782	ug/L
⌊	Sb	123	46.243	0.00	0.0038	0.002	48.601	ug/L
⌈	Ba	135	15021.759	0.03	11.2512	0.082	0.728	ug/L
|	Ce	140	121505.852	0.24				ug/L
⌊>	Tb	159	498171.674	498171.67				ug/L
⌈	Ho	165	880.128	0.00				ug/L
|	Tl	203	372.011	0.00	0.0492	0.003	5.103	ug/L
|	Tl	205	833.452	0.00	0.0382	0.006	15.953	ug/L
|	Pb	206	19870.606	0.04	3.6399	0.143	3.924	ug/L
|	Pb	207	16876.734	0.03	3.2773	0.078	2.373	ug/L
|	Pb	208	79764.481	0.15	3.4857	0.107	3.061	ug/L
|	U	238	20419.708	0.04	0.4858	0.014	2.833	ug/L
⌊>	Bi	209	518989.156	518989.16				ug/L

Sample ID: L1102057105
Report Date/Time: Friday, February 25, 2011 18:49:55
Page 1

Approved: February 28, 2011

⌈	Na	23	65768.842	-0.15	-0.0049	0.000	4.167	mg/L
|	Mg	24	685265.016	2.02	0.1857	0.010	5.196	mg/L
|	K	39	2271251.281	4.79	0.1833	0.008	4.518	mg/L
|	Ca	43	1143.513	0.00	0.0485	0.003	6.249	mg/L
|	Fe	54	6762955.294	19.75	10.4679	0.273	2.606	mg/L
|	Fe	57	2691589.641	7.89	10.1565	0.156	1.538	mg/L
⌊>	Sc-1	45	340229.340	340229.34				mg/L
	Cl	35	16526.981	-3257.91				mg/L
	Kr	83	31.000	-5.00				mg/L
	Br	81	6534.802	-625.76				mg/L
	P	31	37572.470	27449.33				mg/L
	S	34	177556.533	-24209.97				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.726			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.144			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.498			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.253			
⌈	Na	23					

Sample ID: L1102057105
Report Date/Time: Friday, February 25, 2011 18:49:55
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102057106 WG357299-02

Sample Date/Time: Friday, February 25, 2011 18:54:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 45
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

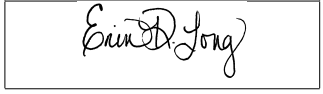
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21389.637	-0.00				ug/L
|	Be	9	38.667	0.00	0.1567	0.016	10.088	ug/L
|	Al	27	37394056.696	107.35	5802.7702	247.571	4.266	ug/L
⌊>	Sc	45	348451.594	348451.59				ug/L
⌈	Ti	49	38230.098	0.08	64.7103	1.433	2.215	ug/L
|	V	51	253579.407	0.51	26.7032	0.557	2.085	ug/L
|	Cr	52	86903.861	0.16	10.1079	0.135	1.334	ug/L
|	Cr	53	9218.502	0.02	9.3754	0.035	0.371	ug/L
|	Mn	55	1403198.597	2.84	117.2066	1.408	1.201	ug/L
|	Co	59	15649.064	0.03	1.5846	0.054	3.434	ug/L
|	Ni	60	7076.241	0.01	3.4583	0.086	2.485	ug/L
|	Cu	65	10027.460	0.02	4.7328	0.130	2.755	ug/L
|	Zn	66	17055.039	0.03	13.1789	0.380	2.881	ug/L
|>	Ge	72	494791.656	494791.66				ug/L
|	As	75	697.379	0.00	0.8876	0.056	6.320	ug/L
|	Se	77	82.000	0.00	0.0855	0.204	238.961	ug/L
|	Se	82	3.933	-0.00	-0.0702	0.176	250.627	ug/L
⌊	Rb	85	33218.088	0.07				mg/L
	Y	89	298399.460	7702.27				ug/L
	Rh	103	8.333	0.00				ug/L
⌈	Mo	98	139.902	0.00	0.0774	0.002	3.115	ug/L
|	Ag	107	94.001	0.00	0.0044	0.001	14.318	ug/L
|	Cd	114	70.860	0.00	0.0914	0.010	10.428	ug/L
|>	In	115	367487.029	367487.03				ug/L
|	Sn	118	202.135	0.00	0.0341	0.004	11.976	ug/L
⌊	Sb	123	54.078	0.00	0.0058	0.002	32.097	ug/L
⌈	Ba	135	15244.432	0.03	11.5074	0.041	0.356	ug/L
|	Ce	140	130772.533	0.26				ug/L
⌊>	Tb	159	494308.683	494308.68				ug/L
⌈	Ho	165	980.147	0.00				ug/L
|	Tl	203	508.018	0.00	0.0706	0.013	18.485	ug/L
|	Tl	205	1286.879	0.00	0.0673	0.010	15.273	ug/L
|	Pb	206	26729.296	0.05	4.9962	0.123	2.454	ug/L
|	Pb	207	22366.218	0.04	4.4300	0.088	1.990	ug/L
|	Pb	208	106149.426	0.20	4.7288	0.086	1.819	ug/L
|	U	238	19975.804	0.04	0.4811	0.007	1.551	ug/L
⌊>	Bi	209	512587.507	512587.51				ug/L

Sample ID: L1102057106 WG357299-02
Report Date/Time: Friday, February 25, 2011 18:56:43
Page 1

Approved: February 28, 2011



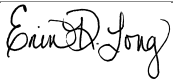
⌈	Na	23	52978.750	-0.20	-0.0073	0.001	7.430	mg/L
|	Mg	24	746250.591	2.14	0.1975	0.007	3.778	mg/L
|	K	39	2421045.756	5.06	0.1933	0.005	2.636	mg/L
|	Ca	43	1440.248	0.00	0.0617	0.005	8.457	mg/L
|	Fe	54	9004583.731	25.71	13.6262	0.352	2.581	mg/L
|	Fe	57	3651293.702	10.46	13.4568	0.063	0.468	mg/L
⌊>	Sc-1	45	348451.594	348451.59				mg/L
	Cl	35	26470.340	6685.45				mg/L
	Kr	83	46.001	10.00				mg/L
	Br	81	6277.304	-883.26				mg/L
	P	31	49414.524	39291.39				mg/L
	S	34	178913.382	-22853.12				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.412			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.513			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.727			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.004			
⌈	Na	23					

Sample ID: L1102057106 WG357299-02
Report Date/Time: Friday, February 25, 2011 18:56:43
Page 2

Approved: February 28, 2011



| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102057107

Sample Date/Time: Friday, February 25, 2011 19:01:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 46
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21506.738	-0.00				ug/L
|	Be	9	57.334	0.00	0.2126	0.037	17.444	ug/L
|	Al	27	43392201.500	123.31	6665.4719	378.888	5.684	ug/L
⌊>	Sc	45	351712.167	351712.17				ug/L
⌈	Ti	49	42999.979	0.09	74.4354	2.787	3.744	ug/L
|	V	51	185200.087	0.38	19.8723	0.453	2.280	ug/L
|	Cr	52	100805.108	0.19	12.1949	0.300	2.464	ug/L
|	Cr	53	11357.595	0.02	11.9737	0.689	5.755	ug/L
|	Mn	55	2304028.864	4.76	196.8875	3.727	1.893	ug/L
|	Co	59	21143.209	0.04	2.1998	0.023	1.024	ug/L
|	Ni	60	5271.777	0.01	2.6204	0.095	3.644	ug/L
|	Cu	65	9889.660	0.02	4.7730	0.194	4.072	ug/L
|	Zn	66	29921.361	0.06	24.0726	0.675	2.804	ug/L
|>	Ge	72	483812.276	483812.28				ug/L
|	As	75	285.486	0.00	0.4615	0.061	13.264	ug/L
|	Se	77	62.667	-0.00	-0.1779	0.041	22.937	ug/L
|	Se	82	-3.096	-0.00	-0.1541	0.069	45.000	ug/L
⌊	Rb	85	46558.959	0.10				mg/L
	Y	89	306015.368	15318.18				ug/L
	Rh	103	9.000	0.67				ug/L
⌈	Mo	98	90.531	0.00	0.0538	0.007	12.763	ug/L
|	Ag	107	64.001	0.00	-0.0026	0.002	76.622	ug/L
|	Cd	114	1279.321	0.00	1.3564	0.024	1.795	ug/L
|>	In	115	359402.523	359402.52				ug/L
|	Sn	118	276.537	0.00	0.0578	0.003	5.320	ug/L
⌊	Sb	123	464.633	0.00	0.1313	0.011	8.370	ug/L
⌈	Ba	135	27933.260	0.06	21.2968	0.415	1.947	ug/L
|	Ce	140	1018504.610	2.08				ug/L
⌊>	Tb	159	489271.752	489271.75				ug/L
⌈	Ho	165	2070.423	0.00				ug/L
|	Tl	203	454.015	0.00	0.0622	0.001	1.910	ug/L
|	Tl	205	1240.201	0.00	0.0642	0.007	11.225	ug/L
|	Pb	206	32306.466	0.06	6.0452	0.165	2.737	ug/L
|	Pb	207	26833.272	0.05	5.3192	0.196	3.687	ug/L
|	Pb	208	127876.775	0.25	5.7001	0.242	4.248	ug/L
|	U	238	19656.196	0.04	0.4720	0.020	4.171	ug/L
⌊>	Bi	209	513870.532	513870.53				ug/L

Sample ID: L1102057107
Report Date/Time: Friday, February 25, 2011 19:03:31
Page 1

Approved: February 28, 2011

⌈	Na	23	160372.027	0.11	0.0104	0.001	5.195	mg/L
|	Mg	24	1988928.235	5.66	0.5257	0.016	3.032	mg/L
|	K	39	4382665.848	10.57	0.3993	0.016	4.039	mg/L
|	Ca	43	11157.373	0.03	0.5325	0.044	8.288	mg/L
|	Fe	54	7042523.624	19.88	10.5374	0.149	1.413	mg/L
|	Fe	57	2810267.161	7.97	10.2539	0.214	2.084	mg/L
⌊>	Sc-1	45	351712.167	351712.17				mg/L
	Cl	35	15917.994	-3866.89				mg/L
	Kr	83	49.334	13.33				mg/L
	Br	81	6362.691	-797.87				mg/L
	P	31	509125.541	499002.40				mg/L
	S	34	174707.690	-27058.82				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.051			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.258			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.721			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.255			
⌈	Na	23					

Sample ID: L1102057107
Report Date/Time: Friday, February 25, 2011 19:03:31
Page 2

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102057108

Sample Date/Time: Friday, February 25, 2011 19:08:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 47
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19569.175	-0.01				ug/L
|	Be	9	71.334	0.00	0.2550	0.049	19.119	ug/L
|	Al	27	40501529.306	114.26	6176.5021	124.238	2.011	ug/L
⌊>	Sc	45	354304.477	354304.48				ug/L
⌈	Ti	49	74483.988	0.15	129.4322	5.506	4.254	ug/L
|	V	51	239518.874	0.49	25.8689	1.158	4.475	ug/L
|	Cr	52	75854.936	0.14	8.9364	0.436	4.878	ug/L
|	Cr	53	8067.415	0.02	8.3564	0.959	11.476	ug/L
|	Mn	55	2709945.546	5.62	232.3769	11.609	4.996	ug/L
|	Co	59	49230.117	0.10	5.1765	0.222	4.292	ug/L
|	Ni	60	8885.703	0.02	4.4716	0.147	3.298	ug/L
|	Cu	65	13309.987	0.03	6.4649	0.188	2.905	ug/L
|	Zn	66	27471.338	0.06	22.1336	1.211	5.471	ug/L
|>	Ge	72	482389.465	482389.46				ug/L
|	As	75	534.323	0.00	0.7308	0.012	1.703	ug/L
|	Se	77	73.334	0.00	-0.0141	0.166	1175.547	ug/L
|	Se	82	4.928	-0.00	-0.0581	0.050	85.768	ug/L
⌊	Rb	85	58217.304	0.12				mg/L
	Y	89	326445.169	35747.98				ug/L
	Rh	103	8.000	-0.33				ug/L
⌈	Mo	98	136.166	0.00	0.0780	0.005	6.398	ug/L
|	Ag	107	70.334	0.00	-0.0008	0.002	248.093	ug/L
|	Cd	114	173.624	0.00	0.2027	0.025	12.144	ug/L
|>	In	115	354541.932	354541.93				ug/L
|	Sn	118	181.202	0.00	0.0298	0.005	15.160	ug/L
⌊	Sb	123	150.872	0.00	0.0363	0.001	3.820	ug/L
⌈	Ba	135	31269.557	0.06	24.1718	1.290	5.338	ug/L
|	Ce	140	668701.038	1.39				ug/L
⌊>	Tb	159	482559.384	482559.38				ug/L
⌈	Ho	165	3240.851	0.01				ug/L
|	Tl	203	583.356	0.00	0.0849	0.005	5.473	ug/L
|	Tl	205	1390.236	0.00	0.0765	0.005	5.898	ug/L
|	Pb	206	34388.470	0.07	6.6565	0.355	5.336	ug/L
|	Pb	207	29927.433	0.06	6.1424	0.348	5.662	ug/L
|	Pb	208	138176.192	0.27	6.3725	0.255	3.996	ug/L
|	U	238	17987.344	0.04	0.4459	0.008	1.685	ug/L
⌊>	Bi	209	497660.686	497660.69				ug/L

Sample ID: L1102057108
Report Date/Time: Friday, February 25, 2011 19:10:17
Page 1

Approved: February 28, 2011

⌈	Na	23	122758.101	-0.00	0.0040	0.000	7.632	mg/L
|	Mg	24	2671010.920	7.54	0.7015	0.013	1.802	mg/L
|	K	39	6083268.933	15.29	0.5757	0.019	3.366	mg/L
|	Ca	43	8391.039	0.02	0.3955	0.028	6.968	mg/L
|	Fe	54	8152612.681	22.86	12.1185	0.279	2.304	mg/L
|	Fe	57	3296213.357	9.28	11.9446	0.197	1.653	mg/L
⌊>	Sc-1	45	354304.477	354304.48				mg/L
	Cl	35	16546.348	-3238.54				mg/L
	Kr	83	46.667	10.67				mg/L
	Br	81	6105.201	-1055.36				mg/L
	P	31	126306.360	116183.22				mg/L
	S	34	174823.607	-26942.90				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.745			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.902			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.380			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.092			
⌈	Na	23					

Sample ID: L1102057108
Report Date/Time: Friday, February 25, 2011 19:10:17
Page 2

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 25, 2011 19:14:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19669.403	0.00				ug/L
|	Be	9	13244.115	0.04	47.0933	4.739	10.064	ug/L
|	Al	27	267839.978	0.88	47.3925	2.728	5.756	ug/L
⌊>	Sc	45	303734.273	303734.27				ug/L
⌈	Ti	49	58637.290	0.12	104.3821	1.721	1.649	ug/L
|	V	51	459499.307	0.97	51.1092	0.421	0.824	ug/L
|	Cr	52	384745.951	0.80	51.0679	0.135	0.264	ug/L
|	Cr	53	44633.906	0.09	50.2473	1.527	3.039	ug/L
|	Mn	55	588156.696	1.25	51.5691	0.022	0.042	ug/L
|	Co	59	469323.327	1.00	50.8064	0.782	1.538	ug/L
|	Ni	60	97906.329	0.21	51.0913	1.081	2.115	ug/L
|	Cu	65	99867.227	0.21	50.0886	0.827	1.651	ug/L
|	Zn	66	59712.354	0.13	49.9550	0.195	0.391	ug/L
| >	Ge	72	470690.605	470690.61				ug/L
|	As	75	45257.524	0.10	50.1217	0.545	1.088	ug/L
|	Se	77	3382.572	0.01	51.2971	0.269	0.524	ug/L
|	Se	82	4015.198	0.01	49.1148	1.242	2.528	ug/L
⌊	Rb	85	1644.485	0.00				mg/L
	Y	89	277996.657	-12700.53				ug/L
	Rh	103	15.333	7.00				ug/L
⌈	Mo	98	202490.582	0.58	105.5697	0.587	0.556	ug/L
|	Ag	107	200564.050	0.57	51.3663	1.119	2.179	ug/L
|	Cd	114	48075.214	0.14	51.3388	0.340	0.661	ug/L
| >	In	115	351945.088	351945.09				ug/L
|	Sn	118	168081.757	0.48	51.5376	0.499	0.969	ug/L
⌊	Sb	123	169231.450	0.48	52.6310	0.930	1.766	ug/L
⌈	Ba	135	67902.835	0.14	51.6979	0.787	1.522	ug/L
|	Ce	140	26.669	0.00				ug/L
⌊>	Tb	159	489895.567	489895.57				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	319042.603	0.65	50.7881	0.529	1.041	ug/L
|	Tl	205	789352.848	1.60	51.6423	0.801	1.551	ug/L
|	Pb	206	260421.727	0.53	51.6443	1.696	3.283	ug/L
|	Pb	207	246418.374	0.50	51.7910	0.953	1.840	ug/L
|	Pb	208	1101418.409	2.23	51.9766	1.035	1.992	ug/L
|	U	238	1985528.571	4.03	50.1979	0.376	0.749	ug/L
⌊>	Bi	209	492631.422	492631.42				ug/L

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 19:17:04
Page 1

Approved: February 28, 2011

Na	23	25346079.571	83.26	4.8507	0.318	6.563	mg/L	
Mg	24	16049267.916	52.93	4.9411	0.255	5.152	mg/L	
K	39	40686063.301	132.24	4.9485	0.291	5.884	mg/L	
Ca	43	88885.469	0.29	4.9972	0.240	4.798	mg/L	
Fe	54	2912663.217	9.46	5.0142	0.173	3.444	mg/L	
Fe	57	1177783.754	3.87	4.9743	0.377	7.587	mg/L	
> Sc-1	45	303734.273	303734.27				mg/L	
Cl	35	15429.236	-4355.65				mg/L	
Kr	83	38.000	2.00				mg/L	
Br	81	5994.466	-1166.10				mg/L	
P	31	10023.058	-100.08				mg/L	
S	34	190405.416	-11361.09				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	102.218				
Cr	52	102.136				
Cr	53					
Mn	55	103.138				
Co	59	101.613				
Ni	60	102.183				
Cu	65	100.177				
Zn	66	99.910				
> Ge	72		101.229			
As	75	100.243				
Se	77					
Se	82	98.230				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	102.733				
Cd	114	102.678				
> In	115		98.178			
Sn	118					
Sb	123	105.262				
Ba	135	103.396				
Ce	140					
> Tb	159		97.845			
Ho	165					
Tl	203	101.576				
Tl	205					
Pb	206					
Pb	207					
Pb	208	103.953				
U	238	100.396				
> Bi	209		96.111			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 19:17:04

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 19:17:04

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 25, 2011 19:22:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

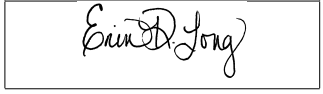
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19335.365	-0.00				ug/L
|	Be	9	4.667	0.00	0.0533	0.008	14.867	ug/L
|	Al	27	1766.825	0.00	-0.0622	0.048	76.644	ug/L
⌊>	Sc	45	319114.726	319114.73				ug/L
⌈	Ti	49	40.004	-0.00	-0.0245	0.017	67.657	ug/L
|	V	51	2191.173	-0.00	-0.0415	0.010	24.941	ug/L
|	Cr	52	7335.764	-0.00	-0.1526	0.019	12.339	ug/L
|	Cr	53	226.692	-0.00	-0.3720	0.054	14.603	ug/L
|	Mn	55	349.676	-0.00	-0.0994	0.001	1.323	ug/L
|	Co	59	92.335	-0.00	-0.0185	0.002	8.745	ug/L
|	Ni	60	35.667	-0.00	-0.0407	0.002	4.180	ug/L
|	Cu	65	102.002	0.00	-0.0082	0.003	38.499	ug/L
|	Zn	66	451.348	-0.00	-0.1795	0.022	12.417	ug/L
| >	Ge	72	492991.810	492991.81				ug/L
|	As	75	-122.041	-0.00	0.0267	0.048	181.303	ug/L
|	Se	77	59.334	-0.00	-0.2449	0.081	32.868	ug/L
|	Se	82	-5.064	-0.00	-0.1756	0.160	91.160	ug/L
⌊	Rb	85	10.000	-0.00				mg/L
	Y	89	293751.066	3053.88				ug/L
	Rh	103	5.000	-3.33				ug/L
⌈	Mo	98	84.864	0.00	0.0501	0.003	5.516	ug/L
|	Ag	107	19.667	0.00	-0.0138	0.000	2.956	ug/L
|	Cd	114	1.528	0.00	0.0205	0.005	23.842	ug/L
| >	In	115	365702.513	365702.51				ug/L
|	Sn	118	134.934	0.00	0.0145	0.002	15.705	ug/L
⌊	Sb	123	45.080	0.00	0.0032	0.004	128.968	ug/L
⌈	Ba	135	12.000	0.00	0.0145	0.003	18.271	ug/L
|	Ce	140	16.668	0.00				ug/L
⌊>	Tb	159	501246.754	501246.75				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	42.667	0.00	-0.0006	0.001	96.312	ug/L
|	Tl	205	76.675	0.00	-0.0088	0.002	20.402	ug/L
|	Pb	206	373.011	0.00	-0.0374	0.000	0.778	ug/L
|	Pb	207	350.010	0.00	-0.0260	0.001	4.656	ug/L
|	Pb	208	1598.734	0.00	-0.0216	0.002	7.027	ug/L
|	U	238	108.002	0.00	-0.0017	0.000	2.994	ug/L
⌊>	Bi	209	516934.751	516934.75				ug/L

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 19:24:18
Page 1

Approved: February 28, 2011



⌈	Na	23	37306.547	-0.23	-0.0093	0.000	3.508	mg/L
|	Mg	24	606.746	0.00	-0.0024	0.000	1.729	mg/L
|	K	39	539665.967	-0.19	-0.0032	0.003	78.036	mg/L
|	Ca	43	143.349	-0.00	-0.0012	0.002	137.558	mg/L
|	Fe	54	43234.797	-0.01	-0.0017	0.004	209.552	mg/L
|	Fe	57	6612.857	-0.00	-0.0015	0.003	209.027	mg/L
⌊>	Sc-1	45	319114.726	319114.73				mg/L
	Cl	35	14066.557	-5718.33				mg/L
	Kr	83	45.667	9.67				mg/L
	Br	81	6319.330	-841.23				mg/L
	P	31	10110.454	-12.68				mg/L
	S	34	178178.534	-23587.97				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.025			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.015			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.113			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.852			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 19:24:18
Page 2

Approved: February 28, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 19:24:18

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102057109

Sample Date/Time: Friday, February 25, 2011 19:28:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 48
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21957.620	-0.00				ug/L
|	Be	9	54.667	0.00	0.2052	0.059	28.626	ug/L
|	Al	27	39979602.382	114.33	6180.1792	327.421	5.298	ug/L
⌊>	Sc	45	350007.496	350007.50				ug/L
⌈	Ti	49	74927.170	0.15	129.9348	1.617	1.245	ug/L
|	V	51	238254.492	0.49	25.6773	0.193	0.753	ug/L
|	Cr	52	61124.523	0.11	6.9709	0.075	1.073	ug/L
|	Cr	53	6876.386	0.01	7.0141	0.218	3.108	ug/L
|	Mn	55	968852.694	2.00	82.8207	0.412	0.498	ug/L
|	Co	59	17074.403	0.04	1.7733	0.028	1.586	ug/L
|	Ni	60	7169.641	0.01	3.5897	0.026	0.737	ug/L
|	Cu	65	12847.047	0.03	6.2259	0.179	2.871	ug/L
|	Zn	66	23143.649	0.05	18.5214	0.147	0.795	ug/L
|>	Ge	72	483232.745	483232.74				ug/L
|	As	75	627.536	0.00	0.8300	0.008	0.932	ug/L
|	Se	77	52.667	-0.00	-0.3276	0.212	64.813	ug/L
|	Se	82	7.646	-0.00	-0.0259	0.106	409.551	ug/L
⌊	Rb	85	54720.860	0.11				mg/L
	Y	89	303431.379	12734.19				ug/L
	Rh	103	11.000	2.67				ug/L
⌈	Mo	98	196.013	0.00	0.1090	0.008	7.115	ug/L
|	Ag	107	77.001	0.00	0.0009	0.002	205.187	ug/L
|	Cd	114	97.247	0.00	0.1219	0.019	15.968	ug/L
|>	In	115	354512.671	354512.67				ug/L
|	Sn	118	135.868	0.00	0.0160	0.001	7.153	ug/L
⌊	Sb	123	127.953	0.00	0.0292	0.003	11.153	ug/L
⌈	Ba	135	23563.301	0.05	18.1362	0.223	1.228	ug/L
|	Ce	140	471583.638	0.97				ug/L
⌊>	Tb	159	484701.295	484701.29				ug/L
⌈	Ho	165	1613.626	0.00				ug/L
|	Tl	203	458.682	0.00	0.0647	0.002	3.199	ug/L
|	Tl	205	1300.215	0.00	0.0700	0.009	12.379	ug/L
|	Pb	206	32749.212	0.06	6.2919	0.165	2.626	ug/L
|	Pb	207	27430.186	0.05	5.5834	0.077	1.373	ug/L
|	Pb	208	129729.469	0.26	5.9372	0.081	1.360	ug/L
|	U	238	18987.539	0.04	0.4677	0.008	1.623	ug/L
⌊>	Bi	209	501013.204	501013.20				ug/L

Sample ID: L1102057109
Report Date/Time: Friday, February 25, 2011 19:31:04
Page 1

Approved: February 28, 2011

⌈	Na	23	102078.631	-0.06	0.0008	0.001	74.658	mg/L
|	Mg	24	2275485.503	6.50	0.6049	0.012	2.021	mg/L
|	K	39	5531866.106	13.93	0.5249	0.026	4.966	mg/L
|	Ca	43	7586.971	0.02	0.3614	0.011	3.074	mg/L
|	Fe	54	8283362.629	23.52	12.4671	0.145	1.162	mg/L
|	Fe	57	3340015.169	9.53	12.2624	0.648	5.288	mg/L
⌊>	Sc-1	45	350007.496	350007.50				mg/L
	Cl	35	15451.261	-4333.63				mg/L
	Kr	83	40.667	4.67				mg/L
	Br	81	6023.814	-1136.75				mg/L
	P	31	61786.299	51663.16				mg/L
	S	34	176599.331	-25167.17				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.926			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.894			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.808			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.746			
⌈	Na	23					

Sample ID: L1102057109
Report Date/Time: Friday, February 25, 2011 19:31:04
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102057109
Report Date/Time: Friday, February 25, 2011 19:31:04
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102057110

Sample Date/Time: Friday, February 25, 2011 19:35:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 49
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21038.784	-0.00				ug/L
|	Be	9	70.000	0.00	0.2519	0.043	17.135	ug/L
|	Al	27	38245199.065	108.80	5881.3647	185.107	3.147	ug/L
⌊>	Sc	45	351333.905	351333.91				ug/L
⌈	Ti	49	93827.513	0.19	163.0319	1.307	0.802	ug/L
|	V	51	240743.845	0.49	25.9955	0.137	0.525	ug/L
|	Cr	52	62783.767	0.11	7.2051	0.044	0.611	ug/L
|	Cr	53	6969.792	0.01	7.1328	0.166	2.328	ug/L
|	Mn	55	1223904.274	2.54	104.8461	1.283	1.224	ug/L
|	Co	59	22771.793	0.05	2.3788	0.029	1.219	ug/L
|	Ni	60	7203.666	0.01	3.6137	0.067	1.849	ug/L
|	Cu	65	11885.847	0.02	5.7659	0.093	1.613	ug/L
|	Zn	66	27080.556	0.06	21.8052	0.154	0.708	ug/L
| >	Ge	72	482359.393	482359.39				ug/L
|	As	75	467.181	0.00	0.6588	0.078	11.907	ug/L
|	Se	77	54.667	-0.00	-0.2956	0.068	23.169	ug/L
|	Se	82	4.632	-0.00	-0.0612	0.074	121.080	ug/L
⌊	Rb	85	56890.621	0.12				mg/L
	Y	89	297500.021	6802.83				ug/L
	Rh	103	3.667	-4.67				ug/L
⌈	Mo	98	188.789	0.00	0.1055	0.014	13.485	ug/L
|	Ag	107	57.001	0.00	-0.0041	0.001	17.488	ug/L
|	Cd	114	189.016	0.00	0.2197	0.020	9.197	ug/L
| >	In	115	353661.513	353661.51				ug/L
|	Sn	118	155.735	0.00	0.0222	0.001	2.406	ug/L
⌊	Sb	123	266.834	0.00	0.0723	0.005	6.432	ug/L
⌈	Ba	135	23665.206	0.05	18.2818	0.238	1.300	ug/L
|	Ce	140	382236.284	0.79				ug/L
⌊>	Tb	159	482947.587	482947.59				ug/L
⌈	Ho	165	1420.244	0.00				ug/L
|	Tl	203	474.349	0.00	0.0665	0.004	5.861	ug/L
|	Tl	205	1053.495	0.00	0.0535	0.009	16.473	ug/L
|	Pb	206	30099.198	0.06	5.7182	0.101	1.775	ug/L
|	Pb	207	25689.547	0.05	5.1734	0.108	2.080	ug/L
|	Pb	208	120502.779	0.24	5.4555	0.095	1.740	ug/L
|	U	238	17420.673	0.03	0.4247	0.009	2.112	ug/L
⌊>	Bi	209	505781.937	505781.94				ug/L

Sample ID: L1102057110
Report Date/Time: Friday, February 25, 2011 19:37:50
Page 1

Approved: February 28, 2011

⌈	Na	23	93369.843	-0.08	-0.0007	0.000	60.703	mg/L
|	Mg	24	2330048.863	6.63	0.6169	0.008	1.296	mg/L
|	K	39	6277996.337	15.99	0.6019	0.023	3.892	mg/L
|	Ca	43	6859.707	0.02	0.3248	0.019	5.789	mg/L
|	Fe	54	8141199.649	23.04	12.2121	0.435	3.560	mg/L
|	Fe	57	3224924.320	9.16	11.7941	0.684	5.802	mg/L
⌊>	Sc-1	45	351333.905	351333.91				mg/L
	Cl	35	15082.033	-4702.85				mg/L
	Kr	83	42.334	6.33				mg/L
	Br	81	6195.252	-965.31				mg/L
	P	31	74515.284	64392.15				mg/L
	S	34	168120.326	-33646.18				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.738			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.656			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.458			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.676			
⌈	Na	23					

Sample ID: L1102057110
Report Date/Time: Friday, February 25, 2011 19:37:50
Page 2

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102057111

Sample Date/Time: Friday, February 25, 2011 19:42:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 50
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

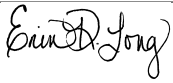
User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20754.894	-0.01				ug/L
|	Be	9	82.000	0.00	0.2787	0.029	10.533	ug/L
|	Al	27	30496591.654	84.01	4541.3912	391.878	8.629	ug/L
⌊>	Sc	45	364283.966	364283.97				ug/L
⌈	Ti	49	90220.890	0.19	159.2793	4.126	2.591	ug/L
|	V	51	221776.440	0.46	24.3138	0.631	2.595	ug/L
|	Cr	52	203182.218	0.41	26.2114	0.493	1.882	ug/L
|	Cr	53	22694.661	0.05	25.0200	0.309	1.234	ug/L
|	Mn	55	10671523.234	22.48	929.9372	31.013	3.335	ug/L
|	Co	59	190838.093	0.40	20.4660	0.716	3.496	ug/L
|	Ni	60	6090.915	0.01	3.0958	0.033	1.079	ug/L
|	Cu	65	14534.368	0.03	7.1771	0.092	1.281	ug/L
|	Zn	66	41403.616	0.09	34.1696	0.369	1.080	ug/L
|>	Ge	72	474826.471	474826.47				ug/L
|	As	75	843.934	0.00	1.0788	0.045	4.214	ug/L
|	Se	77	56.000	-0.00	-0.2625	0.132	50.243	ug/L
|	Se	82	-4.035	-0.00	-0.1660	0.026	15.431	ug/L
⌊	Rb	85	36564.767	0.08				mg/L
	Y	89	288292.054	-2405.14				ug/L
	Rh	103	10.333	2.00				ug/L
⌈	Mo	98	176.382	0.00	0.0987	0.007	6.602	ug/L
|	Ag	107	83.335	0.00	0.0025	0.002	80.535	ug/L
|	Cd	114	840.126	0.00	0.9084	0.027	2.998	ug/L
|>	In	115	354946.208	354946.21				ug/L
|	Sn	118	169.068	0.00	0.0261	0.002	8.565	ug/L
⌊	Sb	123	222.583	0.00	0.0583	0.005	8.791	ug/L
⌈	Ba	135	46470.199	0.10	35.5359	0.675	1.900	ug/L
|	Ce	140	431891.427	0.89				ug/L
⌊>	Tb	159	487827.254	487827.25				ug/L
⌈	Ho	165	1283.545	0.00				ug/L
|	Tl	203	1228.421	0.00	0.1850	0.009	4.973	ug/L
|	Tl	205	3107.461	0.01	0.1860	0.007	3.590	ug/L
|	Pb	206	70638.437	0.14	13.6707	0.333	2.432	ug/L
|	Pb	207	60152.700	0.12	12.3409	0.411	3.334	ug/L
|	Pb	208	283233.599	0.56	13.0536	0.383	2.938	ug/L
|	U	238	24772.229	0.05	0.6106	0.012	1.932	ug/L
⌊>	Bi	209	501899.666	501899.67				ug/L

Sample ID: L1102057111
Report Date/Time: Friday, February 25, 2011 19:44:36
Page 1

Approved: February 28, 2011



⌈	Na	23	118921.810	-0.02	0.0029	0.001	46.420	mg/L
|	Mg	24	1155821.606	3.18	0.2944	0.017	5.716	mg/L
|	K	39	2936502.240	6.20	0.2357	0.019	8.141	mg/L
|	Ca	43	5231.892	0.01	0.2367	0.008	3.171	mg/L
|	Fe	54	23915886.507	65.67	34.8030	1.914	5.500	mg/L
|	Fe	57	9612307.766	26.42	34.0034	1.742	5.124	mg/L
⌊>	Sc-1	45	364283.966	364283.97				mg/L
	Cl	35	17121.980	-2662.91				mg/L
	Kr	83	42.334	6.33				mg/L
	Br	81	5649.596	-1510.97				mg/L
	P	31	164065.320	153942.18				mg/L
	S	34	175336.564	-26429.94				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.118			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.015			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.432			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.919			
⌈	Na	23					

Sample ID: L1102057111
Report Date/Time: Friday, February 25, 2011 19:44:36
Page 2

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102057112

Sample Date/Time: Friday, February 25, 2011 19:49:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 51
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21139.009	-0.01				ug/L
|	Be	9	52.667	0.00	0.1936	0.031	15.872	ug/L
|	Al	27	52835064.003	145.29	7853.6810	473.555	6.030	ug/L
⌊>	Sc	45	363992.353	363992.35				ug/L
⌈	Ti	49	40218.060	0.08	69.0181	0.709	1.028	ug/L
|	V	51	314325.677	0.64	33.6281	0.715	2.126	ug/L
|	Cr	52	136689.189	0.26	16.7757	0.686	4.087	ug/L
|	Cr	53	15279.862	0.03	16.1779	0.498	3.075	ug/L
|	Mn	55	629306.475	1.29	53.2292	2.162	4.062	ug/L
|	Co	59	11034.865	0.02	1.1248	0.036	3.161	ug/L
|	Ni	60	7724.059	0.02	3.8332	0.068	1.784	ug/L
|	Cu	65	14640.189	0.03	7.0328	0.124	1.759	ug/L
|	Zn	66	32093.079	0.06	25.6346	0.564	2.200	ug/L
| >	Ge	72	488048.695	488048.70				ug/L
|	As	75	1287.362	0.00	1.5261	0.046	2.983	ug/L
|	Se	77	62.000	-0.00	-0.1952	0.242	123.959	ug/L
|	Se	82	15.649	-0.00	0.0684	0.096	139.618	ug/L
⌊	Rb	85	53648.734	0.11				mg/L
	Y	89	294561.976	3864.79				ug/L
	Rh	103	8.667	0.33				ug/L
⌈	Mo	98	289.907	0.00	0.1561	0.003	2.119	ug/L
|	Ag	107	70.668	0.00	-0.0008	0.003	348.179	ug/L
|	Cd	114	1130.674	0.00	1.2064	0.036	2.989	ug/L
| >	In	115	357798.758	357798.76				ug/L
|	Sn	118	259.603	0.00	0.0530	0.001	2.511	ug/L
⌊	Sb	123	74.537	0.00	0.0125	0.004	35.240	ug/L
⌈	Ba	135	21903.857	0.05	16.9518	0.571	3.367	ug/L
|	Ce	140	192113.949	0.40				ug/L
⌊>	Tb	159	482169.156	482169.16				ug/L
⌈	Ho	165	1453.585	0.00				ug/L
|	Tl	203	493.017	0.00	0.0692	0.003	3.954	ug/L
|	Tl	205	1196.858	0.00	0.0625	0.005	7.594	ug/L
|	Pb	206	47525.155	0.09	9.0615	0.166	1.828	ug/L
|	Pb	207	40897.540	0.08	8.2654	0.091	1.101	ug/L
|	Pb	208	190352.697	0.37	8.6437	0.122	1.416	ug/L
|	U	238	24914.923	0.05	0.6074	0.015	2.529	ug/L
⌊>	Bi	209	507371.691	507371.69				ug/L

Sample ID: L1102057112
Report Date/Time: Friday, February 25, 2011 19:51:23
Page 1

Approved: February 28, 2011

⌈	Na	23	206640.482	0.22	0.0169	0.001	3.130	mg/L
|	Mg	24	1534831.666	4.22	0.3915	0.011	2.881	mg/L
|	K	39	3674051.906	8.21	0.3111	0.012	3.782	mg/L
|	Ca	43	3280.868	0.01	0.1449	0.007	4.811	mg/L
|	Fe	54	11168929.211	30.57	16.2022	0.884	5.453	mg/L
|	Fe	57	4309273.104	11.82	15.2150	0.786	5.168	mg/L
⌊>	Sc-1	45	363992.353	363992.35				mg/L
	Cl	35	15076.025	-4708.86				mg/L
	Kr	83	40.334	4.33				mg/L
	Br	81	6243.951	-916.61				mg/L
	P	31	700900.780	690777.64				mg/L
	S	34	180136.332	-21630.17				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.962			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.811			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.302			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.987			
⌈	Na	23					

Sample ID: L1102057112
Report Date/Time: Friday, February 25, 2011 19:51:23

Approved: February 28, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102057113

Sample Date/Time: Friday, February 25, 2011 19:55:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 52
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20571.306	-0.00				ug/L
|	Be	9	86.000	0.00	0.3039	0.066	21.750	ug/L
|	Al	27	41376760.609	120.09	6491.3037	313.883	4.835	ug/L
|>	Sc	45	344989.430	344989.43				ug/L
⌈	Ti	49	23339.548	0.05	39.9344	1.296	3.246	ug/L
|	V	51	291416.035	0.59	31.0921	0.648	2.084	ug/L
|	Cr	52	109784.174	0.21	13.2264	0.335	2.535	ug/L
|	Cr	53	12752.741	0.02	13.3717	0.610	4.559	ug/L
|	Mn	55	3074782.347	6.29	260.0114	5.550	2.135	ug/L
|	Co	59	22362.867	0.05	2.3032	0.026	1.128	ug/L
|	Ni	60	6077.241	0.01	2.9966	0.044	1.455	ug/L
|	Cu	65	12597.055	0.03	6.0306	0.098	1.631	ug/L
|	Zn	66	18487.259	0.04	14.5051	0.284	1.959	ug/L
|>	Ge	72	489073.940	489073.94				ug/L
|	As	75	1622.321	0.00	1.8792	0.058	3.071	ug/L
|	Se	77	71.334	0.00	-0.0596	0.167	279.994	ug/L
|	Se	82	23.313	0.00	0.1581	0.130	82.139	ug/L
⌊	Rb	85	50880.628	0.10				mg/L
	Y	89	304707.714	14010.53				ug/L
	Rh	103	8.667	0.33				ug/L
⌈	Mo	98	229.315	0.00	0.1259	0.011	8.501	ug/L
|	Ag	107	131.336	0.00	0.0147	0.002	14.738	ug/L
|	Cd	114	22.648	0.00	0.0429	0.005	11.445	ug/L
|>	In	115	355133.578	355133.58				ug/L
|	Sn	118	109.601	0.00	0.0080	0.004	55.855	ug/L
⌊	Sb	123	27.156	-0.00	-0.0019	0.001	76.158	ug/L
⌈	Ba	135	33727.117	0.07	25.8179	0.347	1.344	ug/L
|	Ce	140	204626.073	0.42				ug/L
|>	Tb	159	487370.557	487370.56				ug/L
⌈	Ho	165	1643.633	0.00				ug/L
|	Tl	203	527.686	0.00	0.0752	0.002	2.690	ug/L
|	Tl	205	1363.563	0.00	0.0738	0.001	0.807	ug/L
|	Pb	206	27784.160	0.05	5.3006	0.095	1.790	ug/L
|	Pb	207	23565.644	0.05	4.7657	0.146	3.064	ug/L
|	Pb	208	109755.817	0.22	4.9891	0.034	0.673	ug/L
|	U	238	23245.935	0.05	0.5713	0.024	4.252	ug/L
|>	Bi	209	502890.929	502890.93				ug/L

Sample ID: L1102057113
Report Date/Time: Friday, February 25, 2011 19:58:10
Page 1

Approved: February 28, 2011

⌈	Na	23	60907.665	-0.17	-0.0059	0.000	6.823	mg/L
|	Mg	24	754976.799	2.19	0.2020	0.009	4.485	mg/L
|	K	39	2263726.369	4.68	0.1791	0.011	6.204	mg/L
|	Ca	43	2180.456	0.01	0.0990	0.006	5.679	mg/L
|	Fe	54	10591002.383	30.57	16.2021	0.208	1.282	mg/L
|	Fe	57	4216876.672	12.21	15.7103	0.319	2.029	mg/L
⌊>	Sc-1	45	344989.430	344989.43				mg/L
	Cl	35	29209.267	9424.38				mg/L
	Kr	83	40.667	4.67				mg/L
	Br	81	6507.451	-653.11				mg/L
	P	31	62781.795	52658.66				mg/L
	S	34	180954.416	-20812.09				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		105.182			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.067			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.341			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.112			
⌈	Na	23					

Sample ID: L1102057113
Report Date/Time: Friday, February 25, 2011 19:58:10
Page 2

Approved: February 28, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: L1102050607

Sample Date/Time: Friday, February 25, 2011 20:02:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 100

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16563.825	-0.00				ug/L
|	Be	9	3.333	0.00	0.0509	0.012	23.996	ug/L
|	Al	27	3617.327	0.01	0.3450	0.099	28.833	ug/L
⌊>	Sc	45	277233.850	277233.85				ug/L
⌈	Ti	49	60.006	0.00	0.0215	0.039	180.168	ug/L
|	V	51	1805.350	-0.00	-0.0605	0.027	45.176	ug/L
|	Cr	52	6828.399	-0.00	-0.1178	0.009	7.340	ug/L
|	Cr	53	926.803	0.00	0.5046	0.191	37.851	ug/L
|	Mn	55	58531.118	0.13	5.3415	0.033	0.611	ug/L
|	Co	59	211.338	0.00	-0.0037	0.001	15.456	ug/L
|	Ni	60	188.004	0.00	0.0458	0.011	23.921	ug/L
|	Cu	65	430.347	0.00	0.1727	0.014	7.998	ug/L
|	Zn	66	2322.960	0.00	1.5448	0.044	2.823	ug/L
| >	Ge	72	442700.501	442700.50				ug/L
|	As	75	1270.279	0.00	1.6490	0.188	11.407	ug/L
|	Se	77	100.001	0.00	0.5253	0.202	38.547	ug/L
|	Se	82	509.336	0.00	6.5355	0.849	12.996	ug/L
⌊	Rb	85	667.362	0.00				mg/L
	Y	89	265711.078	-24986.11				ug/L
	Rh	103	30.667	22.33				ug/L
⌈	Mo	98	65.087	0.00	0.0435	0.006	12.706	ug/L
|	Ag	107	49.334	0.00	-0.0054	0.006	108.573	ug/L
|	Cd	114	-1.244	-0.00	0.0174	0.004	24.247	ug/L
| >	In	115	330719.404	330719.40				ug/L
|	Sn	118	159.868	0.00	0.0269	0.002	8.035	ug/L
⌊	Sb	123	42.161	0.00	0.0037	0.002	55.252	ug/L
⌈	Ba	135	25679.546	0.06	20.5331	0.333	1.620	ug/L
|	Ce	140	80.008	0.00				ug/L
⌊>	Tb	159	466690.323	466690.32				ug/L
⌈	Ho	165	6.667	0.00				ug/L
|	Tl	203	133.336	0.00	0.0156	0.001	8.869	ug/L
|	Tl	205	350.041	0.00	0.0108	0.006	54.930	ug/L
|	Pb	206	484.017	0.00	-0.0046	0.009	206.024	ug/L
|	Pb	207	414.679	0.00	-0.0024	0.005	196.555	ug/L
|	Pb	208	1972.765	0.00	0.0065	0.006	87.789	ug/L
|	U	238	1566.139	0.00	0.0382	0.000	0.863	ug/L
⌊>	Bi	209	459391.294	459391.29				ug/L

Sample ID: L1102050607
Report Date/Time: Friday, February 25, 2011 20:04:56
Page 1

Approved: February 28, 2011

⌈	Na	23	244951958.766	885.02	51.5188	2.488	4.829	mg/L
|	Mg	24	1475058.935	5.33	0.4956	0.029	5.906	mg/L
|	K	39	1341421.411	2.96	0.1147	0.008	7.002	mg/L
|	Ca	43	19427.489	0.07	1.1893	0.049	4.144	mg/L
|	Fe	54	40591.054	0.01	0.0042	0.003	69.136	mg/L
|	Fe	57	6642.871	0.00	0.0027	0.002	83.065	mg/L
⌊>	Sc-1	45	277233.850	277233.85				mg/L
	Cl	35	1357431.190	1337646.30				mg/L
	Kr	83	40.334	4.33				mg/L
	Br	81	344163.593	337003.03				mg/L
	P	31	8964.704	-1158.43				mg/L
	S	34	162497.418	-39269.09				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.209			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.257			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.211			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.626			
⌈	Na	23					

Sample ID: L1102050607
Report Date/Time: Friday, February 25, 2011 20:04:56
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1102050607
Report Date/Time: Friday, February 25, 2011 20:04:56
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, February 25, 2011 20:09:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17665.855	0.00				ug/L
|	Be	9	12186.760	0.04	48.2950	0.215	0.444	ug/L
|	Al	27	246740.724	0.90	48.7789	2.016	4.133	ug/L
⌊>	Sc	45	271624.865	271624.86				ug/L
⌈	Ti	49	52844.599	0.12	101.7463	3.454	3.395	ug/L
|	V	51	419361.074	0.96	50.4459	1.488	2.950	ug/L
|	Cr	52	355211.278	0.80	50.9864	0.308	0.603	ug/L
|	Cr	53	40847.337	0.09	49.7264	0.496	0.998	ug/L
|	Mn	55	534976.422	1.23	50.7289	0.731	1.441	ug/L
|	Co	59	420447.264	0.97	49.2250	0.948	1.926	ug/L
|	Ni	60	87881.710	0.20	49.5904	0.361	0.728	ug/L
|	Cu	65	92131.059	0.21	49.9700	0.114	0.228	ug/L
|	Zn	66	55209.888	0.13	49.9507	0.301	0.603	ug/L
| >	Ge	72	435234.094	435234.09				ug/L
|	As	75	41959.655	0.10	50.2566	0.602	1.197	ug/L
|	Se	77	3135.825	0.01	51.4304	0.442	0.859	ug/L
|	Se	82	3778.755	0.01	49.9873	0.486	0.973	ug/L
⌊	Rb	85	1554.803	0.00				mg/L
	Y	89	266921.833	-23775.36				ug/L
	Rh	103	17.667	9.33				ug/L
⌈	Mo	98	189697.925	0.58	106.8444	0.993	0.929	ug/L
|	Ag	107	179621.854	0.55	49.6827	0.391	0.787	ug/L
|	Cd	114	42797.089	0.13	49.3808	1.344	2.721	ug/L
| >	In	115	325793.747	325793.75				ug/L
|	Sn	118	152561.489	0.47	50.5272	0.404	0.800	ug/L
⌊	Sb	123	152572.159	0.47	51.2493	0.155	0.303	ug/L
⌈	Ba	135	61263.724	0.14	51.1229	1.098	2.147	ug/L
|	Ce	140	40.004	0.00				ug/L
⌊>	Tb	159	447042.465	447042.47				ug/L
⌈	Ho	165	10.001	0.00				ug/L
|	Tl	203	278902.682	0.63	49.0585	1.143	2.331	ug/L
|	Tl	205	690749.713	1.55	49.9330	0.650	1.302	ug/L
|	Pb	206	231757.782	0.52	50.7764	0.389	0.766	ug/L
|	Pb	207	215476.891	0.48	50.0416	1.351	2.701	ug/L
|	Pb	208	971615.240	2.18	50.6555	0.109	0.216	ug/L
|	U	238	1741959.634	3.91	48.6638	1.208	2.483	ug/L
⌊>	Bi	209	445855.931	445855.93				ug/L

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 20:11:42
Page 1

Approved: February 28, 2011

⌈	Na	23	23185415.375	85.06	4.9552	0.158	3.194	mg/L
|	Mg	24	14622792.082	53.87	5.0295	0.197	3.910	mg/L
|	K	39	36147296.127	131.30	4.9133	0.211	4.296	mg/L
|	Ca	43	79475.871	0.29	4.9903	0.112	2.252	mg/L
|	Fe	54	2663241.251	9.67	5.1243	0.127	2.486	mg/L
|	Fe	57	1071350.630	3.92	5.0509	0.177	3.511	mg/L
⌊>	Sc-1	45	271624.865	271624.86				mg/L
	Cl	35	15996.117	-3788.77				mg/L
	Kr	83	39.667	3.67				mg/L
	Br	81	14533.960	7373.40				mg/L
	P	31	8151.994	-1971.14				mg/L
	S	34	165948.654	-35817.85				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	100.892				
|	Cr	52	101.973				
|	Cr	53					
|	Mn	55	101.458				
|	Co	59	98.450				
|	Ni	60	99.181				
|	Cu	65	99.940				
|	Zn	66	99.901				
|>	Ge	72		93.603			
|	As	75	100.513				
|	Se	77					
|	Se	82	99.975				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	99.365				
|	Cd	114	98.762				
|>	In	115		90.883			
|	Sn	118					
⌊	Sb	123	102.499				
⌈	Ba	135	102.246				
|	Ce	140					
⌊>	Tb	159		89.286			
⌈	Ho	165					
|	Tl	203	98.117				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	101.311				
|	U	238	97.328				
⌊>	Bi	209		86.985			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 20:11:42

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Friday, February 25, 2011 20:11:42
Page 3

Approved: February 28, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, February 25, 2011 20:16:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: JYH
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16613.834	0.00				ug/L
|	Be	9	6.000	0.00	0.0614	0.012	19.757	ug/L
|	Al	27	1250.078	-0.00	-0.1048	0.034	32.719	ug/L
⌊>	Sc	45	263948.902	263948.90				ug/L
⌈	Ti	49	40.004	-0.00	-0.0162	0.049	305.855	ug/L
|	V	51	2082.457	-0.00	-0.0246	0.004	14.514	ug/L
|	Cr	52	6852.083	-0.00	-0.1017	0.020	19.275	ug/L
|	Cr	53	240.027	-0.00	-0.3238	0.055	16.840	ug/L
|	Mn	55	328.342	-0.00	-0.0976	0.001	1.200	ug/L
|	Co	59	79.334	-0.00	-0.0188	0.001	6.467	ug/L
|	Ni	60	32.667	-0.00	-0.0402	0.003	7.955	ug/L
|	Cu	65	90.001	0.00	-0.0085	0.006	67.909	ug/L
|	Zn	66	436.347	-0.00	-0.1462	0.026	18.022	ug/L
|>	Ge	72	437027.756	437027.76				ug/L
|	As	75	-109.474	-0.00	0.0252	0.030	118.613	ug/L
|	Se	77	42.667	-0.00	-0.4108	0.042	10.113	ug/L
|	Se	82	6.919	-0.00	-0.0241	0.190	790.086	ug/L
⌊	Rb	85	15.667	0.00				mg/L
	Y	89	267244.810	-23452.38				ug/L
	Rh	103	7.333	-1.00				ug/L
⌈	Mo	98	75.380	0.00	0.0508	0.011	22.497	ug/L
|	Ag	107	16.000	0.00	-0.0142	0.001	10.257	ug/L
|	Cd	114	-4.066	-0.00	0.0141	0.003	21.573	ug/L
|>	In	115	319161.502	319161.50				ug/L
|	Sn	118	131.201	0.00	0.0190	0.003	14.267	ug/L
⌊	Sb	123	33.914	-0.00	0.0013	0.002	178.320	ug/L
⌈	Ba	135	11.333	0.00	0.0152	0.003	21.949	ug/L
|	Ce	140	23.336	0.00				ug/L
⌊>	Tb	159	434831.343	434831.34				ug/L
⌈	Ho	165	3.334	0.00				ug/L
|	Tl	203	29.334	0.00	-0.0018	0.000	11.999	ug/L
|	Tl	205	53.339	0.00	-0.0097	0.002	17.089	ug/L
|	Pb	206	332.676	0.00	-0.0337	0.001	3.049	ug/L
|	Pb	207	307.341	0.00	-0.0235	0.004	19.008	ug/L
|	Pb	208	1344.049	0.00	-0.0222	0.002	9.056	ug/L
|	U	238	70.668	0.00	-0.0023	0.000	4.786	ug/L
⌊>	Bi	209	438180.575	438180.57				ug/L

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 20:18:57
Page 1

Approved: February 28, 2011

Na	23	36553.688	-0.21	-0.0081	0.000	5.432	mg/L	
Mg	24	430.052	0.00	-0.0024	0.000	1.321	mg/L	
K	39	548348.456	0.20	0.0114	0.004	38.596	mg/L	
Ca	43	130.014	-0.00	-0.0005	0.002	350.202	mg/L	
Fe	54	37052.893	-0.00	0.0010	0.004	398.534	mg/L	
Fe	57	6075.791	0.00	0.0015	0.002	117.505	mg/L	
> Sc-1	45	263948.902	263948.90				mg/L	
Cl	35	14163.359	-5621.53				mg/L	
Kr	83	47.667	11.67				mg/L	
Br	81	7850.414	689.85				mg/L	
P	31	7415.427	-2707.71				mg/L	
S	34	159952.620	-41813.88				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		93.989			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		89.032			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		86.848			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		85.488			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 20:18:57
Page 2

Approved: February 28, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Friday, February 25, 2011 20:18:57

Approved: February 28, 2011

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
March 4, 2011

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
ALV – AMY L. VALENTINE	AML – TONY M. LONG	AZH – AFTER HOURS
BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CSH – CHRIS S. HILL	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
ECL – ERIC C. LAWSON	EDL – ERIN D. LONG	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR	HJR – HOLLY J. REED
JAL – JOHN A. LENT	JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON
JKT – JANE K. THOMPSON	JLL – JOHN L. LENT	JWR – JOHN W. RICHARDS
JWS – JACK W. SHEAVES	JYH – JI Y. HU	KEB – KATIE E. BARNES
KHR – KIM H. RHODES	KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF
LSB – LESLIE S. BUCINA	MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN
MES – MARY E. SCHILLING	MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR
MSW – MATT S. WILSON	PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT
RAH – ROY A. HALSTEAD	RB – BOB BUCHANAN	REK – BOB E. KYER
RLK – ROBIN L. KLINGER	RWC – RODNEY W. CAMPBELL	SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF	TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS	VC – VICKI COLLIER	WJB – WILL J. BEASLEY
WTD – WADE T. DELONG		

Microbac Laboratories Inc.
List of Valid Qualifiers
March 04, 2011

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the low standard (LOQ)
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

Qualkey: DOD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 2399

156 Starlite Drive
Marietta, OH 45750

KEMRON
ENVIRONMENTAL SERVICES

CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4308
Fax: 740-376-2536

Company Name: UXB - KEMRON

Project Contact: MARY LOU ROCHOTTE | Contact Phone #: 740-373-4308

Turn Around Requirements: 5-DAY | Location: RFAAP SWMU-57

Project ID: MR0669-400-002 (STEAM LINE SAMPLES)

Sampler (print): JONAH ANDERSON | Signature:

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	METALS (SEE LIST)	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
SWMU-57-21711-EB		X	2-17-11	0900	W	1		1		A IN ACCORDANCE
SWMU-57-21711-FB		X	2-17-11	0905	W	1		1		W/ QAPP - RFAAP
SWMU-57-21711-MS		X	2-17-11	1000	S	1		1		
SWMU-57-21711-MSD		X	2-17-11	1005	S	1		1		NOTE: STEAM
SWMU-57-21711-DUP		X	2-17-11	1010	S	1		1		LINE SAMPLES
SWMU-57-21711-B-55-12'		X	2-17-11	1010	S	1		1		
SWMU-57-21711-B-255-2.5'		X	2-17-11	1055	S	1		1		* METALS *
SWMU-57-21711-B-255-5'		X	2-17-11	1135	S	1		1		ALUMINUM,
SWMU-57-21711-B-1-55-2.5'		X	2-17-11	1205	S	1		1		ANTIMONY,
SWMU-57-21711-B-6-55-2.5'		X	2-17-11	1335	S	1		1		CADMIUM,
SWMU-57-21811-B-55-2'		X	2-18-11	0855	S	1		1		CHROMIUM,
SWMU-57-21811-B-55-2.5'		X	2-18-11	0945	S	1		1		IRON, MANGANESE
SWMU-57-21811-B-55-2'		X	2-18-11	1105	S	1		1		

Microbac OVD 221000012527
Received: 02/19/2011 15:23
By: ROBIN KLINGER

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:
	2-19-11	1325	Robin L. Klinger			
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	2-19-11	1325	

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page _____ of _____

1000012527

COOLER INSPECTION

Received: 02/19/2011 15:23
Delivery Method: Client
Opened By: Robin Klinger
Comments:

Login(s): L11020571|

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
5474	G	1.0		2399	

1	NA	Were shipping coolers sealed?
2	NA	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	Yes	Were COC's received/information complete/signed and dated?
6	No	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were samples received within EPA hold times?
9	Yes	Were correct perservatives used? (water only)
10	Yes	Were pH ranges acceptable? (voa's excluded)
11	NA	Were VOA samples free of headspace (less than 6mm)?

Discrepancies:

6	The RS, MS, SD samples have different collect times. Logged for the RS time of 1010.

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11020571
Account: 2820
Project: 2820.216
Samples: 13
Due Date: 28-FEB-2011

Samplenum	Container ID	Products
L11020571-01	799621	AL CD-MS CR-MS FE MN-MS SB-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	22-FEB-2011 15:15	RLK	
2	ANALYZ	W1	DIG	22-FEB-2011 15:44	ERP	RLK
3	STORE	DIG	A2	23-FEB-2011 15:06	RLK	ERP

Samplenum	Container ID	Products
L11020571-02	799622	AL CD-MS CR-MS FE MN-MS SB-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	22-FEB-2011 15:15	RLK	
2	ANALYZ	W1	DIG	22-FEB-2011 15:44	ERP	RLK
3	STORE	DIG	A2	23-FEB-2011 15:06	RLK	ERP

Samplenum	Container ID	Products
L11020571-03	799603	AL CD-MS CR-MS FE MN SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	22-FEB-2011 15:07	RLK	
2	ANALYZ	W1	DIG	22-FEB-2011 15:44	ERP	RLK
3	STORE	DIG	W1	23-FEB-2011 15:06	RLK	ERP

Samplenum	Container ID	Products
L11020571-04	799604	AL CD-MS CR-MS FE MN SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	22-FEB-2011 15:07	RLK	
2	ANALYZ	W1	DIG	22-FEB-2011 15:45	ERP	RLK
3	STORE	DIG	W1	23-FEB-2011 15:06	RLK	ERP

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11020571
Account: 2820
Project: 2820.216
Samples: 13
Due Date: 28-FEB-2011

Samplenum	Container ID	Products
L11020571-05	799605	AL CD-MS CR-MS FE MN SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	22-FEB-2011 15:07	RLK	
2	ANALYZ	W1	DIG	22-FEB-2011 15:44	ERP	RLK
3	STORE	DIG	W1	23-FEB-2011 15:06	RLK	ERP

Samplenum	Container ID	Products
L11020571-06	799606	AL CD-MS CR-MS FE MN SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	22-FEB-2011 15:07	RLK	
2	ANALYZ	W1	DIG	22-FEB-2011 15:44	ERP	RLK
3	STORE	DIG	W1	23-FEB-2011 15:06	RLK	ERP

Samplenum	Container ID	Products
L11020571-07	799607	AL CD-MS CR-MS FE MN SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	22-FEB-2011 15:07	RLK	
2	ANALYZ	W1	DIG	22-FEB-2011 15:44	ERP	RLK
3	STORE	DIG	W1	23-FEB-2011 15:06	RLK	ERP

Samplenum	Container ID	Products
L11020571-08	799608	AL CD-MS CR-MS FE MN SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	22-FEB-2011 15:07	RLK	
2	ANALYZ	W1	DIG	22-FEB-2011 15:44	ERP	RLK
3	STORE	DIG	W1	23-FEB-2011 15:06	RLK	ERP

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11020571
Account: 2820
Project: 2820.216
Samples: 13
Due Date: 28-FEB-2011

Samplenum	Container ID	Products
L11020571-09	799609	AL CD-MS CR-MS FE MN SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	22-FEB-2011 15:07	RLK	
2	ANALYZ	W1	DIG	22-FEB-2011 15:44	ERP	RLK
3	STORE	DIG	W1	23-FEB-2011 15:07	RLK	ERP

Samplenum	Container ID	Products
L11020571-10	799610	AL CD-MS CR-MS FE MN SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	22-FEB-2011 15:07	RLK	
2	ANALYZ	W1	DIG	22-FEB-2011 15:44	ERP	RLK
3	STORE	DIG	W1	23-FEB-2011 15:07	RLK	ERP

Samplenum	Container ID	Products
L11020571-11	799611	AL CD-MS CR-MS FE MN SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	22-FEB-2011 15:07	RLK	
2	ANALYZ	W1	DIG	22-FEB-2011 15:44	ERP	RLK
3	STORE	DIG	W1	23-FEB-2011 15:07	RLK	ERP

Samplenum	Container ID	Products
L11020571-12	799612	AL CD-MS CR-MS FE MN SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	22-FEB-2011 15:07	RLK	
2	ANALYZ	W1	DIG	22-FEB-2011 15:44	ERP	RLK
3	STORE	DIG	W1	23-FEB-2011 15:07	RLK	ERP

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11020571
Account: 2820
Project: 2820.216
Samples: 13
Due Date: 28-FEB-2011

Samplenum	Container ID	Products
L11020571-13	799613	AL CD-MS CR-MS FE MN SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	22-FEB-2011 15:07	RLK	
2	ANALYZ	W1	DIG	22-FEB-2011 15:45	ERP	RLK
3	STORE	DIG	W1	23-FEB-2011 15:07	RLK	ERP

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L11030925 - REVISED

Client: Mary Lou Rochette, 156 Starlite Drive, Marietta, OH, 45750

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	*Team Chemist/Data Specialist*	Kathy.Albertson@microbac.com
Stephanie Mossburg	*Team Chemist/Data Specialist*	Stephanie.Mossburg@microbac.com
Tony Long	*Team Chemist/Data Specialist*	Tony.Long@microbac.com
Amanda Fickiesen	*Client Services Specialist*	Amanda.Fickiesen@microbac.com
Annie Brown	*Client Services Specialist*	Annie.Brown@microbac.com

This report was reviewed on April 11, 2011.

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in this report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on April 11, 2011.

David Vandenberg - Managing Director

State of origin: Virginia
Accrediting authority: N/A ID:N/A
QAPP: DOD Ver 4.1
This report contains a total of 1507 pages.

Look closer. Go further. Do more.

Microbac REPORT L11030925
PREPARED FOR Kemron Environmental Services
WORK ID:

1.0 Introduction 3
2.0 Full Sample Data Package 11
2.1 Metals Data 12
2.1.1 Metals I C P Data 13
2.1.1.1 Summary Data 14
2.1.1.2 QC Summary Data 26
2.1.1.3 Raw Data 80
2.1.2 Metals ICP-MS Data 911
2.1.2.1 Summary Data 912
2.1.2.2 QC Summary Data 922
2.1.2.3 Raw Data 966
2.2 General Chemistry Data 1487
2.2.1 Percent Solids Data 1488
2.2.1.1 Raw Data 1489
3.0 Attachments 1500

1.0 Introduction

LABORATORY REPORT

L11030925

04/11/11 10:09

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Marv Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA
Invoice Number: 615871
P.O. Number: MSA

Sample Summary

Client ID	Lab ID	Date Collected	Date Received
SWMU-57-32511-SS-FC-8'-NUM2	L11030925-01	03/25/2011 13:55	03/28/2011
SWMU-57-32511-SS-4'SW-1	L11030925-02	03/25/2011 14:00	03/28/2011
SWMU-57-32511-SS-7.5'SW2	L11030925-03	03/25/2011 14:45	03/28/2011
SWMU-57-32511-SS-7'SW-3	L11030925-04	03/25/2011 16:25	03/28/2011
SWMU-57-32611-FC-15'-NUM3	L11030925-05	03/26/2011 08:45	03/28/2011
SWMU-57-32611-FC-13'-NUM4	L11030925-06	03/26/2011 09:20	03/28/2011

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number: **L11030925-01** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32511-SS-FC-8'-NU** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/28/2011 12:50**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/28/2011 16:05**
Collect Date: **03/25/2011 13:55** | Dilution: **1** | File ID: **T2.032811.160530**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **77.4**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	18700		19.1	9.56
Antimony, Total	7440-36-0		U	0.956	0.478
Iron, Total	7439-89-6	28300		2.87	1.43
Manganese, Total	7439-96-5	211		0.478	0.239

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11030925-01** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-32511-SS-FC-8'-NU** | Prep Method: **3051A** | Prep Date: **03/28/2011 12:06**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **03/28/2011 11:38**
Workgroup Number: **WG360123** | Analyst: **EDL** | Run Date: **03/28/2011 15:53**
Collect Date: **03/25/2011 13:55** | Dilution: **5** | File ID: **EL.032811.155324**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **77.4**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.627	0.314
Chromium, Total	7440-47-3		U	2.51	1.25

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11030925-01** | PrePrep Method: **NONE** | Instrument: **BAL001**
Client ID: **SWMU-57-32511-SS-FC-8'-NU** | Prep Method: **D2216-90** | Prep Date: **03/29/2011 09:38**
Matrix: **Soil** | Analytical Method: **D2216-90** | Cal Date:
Workgroup Number: **WG360128** | Analyst: **JDH** | Run Date: **03/29/2011 09:38**
Collect Date: **03/25/2011 13:55** | Dilution: **1** | File ID: **B1.360128-0101**
Sample Tag: **01** | Units: **weight %**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	77.4		1.00	1.00

Sample Number: **L11030925-02** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32511-SS-4'SW-1** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/28/2011 12:50**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/28/2011 16:09**
Collect Date: **03/25/2011 14:00** | Dilution: **1** | File ID: **T2.032811.160909**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **75.3**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	27600		20.2	10.1
Antimony, Total	7440-36-0		U	1.01	0.506
Iron, Total	7439-89-6	34200		3.04	1.52
Manganese, Total	7439-96-5	110		0.506	0.253

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number: **L11030925-02** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-32511-SS-4'SW-1** | Prep Method: **3051A** | Prep Date: **03/28/2011 12:07**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **03/28/2011 11:38**
Workgroup Number: **WG360123** | Analyst: **EDL** | Run Date: **03/28/2011 16:00**
Collect Date: **03/25/2011 14:00** | Dilution: **5** | File ID: **EL.032811.160010**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **75.3**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.649	0.324
Chromium, Total	7440-47-3	14.2		2.59	1.30

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11030925-02** | PrePrep Method: **NONE** | Instrument: **BAL001**
Client ID: **SWMU-57-32511-SS-4'SW-1** | Prep Method: **D2216-90** | Prep Date: **03/29/2011 09:38**
Matrix: **Soil** | Analytical Method: **D2216-90** | Cal Date:
Workgroup Number: **WG360128** | Analyst: **JDH** | Run Date: **03/29/2011 09:38**
Collect Date: **03/25/2011 14:00** | Dilution: **1** | File ID: **B1.360128-0102**
Sample Tag: **01** | Units: **weight %**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	75.3		1.00	1.00

Sample Number: **L11030925-03** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32511-SS-7.5'SW2** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/28/2011 12:50**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/28/2011 16:12**
Collect Date: **03/25/2011 14:45** | Dilution: **1** | File ID: **T2.032811.161247**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **78.4**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	22300		19.1	9.55
Antimony, Total	7440-36-0		U	0.955	0.478
Iron, Total	7439-89-6	39100		2.87	1.43
Manganese, Total	7439-96-5	332		0.478	0.239

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11030925-03** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-32511-SS-7.5'SW2** | Prep Method: **3051A** | Prep Date: **03/28/2011 12:07**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **03/28/2011 11:38**
Workgroup Number: **WG360123** | Analyst: **EDL** | Run Date: **03/28/2011 16:09**
Collect Date: **03/25/2011 14:45** | Dilution: **5** | File ID: **EL.032811.160907**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **78.4**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.634	0.317
Chromium, Total	7440-47-3	29.0		2.54	1.27

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number: **L11030925-03** | PrePrep Method: **NONE** | Instrument: **BAL001**
Client ID: **SWMU-57-32511-SS-7.5'SW2** | Prep Method: **D2216-90** | Prep Date: **03/29/2011 09:38**
Matrix: **Soil** | Analytical Method: **D2216-90** | Cal Date:
Workgroup Number: **WG360128** | Analyst: **JDH** | Run Date: **03/29/2011 09:38**
Collect Date: **03/25/2011 14:45** | Dilution: **1** | File ID: **B1.360128-0103**
Sample Tag: **01** | Units: **weight %**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	78.4		1.00	1.00

Sample Number: **L11030925-04** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32511-SS-7'SW-3** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/28/2011 12:50**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/28/2011 16:16**
Collect Date: **03/25/2011 16:25** | Dilution: **1** | File ID: **T2.032811.161624**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **79.3**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	21300		17.2	8.59
Antimony, Total	7440-36-0		U	0.859	0.429
Iron, Total	7439-89-6	27400		2.58	1.29
Manganese, Total	7439-96-5	223		0.429	0.215

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11030925-04** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-32511-SS-7'SW-3** | Prep Method: **3051A** | Prep Date: **03/28/2011 12:08**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **03/28/2011 11:38**
Workgroup Number: **WG360123** | Analyst: **EDL** | Run Date: **03/28/2011 16:15**
Collect Date: **03/25/2011 16:25** | Dilution: **5** | File ID: **EL.032811.161552**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **79.3**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.625	0.312
Chromium, Total	7440-47-3	13.1		2.50	1.25

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11030925-04** | PrePrep Method: **NONE** | Instrument: **BAL001**
Client ID: **SWMU-57-32511-SS-7'SW-3** | Prep Method: **D2216-90** | Prep Date: **03/29/2011 09:38**
Matrix: **Soil** | Analytical Method: **D2216-90** | Cal Date:
Workgroup Number: **WG360128** | Analyst: **JDH** | Run Date: **03/29/2011 09:38**
Collect Date: **03/25/2011 16:25** | Dilution: **1** | File ID: **B1.360128-0104**
Sample Tag: **01** | Units: **weight %**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	79.3		1.00	1.00

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number: **L11030925-05** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32611-FC-15'-NUM3** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/29/2011 11:14**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/29/2011 11:45**
Collect Date: **03/26/2011 08:45** | Dilution: **5** | File ID: **T2.032911.114524**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	4.86	2.43

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11030925-05** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32611-FC-15'-NUM3** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/29/2011 11:14**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/29/2011 11:48**
Collect Date: **03/26/2011 08:45** | Dilution: **500** | File ID: **T2.032911.114855**
Sample Tag: **DL02** | Units: **mg/kg** | Percent Solid: **75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Iron, Total	7439-89-6	91900		1460	729

Sample Number: **L11030925-05** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32611-FC-15'-NUM3** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/28/2011 12:50**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/28/2011 16:20**
Collect Date: **03/26/2011 08:45** | Dilution: **1** | File ID: **T2.032811.162002**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	12300		19.4	9.72
Manganese, Total	7439-96-5	444		0.486	0.243

Sample Number: **L11030925-05** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-32611-FC-15'-NUM3** | Prep Method: **3051A** | Prep Date: **03/28/2011 12:09**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **03/29/2011 09:14**
Workgroup Number: **WG360123** | Analyst: **EDL** | Run Date: **03/29/2011 14:56**
Collect Date: **03/26/2011 08:45** | Dilution: **5** | File ID: **EL.032911.145614**
Sample Tag: **DL02** | Units: **mg/kg** | Percent Solid: **75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.657	0.329
Chromium, Total	7440-47-3	4.76		2.63	1.31

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number: **L11030925-05** | PrePrep Method: **NONE** | Instrument: **BAL001**
Client ID: **SWMU-57-32611-FC-15'-NUM3** | Prep Method: **D2216-90** | Prep Date: **03/29/2011 09:38**
Matrix: **Soil** | Analytical Method: **D2216-90** | Cal Date:
Workgroup Number: **WG360128** | Analyst: **JDH** | Run Date: **03/29/2011 09:38**
Collect Date: **03/26/2011 08:45** | Dilution: **1** | File ID: **B1.360128-0105**
Sample Tag: **01** | Units: **weight %**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	75.2		1.00	1.00

Sample Number: **L11030925-06** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32611-FC-13'-NUM4** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/28/2011 12:50**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/28/2011 16:23**
Collect Date: **03/26/2011 09:20** | Dilution: **1** | File ID: **T2.032811.162340**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **77.8**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	13300		17.6	8.81
Antimony, Total	7440-36-0		U	0.881	0.441
Iron, Total	7439-89-6	22800		2.64	1.32
Manganese, Total	7439-96-5	259		0.441	0.220

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11030925-06** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-32611-FC-13'-NUM4** | Prep Method: **3051A** | Prep Date: **03/28/2011 12:09**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **03/28/2011 11:38**
Workgroup Number: **WG360123** | Analyst: **EDL** | Run Date: **03/28/2011 16:30**
Collect Date: **03/26/2011 09:20** | Dilution: **5** | File ID: **EL.032811.163009**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **77.8**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.636	0.318
Chromium, Total	7440-47-3	17.6		2.54	1.27

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11030925-06** | PrePrep Method: **NONE** | Instrument: **BAL001**
Client ID: **SWMU-57-32611-FC-13'-NUM4** | Prep Method: **D2216-90** | Prep Date: **03/29/2011 09:38**
Matrix: **Soil** | Analytical Method: **D2216-90** | Cal Date:
Workgroup Number: **WG360128** | Analyst: **JDH** | Run Date: **03/29/2011 09:38**
Collect Date: **03/26/2011 09:20** | Dilution: **1** | File ID: **B1.360128-0106**
Sample Tag: **01** | Units: **weight %**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	77.8		1.00	1.00

Login Number: L11030925

Department: Login

Chain of Custody:

Shipment Conditions

COC #	Cooler #	Temperature
2164	0013037	1.0

Sample Management: All samples were received intact.

Sample Identification

Lab ID	Client ID
L11030925-01	SWMU-57-32511-SS-FC-8'-NUM2
L11030925-02	SWMU-57-32511-SS-4'SW-1
L11030925-03	SWMU-57-32511-SS-7.5'SW2
L11030925-04	SWMU-57-32511-SS-7.5'SW-3
L11030925-05	SWMU-57-32611-FC-15'-NUM3
L11030925-06	SWMU-57-32611-FC-13'-NUM4

Narrative ID: 24343
Approved By: Stephanie Mossburg
Stephanie Mossburg

2.0 Full Sample Data Package

2.1 Metals Data

2.1.1 Metals I C P Data

2.1.1.1 Summary Data

Login Number: L11030925

Department: Metals

Analyst: Ji Hu

METHOD

Preparation: SW-846 3051

Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG360132 - All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: WG360132 - Due to a result that was noncompliant on the negative side upon initial analysis, antimony for client sample 05 was reported from a dilution analysis. Client sample 05 required a greater dilution analysis in order to obtain a result for iron within the calibration range.

Narrative ID: 24455
Approved By: Sheri Pfalzgraf

LABORATORY REPORT

L11030925

04/11/11 10:09

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA
Invoice Number: 615871
P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SWMU-57-32511-SS-FC-8'-NUM2	L11030925-01	6010B	1	28-MAR-11
SWMU-57-32511-SS-4'SW-1	L11030925-02	6010B	1	28-MAR-11
SWMU-57-32511-SS-7.5'SW2	L11030925-03	6010B	1	28-MAR-11
SWMU-57-32511-SS-7'SW-3	L11030925-04	6010B	1	28-MAR-11
SWMU-57-32611-FC-15'-NUM3	L11030925-05	6010B	5	28-MAR-11
SWMU-57-32611-FC-15'-NUM3	L11030925-05	6010B	500	28-MAR-11
SWMU-57-32611-FC-15'-NUM3	L11030925-05	6010B	1	28-MAR-11
SWMU-57-32611-FC-13'-NUM4	L11030925-06	6010B	1	28-MAR-11

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	L11030925-01	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32511-SS-FC-8'-NUI	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/28/2011 12:50
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/28/2011 16:05
Collect Date:	03/25/2011 13:55	Dilution:	1	File ID:	T2.032811.160530
Sample Tag:	01	Units:	mg/kg	Percent Solid:	77.4

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	18700		19.1	9.56
Antimony, Total	7440-36-0		U	0.956	0.478
Iron, Total	7439-89-6	28300		2.87	1.43
Manganese, Total	7439-96-5	211		0.478	0.239

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	L11030925-02	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32511-SS-4'SW-1	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/28/2011 12:50
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/28/2011 16:09
Collect Date:	03/25/2011 14:00	Dilution:	1	File ID:	T2.032811.160909
Sample Tag:	01	Units:	mg/kg	Percent Solid:	75.3

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	27600		20.2	10.1
Antimony, Total	7440-36-0		U	1.01	0.506
Iron, Total	7439-89-6	34200		3.04	1.52
Manganese, Total	7439-96-5	110		0.506	0.253

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	L11030925-03	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32511-SS-7.5'SW2	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/28/2011 12:50
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/28/2011 16:12
Collect Date:	03/25/2011 14:45	Dilution:	1	File ID:	T2.032811.161247
Sample Tag:	01	Units:	mg/kg	Percent Solid:	78.4

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	22300		19.1	9.55
Antimony, Total	7440-36-0		U	0.955	0.478
Iron, Total	7439-89-6	39100		2.87	1.43
Manganese, Total	7439-96-5	332		0.478	0.239

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	L11030925-04	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32511-SS-7'SW-3	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/28/2011 12:50
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/28/2011 16:16
Collect Date:	03/25/2011 16:25	Dilution:	1	File ID:	T2.032811.161624
Sample Tag:	01	Units:	mg/kg	Percent Solid:	79.3

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	21300		17.2	8.59
Antimony, Total	7440-36-0		U	0.859	0.429
Iron, Total	7439-89-6	27400		2.58	1.29
Manganese, Total	7439-96-5	223		0.429	0.215

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	L11030925-05	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32611-FC-15'-NUM3	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/29/2011 11:14
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/29/2011 11:45
Collect Date:	03/26/2011 08:45	Dilution:	5	File ID:	T2.032911.114524
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	75.2

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	4.86	2.43

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	**L11030925-05**	PrePrep Method:	**NONE**	Instrument:	**ICP-THERMO2**
Client ID:	**SWMU-57-32611-FC-15'-NUM3**	Prep Method:	**3051A**	Prep Date:	**03/28/2011 11:56**
Matrix:	**Soil**	Analytical Method:	**6010B**	Cal Date:	**03/29/2011 11:14**
Workgroup Number:	**WG360132**	Analyst:	**JYH**	Run Date:	**03/29/2011 11:48**
Collect Date:	**03/26/2011 08:45**	Dilution:	**500**	File ID:	**T2.032911.114855**
Sample Tag:	**DL02**	Units:	**mg/kg**	Percent Solid:	**75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Iron, Total	**7439-89-6**	**91900**		**1460**	**729**

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	L11030925-05	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32611-FC-15'-NUM3	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/28/2011 12:50
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/28/2011 16:20
Collect Date:	03/26/2011 08:45	Dilution:	1	File ID:	T2.032811.162002
Sample Tag:	01	Units:	mg/kg	Percent Solid:	75.2

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	12300		19.4	9.72
Manganese, Total	7439-96-5	444		0.486	0.243

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	L11030925-06	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32611-FC-13'-NUM4	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/28/2011 12:50
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/28/2011 16:23
Collect Date:	03/26/2011 09:20	Dilution:	1	File ID:	T2.032811.162340
Sample Tag:	01	Units:	mg/kg	Percent Solid:	77.8

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	13300		17.6	8.81
Antimony, Total	7440-36-0		U	0.881	0.441
Iron, Total	7439-89-6	22800		2.64	1.32
Manganese, Total	7439-96-5	259		0.441	0.220

U Analyte was not detected. The concentration is below the reported LOD.

2.1.1.2 QC Summary Data

Example 6010 Calculations
Thermo Scientific iCAP 6500

1.0 Initial Calibration (ICAL) Parameters
For a multi-point calibration, the system performs linear regression from data consisting of a blank and four standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system in ug/mL (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial volume (mL)	50
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/mL (mg/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (mg/L) (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial weight (g)	1
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/g (mg/kg)	5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	5
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (mg/kg)	6.25

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG360099
Analyst: REK
Spike Analyst: ERP
Run Date: 03/28/2011 11:56
Method: 3051A
Balance: BAL014
Instrument: MW-1

SOP: ME406 Revison 12
Spike Solution: STD39933
Spike Witness: VC
HNO3 Lot #: COA15168
HCL Lot #: COA15185
Digestion Tubes Lot #: COA15251

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG360099-02	BLANK	10	1 g	50 mL	175.99 g	175.977 g		
2	WG360099-03	LCS	10	1 g	50 mL	182.308 g	182.298 g	5 mL	
3	L11030823-27	SAMP	7	1.355 g	50 mL	177.301 g	177.286 g		03/31/11
4	L11030823-28	SAMP	7	1.438 g	50 mL	176.481 g	176.327 g		03/31/11
5	L11030823-29	SAMP	7	1.368 g	50 mL	180.067 g	179.877 g		03/31/11
6	L11030823-30	SAMP	7	1.361 g	50 mL	177.392 g	177.14 g		03/31/11
7	L11030823-31	SAMP	7	1.404 g	50 mL	180.323 g	180.181 g		03/31/11
8	L11030823-32	SAMP	7	1.361 g	50 mL	177.454 g	177.368 g		03/31/11
9	L11030823-33	SAMP	7	1.32 g	50 mL	180.471 g	180.4 g		03/31/11
10	L11030823-34	SAMP	7	1.303 g	50 mL	176.041 g	175.97 g		03/31/11
11	L11030823-35	SAMP	7	1.368 g	50 mL	177.792 g	177.724 g		03/31/11
12	L11030921-01	SAMP	10	1.004 g	50 mL	176.16 g	175.925 g		03/31/11
13	L11030925-01	SAMP	7	1.352 g	50 mL	178.776 g	178.746 g		03/29/11
14	L11030925-02	SAMP	7	1.313 g	50 mL	178.049 g	178.008 g		03/29/11
15	L11030925-03	SAMP	7	1.336 g	50 mL	176.977 g	176.958 g		03/29/11
16	L11030925-04	SAMP	7	1.469 g	50 mL	178.86 g	178.839 g		03/29/11
17	L11030925-05	SAMP	7	1.368 g	50 mL	179.657 g	179.638 g		03/29/11
18	L11030925-06	SAMP	7	1.458 g	50 mL	176.865 g	176.831 g		03/29/11
19	WG360099-01	REF	7	1.312 g	50 mL	177.525 g	177.475 g		
20	L11030926-01	RS01	7	1.312 g	50 mL	177.525 g	177.475 g		03/31/11
21	L11030926-02	SAMP	7	1.367 g	50 mL	179.724 g	179.703 g		03/31/11
22	WG360099-04	MS	7	1.312 g	50 mL	184.199 g	184.197 g	5 mL	
23	L11030926-03	MS01	7	1.312 g	50 mL	184.199 g	184.197 g	5 mL	03/31/11
24	WG360099-05	MSD	7	1.312 g	50 mL	183.65 g	183.64 g	5 mL	
25	L11030926-04	SD01	7	1.312 g	50 mL	183.65 g	183.64 g	5 mL	03/31/11
26	L11030926-05	SAMP	7	1.344 g	50 mL	178.802 g	178.792 g		03/31/11
27	L11030926-06	SAMP	7	1.434 g	50 mL	176.786 g	176.775 g		03/31/11

Analyst: [signature]

Reviewer: Brenda Gregory

MW_DIG - Modified 09/30/2009
PDF ID: 1955215
Report generated: 03/28/2011 12:46

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032811T2.1
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36866

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD4444368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 359705,360037,360132,360097,360131

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	T2.032811.123610	WG360412-01	Calibration Point		1		03/28/11 12:36
2	T2.032811.123951	WG360412-02	Calibration Point		1		03/28/11 12:39
3	T2.032811.124332	WG360412-03	Calibration Point		1		03/28/11 12:43
4	T2.032811.124711	WG360412-04	Calibration Point		1		03/28/11 12:47
5	T2.032811.125038	WG360412-05	Calibration Point		1		03/28/11 12:50
6	T2.032811.125407	WG360412-06	Initial Calibration Verification		1		03/28/11 12:54
7	T2.032811.125733	WG360412-07	Initial Calib Blank		1		03/28/11 12:57
8	T2.032811.130115	WG360412-08	Low Level Initial Calibration V		1		03/28/11 13:01
9	T2.032811.130458	WG360412-09	Interference Check		1		03/28/11 13:04
10	T2.032811.130839	WG360412-10	Interference Check		1		03/28/11 13:08
11	T2.032811.131217	WG360412-11	CCV		1		03/28/11 13:12
12	T2.032811.131543	WG360412-12	CCB		1		03/28/11 13:15
13	T2.032811.131929	WG359605-02	Method/Prep Blank	1/50	1		03/28/11 13:19
14	T2.032811.132310	WG359605-03	Laboratory Control S	1/50	1		03/28/11 13:23
15	T2.032811.132636	L11030612-21	S-5-2.5-NS		1	WG359605-01	03/28/11 13:26
16	T2.032811.133011	L11030612-22	S-5-2.5-NS-MS	1.35/50	1	WG359605-04	03/28/11 13:30
17	T2.032811.133349	L11030612-23	S-5-2.5-NS-MSD	1.35/50	1	WG359605-05	03/28/11 13:33
18	T2.032811.133724	L11030721-01	LMF-20110201	1.061/50	50		03/28/11 13:37
19	T2.032811.134055	L11030721-02	LMF-20110225	1.072/50	50		03/28/11 13:40
20	T2.032811.134428	WG359705-05	Post Digestion Spike		50	L11030721-02	03/28/11 13:44
21	T2.032811.134753	WG359705-06	Serial Dilution		250	L11030721-02	03/28/11 13:47
22	T2.032811.135129	WG359705-06	Serial Dilution		1250	L11030721-02	03/28/11 13:51
23	T2.032811.135513	WG360412-13	CCV		1		03/28/11 13:55
24	T2.032811.135839	WG360412-14	CCB		1		03/28/11 13:58
25	T2.032811.140222	WG360412-15	Low Level Continuing Calibra		1		03/28/11 14:02
26	T2.032811.140603	L11030460-28	11506-C0016	1.012/50	5		03/28/11 14:06
27	T2.032811.140941	L11030460-29	11507-C0001		5	WG359714-01	03/28/11 14:09
28	T2.032811.141316	L11030460-30	11507-C0001-MS	1.008/50	5	WG359714-04	03/28/11 14:13
29	T2.032811.141647	L11030460-31	11507-C0001-MSD	1.008/50	5	WG359714-05	03/28/11 14:16
30	T2.032811.142025	L11030460-41	11507-C0011	1.012/50	5		03/28/11 14:20
31	T2.032811.142403	L11030460-42	11507-C0012	1.022/50	5		03/28/11 14:24
32	T2.032811.142741	L11030460-43	11507-C0013	1.007/50	5		03/28/11 14:27
33	T2.032811.143119	L11030460-44	11507-C0014	1.006/50	5		03/28/11 14:31
34	T2.032811.143457	L11030460-45	11507-C0015	1.003/50	5		03/28/11 14:34

Page: 1 Approved: March 29, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032811T2.1
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36866

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD4444368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 359705,360037,360132,360097,360131

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	T2.032811.143835	L11030460-46	11507-C0016	1.007/50	5		03/28/11 14:38
36	T2.032811.144219	WG360412-16	CCV		1		03/28/11 14:42
37	T2.032811.144545	WG360412-17	CCB		1		03/28/11 14:45
38	T2.032811.144930	L11030460-47	11508-C0001	1.007/50	5		03/28/11 14:49
39	T2.032811.145307	L11030460-48	11508-C0002	1.007/50	5		03/28/11 14:53
40	T2.032811.145644	L11030461-01	11508-C0003	1.008/50	5		03/28/11 14:56
41	T2.032811.150027	WG360412-18	CCV		1		03/28/11 15:00
42	T2.032811.150353	WG360412-19	CCB		1		03/28/11 15:03
43	T2.032811.150737	WG360099-02	Method/Prep Blank	1/50	1		03/28/11 15:07
44	T2.032811.151118	WG360099-03	Laboratory Control S	1/50	1		03/28/11 15:11
45	T2.032811.151444	WG360412-20	Linear Range Check		1		03/28/11 15:14
46	T2.032811.151822	WG360412-20	Linear Range Check		1		03/28/11 15:18
47	T2.032811.152203	WG360412-20	Linear Range Check		1		03/28/11 15:22
48	T2.032811.152545	L11030926-01	SWMU-57-32511-SS-FC-2'-N		1	WG360099-01	03/28/11 15:25
49	T2.032811.152922	L11030926-03	SWMU-57-32511-SS-MS	1.312/50	1	WG360099-04	03/28/11 15:29
50	T2.032811.153258	L11030926-04	SWMU-57-32511-SS-MSD	1.312/50	1	WG360099-05	03/28/11 15:32
51	T2.032811.153635	L11030926-02	SWMU-57-32511-SS-DUP	1.367/50	1		03/28/11 15:36
52	T2.032811.154012	WG360132-01	Post Digestion Spike		1	L11030926-02	03/28/11 15:40
53	T2.032811.154358	WG360412-21	CCV		1		03/28/11 15:43
54	T2.032811.154723	WG360412-22	CCB		1		03/28/11 15:47
55	T2.032811.155109	WG360132-01	Post Digestion Spike		5	L11030926-02	03/28/11 15:51
56	T2.032811.155442	L11030926-02	SWMU-57-32511-SS-DUP	1.367/50	5		03/28/11 15:54
57	T2.032811.155819	WG360132-02	Serial Dilution		25	L11030926-02	03/28/11 15:58
58	T2.032811.160153	WG360132-02	Serial Dilution		125	L11030926-02	03/28/11 16:01
59	T2.032811.160530	L11030925-01	SWMU-57-32511-SS-FC-8'-N	1.352/50	1		03/28/11 16:05
60	T2.032811.160909	L11030925-02	SWMU-57-32511-SS-4'SW-1	1.313/50	1		03/28/11 16:09
61	T2.032811.161247	L11030925-03	SWMU-57-32511-SS-7.5'SW	1.336/50	1		03/28/11 16:12
62	T2.032811.161624	L11030925-04	SWMU-57-32511-SS-7.5'SW	1.469/50	1		03/28/11 16:16
63	T2.032811.162002	L11030925-05	SWMU-57-32611-FC-15'-NU	1.368/50	1		03/28/11 16:20
64	T2.032811.162340	L11030925-06	SWMU-57-32611-FC-13'-NU	1.458/50	1		03/28/11 16:23
65	T2.032811.162724	WG360412-23	CCV		1		03/28/11 16:27
66	T2.032811.163049	WG360412-24	CCB		1		03/28/11 16:30
67	T2.032811.163434	L11030926-05	SWMU-57-32511-SS-FC-B3-	1.344/50	1		03/28/11 16:34
68	T2.032811.163812	L11030926-06	SWMU-57-32611-SS-2.5' SW	1.434/50	1		03/28/11 16:38

Page: 2 Approved: March 29, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032811T2.1
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36866

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD4444368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 359705,360037,360132,360097,360131

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	T2.032811.164150	L11030925-01	SWMU-57-32511-SS-FC-8'-N	1.352/50	100		03/28/11 16:41
70	T2.032811.164527	L11030925-02	SWMU-57-32511-SS-4'SW-1	1.313/50	100		03/28/11 16:45
71	T2.032811.164905	L11030925-03	SWMU-57-32511-SS-7.5'SW	1.336/50	100		03/28/11 16:49
72	T2.032811.165242	L11030925-04	SWMU-57-32511-SS-7.5'SW	1.469/50	100		03/28/11 16:52
73	T2.032811.165619	L11030925-05	SWMU-57-32611-FC-15'-NU	1.368/50	100		03/28/11 16:56
74	T2.032811.165958	L11030925-06	SWMU-57-32611-FC-13'-NU	1.458/50	100		03/28/11 16:59
75	T2.032811.170336	L11030926-05	SWMU-57-32511-SS-FC-B3-	1.344/50	100		03/28/11 17:03
76	T2.032811.170714	L11030926-06	SWMU-57-32611-SS-2.5' SW	1.434/50	100		03/28/11 17:07
77	T2.032811.171057	WG360412-25	CCV		1		03/28/11 17:10
78	T2.032811.171422	WG360412-26	CCB		1		03/28/11 17:14
79	T2.032811.171807	L11030823-27	13989-C0024	1.355/50	1		03/28/11 17:18
80	T2.032811.172140	L11030823-28	13989-C0025	1.438/50	1		03/28/11 17:21
81	T2.032811.172516	L11030823-29	13989-C0026	1.368/50	1		03/28/11 17:25
82	T2.032811.172852	L11030823-30	13989-C0027	1.361/50	1		03/28/11 17:28
83	T2.032811.173226	L11030823-31	13989-C0028	1.404/50	1		03/28/11 17:32
84	T2.032811.173559	L11030823-32	13989-C0029	1.361/50	1		03/28/11 17:35
85	T2.032811.173931	L11030823-33	13989-C0030	1.32/50	1		03/28/11 17:39
86	T2.032811.174312	L11030823-34	13989-C0031	1.303/50	1		03/28/11 17:43
87	T2.032811.174648	L11030823-35	13989-C0032	1.368/50	1		03/28/11 17:46
88	T2.032811.175024	L11030921-01	\#3	1.004/50	1		03/28/11 17:50
89	T2.032811.175447	WG360412-27	CCV		1		03/28/11 17:54
90	T2.032811.175811	WG360412-28	CCB		1		03/28/11 17:58
91	T2.032811.180153	L11030926-01	SWMU-57-32511-SS-FC-2'-N		100	WG360099-01	03/28/11 18:01
92	T2.032811.180530	L11030926-03	SWMU-57-32511-SS-MS	1.312/50	100	WG360099-04	03/28/11 18:05
93	T2.032811.180908	L11030926-04	SWMU-57-32511-SS-MSD	1.312/50	100	WG360099-05	03/28/11 18:09
94	T2.032811.181250	WG360412-29	CCV		1		03/28/11 18:12
95	T2.032811.181614	WG360412-30	CCB		1		03/28/11 18:16
96	T2.032811.181959	WG359838-02	Method/Prep Blank	1/50	1		03/28/11 18:19
97	T2.032811.182340	WG359838-03	Laboratory Control S	1/50	1		03/28/11 18:23
98	T2.032811.182717	L11030685-23	13666-C0010	1.477/50	1		03/28/11 18:27
99	T2.032811.183051	WG360097-01	Post Digestion Spike		1	L11030685-23	03/28/11 18:30
100	T2.032811.183421	WG360097-02	Serial Dilution		5	L11030685-23	03/28/11 18:34
101	T2.032811.183751	WG360097-02	Serial Dilution		25	L11030685-23	03/28/11 18:37
102	T2.032811.184136	L11030685-24	13666-C0011	1.358/50	1		03/28/11 18:41

Page: 3 Approved: March 29, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032811T2.1
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36866

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD4444368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 359705,360037,360132,360097,360131

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	T2.032811.184518	WG360412-31	CCV		1		03/28/11 18:45
104	T2.032811.184842	WG360412-32	CCB		1		03/28/11 18:48
105	T2.032811.185232	L11030685-25	13666-C0012	1.329/50	1		03/28/11 18:52
106	T2.032811.185607	L11030685-26	13666-C0013	1.348/50	1		03/28/11 18:56
107	T2.032811.185942	L11030685-27	13666-C0014	1.413/50	1		03/28/11 18:59
108	T2.032811.190318	L11030685-28	13666-C0015	1.332/50	1		03/28/11 19:03
109	T2.032811.190702	L11030685-29	13666-C0016	1.404/50	1		03/28/11 19:07
110	T2.032811.191045	L11030685-30	13666-C0017	1.368/50	1		03/28/11 19:10
111	T2.032811.191436	L11030685-31	13666-C0018	1.302/50	1		03/28/11 19:14
112	T2.032811.191829	L11030685-32	13666-C0019	1.39/50	1		03/28/11 19:18
113	T2.032811.192229	L11030685-33	13666-C0020	1.407/50	1		03/28/11 19:22
114	T2.032811.192604	L11030685-34	13666-C0021	1.359/50	1		03/28/11 19:26
115	T2.032811.192947	WG360412-33	CCV		1		03/28/11 19:29
116	T2.032811.193312	WG360412-34	CCB		1		03/28/11 19:33
117	T2.032811.193701	L11030685-35	13666-C0022		1	WG359838-01	03/28/11 19:37
118	T2.032811.194036	L11030685-36	13666-C0022-MS	1.406/50	1	WG359838-04	03/28/11 19:40
119	T2.032811.194417	L11030685-37	13666-C0022-MSD	1.406/50	1	WG359838-05	03/28/11 19:44
120	T2.032811.194758	L11030685-38	13666-C0023	1.395/50	1		03/28/11 19:47
121	T2.032811.195134	L11030685-39	13666-C0024	1.338/50	1		03/28/11 19:51
122	T2.032811.195517	L11030685-40	13666-C0025	1.351/50	1		03/28/11 19:55
123	T2.032811.195854	L11030685-41	13666-C0026	1.38/50	1		03/28/11 19:58
124	T2.032811.200236	L11030685-42	13666-C0027	1.4/50	1		03/28/11 20:02
125	T2.032811.200615	L11030685-43	13666-C0028	1.376/50	1		03/28/11 20:06
126	T2.032811.200957	L11030685-44	13666-C0029	1.306/50	1		03/28/11 20:09
127	T2.032811.201339	WG360412-35	CCV		1		03/28/11 20:13
128	T2.032811.201703	WG360412-36	CCB		1		03/28/11 20:17
129	T2.032811.202052	WG359844-02	Method/Prep Blank	1/50	1		03/28/11 20:20
130	T2.032811.202432	WG359844-03	Laboratory Control S	1/50	1		03/28/11 20:24
131	T2.032811.202809	L11030686-19	13977-C0010	1.32/50	1		03/28/11 20:28
132	T2.032811.203144	WG360131-01	Post Digestion Spike		1	L11030686-19	03/28/11 20:31
133	T2.032811.203515	WG360131-02	Serial Dilution		5	L11030686-19	03/28/11 20:35
134	T2.032811.203844	WG360131-02	Serial Dilution		25	L11030686-19	03/28/11 20:38
135	T2.032811.204222	L11030686-20	13977-C0011	1.318/50	1		03/28/11 20:42
136	T2.032811.204558	L11030686-21	13977-C0012	1.305/50	1		03/28/11 20:45

Page: 4 Approved: March 29, 2011

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032811T2.1
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36866

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD4444368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 359705,360037,360132,360097,360131

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
137	T2.032811.204938	L11030686-22	13977-C0013	1.319/50	1		03/28/11 20:49
138	T2.032811.205314	L11030686-23	13977-C0014	1.371/50	1		03/28/11 20:53
139	T2.032811.205657	WG360412-37	CCV		1		03/28/11 20:56
140	T2.032811.210022	WG360412-38	CCB		1		03/28/11 21:00
141	T2.032811.210408	L11030686-24	13977-C0015	1.398/50	1		03/28/11 21:04
142	T2.032811.210743	L11030686-25	13977-C0016	1.398/50	1		03/28/11 21:07
143	T2.032811.211119	L11030686-26	13977-C0017	1.352/50	1		03/28/11 21:11
144	T2.032811.211503	L11030686-27	13977-C0018	1.394/50	1		03/28/11 21:15
145	T2.032811.211838	L11030686-28	13977-C0019	1.459/50	1		03/28/11 21:18
146	T2.032811.212214	L11030686-29	13977-C0020	1.408/50	1		03/28/11 21:22
147	T2.032811.212550	L11030686-30	13977-C0021	1.424/50	1		03/28/11 21:25
148	T2.032811.212926	L11030686-31	14029-C0001		1	WG359844-01	03/28/11 21:29
149	T2.032811.213302	L11030686-32	14029-C0001-MS	1.45/50	1	WG359844-04	03/28/11 21:33
150	T2.032811.213636	L11030686-33	14029-C0001-MSD	1.45/50	1	WG359844-05	03/28/11 21:36
151	T2.032811.214019	WG360412-39	CCV		1		03/28/11 21:40
152	T2.032811.214343	WG360412-40	CCB		1		03/28/11 21:43
153	T2.032811.214728	L11030686-34	14029-C0002	1.333/50	1		03/28/11 21:47
154	T2.032811.215104	L11030686-35	14029-C0003	1.444/50	1		03/28/11 21:51
155	T2.032811.215448	L11030686-36	14029-C0004	1.383/50	1		03/28/11 21:54
156	T2.032811.215824	L11030686-40	14029-C0006	1.303/50	1		03/28/11 21:58
157	T2.032811.220159	L11030686-41	14029-C0007	1.32/50	1		03/28/11 22:01
158	T2.032811.220535	L11030686-42	14029-C0008	1.438/50	1		03/28/11 22:05
159	T2.032811.220911	L11030686-43	14029-C0009	1.444/50	1		03/28/11 22:09
160	T2.032811.221250	WG360412-41	CCV		1		03/28/11 22:12
161	T2.032811.221615	WG360412-42	CCB		1		03/28/11 22:16
162	T2.032811.221954	-	L		1		03/28/11 22:19
163	T2.032811.222338	-	L		1		03/28/11 22:23
164	T2.032811.222724	-	L		1		03/28/11 22:27
165	T2.032811.223110	-	L		1		03/28/11 22:31
166	T2.032811.223454	-	L		1		03/28/11 22:34
167	T2.032811.223838	-	L		1		03/28/11 22:38
168	T2.032811.224217	-	L		1		03/28/11 22:42
169	T2.032811.224559	-	L		1		03/28/11 22:45
170	T2.032811.224940	-	L		1		03/28/11 22:49

Page: 5 Approved: March 29, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032811T2.1
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36866

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD4444368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 359705,360037,360132,360097,360131

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
171	T2.032811.225322	-	L		1		03/28/11 22:53

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	T2.032911.110024	WG360276-01	Calibration Point		1		03/29/11 11:00
2	T2.032911.110406	WG360276-02	Calibration Point		1		03/29/11 11:04
3	T2.032911.110745	WG360276-03	Calibration Point		1		03/29/11 11:07
4	T2.032911.111125	WG360276-04	Calibration Point		1		03/29/11 11:11
5	T2.032911.111448	WG360276-05	Calibration Point		1		03/29/11 11:14
6	T2.032911.112011	WG360276-06	Initial Calibration Verification		1		03/29/11 11:20
7	T2.032911.112332	WG360276-07	Initial Calib Blank		1		03/29/11 11:23
8	T2.032911.112715	WG360276-08	Low Level Initial Calibration V		1		03/29/11 11:27
9	T2.032911.113054	WG360276-09	Interference Check		1		03/29/11 11:30
10	T2.032911.113435	WG360276-10	Interference Check		1		03/29/11 11:34
11	T2.032911.113814	WG360276-11	CCV		1		03/29/11 11:38
12	T2.032911.114136	WG360276-12	CCB		1		03/29/11 11:41
13	T2.032911.114524	L11030925-05	SWMU-57-32611-FC-15'-NU	1.368/50	5		03/29/11 11:45
14	T2.032911.114855	L11030925-05	SWMU-57-32611-FC-15'-NU		500		03/29/11 11:48
15	T2.032911.115242	WG360276-13	CCV		1		03/29/11 11:52
16	T2.032911.115604	WG360276-14	CCB		1		03/29/11 11:56
17	T2.032911.115950	WG360050-02	Method/Prep Blank	1/50	1		03/29/11 11:59
18	T2.032911.120331	WG360050-03	Laboratory Control S	1/50	1		03/29/11 12:03
19	T2.032911.120656	L11030873-01	MATERIAL	1.005/50	1		03/29/11 12:06
20	T2.032911.121034	WG360050-01	Reference Sample		1	L11030893-05	03/29/11 12:10
21	T2.032911.121420	WG360050-04	Matrix Spike	1.372/50	1	L11030893-05	03/29/11 12:14
22	T2.032911.121806	WG360050-05	Matrix Spike Duplica	1.372/50	1	L11030893-05	03/29/11 12:18
23	T2.032911.122152	L11030893-01	PFG6089	1.319/50	1		03/29/11 12:21
24	T2.032911.122529	WG360207-01	Post Digestion Spike		1	L11030893-01	03/29/11 12:25
25	T2.032911.122906	L11030893-01	PFG6089		5		03/29/11 12:29
26	T2.032911.123236	WG360207-02	Serial Dilution		25	L11030893-01	03/29/11 12:32
27	T2.032911.123618	WG360276-15	CCV		1		03/29/11 12:36
28	T2.032911.123940	WG360276-16	CCB		1		03/29/11 12:39
29	T2.032911.124329	L11030893-02	PFG6090	1.326/50	1		03/29/11 12:43
30	T2.032911.124709	L11030893-03	PFG6091	1.376/50	1		03/29/11 12:47
31	T2.032911.125047	L11030893-04	PFG6092	1.326/50	1		03/29/11 12:50
32	T2.032911.125433	WG360276-17	Linear Range Check		1		03/29/11 12:54
33	T2.032911.125815	L11030693-32	9440-C0028	1.318/50	1		03/29/11 12:58
34	T2.032911.130149	L11030693-33	9440-C0029	1.306/50	1		03/29/11 13:01

Page: 1 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	T2.032911.130522	L11030693-37	9440-C0031	1.452/50	1		03/29/11 13:05
36	T2.032911.130853	L11030693-38	9440-C0032	1.471/50	1		03/29/11 13:08
37	T2.032911.131226	L11030693-39	9440-C0033	1.318/50	1		03/29/11 13:12
38	T2.032911.131606	WG360276-18	CCV		1		03/29/11 13:16
39	T2.032911.131930	WG360276-19	CCB		1		03/29/11 13:19
40	T2.032911.132314	WG360276-20	Low Level Continuing Calibra		1		03/29/11 13:23
41	T2.032911.132654	L11030693-40	9440-C0034	1.433/50	1		03/29/11 13:26
42	T2.032911.133035	L11030693-41	9440-C0035	1.488/50	1		03/29/11 13:30
43	T2.032911.133408	L11030693-42	9440-C0036	1.328/50	1		03/29/11 13:34
44	T2.032911.133743	L11030851-01	CS-2	1.39/50	1		03/29/11 13:37
45	T2.032911.134122	L11030851-02	CS-7	1.32/50	1		03/29/11 13:41
46	T2.032911.134502	L11030851-03	CS-11	1.382/50	1		03/29/11 13:45
47	T2.032911.134840	L11030851-04	CS-3	1.44/50	1		03/29/11 13:48
48	T2.032911.135218	L11030874-01	BLDG 464 PAD	1.01/50	1		03/29/11 13:52
49	T2.032911.135609	L11030874-02	BLDG 464 DRUM PAD	1.005/50	1		03/29/11 13:56
50	T2.032911.135959	L11030460-28	11506-C0016	1.012/50	2		03/29/11 13:59
51	T2.032911.140343	WG360276-21	CCV		1		03/29/11 14:03
52	T2.032911.140706	WG360276-22	CCB		1		03/29/11 14:07
53	T2.032911.141049	L11030926-05	SWMU-57-32511-SS-FC-B3-	1.344/50	1		03/29/11 14:10
54	T2.032911.141428	L11030926-06	SWMU-57-32611-SS-2.5' SW	1.434/50	1		03/29/11 14:14
55	T2.032911.141805	L11030926-05	SWMU-57-32511-SS-FC-B3-	1.344/50	1		03/29/11 14:18
56	T2.032911.142143	L11030926-06	SWMU-57-32611-SS-2.5' SW	1.434/50	1		03/29/11 14:21
57	T2.032911.142525	WG360276-23	CCV		1		03/29/11 14:25
58	T2.032911.142848	WG360276-24	CCB		1		03/29/11 14:28
59	T2.032911.143235	L11030823-27	13989-C0024	1.355/50	1		03/29/11 14:32
60	T2.032911.143609	L11030823-28	13989-C0025	1.438/50	1		03/29/11 14:36
61	T2.032911.143945	L11030823-29	13989-C0026	1.368/50	1		03/29/11 14:39
62	T2.032911.144321	L11030823-30	13989-C0027	1.361/50	1		03/29/11 14:43
63	T2.032911.144654	L11030823-31	13989-C0028	1.404/50	1		03/29/11 14:46
64	T2.032911.145027	L11030823-32	13989-C0029	1.361/50	1		03/29/11 14:50
65	T2.032911.145400	L11030823-33	13989-C0030	1.32/50	1		03/29/11 14:54
66	T2.032911.145741	L11030823-34	13989-C0031	1.303/50	1		03/29/11 14:57
67	T2.032911.150114	L11030823-35	13989-C0032	1.368/50	1		03/29/11 15:01
68	T2.032911.150448	L11030921-01	\#3	1.004/50	1		03/29/11 15:04

Page: 2 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	T2.032911.150905	WG360276-25	CCV		1		03/29/11 15:09
70	T2.032911.151226	WG360276-26	CCB		1		03/29/11 15:12
71	T2.032911.151610	L11030926-05	SWMU-57-32511-SS-FC-B3-	1.344/50	200		03/29/11 15:16
72	T2.032911.151949	L11030926-06	SWMU-57-32611-SS-2.5' SW	1.434/50	200		03/29/11 15:19
73	T2.032911.152333	L11030686-24	13977-C0015	1.398/50	1		03/29/11 15:23
74	T2.032911.152709	L11030686-25	13977-C0016	1.398/50	1		03/29/11 15:27
75	T2.032911.153044	L11030686-26	13977-C0017	1.352/50	1		03/29/11 15:30
76	T2.032911.153427	L11030686-27	13977-C0018	1.394/50	1		03/29/11 15:34
77	T2.032911.153803	L11030686-28	13977-C0019	1.459/50	1		03/29/11 15:38
78	T2.032911.154139	L11030686-29	13977-C0020	1.408/50	1		03/29/11 15:41
79	T2.032911.154515	L11030686-30	13977-C0021	1.424/50	1		03/29/11 15:45
80	T2.032911.154851	WG359844-01	Reference Sample		1	L11030686-31	03/29/11 15:48
81	T2.032911.155234	WG360276-27	CCV		1		03/29/11 15:52
82	T2.032911.155555	WG360276-28	CCB		1		03/29/11 15:55
83	T2.032911.155942	WG359844-04	Matrix Spike	1.45/50	1	L11030686-31	03/29/11 15:59
84	T2.032911.160315	WG359844-05	Matrix Spike Duplica	1.45/50	1	L11030686-31	03/29/11 16:03
85	T2.032911.160650	L11030686-34	14029-C0002	1.333/50	1		03/29/11 16:06
86	T2.032911.161025	L11030686-35	14029-C0003	1.444/50	1		03/29/11 16:10
87	T2.032911.161409	L11030686-36	14029-C0004	1.383/50	1		03/29/11 16:14
88	T2.032911.161744	L11030686-40	14029-C0006	1.303/50	1		03/29/11 16:17
89	T2.032911.162119	L11030686-41	14029-C0007	1.32/50	1		03/29/11 16:21
90	T2.032911.162500	L11030686-42	14029-C0008	1.438/50	1		03/29/11 16:25
91	T2.032911.162836	L11030686-43	14029-C0009	1.444/50	1		03/29/11 16:28
92	T2.032911.163215	WG360276-29	CCV		1		03/29/11 16:32
93	T2.032911.163538	WG360276-30	CCB		1		03/29/11 16:35
94	T2.032911.163921	WG359300-02	Method/Prep Blank	1/50	1		03/29/11 16:39
95	T2.032911.164301	WG359300-03	Laboratory Control S	1/50	1		03/29/11 16:43
96	T2.032911.164637	L11030418-07	8839-C0030	1.356/50	1		03/29/11 16:46
97	T2.032911.165013	L11030418-08	8839-C0031	1.322/50	1		03/29/11 16:50
98	T2.032911.165348	L11030418-09	8839-C0032	1.343/50	1		03/29/11 16:53
99	T2.032911.165722	L11030418-10	8839-C0033	1.479/50	1		03/29/11 16:57
100	T2.032911.170057	L11030418-11	8839-C0034	1.303/50	2		03/29/11 17:00
101	T2.032911.170424	WG359748-01	Post Digestion Spike		2	L11030418-11	03/29/11 17:04
102	T2.032911.170747	WG359748-02	Serial Dilution		10	L11030418-11	03/29/11 17:07

Page: 3 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	T2.032911.171120	WG359748-02	Serial Dilution		50	L11030418-11	03/29/11 17:11
104	T2.032911.171507	WG360276-31	CCV		1		03/29/11 17:15
105	T2.032911.171832	WG360276-32	CCB		1		03/29/11 17:18
106	T2.032911.172219	L11030418-12	8839-C0035	1.402/50	1		03/29/11 17:22
107	T2.032911.172553	L11030418-13	8839-C0036	1.388/50	1		03/29/11 17:25
108	T2.032911.172927	L11030418-14	8839-C0037	1.394/50	1		03/29/11 17:29
109	T2.032911.173303	L11030418-15	8839-C0038	1.355/50	1		03/29/11 17:33
110	T2.032911.173639	L11030418-16	8839-C0039	1.345/50	1		03/29/11 17:36
111	T2.032911.174014	L11030418-17	8839-C0040	1.323/50	1		03/29/11 17:40
112	T2.032911.174348	L11030418-18	8839-C0041	1.324/50	1		03/29/11 17:43
113	T2.032911.174723	L11030418-19	8839-C0042	1.402/50	1		03/29/11 17:47
114	T2.032911.175059	L11030418-20	8839-C0043	1.315/50	1		03/29/11 17:50
115	T2.032911.175454	L11030418-21	8839-C0044	1.366/50	1		03/29/11 17:54
116	T2.032911.175850	WG360276-33	CCV		1		03/29/11 17:58
117	T2.032911.180216	WG360276-34	CCB		1		03/29/11 18:02
118	T2.032911.180601	L11030418-22	8839-C0045	1.329/50	1		03/29/11 18:06
119	T2.032911.180957	L11030418-23	8839-C0046	1.418/50	1		03/29/11 18:09
120	T2.032911.181346	L11030418-24	8839-C0047	1.496/50	1		03/29/11 18:13
121	T2.032911.181743	L11030418-25	8839-C0048	1.354/50	1		03/29/11 18:17
122	T2.032911.182133	WG359300-01	Reference Sample		1	L11030418-29	03/29/11 18:21
123	T2.032911.182517	WG359300-04	Matrix Spike	1.317/50	1	L11030418-29	03/29/11 18:25
124	T2.032911.182900	WG359300-05	Matrix Spike Duplica	1.317/50	1	L11030418-29	03/29/11 18:29
125	T2.032911.183247	WG360276-35	CCV		1		03/29/11 18:32
126	T2.032911.183612	WG360276-36	CCB		1		03/29/11 18:36
127	T2.032911.183952	WG359839-02	Method/Prep Blank	1/50	1		03/29/11 18:39
128	T2.032911.184333	WG359839-03	Laboratory Control S	1/50	1		03/29/11 18:43
129	T2.032911.184710	L11030685-45	13666-C0030	1.361/50	1		03/29/11 18:47
130	T2.032911.185050	L11030685-46	13666-C0031	1.462/50	1		03/29/11 18:50
131	T2.032911.185424	L11030685-47	13666-C0032	1.341/50	1		03/29/11 18:54
132	T2.032911.185757	L11030685-48	13666-C0033	1.418/50	1		03/29/11 18:57
133	T2.032911.190148	L11030686-01	13666-C0034	1.425/50	1		03/29/11 19:01
134	T2.032911.190548	WG360208-01	Post Digestion Spike		1	L11030686-01	03/29/11 19:05
135	T2.032911.190945	WG360208-02	Serial Dilution		5	L11030686-01	03/29/11 19:09
136	T2.032911.191313	WG360208-02	Serial Dilution		25	L11030686-01	03/29/11 19:13

Page: 4 Approved: March 30, 2011

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
137	T2.032911.191649	WG360276-37	CCV		1		03/29/11 19:16
138	T2.032911.192014	WG360276-38	CCB		1		03/29/11 19:20
139	T2.032911.192357	L11030686-02	13666-C0035	1.463/50	1		03/29/11 19:23
140	T2.032911.192739	L11030686-03	13666-C0036	1.337/50	1		03/29/11 19:27
141	T2.032911.193111	L11030686-04	13666-C0037	1.345/50	1		03/29/11 19:31
142	T2.032911.193443	L11030686-05	13666-C0038	1.335/50	1		03/29/11 19:34
143	T2.032911.193823	L11030686-06	13666-C0039	1.331/50	1		03/29/11 19:38
144	T2.032911.194158	L11030686-07	13666-C0040	1.4/50	1		03/29/11 19:41
145	T2.032911.194530	L11030686-08	13977-C0001	1.386/50	1		03/29/11 19:45
146	T2.032911.194920	L11030686-09	13977-C0002	1.429/50	1		03/29/11 19:49
147	T2.032911.195250	WG359839-01	Reference Sample		1	L11030686-10	03/29/11 19:52
148	T2.032911.195623	WG359839-04	Matrix Spike	1.474/50	1	L11030686-10	03/29/11 19:56
149	T2.032911.200003	WG360276-39	CCV		1		03/29/11 20:00
150	T2.032911.200328	WG360276-40	CCB		1		03/29/11 20:03
151	T2.032911.200712	WG359839-05	Matrix Spike Duplica	1.474/50	1	L11030686-10	03/29/11 20:07
152	T2.032911.201053	L11030686-13	13977-C0004	1.318/50	1		03/29/11 20:10
153	T2.032911.201434	L11030686-14	13977-C0005	1.303/50	1		03/29/11 20:14
154	T2.032911.201826	L11030686-15	13977-C0006	1.359/50	1		03/29/11 20:18
155	T2.032911.202159	L11030686-16	13977-C0007	1.354/50	1		03/29/11 20:21
156	T2.032911.202531	L11030686-17	13977-C0008	1.399/50	1		03/29/11 20:25
157	T2.032911.202920	L11030686-18	13977-C0009	1.355/50	1		03/29/11 20:29
158	T2.032911.203258	WG360276-41	CCV		1		03/29/11 20:32
159	T2.032911.203622	WG360276-42	CCB		1		03/29/11 20:36
160	T2.032911.204006	WG360079-02	Method/Prep Blank	1/50	1		03/29/11 20:40
161	T2.032911.204345	WG360079-03	Laboratory Control S	1/50	1		03/29/11 20:43
162	T2.032911.204723	L11030499-09	15506-C0007	1.382/50	1		03/29/11 20:47
163	T2.032911.205053	WG360281-01	Post Digestion Spike		1	L11030499-09	03/29/11 20:50
164	T2.032911.205422	WG360281-02	Serial Dilution		5	L11030499-09	03/29/11 20:54
165	T2.032911.205759	WG360281-02	Serial Dilution		25	L11030499-09	03/29/11 20:57
166	T2.032911.210132	L11030499-10	15506-C0008	1.37/50	1		03/29/11 21:01
167	T2.032911.210501	L11030499-11	15506-C0009	1.472/50	1		03/29/11 21:05
168	T2.032911.210832	L11030499-12	15506-C0010	1.329/50	1		03/29/11 21:08
169	T2.032911.211210	L11030499-13	15506-C0011	1.385/50	1		03/29/11 21:12
170	T2.032911.211549	WG360276-43	CCV		1		03/29/11 21:15

Page: 5 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
171	T2.032911.211913	WG360276-44	CCB		1		03/29/11 21:19
172	T2.032911.212259	L11030499-14	15506-C0012	1.377/50	1		03/29/11 21:22
173	T2.032911.212636	L11030499-15	15506-C0013	1.337/50	1		03/29/11 21:26
174	T2.032911.213007	L11030499-16	15506-C0014	1.498/50	1		03/29/11 21:30
175	T2.032911.213336	L11030499-17	15506-C0015	1.385/50	1		03/29/11 21:33
176	T2.032911.213707	L11030499-18	15506-C0016	1.368/50	1		03/29/11 21:37
177	T2.032911.214039	WG360079-01	Reference Sample		1	L11030499-19	03/29/11 21:40
178	T2.032911.214409	WG360079-04	Matrix Spike	1.364/50	1	L11030499-19	03/29/11 21:44
179	T2.032911.214739	WG360079-05	Matrix Spike Duplica	1.364/50	1	L11030499-19	03/29/11 21:47
180	T2.032911.215109	L11030499-22	15506-C0018	1.446/50	1		03/29/11 21:51
181	T2.032911.215440	L11030499-23	15506-C0019	1.475/50	1		03/29/11 21:54
182	T2.032911.215819	WG360276-45	CCV		1		03/29/11 21:58
183	T2.032911.220144	WG360276-46	CCB		1		03/29/11 22:01
184	T2.032911.220529	L11030499-24	15506-C0020	1.352/50	1		03/29/11 22:05
185	T2.032911.220901	L11030499-25	15508-C0001	1.478/50	1		03/29/11 22:09
186	T2.032911.221230	L11030499-26	15508-C0002	1.323/50	1		03/29/11 22:12
187	T2.032911.221600	L11030499-27	15508-C0003	1.437/50	1		03/29/11 22:16
188	T2.032911.221929	L11030499-28	15508-C0004	1.34/50	1		03/29/11 22:19
189	T2.032911.222301	L11030499-29	15508-C0005	1.34/50	1		03/29/11 22:23
190	T2.032911.222634	L11030499-30	15508-C0006	1.412/50	1		03/29/11 22:26
191	T2.032911.223014	WG360276-47	CCV		1		03/29/11 22:30
192	T2.032911.223339	WG360276-48	CCB		1		03/29/11 22:33
193	T2.032911.223723	WG360077-02	Method/Prep Blank	1/50	1		03/29/11 22:37
194	T2.032911.224105	WG360077-03	Laboratory Control S	1/50	1		03/29/11 22:41
195	T2.032911.224442	L11030498-35	14236-C0035	1.438/50	1		03/29/11 22:44
196	T2.032911.224819	WG360284-01	Post Digestion Spike		1	L11030498-35	03/29/11 22:48
197	T2.032911.225151	WG360284-02	Serial Dilution		5	L11030498-35	03/29/11 22:51
198	T2.032911.225520	WG360284-02	Serial Dilution		25	L11030498-35	03/29/11 22:55
199	T2.032911.225855	WG360077-01	Reference Sample		1	L11030498-36	03/29/11 22:58
200	T2.032911.230231	WG360077-04	Matrix Spike	1.41/50	1	L11030498-36	03/29/11 23:02
201	T2.032911.230606	WG360077-05	Matrix Spike Duplica	1.41/50	1	L11030498-36	03/29/11 23:06
202	T2.032911.230942	L11030498-39	14236-C0037	1.402/50	1		03/29/11 23:09
203	T2.032911.231337	WG360276-49	CCV		1		03/29/11 23:13
204	T2.032911.231701	WG360276-50	CCB		1		03/29/11 23:17

Page: 6 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
205	T2.032911.232043	L11030498-40	14236-C0038	1.34/50	1		03/29/11 23:20
206	T2.032911.232426	L11030498-41	14236-C0039	1.344/50	1		03/29/11 23:24
207	T2.032911.232803	L11030498-42	14236-C0040	1.387/50	1		03/29/11 23:28
208	T2.032911.233139	L11030498-43	14236-C0041	1.386/50	1		03/29/11 23:31
209	T2.032911.233518	L11030498-44	14236-C0042	1.482/50	1		03/29/11 23:35
210	T2.032911.233853	L11030498-45	14236-C0043	1.495/50	1		03/29/11 23:38
211	T2.032911.234229	L11030498-46	14236-C0044	1.465/50	1		03/29/11 23:42
212	T2.032911.234613	L11030498-47	14236-C0045	1.367/50	1		03/29/11 23:46
213	T2.032911.234956	L11030498-48	14236-C0046	1.393/50	1		03/29/11 23:49
214	T2.032911.235339	L11030499-01	14236-C0047	1.464/50	1		03/29/11 23:53
215	T2.032911.235726	WG360276-51	CCV		1		03/29/11 23:57
216	T2.033011.000050	WG360276-52	CCB		1		03/30/11 00:00
217	T2.033011.000434	L11030499-02	14236-C0048	1.407/50	1		03/30/11 00:04
218	T2.033011.000810	L11030499-03	15506-C0001	1.382/50	1		03/30/11 00:08
219	T2.033011.001145	L11030499-04	15506-C0002	1.419/50	1		03/30/11 00:11
220	T2.033011.001521	L11030499-05	15506-C0003	1.373/50	1		03/30/11 00:15
221	T2.033011.001855	L11030499-06	15506-C0004	1.444/50	1		03/30/11 00:18
222	T2.033011.002230	L11030499-07	15506-C0005	1.463/50	1		03/30/11 00:22
223	T2.033011.002605	L11030499-08	15506-C0006	1.406/50	1		03/30/11 00:26
224	T2.033011.002948	WG360276-53	CCV		1		03/30/11 00:29
225	T2.033011.003313	WG360276-54	CCB		1		03/30/11 00:33
226	T2.033011.003658	WG359858-02	Method/Prep Blank	1/50	1		03/30/11 00:36
227	T2.033011.004039	WG359858-03	Laboratory Control S	1/50	1		03/30/11 00:40
228	T2.033011.004417	WG359858-01	Reference Sample		1	L11030687-09	03/30/11 00:44
229	T2.033011.004753	WG359858-04	Matrix Spike	1.359/50	1	L11030687-09	03/30/11 00:47
230	T2.033011.005129	WG359858-05	Matrix Spike Duplica	1.359/50	1	L11030687-09	03/30/11 00:51
231	T2.033011.005501	L11030687-18	14029-C0030	1.487/50	1		03/30/11 00:55
232	T2.033011.005837	WG360286-01	Post Digestion Spike		1	L11030687-18	03/30/11 00:58
233	T2.033011.010210	WG360286-02	Serial Dilution		5	L11030687-18	03/30/11 01:02
234	T2.033011.010542	WG360286-02	Serial Dilution		25	L11030687-18	03/30/11 01:05
235	T2.033011.010920	L11030687-19	14029-C0031	1.422/50	1		03/30/11 01:09
236	T2.033011.011258	WG360276-55	CCV		1		03/30/11 01:12
237	T2.033011.011621	WG360276-56	CCB		1		03/30/11 01:16
238	T2.033011.012006	L11030687-20	14029-C0032	1.332/50	1		03/30/11 01:20

Page: 7 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
239	T2.033011.012343	L11030687-21	14029-C0033	1.498/50	1		03/30/11 01:23
240	T2.033011.012719	L11030687-22	14029-C0034	1.412/50	1		03/30/11 01:27
241	T2.033011.013056	L11030687-23	14029-C0035	1.38/50	1		03/30/11 01:30
242	T2.033011.013432	L11030687-24	14029-C0036	1.375/50	1		03/30/11 01:34
243	T2.033011.013808	L11030687-25	14029-C0037	1.456/50	1		03/30/11 01:38
244	T2.033011.014145	L11030687-26	14029-C0038	1.471/50	1		03/30/11 01:41
245	T2.033011.014521	L11030687-27	14029-C0039	1.348/50	1		03/30/11 01:45
246	T2.033011.014855	L11030687-28	14029-C0040	1.375/50	1		03/30/11 01:48
247	T2.033011.015231	L11030687-29	14029-C0041	1.371/50	1		03/30/11 01:52
248	T2.033011.015609	WG360276-57	CCV		1		03/30/11 01:56
249	T2.033011.015931	WG360276-58	CCB		1		03/30/11 01:59
250	T2.033011.020314	L11030687-30	14029-C0042	1.476/50	1		03/30/11 02:03
251	T2.033011.020647	L11030687-31	14029-C0043	1.486/50	1		03/30/11 02:06
252	T2.033011.021025	L11030687-32	14029-C0044	1.402/50	1		03/30/11 02:10
253	T2.033011.021359	L11030687-33	14029-C0045	1.369/50	1		03/30/11 02:13
254	T2.033011.021735	L11030687-34	14029-C0046	1.307/50	1		03/30/11 02:17
255	T2.033011.022112	L11030687-35	14029-C0047	1.438/50	1		03/30/11 02:21
256	T2.033011.022448	L11030687-36	14029-C0048	1.327/50	1		03/30/11 02:24
257	T2.033011.022821	WG360276-59	CCV		1		03/30/11 02:28
258	T2.033011.023144	WG360276-60	CCB		1		03/30/11 02:31

 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Data Checklist

Date: 28-MAR-2011
Analyst: JYH
Analyst: NA
Method: 6010
Instrument: ICP-THERMO2
Curve Workgroup: 360412
Runlog ID: 39713
Analytical Workgroups: 359705,360037,360132,360097,360131

Additional workgroups: 360048,360037	
Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	460,925,926,685,686
Client Forms	X
Level X	
Level 3	
Level 4	721,460,925,926,685,686
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:

Secondary Reviewer:
29-MAR-2011

CHECKLIST1 - Modified 03/05/2008
Generated: MAR-30-2011 16:28:28

Microbac Laboratories Inc.

Data Checklist

Date: 29-MAR-2011
Analyst: JYH
Analyst: NA
Method: 6010
Instrument: ICP-THERMO2
Curve Workgroup: 360276
Runlog ID: 39728
Analytical Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284,360286

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	823,926,693,851,873,874,893,686
	685,418,498,499,687
Client Forms	X
Level X	
Level 3	
Level 4	823,926,693,851,460,874,893,686
	685,418,498,499,687
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
29-MAR-2011

Secondary Reviewer:
30-MAR-2011

CHECKLIST1 - Modified 03/05/2008
Generated: MAR-30-2011 18:07:17

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method 6010B AAB#: WG360132

Login Number: L11030925

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SWMU-57-32511-SS-FC-8'-	01	03/25/11					03/28/11	2.9	180		03/28/11	3.1	180	
SWMU-57-32511-SS-4'SW-1	02	03/25/11					03/28/11	2.9	180		03/28/11	3.1	180	
SWMU-57-32511-SS-7.5'SW	03	03/25/11					03/28/11	2.9	180		03/28/11	3.1	180	
SWMU-57-32511-SS-7.5'SW	04	03/25/11					03/28/11	2.8	180		03/28/11	3	180	
SWMU-57-32611-FC-15'-NU	05	03/26/11					03/28/11	2.1	180		03/29/11	3.1	180	
SWMU-57-32611-FC-15'-NU	05	03/26/11					03/28/11	2.1	180		03/28/11	2.3	180	
SWMU-57-32611-FC-15'-NU	05	03/26/11					03/28/11	2.1	180		03/29/11	3.1	180	
SWMU-57-32611-FC-13'-NU	06	03/26/11					03/28/11	2.1	180		03/28/11	2.3	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1956345
Report generated 03/30/2011 08:55

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11030925
Blank File ID: T2.032811.150737
Prep Date: 03/28/11 11:56
Analyzed Date: 03/28/11 15:07
Analyst: JYH

Work Group: WG360132
Blank Sample ID: WG360099-02
Instrument ID: ICP-THERMO2
Method: 6010B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG360099-03	T2.032811.151118	03/28/11 15:11	01
SWMU-57-32511-SS-FC-8'-NUM2	L11030925-01	T2.032811.160530	03/28/11 16:05	01
SWMU-57-32511-SS-4'SW-1	L11030925-02	T2.032811.160909	03/28/11 16:09	01
SWMU-57-32511-SS-7.5'SW2	L11030925-03	T2.032811.161247	03/28/11 16:12	01
SWMU-57-32511-SS-7.5'SW-3	L11030925-04	T2.032811.161624	03/28/11 16:16	01
SWMU-57-32611-FC-15'-NUM3	L11030925-05	T2.032811.162002	03/28/11 16:20	01
SWMU-57-32611-FC-13'-NUM4	L11030925-06	T2.032811.162340	03/28/11 16:23	01
SWMU-57-32611-FC-15'-NUM3	L11030925-05	T2.032911.114524	03/29/11 11:45	DL01
SWMU-57-32611-FC-15'-NUM3	L11030925-05	T2.032911.114855	03/29/11 11:48	DL02

Report Name: BLANK_SUMMARY
PDF File ID: 1956346
Report generated 03/30/2011 09:31

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11030925 Prep Date: 03/28/11 11:56 Sample ID: WG360099-02
Instrument ID: ICP-THERMO2 Run Date: 03/28/11 15:07 Prep Method: 3051A
File ID: T2.032811.150737 Analyst: JYH Method: 6010B
Workgroup (AAB#): WG360132 Matrix: Soil Units: mg/kg
Contract #: Cal ID: ICP-TH-28-MAR-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Aluminum, Total	10.0	20.0	10.0	1	U
Antimony, Total	0.500	1.00	0.500	1	U
Iron, Total	1.50	3.00	1.50	1	U
Manganese, Total	0.250	0.500	0.250	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1956347
30-MAR-2011 08:55

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360099-03
Instrument ID: ICP-THERMO2 Run Time: 15:11 Prep Method: 3051A
File ID: T2.032811.151118 Analyst: JYH Method: 6010B
Workgroup (AAB#): WG360132 Matrix: Soil Units: mg/kg
QC Key: DOD4 Lot#: STD39933 Cal ID: ICP-TH-28-MAR-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Aluminum, Total	250	235	94.2	80 - 120	
Antimony, Total	30.0	28.5	94.9	80 - 120	
Iron, Total	100	96.5	96.5	80 - 120	
Manganese, Total	12.5	12.0	96.1	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1956348
Report generated: 03/30/2011 08:55

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11030925 Cal ID:ICP-THERMO2- Worknum:WG360132
Instrument ID:ICP-THERMO2 Contract #: Method:6010B
Parent ID:WG360099-01 File ID:T2.032811.152545 Dil:1 Matrix:SOLID
Sample ID:WG360099-04 MS File ID:T2.032811.152922 Dil:1 Units:mg/kg
Sample ID:WG360099-05 MSD File ID:T2.032811.153258 Dil:1 Percent Solid:75.2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Aluminum, Total	26500	253	31000	1770	253	28900	934	7.05	80 - 120	20	*
Antimony, Total	4.44	30.4	28.8	80.2	30.4	29.0	80.8	0.664	80 - 120	20	
Iron, Total	40900	101	40300	-614	101	39200	-1700	2.77	80 - 120	20	*
Manganese, Total	138	12.7	134	-26.7	12.7	130	-63.2	3.50	80 - 120	20	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008
PDF File ID:1956349
Report generated 03/31/2011 16:15

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11030925 **Worknum:** WG360132
Instrument: ICP-THERMO2 **Method:** 6010B
Serial Dil: WG360132-02 **File ID:** T2.032811.155442 **Dil:** 5 **Units:** mg/L
Sample: L11030926-02 **File ID:** T2.032811.153635 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	572		640		11.90	E
Antimony	.0694	X	.0635	F	8.50	
Iron	837		945		12.90	E
Manganese	2.56		2.755		7.62	

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1956343
03/30/2011 08:55

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11030925 **Worknum:** WG360132
Instrument: ICP-THERMO2 **Method:** 6010B
Serial Dil: WG360132-02 **File ID:** T2.032811.155819 **Dil:** 25 **Units:** mg/L
Sample: L11030926-02 **File ID:** T2.032811.155442 **Dil:** 5

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	640		650		1.56	
Antimony	.0635	F	ND	U		
Iron	945		940		0.53	
Manganese	2.755		2.8		1.63	

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1956343
03/30/2011 08:55

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11030925 **Worknum:** WG360132
Instrument ID: ICP-THERMO2 **Method:** 6010B
Post Spike ID: WG360132-01 **File ID:** T2.032811.154012 **Dil:** 1 **Units:** mg/L
Sample ID: L11030926-02 **File ID:** T2.032811.153635 **Dil:** 1 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	537		572		5	437.1	75 - 125	N
ANTIMONY	0.638		0.0694		.6	95.9	75 - 125	
IRON	761		837		2	385.4	75 - 125	N
MANGANESE	2.54		2.56		.25	97.0	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1956344
Report generated: 03/30/2011 08:55

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11030925**	Workgroup (AAB#):	**WG360132**
Analytical Method:	**6010B**	Instrument ID:	**ICP-THERMO2**
ICAL Worknum:	**WG360412**	Initial Calibration Date:	**28-MAR-2011 12:50**

	WG360412-01		WG360412-02		WG360412-03		WG360412-04		WG360412-05			
	Conc	**INT**	**Conc**	**INT**	**Conc**	**INT**	**Conc**	**INT**	**Conc**	**INT**	**R**	**Q**
ALUMINUM	0	0.0117	.1	0.0196	.2	0.0288	10	0.872	20	1.82	.999681	
ANTIMONY	0	0.0000600	.012	0.000270	.024	0.000470	1.2	0.0224	2.4	0.0461	.999851	
IRON	0	0	.04	0.000540	.08	0.00103	4	0.0497	8	0.0994	.999986	
MANGANESE	0	0.000110	.005	0.000690	.01	0.00130	.5	0.0613	1	0.123	.999992	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID 1956352
Report generated: 30-MAR-2011 17:02

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11030925**	Workgroup (AAB#):	**WG360132**
Analytical Method:	**6010B**	Instrument ID:	**ICP-THERMO2**
ICAL Worknum:	**WG360276**	Initial Calibration Date:	**29-MAR-2011 11:14**

	WG360276-01		WG360276-02		WG360276-03		WG360276-04		WG360276-05			
	Conc	**INT**	**Conc**	**INT**	**Conc**	**INT**	**Conc**	**INT**	**Conc**	**INT**	**R**	**Q**
ALUMINUM	0	0.00929	.1	0.0176	.2	0.0254	10	0.852	20	1.74	.999916	
ANTIMONY	0	0.0000500	.012	0.000260	.024	0.000480	1.2	0.0216	2.4	0.0431	.999999	
IRON	0	0.0000200	.04	0.000560	.08	0.00112	4	0.0578	8	0.111	.999798	
MANGANESE	0	0.000150	.005	0.000920	.01	0.00165	.5	0.0767	1	0.147	.999811	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID 1956352
Report generated: 30-MAR-2011 17:02

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360412-07
Instrument ID: ICP-THERMO2 Run Time: 12:57 Method: 6010B
File ID: T2.032811.125733 Analyst: JYH Units: mg/L
Workgroup (AAB#): WG360132 Cal ID: ICP-THERI - 28-MAR-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.2	.4	.2	U
ANTIMONY	.01	.02	.01	U
IRON	.03	.06	.03	U
MANGANESE	.005	.01	.005	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1956354
Report generated 04/01/2011 15:28

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11030925 Run Date: 03/29/2011 Sample ID: WG360276-07
Instrument ID: ICP-THERMO2 Run Time: 11:23 Method: 6010B
File ID: T2.032911.112332 Analyst: JYH Units: mg/L
Workgroup (AAB#): WG360132 Cal ID: ICP-THERI - 29-MAR-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.2	.4	.2	U
ANTIMONY	.01	.02	.01	U
IRON	.03	.06	.03	U
MANGANESE	.005	.01	.005	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1956354
Report generated 04/01/2011 15:28

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360412-12

Instrument ID: ICP-THERMO2 Run Time: 13:15 Method: 6010B

File ID: T2.032811.131543 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956357
Report generated 04/01/2011 15:29

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360412-19

Instrument ID: ICP-THERMO2 Run Time: 15:03 Method: 6010B

File ID: T2.032811.150353 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956357
Report generated 04/01/2011 15:29

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360412-22

Instrument ID: ICP-THERMO2 Run Time: 15:47 Method: 6010B

File ID: T2.032811.154723 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956357
Report generated 04/01/2011 15:29

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360412-24

Instrument ID: ICP-THERMO2 Run Time: 16:30 Method: 6010B

File ID: T2.032811.163049 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956357
Report generated 04/01/2011 15:29

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11030925	Run Date:	03/29/2011	Sample ID:	WG360276-12
Instrument ID:	ICP-THERMO2	Run Time:	11:41	Method:	6010B
File ID:	T2.032911.114136	Analyst:	JYH	Units:	mg/L
Workgroup (AAB#):	WG360132	Cal ID:	ICP-TH - 29-MAR-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956357
Report generated 04/01/2011 15:29

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030925 Run Date: 03/29/2011 Sample ID: WG360276-14

Instrument ID: ICP-THERMO2 Run Time: 11:56 Method: 6010B

File ID: T2.032911.115604 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956357
Report generated 04/01/2011 15:29

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360412-06

Instrument ID: ICP-THERMO2 Run Time: 12:54 Method: 6010B

File ID: T2.032811.125407 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Aluminum		10	9.89	98.9	90 - 110	
Antimony		1.2	1.17	97.7	90 - 110	
Iron		4	4.02	101	90 - 110	
Manganese		.5	0.506	101	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1956353

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11030925 Run Date: 03/29/2011 Sample ID: WG360276-06

Instrument ID: ICP-THERMO2 Run Time: 11:20 Method: 6010B

File ID: T2.032911.112011 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Aluminum		10	9.62	96.2	90 - 110	
Antimony		1.2	1.19	99.0	90 - 110	
Iron		4	3.99	99.6	90 - 110	
Manganese		.5	0.496	99.2	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1956353

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360412-11

Instrument ID: ICP-THERMO2 Run Time: 13:12 Method: 6010B

File ID: T2.032811.131217 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.79	mg/L	97.9	90 - 110		
Antimony		1.20	1.18	mg/L	98.1	90 - 110		
Iron		4.00	4.05	mg/L	101	90 - 110		
Manganese		0.500	0.499	mg/L	99.9	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956356

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360412-18

Instrument ID: ICP-THERMO2 Run Time: 15:00 Method: 6010B

File ID: T2.032811.150027 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.48	mg/L	94.8	90 - 110		
Antimony		1.20	1.19	mg/L	99.2	90 - 110		
Iron		4.00	3.89	mg/L	97.3	90 - 110		
Manganese		0.500	0.484	mg/L	96.9	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956356

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360412-21

Instrument ID: ICP-THERMO2 Run Time: 15:43 Method: 6010B

File ID: T2.032811.154358 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.98	mg/L	99.8	90 - 110		
Antimony		1.20	1.22	mg/L	102	90 - 110		
Iron		4.00	4.12	mg/L	103	90 - 110		
Manganese		0.500	0.493	mg/L	98.6	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956356

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360412-23

Instrument ID: ICP-THERMO2 Run Time: 16:27 Method: 6010B

File ID: T2.032811.162724 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.85	mg/L	98.5	90 - 110		
Antimony		1.20	1.20	mg/L	99.9	90 - 110		
Iron		4.00	3.92	mg/L	98.1	90 - 110		
Manganese		0.500	0.479	mg/L	95.7	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956356

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030925 Run Date: 03/29/2011 Sample ID: WG360276-11

Instrument ID: ICP-THERMO2 Run Time: 11:38 Method: 6010B

File ID: T2.032911.113814 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.0	mg/L	100	90 - 110		
Antimony		1.20	1.21	mg/L	101	90 - 110		
Iron		4.00	3.92	mg/L	98.1	90 - 110		
Manganese		0.500	0.484	mg/L	96.9	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956356

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030925 Run Date: 03/29/2011 Sample ID: WG360276-13

Instrument ID: ICP-THERMO2 Run Time: 11:52 Method: 6010B

File ID: T2.032911.115242 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.96	mg/L	99.6	90 - 110		
Antimony		1.20	1.21	mg/L	101	90 - 110		
Iron		4.00	3.90	mg/L	97.5	90 - 110		
Manganese		0.500	0.486	mg/L	97.2	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956356

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11030925 **Workgroup (AAB#):** WG360132
Instrument ID: ICP-THERMO2 **Method:** 6010B
Sol. A : WG360412-09 **File ID:** T2.032811.130458 **Units:** mg/L
Sol. AB : WG360412-10 **File ID:** T2.032811.130839 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Aluminum	250	247	98.8	250	253	101	
Antimony	NS	-0.00636	NS	0.500	0.488	97.6	
Iron	100	97.4	97.4	100	97.0	97.0	
Manganese	NS	-0.00198	NS	0.250	0.236	94.4	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1956355
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11030925 **Workgroup (AAB#):** WG360132
Instrument ID: ICP-THERMO2 **Method:** 6010B
Sol. A : WG360276-09 **File ID:** T2.032911.113054 **Units:** mg/L
Sol. AB : WG360276-10 **File ID:** T2.032911.113435 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Aluminum	250	250	100	250	262	105	
Antimony	NS	-0.00464	NS	0.500	0.519	104	
Iron	100	93.9	93.9	100	96.5	96.5	
Manganese	NS	-0.00148	NS	0.250	0.236	94.4	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1956355
Report generated 03/30/2011 17:02

LRC SAMPLE

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360412
Instrument ID: ICP-THERMO2 Run Time: 12:50 Prep Method: 3051A
Analyst: JYH Method: 6010B
Workgroup (AAB#): WG360132 Matrix: Solid Units: mg/kg
Cal ID: 28-MAR-11 - 28-MAR-2011 12:50

Analytes	Expected	Found	% Rec	Limits	Q
Aluminum, Total	900	869	96.6	90 - 110	
Iron, Total	1000	950	95.0	90 - 110	
Manganese, Total	200	184	92.0	90 - 110	

KEMRON FORMS - Modified 08/28/2006
Version 1.5 PDF File ID: 1956882
Report generated 03/30/2011 17:07

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11030925 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	AL	AS	B	BA	BE
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	0.0000210	0	0	0	0
ARSENIC	189.00	0	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	0	0.00190	0	-0.000140	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0
COBALT	228.60	0	0	0	0	0
COPPER	224.70	0	0	0	0	0
IRON	261.20	0	0	0	0	0
LEAD	220.30	0.000335	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	0
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	-0.000750	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	-0.0000300	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	-0.0000120	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	0
ZINC	206.20	0.0000420	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1956351
Report generated: 03/30/2011 08:55

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11030925 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	CA	CO	CR	CU	FE
ALUMINUM	308.20	0	-0.000820	0	0	0
ANTIMONY	206.80	0	0	0.00950	0	0.0000560
ARSENIC	189.00	0	0	0.000490	0	-0.0000120
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0.00343	0	0	-0.000619
CADMIUM	228.80	0	-0.00200	0	0	-0.00000800
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0.0000530
COBALT	228.60	0	0	0.000108	0	0
COPPER	224.70	0	0.0000770	0	0	0.000196
IRON	261.20	0	0	0	0	0
LEAD	220.30	0	-0.0000930	-0.000172	0.000809	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	0
MANGANESE	257.60	0	0	-0.0000920	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0.000100	0	0	0.0000320
PHOSPHORUS	214.90	0	0	0	0.00200	0.00120
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0.0000570	0	0	0	0
THALLIUM	190.80	0	0.00397	0.000276	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	-0.00000200
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	-0.0000300

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1956351
Report generated: 03/30/2011 08:55

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11030925 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	LI	MG	MN	MO	NA
ALUMINUM	308.20	0	0	0	0.0153	0
ANTIMONY	206.80	0	0	0	0.000670	0
ARSENIC	189.00	0	0	0	0.00109	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	-0.00169	0
CADMIUM	228.80	0	0	0	0.0000220	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0.000160	0	0
COBALT	228.60	0	0	0	-0.000983	0
COPPER	224.70	0	0	0	0.00274	0
IRON	261.20	0	0	0	0	0
LEAD	220.30	0	0	0	-0.00183	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	-0.00190	-0.0110	0
MANGANESE	257.60	0	0.00000900	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	0	0	0	0.00800	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0.000156	0
SILICON	212.40	0	0	0	0.0187	0
SILVER	328.00	0	0	0	-0.0000440	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	-0.000153	0
VANADIUM	292.40	0	0	0	-0.00778	0
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1956351
Report generated: 03/30/2011 08:55

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11030925 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	NI	SB	SN	SR	TI
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	0	0	-0.00840	0	-0.000990
ARSENIC	189.00	0	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	-0.000128	0	0	0	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0.0000550
COBALT	228.60	0.000175	0	0	0	0.00188
COPPER	224.70	-0.0120	0	0	0	0.000269
IRON	261.20	0	0	0	0	0
LEAD	220.30	0.000110	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	-0.00290
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	0	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	-0.00620
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	-0.00170
TIN	189.90	0	0	0	0	-0.00220
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	0.000824
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1956351
Report generated: 03/30/2011 08:55

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11030925 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	V	ZN	ZR
ALUMINUM	308.20	0.00300	0	0
ANTIMONY	206.80	-0.00438	0	0
ARSENIC	189.00	0.000107	0	0
BARIUM	455.40	0	0	0
BERYLLIUM	313.00	0	0	0
BORON	249.70	0	0	0
CADMIUM	228.80	0.0000820	0	0
CALCIUM	422.70	0	0	0
CHROMIUM	267.70	0	0	
COBALT	228.60	0.0000200	0	0
COPPER	224.70	0	0	
IRON	261.20	0	0	0
LEAD	220.30	-0.000126	0	0
LITHIUM	670.80	0	0	0
MAGNESIUM	279.10	0	0	0
MANGANESE	257.60	0	0	0
MOLYBDENUM	202.03	-0.000110	0	0
NICKEL	231.60	0	0	0
PHOSPHORUS	214.90	-0.00500	0	0.00200
POTASSIUM	766.40	0	0	0
SELENIUM	196.00	0	0	0
SILICON	212.40	0	0	0
SILVER	328.00	-0.00617	0	0
SODIUM	589.50	0	0	0
STRONTIUM	407.80	0	0	0
THALLIUM	190.80	-0.0282	0	0
TIN	189.90	0	0	0
TITANIUM	337.30	0	0	0
VANADIUM	292.40	0	0	
ZINC	206.20	0	0	0
ZIRCONIUM	339.20	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1956351
Report generated: 03/30/2011 08:55

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L11030925 **Date:** 12/13/2010
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	810.0
Antimony	10.00	90.0
Arsenic	10.00	90.0
Barium	10.00	90.0
Beryllium	15.00	4.5
Boron	10.00	90.0
Cadmium	10.00	16.2
Calcium	10.00	900.0
Chromium	10.00	81.0
Cobalt	10.00	90.0
Copper	10.00	180.0
Iron	5.00	900.0
Lead	10.00	180.0
Lithium	10.00	90.0
Magnesium	15.00	900.0
Manganese	15.00	180.0
Molybdenum	10.00	9.0
Nickel	10.00	90.0
Phosphorus	10.00	900.0
Potassium	10.00	315.0
Selenium	10.00	90.0
Silicon	10.00	90.0
Silver	5.00	9.0
Sodium	10.00	315.0
Strontium	10.00	4.5
Thallium	10.00	9.0
Tin	10.00	90.0
Titanium	15.00	90.0
Vanadium	10.00	90.0
Zinc	10.00	45.0
Zirconium	10.00	45.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1956350
Report generated: 03/30/2011 08:55

2.1.1.3 Raw Data

Sample Name: S0 Acquired: 3/28/2011 12:36:10 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00023**	**.01166**	**-.00010**	**.00078**	**.00261**	**-.00156**	**.00022**
Stddev	.00024	.00010	.00002	.00012	.00008	.00006	.00007
%RSD	104.13	.86590	25.093	14.946	2.9384	3.6109	31.411
#1	-.00029	.01159	-.00013	.00075	.00259	-.00150	.00023
#2	.00003	.01161	-.00008	.00091	.00270	-.00160	.00015
#3	-.00043	.01177	-.00009	.00068	.00255	-.00160	.00028

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00010**	**-.00012**	**.00047**	**.00014**	**.00000**	**-.00131**	**-.00070**
Stddev	.00002	.00004	.00007	.00002	.00001	.00005	.00013
%RSD	22.573	34.705	14.380	16.330	180.46	4.0937	19.267
#1	.00012	-.00015	.00042	.00016	.00000	-.00134	-.00056
#2	.00008	-.00012	.00046	.00013	.00001	-.00134	-.00083
#3	.00009	-.00007	.00055	.00012	.00000	-.00125	-.00070

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00000**	**.00011**	**.00005**	**-.00304**	**-.00006**	**.00001**	**-.00014**
Stddev	.00002	.00002	.00000	.00012	.00003	.00000	.00001
%RSD	1011.6	13.991	5.7729	3.9176	50.736	29.969	6.0655
#1	-.00001	.00010	.00005	-.00312	-.00009	.00000	-.00013
#2	.00002	.00010	.00005	-.00290	-.00006	.00001	-.00015
#3	-.00001	.00012	.00005	-.00309	-.00003	.00000	-.00015

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00404**	**.00022**	**.00016**	**.00006**	**-.00002**	**.00048**	**.00000**
Stddev	.00016	.00001	.00001	.00002	.00002	.00002	.00001
%RSD	3.9210	5.2612	3.5102	38.096	101.09	3.5996	408.09
#1	-.00403	.00023	.00017	.00004	.00000	.00046	.00001
#2	-.00389	.00022	.00016	.00009	-.00002	.00048	.00002
#3	-.00421	.00020	.00016	.00005	-.00004	.00050	-.00001

Approved: March 29, 2011

Sample Name: S0 Acquired: 3/28/2011 12:36:10 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00101**	**-.00040**	**-.00006**	**.00038**	**.00372**	**-.00101**
Stddev	.00001	.00002	.00002	.00006	.00003	.00008
%RSD	1.3707	4.5549	33.333	16.981	.91203	7.6263
#1	.00102	-.00038	-.00008	.00043	.00368	-.00108
#2	.00101	-.00039	-.00004	.00039	.00373	-.00093
#3	.00099	-.00042	-.00006	.00031	.00375	-.00101

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49330.**	**55055.**
Stddev	85.	319.
%RSD	.17304	.57992
#1	49257.	54806.
#2	49310.	54943.
#3	49424.	55415.

Approved: March 29, 2011

Sample Name: S1 Acquired: 3/28/2011 12:39:51 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	Ba4554	Be3131	Ca4226	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00066**	**.01959**	**.01397**	**.00059**	**.00202**	**.00028**	**.00031**
Stddev	.00009	.00045	.00025	.00007	.00005	.00004	.00004
%RSD	14.410	2.2997	1.7757	12.358	2.2966	15.801	13.109
#1	.00068	.01916	.01406	.00052	.00201	.00028	.00027
#2	.00055	.01955	.01415	.00058	.00198	.00024	.00030
#3	.00074	.02006	.01369	.00067	.00207	.00032	.00035

Elem	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00183**	**.00049**	**.00054**	**.00456**	**.00164**	**.00034**	**.00069**
Stddev	.00014	.00001	.00001	.00012	.00004	.00003	.00004
%RSD	7.4348	2.2825	2.5872	2.7344	2.4712	8.4157	5.2566
#1	.00168	.00048	.00056	.00460	.00159	.00034	.00066
#2	.00187	.00050	.00054	.00466	.00167	.00037	.00073
#3	.00193	.00049	.00053	.00442	.00165	.00032	.00068

Elem	Mo2020	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00088**	**.01574**	**.00023**	**.00002**	**.00001**	**-.00389**	**.00025**
Stddev	.00004	.00023	.00001	.00001	.00003	.00013	.00001
%RSD	4.0731	1.4775	4.2985	61.385	212.89	3.4738	5.9254
#1	.00086	.01578	.00023	.00002	-.00002	-.00378	.00025
#2	.00085	.01595	.00022	.00004	.00004	-.00384	.00023
#3	.00092	.01549	.00024	.00001	.00002	-.00404	.00026

Elem	S_1820	Sb2068	Si2124	Sn1899	Sr4077	Ti3372	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00016**	**.00027**	**.00045**	**.00049**	**.01800**	**.00063**	**.00542**
Stddev	.00001	.00002	.00001	.00003	.00009	.00004	.00007
%RSD	8.1501	8.2687	2.7206	5.2196	.51947	6.0324	1.3256
#1	.00015	.00025	.00045	.00047	.01811	.00061	.00534
#2	.00015	.00028	.00044	.00049	.01796	.00061	.00548
#3	.00017	.00029	.00047	.00052	.01793	.00068	.00543

Approved: March 29, 2011

Sample Name: S1 Acquired: 3/28/2011 12:39:51 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062	Zr3391
Units	Cts/S	Cts/S
Avg	**.00650**	**-.00099**
Stddev	.00027	.00009
%RSD	4.1811	9.5500
#1	.00641	-.00089
#2	.00629	-.00100
#3	.00680	-.00108

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49772.**	**56085.**
Stddev	1265.	432.
%RSD	2.5420	.77083
#1	50790.	55794.
#2	50169.	55879.
#3	48355.	56582.

Approved: March 29, 2011

Sample Name: S2 Acquired: 3/28/2011 12:43:32 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00158**	**.02876**	**.00004**	**.00223**	**.02553**	**.00292**	**.00386**
Stddev	.00004	.00024	.00001	.00005	.00017	.00013	.00017
%RSD	2.7925	.82087	35.791	2.2139	.65674	4.6046	4.3223
#1	.00162	.02857	.00005	.00225	.02562	.00277	.00388
#2	.00153	.02868	.00003	.00217	.02533	.00300	.00368
#3	.00159	.02902	.00003	.00226	.02563	.00300	.00401

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00044**	**.00074**	**.00343**	**.00094**	**.00103**	**.01041**	**.00389**
Stddev	.00001	.00003	.00007	.00005	.00003	.00008	.00015
%RSD	2.0588	3.9311	1.9490	4.8114	3.0236	.75934	3.8045
#1	.00044	.00071	.00343	.00093	.00101	.01042	.00387
#2	.00045	.00075	.00350	.00090	.00101	.01048	.00405
#3	.00043	.00077	.00337	.00099	.00106	.01033	.00375

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00060**	**.00130**	**.00177**	**.03449**	**.00053**	**.00002**	**.00019**
Stddev	.00002	.00001	.00003	.00058	.00002	.00001	.00003
%RSD	3.4919	.94454	1.4912	1.6845	3.0640	50.350	18.084
#1	.00061	.00132	.00175	.03459	.00051	.00003	.00018
#2	.00058	.00129	.00176	.03387	.00054	.00004	.00023
#3	.00062	.00130	.00180	.03502	.00055	.00001	.00016

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00407**	**.00027**	**.00016**	**.00047**	**.00004**	**.00048**	**.00101**
Stddev	.00009	.00001	.00000	.00003	.00001	.00000	.00001
%RSD	2.2052	2.1916	2.6988	5.6032	15.973	.43962	.80661
#1	-.00415	.00026	.00016	.00046	.00004	.00048	.00101
#2	-.00398	.00027	.00017	.00044	.00005	.00048	.00101
#3	-.00408	.00028	.00016	.00050	.00004	.00048	.00102

Approved: March 29, 2011

Sample Name: S2 Acquired: 3/28/2011 12:43:32 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03508**	**.00175**	**.00006**	**.01076**	**.00914**	**-.00097**
Stddev	.00039	.00007	.00001	.00020	.00038	.00003
%RSD	1.1011	3.7559	10.705	1.8815	4.1772	3.4237
#1	.03509	.00179	.00006	.01067	.00873	-.00094
#2	.03470	.00167	.00007	.01061	.00922	-.00100
#3	.03547	.00178	.00006	.01099	.00948	-.00096

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48902.**	**56110.**
Stddev	571.	365.
%RSD	1.1669	.65022
#1	49417.	55947.
#2	49000.	56528.
#3	48289.	55855.

Approved: March 29, 2011

Sample Name: S3 Acquired: 3/28/2011 12:47:11 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.09449**	**.87210**	**.00668**	**.06894**	**1.1441**	**.22392**	**.18206**
Stddev	.00115	.01559	.00002	.00104	.0082	.00317	.00109
%RSD	1.2150	1.7871	.36767	1.5095	.71809	1.4176	.59983
#1	.09503	.87565	.00667	.06923	1.1449	.22535	.18252
#2	.09317	.85504	.00671	.06778	1.1355	.22029	.18082
#3	.09527	.88560	.00667	.06980	1.1518	.22613	.18286

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01767**	**.03988**	**.14510**	**.03819**	**.04970**	**.57722**	**.25448**
Stddev	.00009	.00014	.00212	.00015	.00023	.00285	.00115
%RSD	.49127	.35790	1.4589	.39517	.46070	.49391	.45314
#1	.01765	.03990	.14578	.03833	.04978	.57885	.25473
#2	.01777	.04001	.14273	.03822	.04945	.57393	.25322
#3	.01760	.03973	.14680	.03803	.04989	.57888	.25549

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03043**	**.06134**	**.08559**	**1.8784**	**.02874**	**.00001**	**.01655**
Stddev	.00011	.00051	.00047	.0077	.00009	.00002	.00008
%RSD	.37011	.83769	.55412	.41004	.30289	118.63	.48778
#1	.03056	.06171	.08555	1.8867	.02879	.00003	.01662
#2	.03034	.06075	.08608	1.8715	.02879	.00001	.01655
#3	.03040	.06155	.08514	1.8770	.02864	.00000	.01646

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00384**	**.00292**	**.00013**	**.02238**	**.00403**	**.00084**	**.04909**
Stddev	.00015	.00001	.00001	.00009	.00002	.00001	.00051
%RSD	3.8947	.36336	8.4740	.39444	.55777	1.7800	1.0438
#1	-.00396	.00291	.00011	.02243	.00401	.00086	.04937
#2	-.00367	.00294	.00013	.02243	.00405	.00083	.04940
#3	-.00389	.00293	.00013	.02228	.00401	.00083	.04850

Approved: March 29, 2011

Sample Name: S3 Acquired: 3/28/2011 12:47:11 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6994**	**.10151**	**.00607**	**.51176**	**.25789**	**-.00049**
Stddev	.0069	.00051	.00001	.00856	.00149	.00013
%RSD	.40764	.50563	.16753	1.6718	.57851	27.659
#1	1.7046	.10171	.00607	.51513	.25808	-.00064
#2	1.6916	.10093	.00608	.50203	.25927	-.00038
#3	1.7022	.10190	.00606	.51812	.25631	-.00044

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49134.**	**57319.**
Stddev	124.	697.
%RSD	.25205	1.2153
#1	49085.	56516.
#2	49041.	57758.
#3	49274.	57685.

Approved: March 29, 2011

Sample Name: S4 Acquired: 3/28/2011 12:50:38 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.19603**	**1.8246**	**.01397**	**.14174**	**2.3102**	**.46607**	**.36941**
Stddev	.00092	.0066	.00003	.00002	.0024	.00175	.00107
%RSD	.46707	.36470	.17983	.01238	.10379	.37543	.28970
#1	.19687	1.8263	.01398	.14176	2.3089	.46628	.37047
#2	.19617	1.8173	.01395	.14173	2.3088	.46770	.36944
#3	.19505	1.8303	.01399	.14174	2.3130	.46422	.36833

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03641**	**.08130**	**.29489**	**.07755**	**.09943**	**1.1737**	**.51743**
Stddev	.00002	.00010	.00123	.00019	.00032	.0032	.00085
%RSD	.05033	.11860	.41704	.24975	.32256	.27710	.16520
#1	.03641	.08135	.29404	.07746	.09971	1.1768	.51831
#2	.03640	.08119	.29630	.07742	.09908	1.1740	.51660
#3	.03643	.08136	.29433	.07777	.09949	1.1703	.51737

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.06125**	**.12292**	**.17451**	**3.8048**	**.05824**	**.00002**	**.03355**
Stddev	.00029	.00043	.00019	.0173	.00002	.00001	.00009
%RSD	.48155	.35089	.11004	.45450	.04205	33.610	.25560
#1	.06159	.12332	.17465	3.8218	.05826	.00001	.03350
#2	.06106	.12298	.17457	3.8055	.05821	.00002	.03364
#3	.06111	.12246	.17429	3.7872	.05824	.00002	.03349

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00376**	**.00576**	**.00015**	**.04610**	**.00838**	**.00129**	**.09989**
Stddev	.00003	.00001	.00001	.00006	.00003	.00001	.00009
%RSD	.92509	.25483	7.0112	.12969	.40295	.39151	.08582
#1	-.00380	.00577	.00015	.04603	.00838	.00129	.09988
#2	-.00373	.00575	.00016	.04615	.00842	.00130	.09980
#3	-.00375	.00575	.00014	.04611	.00835	.00130	.09997

Approved: March 29, 2011

Sample Name: S4 Acquired: 3/28/2011 12:50:38 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.4323**	**.20529**	**.01224**	**1.0511**	**.52313**	**.00025**
Stddev	.0112	.00011	.00003	.0013	.00078	.00015
%RSD	.32633	.05310	.22087	.12046	.14927	62.683
#1	3.4427	.20542	.01224	1.0522	.52307	.00034
#2	3.4338	.20524	.01221	1.0514	.52238	.00007
#3	3.4205	.20522	.01227	1.0497	.52394	.00033

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47891.**	**57006.**
Stddev	72.	443.
%RSD	.15123	.77651
#1	47808.	56498.
#2	47941.	57209.
#3	47924.	57311.

Approved: March 29, 2011

Sample Name: ICV Acquired: 3/28/2011 12:54:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39988**	**9.8898**	**.39663**	**.50733**	**1.0029**	**.05032**	**10.073**
Stddev	.00580	.1170	.00654	.00584	.0047	.00074	.045
%RSD	1.4510	1.1826	1.6481	1.1502	.47198	1.4797	.44719
#1	.40632	10.007	.40410	.51380	1.0083	.05117	10.123
#2	.39504	9.7726	.39196	.50245	1.0012	.04977	10.058
#3	.39829	9.8901	.39383	.50575	.99928	.05002	10.037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04973**	**.20008**	**.50164**	**.49750**	**4.0223**	**50.100**	**1.0081**
Stddev	.00090	.00390	.00720	.00924	.0148	.157	.0043
%RSD	1.8198	1.9476	1.4363	1.8570	.36759	.31274	.42870
#1	.05077	.20458	.50987	.50813	4.0306	50.278	1.0129
#2	.04914	.19783	.49648	.49291	4.0052	50.042	1.0068
#3	.04927	.19783	.49857	.49145	4.0310	49.981	1.0045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.029**	**.50559**	**1.0242**	**51.524**	**.50314**	F **2.8057**	**.49705**
Stddev	.071	.00140	.0162	.174	.00842	3.6754	.00874
%RSD	.70942	.27722	1.5770	.33682	1.6736	131.00	1.7583
#1	9.9819	.50669	1.0426	51.723	.51285	2.5068	.50675
#2	9.9934	.50607	1.0124	51.440	.49787	-.71118	.49458
#3	10.110	.50401	1.0177	51.408	.49870	6.6214	.48980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-5.0000%	

Approved: March 29, 2011

Sample Name: ICV Acquired: 3/28/2011 12:54:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **15.711**	**10.033**	F **13.051**	**1.1728**	**.39925**	F **1298.6**	**.98913**
Stddev	15.122	.245	4.751	.0191	.00580	23.3	.01876
%RSD	96.248	2.4433	36.403	1.6318	1.4538	1.7980	1.8964
#1	27.452	10.316	7.8370	1.1949	.40558	1325.4	1.0107
#2	21.035	9.9006	17.135	1.1615	.39418	1283.4	.97987
#3	-1.3523	9.8821	14.181	1.1620	.39798	1286.9	.97681
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	5.0000%		5.0000%			5.0000%	

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0089**	**.99661**	**.50507**	**1.0248**	**1.0049**	F **1.5731**
Stddev	.0048	.00211	.00934	.0144	.0199	.2476
%RSD	.47713	.21166	1.8502	1.4058	1.9779	15.741
#1	1.0144	.99771	.51581	1.0409	1.0277	1.2892
#2	1.0067	.99418	.49877	1.0131	.99152	1.6860
#3	1.0055	.99795	.50062	1.0205	.99535	1.7442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						5.0000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48893.**	**57342.**
Stddev	618.	227.
%RSD	1.2638	.39625
#1	48185.	57452.
#2	49328.	57493.
#3	49165.	57081.

Approved: March 29, 2011

Sample Name: ICB Acquired: 3/28/2011 12:57:33 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**-.00201**	**.00009**	**.00224**	**-.00015**	**.00001**	**-.00631**
Stddev	.00005	.00400	.00077	.00035	.00001	.00002	.00595
%RSD	12.502	198.77	848.57	15.684	9.0061	196.92	94.383
#1	-.00040	.00197	.00097	.00225	-.00015	.00001	-.01234
#2	-.00049	-.00199	-.00046	.00259	-.00016	-.00001	-.00615
#3	-.00040	-.00602	-.00024	.00188	-.00013	.00003	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00001**	**.00001**	**-.00044**	**.00033**	**.06969**	**-.00237**
Stddev	.00002	.00005	.00018	.00032	.00221	.03088	.00037
%RSD	404.02	857.12	1710.8	71.892	668.29	44.316	15.784
#1	.00002	-.00006	.00009	-.00040	-.00116	.08795	-.00195
#2	-.00001	.00004	.00014	-.00078	-.00072	.03403	-.00249
#3	-.00003	.00000	-.00020	-.00015	.00287	.08708	-.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00571**	**-.00023**	**.00016**	**-.00288**	**-.00012**	F **8.4374**	**-.00035**
Stddev	.00969	.00027	.00018	.00729	.00029	10.284	.00100
%RSD	169.67	119.23	117.26	253.45	237.08	121.89	288.10
#1	.00525	-.00008	.00031	.00186	-.00039	1.0445	-.00109
#2	-.00925	-.00055	.00021	-.01127	.00018	20.182	-.00074
#3	-.01313	-.00007	-.00005	.00078	-.00015	4.0858	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.1000	
Low Limit						-1.0000	

Approved: March 29, 2011

Sample Name: ICB Acquired: 3/28/2011 12:57:33 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.868**	**-.01920**	**.91614**	**-.00141**	**-.00212**	**-.22893**	**.00000**
Stddev	13.152	.02442	8.1813	.00087	.00194	.24834	.0002
%RSD	110.83	127.17	893.02	62.228	91.670	108.48	22629.
#1	21.866	-.00338	-8.3250	-.00240	-.00048	.01664	.00019
#2	-3.0314	-.00690	3.8385	-.00107	-.00160	-.47996	-.00014
#3	16.768	-.04733	7.2350	-.00075	-.00426	-.22348	-.00005
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0400						
Low Limit	-1.2000						

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00048**	**-.00037**	**-.00016**	**.00143**	F **.34046**
Stddev	.00007	.00031	.00093	.00011	.00063	.10134
%RSD	58.673	64.520	254.61	64.970	44.143	29.765
#1	-.00014	.00084	-.00067	-.00007	.00095	.35391
#2	-.00017	.00028	.00068	-.00014	.00214	.23307
#3	-.00004	.00032	-.00111	-.00028	.00119	.43441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49782.**	**57101.**
Stddev	828.	1612.
%RSD	1.6639	2.8227
#1	49195.	57658.
#2	49422.	55284.
#3	50729.	58360.

Approved: March 29, 2011

Sample Name: LLICV Acquired: 3/28/2011 13:01:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00792**	**.17998**	**.00741**	**.01102**	**.01969**	**.00096**	**.19618**
Stddev	.00053	.00165	.00059	.00032	.00028	.00001	.00307
%RSD	6.7232	.91422	7.9798	2.8669	1.4092	.81785	1.5669
#1	.00799	.18157	.00686	.01101	.01995	.00095	.19940
#2	.00842	.18009	.00804	.01134	.01940	.00096	.19587
#3	.00736	.17828	.00734	.01070	.01974	.00096	.19327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00394**	**.00991**	**.00964**	**.07977**	**1.0419**	**.01683**
Stddev	.00001	.00017	.00038	.00052	.00091	.0055	.00111
%RSD	1.4524	4.1832	3.8039	5.4386	1.1444	.52851	6.5923
#1	.00095	.00402	.01027	.01023	.08075	1.0399	.01779
#2	.00098	.00406	.00952	.00944	.07894	1.0482	.01709
#3	.00096	.00376	.00995	.00924	.07964	1.0377	.01562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20344**	**.00986**	**.01896**	**.97620**	**.00998**	**9.6642**	**.01029**
Stddev	.01199	.00025	.00029	.00656	.00028	5.3064	.00077
%RSD	5.8916	2.5593	1.5122	.67176	2.8027	54.907	7.5046
#1	.21082	.01009	.01914	.97801	.01030	15.759	.00949
#2	.18961	.00959	.01911	.96892	.00977	7.1651	.01035
#3	.20988	.00989	.01863	.98166	.00986	6.0689	.01104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: LLICV Acquired: 3/28/2011 13:01:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.49879**	**.20814**	**1.8719**	**.02057**	**.00685**	**.03856**	**.01948**
Stddev	2.1817	.05899	6.0740	.00156	.00073	.26865	.00029
%RSD	437.39	28.343	324.49	7.5739	10.726	696.68	1.4815
#1	1.3212	.22101	-1.6557	.02207	.00719	-.23142	.01939
#2	-2.9172	.25964	-1.6142	.02068	.00735	.30585	.01980
#3	.09968	.14378	8.8855	.01896	.00601	.04125	.01924
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01956**	**.01949**	**.01068**	**.01920**	**.02098**	**.05355**
Stddev	.00012	.00099	.00081	.00022	.00017	.01445
%RSD	.60309	5.0806	7.5631	1.1323	.81172	26.976
#1	.01953	.02058	.01036	.01910	.02090	.04878
#2	.01945	.01923	.01160	.01945	.02117	.06978
#3	.01969	.01865	.01008	.01905	.02086	.04210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50359.**	**55657.**
Stddev	284.	539.
%RSD	.56456	.96817
#1	50302.	55146.
#2	50108.	56220.
#3	50668.	55606.

Approved: March 29, 2011

Sample Name: ICSA Acquired: 3/28/2011 13:04:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**247.02**	**-.00341**	**.04620**	**.00098**	**-.00001**	**251.70**
Stddev	.00066	3.04	.00146	.00108	.00005	.00002	1.13
%RSD	87.096	1.2319	42.923	2.3420	4.8834	151.67	.44734
#1	-.00008	245.74	-.00382	.04619	.00094	-.00001	252.84
#2	-.00080	244.83	-.00179	.04513	.00103	-.00003	250.59
#3	-.00140	250.50	-.00463	.04729	.00097	.00000	251.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.00135**	**.00009**	**-.00160**	**.00018**	**97.449**	**.03225**	**.00587**
Stddev	.00009	.00010	.00021	.00052	.574	.02093	.00125
%RSD	6.5629	106.09	12.805	294.94	.58923	64.911	21.223
#1	.00132	.00004	-.00180	.00016	97.853	.01562	.00731
#2	.00144	.00020	-.00139	-.00034	96.791	.02537	.00519
#3	.00127	.00003	-.00162	.00070	97.702	.05576	.00512
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.00050						
Low Limit	-.00050						

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**257.89**	**-.00198**	**-.00091**	**.00067**	**-.00141**	F **-411.23**	F **-.01184**
Stddev	2.04	.00012	.00011	.00522	.00081	13.07	.00098
%RSD	.79005	6.2932	11.893	780.93	57.625	3.1770	8.3052
#1	259.28	-.00211	-.00083	-.00505	-.00228	-399.76	-.01133
#2	255.55	-.00186	-.00103	.00517	-.00067	-425.45	-.01121
#3	258.83	-.00197	-.00086	.00188	-.00129	-408.49	-.01297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						.50000	.00500
Low Limit						-.50000	-.00500

Approved: March 29, 2011

Sample Name: ICSA Acquired: 3/28/2011 13:04:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **5.8683**	F **230.85**	F **-31.572**	**-.00636**	**-.00316**	**.61026**	**.00050**
Stddev	6.0202	3.86	4.458	.00082	.00124	.14909	.00061
%RSD	102.59	1.6700	14.122	12.927	39.450	24.431	123.08
#1	8.7452	232.69	-30.724	-.00728	-.00421	.74875	.00062
#2	9.9104	226.42	-27.598	-.00568	-.00348	.45244	-.00017
#3	-1.0506	233.44	-36.393	-.00613	-.00178	.62958	.00104
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.04000	.04000	.04000				
Low Limit	-.04000	-.04000	-.04000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	**-.00953**	**.00120**	**-.00225**	**-.00632**	F **-7.0762**
Stddev	.00010	.00039	.00220	.00001	.00093	.2271
%RSD	10.567	4.1164	182.57	.46914	14.644	3.2086
#1	-.00107	-.00959	.00071	-.00224	-.00643	-6.8161
#2	-.00101	-.00911	.00361	-.00226	-.00535	-7.1777
#3	-.00086	-.00989	-.00070	-.00225	-.00719	-7.2348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46976.**	**55558.**
Stddev	482.	567.
%RSD	1.0257	1.0213
#1	46796.	55049.
#2	47522.	56170.
#3	46610.	55455.

Approved: March 29, 2011

Sample Name: ICSAB Acquired: 3/28/2011 13:08:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51125**	**252.68**	**.24061**	**.04428**	**.24237**	**.26086**	**252.66**
Stddev	.00460	3.36	.00299	.00060	.00082	.00173	1.69
%RSD	.89915	1.3297	1.2418	1.3533	.33694	.66438	.66863
#1	.51401	254.66	.24373	.04483	.24244	.26214	254.23
#2	.50594	248.80	.23778	.04364	.24153	.25889	250.87
#3	.51379	254.57	.24030	.04436	.24315	.26155	252.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44576**	**.23927**	**.24380**	**.24108**	**97.012**	**5.0432**	**.00575**
Stddev	.00511	.00300	.00202	.00254	.392	.0236	.00064
%RSD	1.1453	1.2529	.82869	1.0520	.40429	.46789	11.038
#1	.45042	.24211	.24534	.24365	97.233	5.0704	.00585
#2	.44030	.23613	.24151	.23858	96.559	5.0286	.00633
#3	.44656	.23957	.24455	.24100	97.245	5.0306	.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**255.84**	**.23567**	**-.00075**	**4.9814**	**.47656**	F **-426.04**	**.46148**
Stddev	.92	.00244	.00009	.0400	.00700	11.73	.00494
%RSD	.35970	1.0335	11.386	.80387	1.4698	2.7522	1.0698
#1	256.65	.23794	-.00069	5.0099	.48326	-421.00	.46542
#2	254.84	.23310	-.00071	4.9356	.46928	-417.68	.45594
#3	256.03	.23598	-.00085	4.9987	.47715	-439.44	.46308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.50000	
Low Limit						-.50000	

Approved: March 29, 2011

Sample Name: ICSAB Acquired: 3/28/2011 13:08:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.680**	F **236.25**	F **-45.548**	**.48839**	**.24102**	**.94351**	**.00005**
Stddev	6.407	3.76	8.036	.00820	.00846	.14761	.00017
%RSD	43.641	1.5927	17.643	1.6786	3.5091	15.644	364.38
#1	10.159	239.63	-40.569	.49506	.24648	1.1072	.00023
#2	11.870	232.20	-41.256	.47924	.23128	.82057	-.00011
#3	22.012	236.93	-54.818	.49086	.24530	.90275	.00002
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.60000	.60000	.60000				
Low Limit	.40000	.40000	.40000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00096**	**-.00916**	**.44548**	**.24861**	**.45583**	F **-7.4396**
Stddev	.00004	.00029	.00585	.00236	.00853	.1863
%RSD	4.1229	3.2019	1.3140	.94940	1.8716	2.5042
#1	-.00092	-.00936	.45119	.25099	.46369	-7.6461
#2	-.00100	-.00882	.43949	.24627	.44676	-7.3884
#3	-.00095	-.00930	.44577	.24857	.45703	-7.2842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47025.**	**58249.**
Stddev	461.	412.
%RSD	.97954	.70714
#1	46628.	57817.
#2	47530.	58638.
#3	46919.	58293.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 13:12:17 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39472**	**9.7868**	**.39066**	**.49426**	**.99892**	**.04928**	**10.028**
Stddev	.00869	.1437	.00940	.00919	.03094	.00094	.244
%RSD	2.2021	1.4687	2.4057	1.8603	3.0978	1.9126	2.4361
#1	.38496	9.6242	.37990	.48375	.97278	.04820	9.8878
#2	.40161	9.8969	.39730	.50082	1.0331	.04975	10.310
#3	.39760	9.8392	.39477	.49821	.99088	.04990	9.8868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04917**	**.19860**	**.49952**	**.49701**	**4.0542**	**49.497**	**.99493**
Stddev	.00111	.00520	.00965	.01364	.1059	1.500	.02701
%RSD	2.2484	2.6159	1.9320	2.7447	2.6118	3.0308	2.7146
#1	.04790	.19262	.48839	.48129	4.0188	48.166	.97042
#2	.04990	.20122	.50464	.50398	4.1732	51.122	1.0239
#3	.04970	.20197	.50553	.50576	3.9705	49.202	.99047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9949**	**.49933**	**.97599**	**49.568**	**.49631**	F **5.9393**	**.49662**
Stddev	.2812	.01520	.01954	1.405	.01207	21.702	.01228
%RSD	2.8134	3.0439	2.0023	2.8338	2.4314	365.39	2.4736
#1	9.9132	.48567	.95346	48.244	.48239	-9.6153	.48247
#2	10.308	.51571	.98827	51.041	.50286	-3.2980	.50286
#3	9.7636	.49663	.98625	49.420	.50370	30.731	.50453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 13:12:17 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **16.509**	**10.002**	F **21.016**	**1.1776**	**.38833**	**5.0653**	**.99305**
Stddev	12.401	.306	3.671	.0223	.00627	.5005	.02562
%RSD	75.116	3.0604	17.467	1.8900	1.6135	9.8804	2.5795
#1	5.1388	9.6490	18.397	1.1519	.38110	4.7135	.96351
#2	14.657	10.160	19.440	1.1895	.39171	5.6383	1.0065
#3	29.733	10.196	25.212	1.1914	.39217	4.8441	1.0091
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99479**	**.99475**	**.49898**	**.99268**	**.99252**	F **.85670**
Stddev	.02907	.02862	.01160	.01714	.02976	.23468
%RSD	2.9219	2.8767	2.3245	1.7270	2.9986	27.394
#1	.96816	.97206	.48576	.97309	.95816	.69329
#2	1.0258	1.0269	.50373	1.0049	1.0101	1.1256
#3	.99042	.98529	.50746	1.0000	1.0093	.75119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49037.**	**58099.**
Stddev	759.	1317.
%RSD	1.5480	2.2673
#1	49911.	58765.
#2	48547.	56582.
#3	48653.	58950.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 13:15:43 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.01184**	**-.00015**	**.00177**	**.00002**	**.00004**	**-.00607**
Stddev	.00042	.01594	.00071	.00023	.00002	.00002	.00178
%RSD	842.77	134.66	467.07	13.180	132.72	53.552	29.275
#1	-.00031	.00548	.00055	.00199	.00004	.00004	-.00591
#2	.00052	.02997	-.00088	.00180	.00001	.00006	-.00792
#3	-.00006	.00005	-.00013	.00153	.00000	.00002	-.00438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00004**	**.00028**	**-.00017**	**-.00046**	**.06857**	**-.00290**
Stddev	.00008	.00002	.00038	.00006	.00201	.02013	.00072
%RSD	323.61	47.815	136.72	33.050	435.21	29.355	24.857
#1	-.00004	.00003	.00019	-.00011	.00177	.09033	-.00296
#2	-.00001	.00003	.00070	-.00017	-.00214	.06476	-.00215
#3	.00012	.00006	-.00005	-.00022	-.00102	.05062	-.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**-.00012**	**.00027**	**.00571**	**.00022**	F **5.5985**	**.00030**
Stddev	.00814	.00039	.00035	.00232	.00045	6.8768	.00006
%RSD	795.38	330.67	132.14	40.626	203.20	122.83	21.327
#1	-.00799	.00033	.00002	.00327	-.00018	4.3453	.00027
#2	.00784	-.00029	.00011	.00788	.00013	13.016	.00037
#3	.00322	-.00040	.00067	.00599	.00071	-.56550	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 13:15:43 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.0217**	**-.01640**	**-.91991**	**-.00049**	**-.00077**	**-.15975**	**.00049**
Stddev	7.5947	.03194	4.0971	.00106	.00089	.11779	.00027
%RSD	84.183	194.74	445.38	215.64	115.53	73.731	55.160
#1	1.6213	-.02515	3.0397	-.00064	-.00149	-.05136	.00041
#2	16.797	-.04305	-5.1419	-.00148	.00023	-.14281	.00027
#3	8.6470	.01900	-.65750	.00064	-.00105	-.28510	.00079
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000						
Low Limit	-1.0000						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00025**	**.00053**	**.00030**	**.00135**	**.04027**
Stddev	.00007	.00131	.00079	.00061	.00010	.14775
%RSD	222.85	519.31	148.98	201.16	7.2875	366.90
#1	-.00003	-.00166	.00067	-.00009	.00136	-.00468
#2	.00004	-.00002	-.00032	.00100	.00144	.20527
#3	-.00010	.00093	.00125	.00000	.00124	-.07978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49738.**	**57407.**
Stddev	1116.	203.
%RSD	2.2445	.35329
#1	48965.	57176.
#2	49232.	57484.
#3	51018.	57559.

Approved: March 29, 2011

Sample Name: PBS 94 Acquired: 3/28/2011 13:19:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.00103**	**-.00310**	**-.00119**	**.00120**	**.00000**	**.00692**
Stddev	.00048	.00128	.00194	.00049	.00011	.0000	.00581
%RSD	102.85	124.74	62.587	40.830	8.7919	1533.0	83.927
#1	-.00097	.00026	-.00441	-.00156	.00130	-.00002	.00626
#2	-.00001	-.00231	-.00403	-.00137	.00109	.00001	.01303
#3	-.00043	-.00104	-.00087	-.00064	.00120	.00001	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00035**	**.00103**	**-.00015**	**.02632**	**.17489**	**-.00291**
Stddev	.00009	.00014	.00006	.00018	.00044	.01962	.00049
%RSD	34.375	40.995	5.4199	115.83	1.6735	11.220	16.947
#1	.00024	-.00040	.00108	-.00035	.02661	.19747	-.00340
#2	.00038	-.00019	.00103	-.00010	.02581	.16514	-.00241
#3	.00020	-.00045	.00097	-.00001	.02653	.16204	-.00290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00099**	**.00016**	**.00007**	**.02384**	**.00069**	F **-47.144**	**.00124**
Stddev	.01642	.00024	.00014	.00122	.00060	5.267	.00029
%RSD	1664.6	156.32	194.21	5.1303	87.158	11.172	23.604
#1	.00050	-.00001	.00011	.02413	.00083	-41.451	.00091
#2	-.01810	.00043	-.00008	.02489	.00121	-51.842	.00148
#3	.01464	.00005	.00018	.02250	.00003	-48.139	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: PBS 94 Acquired: 3/28/2011 13:19:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.367**	**2.7818**	F **-496.43**	**-.00011**	**.00038**	**4.5599**	**.00023**
Stddev	3.099	.0367	8.29	.00041	.00110	.1181	.00027
%RSD	14.502	1.3190	1.6706	360.56	293.76	2.5897	117.61
#1	22.229	2.7399	-493.54	-.00053	-.00088	4.4261	-.00008
#2	17.928	2.8083	-489.98	.00029	.00082	4.6497	.00038
#3	23.942	2.7971	-505.79	-.00011	.00119	4.6038	.00039
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00097**	**-.00218**	**-.00023**	**.00449**	**.01008**
Stddev	.00009	.00058	.00047	.00006	.00136	.18505
%RSD	38.310	59.669	21.476	26.416	30.265	1836.2
#1	-.00019	.00049	-.00164	-.00025	.00374	-.04072
#2	-.00033	.00081	-.00237	-.00016	.00605	.21523
#3	-.00017	.00162	-.00251	-.00028	.00366	-.14427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47702.**	**56890.**
Stddev	136.	760.
%RSD	.28612	1.3366
#1	47774.	56013.
#2	47787.	57377.
#3	47545.	57278.

Approved: March 29, 2011

Sample Name: LCSS 94 Acquired: 3/28/2011 13:23:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19699**	**4.6189**	**.19168**	**.94124**	**.47956**	**.02500**	**4.7486**
Stddev	.00106	.0148	.00136	.00296	.00718	.00010	.0714
%RSD	.53640	.31951	.71090	.31454	1.4975	.39505	1.5028
#1	.19821	4.6215	.19134	.94005	.47136	.02501	4.6683
#2	.19645	4.6030	.19053	.93907	.48254	.02490	4.7725
#3	.19632	4.6322	.19318	.94461	.48477	.02510	4.8049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02468**	**.10263**	**.25387**	**.24974**	**1.9349**	**23.685**	**.47716**
Stddev	.00009	.00044	.00075	.00104	.0362	.357	.00653
%RSD	.35763	.42994	.29366	.41821	1.8693	1.5084	1.3680
#1	.02476	.10212	.25367	.24863	1.8937	23.280	.46969
#2	.02459	.10285	.25325	.24988	1.9496	23.821	.48003
#3	.02469	.10292	.25470	.25070	1.9613	23.954	.48177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.8066**	**.24018**	**.52186**	**24.445**	**.25552**	F **-36.609**	**.24707**
Stddev	.1071	.00453	.00351	.348	.00022	10.122	.00098
%RSD	2.2283	1.8851	.67329	1.4241	.08511	27.650	.39860
#1	4.6986	.23557	.51998	24.057	.25528	-28.271	.24662
#2	4.8083	.24036	.52591	24.546	.25558	-33.685	.24639
#3	4.9128	.24462	.51968	24.731	.25570	-47.872	.24820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: LCSS 94 Acquired: 3/28/2011 13:23:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.3721**	**5.2034**	F **-24.308**	**.57254**	**.18847**	F **650.18**	**.49403**
Stddev	9.5555	.0382	12.172	.00184	.00171	1.81	.00162
%RSD	149.96	.73473	50.075	.32192	.90789	.27766	.32727
#1	17.391	5.1621	-37.221	.57125	.18685	648.11	.49217
#2	1.3574	5.2375	-22.656	.57172	.19026	651.03	.49509
#3	.36783	5.2107	-13.046	.57465	.18829	651.41	.49483
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit			9.0000			90.000	
Low Limit			-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47849**	**.48129**	**.24401**	**.51831**	**.50349**	**.87464**
Stddev	.00652	.00697	.00114	.00089	.00051	.23834
%RSD	1.3627	1.4485	.46899	.17127	.10201	27.251
#1	.47116	.47398	.24270	.51917	.50319	.68532
#2	.48071	.48204	.24453	.51740	.50408	.79630
#3	.48362	.48786	.24480	.51836	.50319	1.1423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47264.**	**56625.**
Stddev	100.	474.
%RSD	.21098	.83651
#1	47150.	57141.
#2	47332.	56525.
#3	47311.	56210.

Approved: March 29, 2011

Sample Name: L1103061221 Acquired: 3/28/2011 13:26:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02164**	**145.44**	**.14780**	**.16691**	**1.6548**	**.00127**	**55.793**
Stddev	.00077	.56	.00039	.00115	.0169	.00001	.449
%RSD	3.5602	.38172	.26438	.69122	1.0219	1.0454	.80525
#1	.02077	145.69	.14736	.16698	1.6731	.00129	56.280
#2	.02223	145.83	.14793	.16803	1.6516	.00126	55.703
#3	.02191	144.80	.14811	.16572	1.6398	.00127	55.394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00517**	**.18525**	**.27413**	**.31558**	**331.56**	**19.104**	**.07013**
Stddev	.00014	.00026	.00072	.00072	2.61	.152	.00148
%RSD	2.6696	.13864	.26349	.22712	.78720	.79709	2.1113
#1	.00528	.18507	.27341	.31588	333.45	19.267	.07132
#2	.00502	.18515	.27485	.31610	332.66	19.082	.07060
#3	.00523	.18555	.27414	.31476	328.58	18.965	.06847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**75.617**	**6.3193**	**.01003**	**3.4970**	**.23110**	F **63920.**	**.06234**
Stddev	.475	.0568	.00005	.0121	.00056	92.	.00062
%RSD	.62754	.89898	.45037	.34687	.24067	.14343	.98968
#1	75.623	6.3665	.00999	3.5105	.23168	63965.	.06289
#2	76.089	6.3353	.01008	3.4933	.23107	63815.	.06167
#3	75.140	6.2562	.01002	3.4871	.23057	63981.	.06246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103061221 Acquired: 3/28/2011 13:26:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **42.673**	F **86.014**	F **-5748.5**	**-.00129**	**.00080**	F **804.61**	**.01031**
Stddev	4.255	.271	10.5	.00152	.00318	2.23	.00023
%RSD	9.9701	.31550	.18327	117.49	396.38	.27671	2.2201
#1	45.788	86.272	-5752.8	-.00075	.00185	804.71	.01025
#2	44.406	86.038	-5756.3	-.00012	-.00277	802.33	.01056
#3	37.826	85.731	-5736.5	-.00300	.00332	806.78	.01012
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47558**	**2.6695**	**.02629**	**.82616**	**.50888**	F **285.34**
Stddev	.00373	.0184	.00072	.00094	.00377	1.51
%RSD	.78334	.68732	2.7565	.11375	.74105	.52773
#1	.47966	2.6866	.02608	.82679	.51309	284.17
#2	.47470	2.6717	.02570	.82508	.50581	284.82
#3	.47237	2.6501	.02710	.82661	.50775	287.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48125.**	**59443.**
Stddev	67.	390.
%RSD	.13955	.65543
#1	48062.	59229.
#2	48196.	59208.
#3	48119.	59893.

Approved: March 29, 2011

Sample Name: L1103061222S Acquired: 3/28/2011 13:30:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23320**	**201.08**	**.33393**	**1.0032**	**2.4188**	**.01568**	**64.514**
Stddev	.00030	2.07	.00219	.0017	.0139	.00002	.285
%RSD	.12777	1.0305	.65497	.17087	.57316	.11447	.44227
#1	.23349	201.28	.33578	1.0033	2.4332	.01565	64.829
#2	.23290	203.05	.33448	1.0014	2.4175	.01568	64.273
#3	.23322	198.92	.33152	1.0048	2.4056	.01569	64.440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02737**	**.30064**	**.60024**	**.56851**	**413.40**	**42.292**	**.53518**
Stddev	.00008	.00050	.00319	.00189	3.27	.197	.00247
%RSD	.27443	.16536	.53208	.33234	.79131	.46634	.46159
#1	.02736	.30084	.59995	.57032	414.91	42.518	.53765
#2	.02745	.30101	.60358	.56867	409.65	42.157	.53519
#3	.02730	.30008	.59721	.56655	415.66	42.200	.53271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**87.583**	**6.7235**	**.45674**	**27.196**	**.49689**	F **59837.**	**.27420**
Stddev	.447	.0194	.00127	.123	.00075	105.	.00058
%RSD	.51094	.28850	.27909	.45105	.15096	.17538	.21222
#1	87.366	6.7293	.45530	27.324	.49766	59852.	.27435
#2	87.285	6.7019	.45773	27.079	.49687	59933.	.27356
#3	88.097	6.7393	.45719	27.186	.49616	59725.	.27469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103061222S Acquired: 3/28/2011 13:30:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **47.800**	F **109.08**	F **-8688.7**	**.50153**	**.16259**	F **1525.4**	**.43861**
Stddev	7.733	.34	21.7	.00173	.00249	3.2	.00249
%RSD	16.178	.30969	.24987	.34568	1.5337	.20979	.56666
#1	55.328	109.39	-8709.0	.50296	.16207	1522.1	.43626
#2	48.194	109.13	-8691.4	.50202	.16531	1528.5	.44121
#3	39.877	108.72	-8665.8	.49960	.16041	1525.6	.43836
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0013**	**7.4879**	**.24599**	**1.6282**	**1.0771**	F **352.60**
Stddev	.0052	.0263	.00213	.0040	.0021	.06
%RSD	.51827	.35191	.86679	.24818	.19726	.01767
#1	1.0072	7.5184	.24361	1.6241	1.0748	352.55
#2	.99758	7.4735	.24664	1.6322	1.0776	352.67
#3	.99902	7.4720	.24773	1.6283	1.0789	352.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47998.**	**60133.**
Stddev	98.	229.
%RSD	.20327	.38073
#1	47923.	59994.
#2	47963.	60397.
#3	48108.	60008.

Approved: March 29, 2011

Sample Name: L1103061223SD Acquired: 3/28/2011 13:33:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22575**	**185.71**	**.32799**	**.98947**	**2.2480**	**.01807**	**70.982**
Stddev	.00072	2.41	.00142	.00582	.0067	.00002	.169
%RSD	.31822	1.2954	.43174	.58855	.29847	.13224	.23807
#1	.22495	183.33	.32637	.98406	2.2462	.01806	70.807
#2	.22598	188.14	.32867	.98872	2.2423	.01805	70.994
#3	.22633	185.65	.32894	.99563	2.2554	.01810	71.144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02769**	**.30063**	**.54154**	**.56964**	**414.23**	**42.596**	**.51522**
Stddev	.00007	.00062	.00368	.00134	2.20	.141	.00288
%RSD	.25797	.20719	.68018	.23573	.53114	.33175	.55887
#1	.02773	.30000	.53807	.56813	415.90	42.462	.51325
#2	.02772	.30065	.54113	.57007	415.06	42.580	.51389
#3	.02761	.30124	.54541	.57071	411.74	42.744	.51852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**93.191**	**7.1919**	**.45947**	**27.278**	**.48618**	F **73582.**	**.27824**
Stddev	.384	.0138	.00086	.106	.00056	59.	.00027
%RSD	.41157	.19248	.18717	.38805	.11549	.08057	.09651
#1	92.750	7.1763	.45857	27.162	.48556	73514.	.27838
#2	93.380	7.2026	.46028	27.303	.48630	73623.	.27793
#3	93.443	7.1968	.45956	27.369	.48666	73610.	.27841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103061223SD Acquired: 3/28/2011 13:33:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **28.249**	F **103.04**	F **-6263.2**	**.49526**	**.16312**	F **1665.5**	**.44093**
Stddev	1.369	.14	24.5	.00297	.00055	4.7	.00197
%RSD	4.8472	.13947	.39194	.59936	.34021	.27971	.44658
#1	29.795	102.87	-6237.4	.49184	.16374	1660.1	.44153
#2	27.189	103.10	-6265.8	.49713	.16292	1668.2	.43872
#3	27.764	103.14	-6286.3	.49682	.16269	1668.1	.44252
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99896**	**6.3919**	**.24245**	**1.5679**	**1.0753**	F **333.48**
Stddev	.00288	.0162	.00282	.0095	.0016	3.12
%RSD	.28824	.25312	1.1626	.60410	.14612	.93525
#1	.99595	6.3770	.24005	1.5586	1.0735	330.51
#2	.99924	6.3896	.24174	1.5677	1.0764	333.21
#3	1.0017	6.4091	.24556	1.5775	1.0760	336.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47832.**	**58289.**
Stddev	59.	379.
%RSD	.12286	.65074
#1	47898.	57948.
#2	47809.	58221.
#3	47787.	58698.

Approved: March 29, 2011

Sample Name: L1103072101 Acquired: 3/28/2011 13:37:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.55072**	**.00361**	**.00390**	**.01046**	**.00001**	**156.39**
Stddev	.00068	.00127	.00046	.00045	.00009	.00001	1.45
%RSD	272.79	.23011	12.640	11.492	.83118	65.648	.92936
#1	-.00052	.54959	.00357	.00422	.01042	.00003	154.85
#2	.00078	.55049	.00408	.00409	.01057	.00001	156.59
#3	.00048	.55209	.00317	.00339	.01041	.00001	157.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00048**	**.00595**	**.01269**	**2.3761**	**.58067**	**.00059**
Stddev	.00005	.00009	.00019	.00014	.0118	.00245	.00082
%RSD	10.169	18.684	3.1178	1.0726	.49701	.42170	139.49
#1	.00047	.00056	.00612	.01282	2.3624	.57876	.00113
#2	.00057	.00038	.00576	.01255	2.3831	.58343	-.00036
#3	.00056	.00050	.00598	.01271	2.3827	.57982	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**70.012**	**1.2575**	**.00007**	**.20821**	**.00166**	**138.46**	**.01482**
Stddev	.186	.0076	.00022	.00189	.00016	3.34	.00130
%RSD	.26560	.60600	322.55	.90974	9.6142	2.4089	8.7690
#1	69.862	1.2507	.00024	.20627	.00151	141.57	.01351
#2	70.220	1.2559	.00014	.20829	.00164	138.87	.01611
#3	69.954	1.2657	-.00018	.21006	.00183	134.93	.01485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103072101 Acquired: 3/28/2011 13:37:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.6428**	F **204.17**	F **-7512.6**	**-.00250**	**-.00273**	**61.961**	**.00102**
Stddev	11.535	.28	28.5	.00028	.00182	.149	.00007
%RSD	150.92	.13872	.37967	11.075	66.841	.24071	7.0554
#1	.66974	204.20	-7485.1	-.00225	-.00473	62.099	.00094
#2	1.3017	204.44	-7510.6	-.00280	-.00230	61.982	.00107
#3	20.957	203.88	-7542.1	-.00245	-.00116	61.803	.00106
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06074**	**.01403**	**.00111**	**.00437**	**.19532**	**1.6248**
Stddev	.00073	.00025	.00071	.00004	.00137	.2460
%RSD	1.2096	1.8004	64.532	.90495	.70306	15.143
#1	.05990	.01379	.00182	.00438	.19515	1.6480
#2	.06113	.01430	.00039	.00440	.19678	1.8585
#3	.06120	.01401	.00111	.00433	.19405	1.3680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49632.**	**58449.**
Stddev	168.	129.
%RSD	.33936	.22038
#1	49802.	58597.
#2	49628.	58384.
#3	49465.	58366.

Approved: March 29, 2011

Sample Name: L1103072102 Acquired: 3/28/2011 13:40:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG359705-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.54908**	**.00268**	**.00235**	**.01004**	**.00003**	**167.02**
Stddev	.00131	.00669	.00027	.00035	.00012	.00000	1.01
%RSD	26039.	1.2190	10.122	15.057	1.2349	7.6474	.60741
#1	-.00007	.54262	.00291	.00247	.01003	.00003	167.34
#2	-.00127	.54864	.00274	.00263	.01017	.00003	167.84
#3	.00135	.55599	.00238	.00195	.00992	.00003	165.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00047**	**.00511**	**.01062**	**1.9017**	**.41430**	**.00160**
Stddev	.00005	.00006	.00040	.00020	.0176	.02722	.00092
%RSD	8.1039	13.159	7.9169	1.8999	.92318	6.5697	57.394
#1	.00052	.00054	.00506	.01083	1.8878	.44524	.00095
#2	.00061	.00047	.00553	.01043	1.9214	.40361	.00119
#3	.00060	.00041	.00473	.01059	1.8960	.39405	.00264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**73.196**	**.91198**	**-.00009**	**.13790**	**.00166**	**113.02**	**.01226**
Stddev	.751	.00748	.00011	.00066	.00033	13.15	.00069
%RSD	1.0263	.82053	119.75	.48145	19.617	11.634	5.6081
#1	73.464	.91573	-.00018	.13772	.00193	127.54	.01268
#2	73.776	.91684	-.00013	.13864	.00130	101.92	.01263
#3	72.347	.90336	.00003	.13735	.00174	109.59	.01147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103072102 Acquired: 3/28/2011 13:40:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG359705-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.3505**	F **208.74**	F **-6132.3**	**-.00233**	**-.00254**	**47.442**	**.00059**
Stddev	1.9345	1.90	49.2	.00121	.00184	.410	.00019
%RSD	36.154	.91066	.80282	51.764	72.205	.86334	32.725
#1	5.1119	207.23	-6099.5	-.00234	-.00221	47.406	.00079
#2	3.5464	208.11	-6108.4	-.00354	-.00089	47.052	.00057
#3	7.3932	210.88	-6188.9	-.00112	-.00452	47.869	.00041
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06370**	**.01151**	**.00163**	**.00459**	**.26788**	**1.3759**
Stddev	.00042	.00065	.00122	.00025	.00242	.2117
%RSD	.65707	5.6614	74.767	5.4257	.90286	15.387
#1	.06395	.01083	.00302	.00440	.26608	1.2465
#2	.06393	.01213	.00105	.00487	.26694	1.2609
#3	.06322	.01156	.00081	.00451	.27063	1.6202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48743.**	**57691.**
Stddev	240.	621.
%RSD	.49335	1.0757
#1	48954.	57488.
#2	48794.	57198.
#3	48482.	58388.

Approved: March 29, 2011

Sample Name: L1103072102PS Acquired: 3/28/2011 13:44:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG359705-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22217**	**5.7671**	**.22103**	**1.1043**	**.50302**	**.02659**	**169.56**
Stddev	.00178	.0385	.00122	.0056	.00274	.00012	.76
%RSD	.80160	.66786	.55182	.51048	.54526	.45550	.44718
#1	.22014	5.7262	.22147	1.0989	.50045	.02651	168.74
#2	.22348	5.7723	.21966	1.1102	.50271	.02673	169.70
#3	.22289	5.8028	.22197	1.1040	.50591	.02654	170.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02826**	**.10683**	**.26277**	**.27655**	**3.8371**	**25.813**	**.51075**
Stddev	.00024	.00029	.00105	.00064	.0218	.108	.00250
%RSD	.84989	.27526	.39949	.23253	.56869	.41825	.48995
#1	.02799	.10659	.26158	.27584	3.8202	25.691	.50851
#2	.02842	.10673	.26357	.27675	3.8295	25.854	.51029
#3	.02838	.10715	.26315	.27707	3.8618	25.894	.51345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**77.089**	**1.1273**	**.53119**	**26.310**	**.26656**	**110.74**	**.27822**
Stddev	.482	.0052	.00449	.130	.00140	12.32	.00321
%RSD	.62494	.46499	.84547	.49262	.52556	11.124	1.1530
#1	76.600	1.1216	.52625	26.161	.26520	124.60	.27558
#2	77.106	1.1284	.53229	26.392	.26647	101.05	.27728
#3	77.563	1.1319	.53503	26.378	.26800	106.57	.28179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103072102PS Acquired: 3/28/2011 13:44:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG359705-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.8403**	F **212.56**	F **-6229.0**	**.63864**	**.22382**	F **780.18**	**.00150**
Stddev	6.8413	.47	41.9	.00551	.00333	4.85	.00012
%RSD	87.258	.22232	.67240	.86269	1.4862	.62121	7.8108
#1	15.640	212.04	-6192.3	.63445	.22025	775.15	.00158
#2	5.0240	212.65	-6219.9	.63659	.22437	780.58	.00156
#3	2.8567	212.98	-6274.6	.64488	.22683	784.82	.00137
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.55728**	**.50981**	**.27049**	**.53572**	**.79093**	**3.5053**
Stddev	.00310	.00241	.00242	.00168	.00337	.0722
%RSD	.55551	.47312	.89573	.31452	.42596	2.0599
#1	.55383	.50751	.26770	.53377	.78711	3.4367
#2	.55820	.50959	.27177	.53677	.79349	3.4988
#3	.55981	.51232	.27202	.53661	.79219	3.5806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47893.**	**58171.**
Stddev	115.	332.
%RSD	.24082	.57157
#1	48026.	58543.
#2	47840.	58070.
#3	47814.	57901.

Approved: March 29, 2011

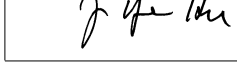
Sample Name: L1103072102SDL Acquired: 3/28/2011 13:47:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 250 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.10262**	**.00200**	**.00034**	**.00189**	**.00001**	**33.258**
Stddev	.00055	.00117	.00075	.00064	.00010	.00001	.016
%RSD	97.330	1.1444	37.420	187.01	5.3886	112.90	.04690
#1	.00007	.10159	.00134	.00025	.00192	.00000	33.262
#2	-.00088	.10238	.00282	-.00025	.00197	.00001	33.241
#3	-.00088	.10390	.00186	.00102	.00178	.00002	33.272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00035**	**.00094**	**.00179**	**.37909**	**.12899**	**-.00251**
Stddev	.00009	.00014	.00024	.00060	.01410	.00879	.00087
%RSD	1748.0	39.439	26.074	33.663	3.7195	6.8115	34.525
#1	-.00009	.00025	.00098	.00181	.39505	.13342	-.00229
#2	.00009	.00051	.00115	.00238	.36832	.11887	-.00347
#3	-.00002	.00029	.00067	.00118	.37389	.13468	-.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.656**	**.18598**	**-.00016**	**.02824**	**.00014**	**57.445**	**.00237**
Stddev	.008	.00123	.00018	.00677	.00031	11.563	.00090
%RSD	.05496	.65898	117.35	23.986	213.44	20.128	38.018
#1	14.647	.18672	-.00001	.03600	-.00014	62.187	.00306
#2	14.661	.18456	-.00036	.02349	.00047	65.884	.00135
#3	14.660	.18665	-.00010	.02523	.00011	44.266	.00271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011



Sample Name: L1103072102SDL Acquired: 3/28/2011 13:47:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 250 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.198**	F **43.595**	F **-1224.4**	**-.00307**	**-.00285**	**8.5100**	**-.00014**
Stddev	6.887	.104	3.9	.00019	.00124	.3660	.00021
%RSD	61.503	.23807	.32195	6.1438	43.585	4.3004	145.38
#1	17.511	43.700	-1220.4	-.00293	-.00401	8.1134	-.00038
#2	12.231	43.493	-1224.6	-.00301	-.00300	8.5820	-.00001
#3	3.8530	43.591	-1228.3	-.00328	-.00154	8.8347	-.00003
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01286**	**.00253**	**.00210**	**.00057**	**.05677**	**.16378**
Stddev	.00007	.00016	.00068	.00007	.00027	.13180
%RSD	.55636	6.1579	32.327	12.126	.47045	80.475
#1	.01292	.00248	.00184	.00050	.05671	.21308
#2	.01278	.00241	.00159	.00059	.05653	.01443
#3	.01286	.00271	.00287	.00064	.05706	.26383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49815.**	**59375.**
Stddev	107.	679.
%RSD	.21545	1.1429
#1	49937.	60146.
#2	49769.	59112.
#3	49738.	58868.

Approved: March 29, 2011

Sample Name: L1103072102SDL Acquired: 3/28/2011 13:51:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 1250 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01507**	**.00193**	**-.00113**	**.00015**	**.00002**	**7.5724**
Stddev	.00022	.00034	.00099	.00042	.00003	.00001	.0432
%RSD	345.52	2.2483	51.232	37.270	18.525	70.524	.57080
#1	-.00019	.01546	.00279	-.00094	.00017	.00003	7.6219
#2	.00019	.01482	.00216	-.00161	.00017	.00002	7.5530
#3	-.00020	.01495	.00085	-.00084	.00012	.00000	7.5422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00030**	**.00002**	**.00109**	**.04448**	**.09542**	**-.00344**
Stddev	.00007	.00015	.00009	.00018	.00351	.02264	.00056
%RSD	46.353	49.424	440.23	16.143	7.8811	23.722	16.267
#1	-.00018	.00028	.00005	.00094	.04770	.10988	-.00403
#2	-.00019	.00016	.00010	.00128	.04075	.06933	-.00291
#3	-.00007	.00045	-.00008	.00105	.04499	.10704	-.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.3520**	**.04239**	**-.00029**	**-.00058**	**.00009**	**61.317**	**.00155**
Stddev	.0385	.00047	.00005	.00033	.00037	5.557	.00099
%RSD	1.1478	1.1005	15.921	56.427	429.05	9.0621	63.833
#1	3.3904	.04244	-.00024	-.00083	.00003	55.688	.00165
#2	3.3135	.04189	-.00032	-.00069	.00048	61.464	.00249
#3	3.3522	.04282	-.00032	-.00021	-.00025	66.798	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103072102SDL Acquired: 3/28/2011 13:51:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 1250 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.125**	F **9.8990**	F **-275.36**	**-.00349**	**-.00371**	**.76119**	**-.00022**
Stddev	8.397	.1000	10.51	.00127	.00062	.28547	.00012
%RSD	75.475	1.0106	3.8177	36.478	16.657	37.504	53.944
#1	13.667	9.9190	-272.39	-.00473	-.00331	.81995	-.00032
#2	17.957	9.7905	-266.65	-.00353	-.00443	.45091	-.00009
#3	1.7511	9.9875	-287.03	-.00219	-.00341	1.0127	-.00026
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00271**	**.00042**	**.00202**	**-.00014**	**.01523**	**.35536**
Stddev	.00007	.00054	.00030	.00014	.00079	.23353
%RSD	2.7099	130.96	14.812	101.31	5.2179	65.716
#1	.00279	.00079	.00228	-.00004	.01501	.44621
#2	.00265	.00066	.00209	-.00030	.01457	.52981
#3	.00270	-.00021	.00169	-.00008	.01611	.09006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50366.**	**59050.**
Stddev	346.	218.
%RSD	.68672	.36991
#1	50372.	59280.
#2	50709.	59027.
#3	50018.	58845.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 13:55:13 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38481**	**9.3281**	**.39022**	**.47552**	**.95543**	**.04792**	**9.5732**
Stddev	.00786	.1646	.00386	.00829	.02362	.00080	.2534
%RSD	2.0424	1.7650	.98998	1.7435	2.4721	1.6717	2.6470
#1	.37596	9.1387	.38665	.46601	.93121	.04705	9.3287
#2	.38752	9.4095	.38970	.47932	.97840	.04807	9.8346
#3	.39095	9.4362	.39432	.48122	.95670	.04863	9.5564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04877**	**.19825**	**.48354**	**.49610**	**3.8778**	**47.850**	**.95222**
Stddev	.00044	.00161	.00731	.00349	.0990	1.254	.02472
%RSD	.90542	.81074	1.5127	.70416	2.5539	2.6204	2.5956
#1	.04828	.19677	.47561	.49307	3.7801	46.582	.92676
#2	.04891	.19803	.48498	.49532	3.9781	49.090	.97612
#3	.04912	.19996	.49003	.49992	3.8751	47.878	.95377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7768**	**.48418**	**.96646**	**48.057**	**.49431**	**9.4979**	**.49496**
Stddev	.2697	.01328	.00609	1.318	.00369	10.513	.00360
%RSD	2.7581	2.7427	.63053	2.7424	.74673	110.69	.72664
#1	9.5230	.47032	.96216	46.746	.49112	21.637	.49121
#2	10.060	.49680	.96379	49.382	.49347	3.5277	.49529
#3	9.7475	.48542	.97344	48.042	.49835	3.3294	.49838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 13:55:13 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-6.1933**	**10.083**	F **18.895**	**1.1627**	**.38298**	**4.8799**	**.98748**
Stddev	6.8845	.187	2.094	.0129	.00385	.0903	.00722
%RSD	111.16	1.8505	11.081	1.1132	1.0060	1.8499	.73142
#1	-1.8884	9.9144	20.180	1.1485	.37858	4.9802	.97919
#2	-14.133	10.050	16.479	1.1657	.38463	4.8053	.99238
#3	-2.5581	10.283	20.025	1.1739	.38574	4.8542	.99089
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	-10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95761**	**.95806**	**.49787**	**.96235**	**.99961**	**1.0619**
Stddev	.02651	.02614	.00697	.01594	.00686	.1039
%RSD	2.7684	2.7282	1.3990	1.6568	.68603	9.7791
#1	.93109	.93379	.48997	.94486	.99566	1.1535
#2	.98411	.98573	.50051	.96610	.99565	1.0832
#3	.95762	.95465	.50313	.97608	1.0075	.94911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49041.**	**55934.**
Stddev	126.	836.
%RSD	.25769	1.4954
#1	49098.	56423.
#2	49129.	54968.
#3	48896.	56410.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 13:58:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**.00746**	**-.00033**	**.00207**	**.00008**	**.00002**	**-.00533**
Stddev	.00063	.00140	.00055	.00068	.00010	.00001	.00928
%RSD	77.334	18.727	165.60	33.077	132.78	49.867	174.10
#1	-.00057	.00819	-.00003	.00128	.00012	.00001	.00423
#2	-.00154	.00585	-.00096	.00245	-.00004	.00001	-.01429
#3	-.00035	.00835	.00001	.00247	.00016	.00003	-.00593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00002**	**.00208**	**-.00007**	**.00340**	**.07493**	**-.00338**
Stddev	.00007	.00012	.00041	.00038	.00245	.02044	.00038
%RSD	5770.1	641.14	19.586	541.26	72.017	27.275	11.108
#1	-.00006	-.00008	.00174	.00033	.00076	.08655	-.00360
#2	.00007	.00012	.00196	-.00044	.00386	.05134	-.00294
#3	.00000	-.00010	.00253	-.00010	.00559	.08691	-.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01394**	**-.00018**	**.00018**	**-.00030**	**.00167**	F **12.549**	**.00009**
Stddev	.00299	.00029	.00018	.00577	.00008	4.872	.00047
%RSD	21.427	159.05	97.330	1927.7	4.6419	38.820	538.33
#1	-.01680	.00013	.00022	.00572	.00167	14.991	.00008
#2	-.01084	-.00043	.00033	-.00085	.00175	6.9395	.00057
#3	-.01418	-.00024	-.00001	-.00578	.00159	15.716	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 13:58:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-6.2553**	**.06904**	F **-2.4423**	**-.00189**	**-.00314**	**-.06300**	**.00001**
Stddev	3.1512	.04881	4.1082	.00052	.00035	.02947	.00017
%RSD	50.377	70.700	168.21	27.482	11.209	46.781	2979.9
#1	-4.4192	.03411	-6.5985	-.00129	-.00292	-.05463	.00018
#2	-4.4527	.04821	1.6161	-.00224	-.00355	-.09575	.00000
#3	-9.8939	.12482	-2.3447	-.00213	-.00296	-.03862	-.00016
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00004**	**.00075**	**-.00022**	**.00173**	**-.01993**
Stddev	.00003	.00042	.00162	.00015	.00034	.11184
%RSD	75.362	1039.5	214.56	70.263	19.862	561.29
#1	-.00007	.00045	-.00108	-.00017	.00210	-.02037
#2	-.00001	.00007	.00197	-.00009	.00142	-.13155
#3	-.00004	-.00040	.00138	-.00039	.00166	.09214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48713.**	**56213.**
Stddev	55.	617.
%RSD	.11213	1.0970
#1	48755.	56922.
#2	48732.	55798.
#3	48651.	55919.

Approved: March 29, 2011

Sample Name: LLCCV Acquired: 3/28/2011 14:02:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00782**	**.19208**	**.00710**	**.01125**	**.01892**	**.00099**	**.18648**
Stddev	.00023	.00042	.00143	.00020	.00006	.00001	.00634
%RSD	2.9536	.21755	20.099	1.7529	.32716	.78290	3.3972
#1	.00774	.19251	.00750	.01137	.01888	.00099	.18320
#2	.00764	.19167	.00552	.01136	.01890	.00098	.18246
#3	.00808	.19205	.00829	.01102	.01899	.00100	.19379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**.00430**	**.01091**	**.01007**	**.08255**	**1.0244**	**.01526**
Stddev	.00012	.00005	.00050	.00043	.00130	.0276	.00067
%RSD	13.117	1.1737	4.6157	4.3031	1.5703	2.6923	4.3785
#1	.00104	.00435	.01067	.00957	.08223	1.0140	.01484
#2	.00096	.00425	.01057	.01028	.08145	1.0035	.01492
#3	.00080	.00430	.01149	.01035	.08398	1.0556	.01603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18445**	**.00969**	**.01989**	**.95351**	**.01374**	**18.981**	**.00974**
Stddev	.00694	.00022	.00020	.00616	.00182	10.329	.00159
%RSD	3.7625	2.2798	1.0221	.64609	13.211	54.419	16.331
#1	.17988	.00955	.01990	.94672	.01179	27.060	.00891
#2	.19243	.00994	.01968	.95506	.01406	22.540	.00874
#3	.18103	.00957	.02009	.95875	.01538	7.3428	.01158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: LLCCV Acquired: 3/28/2011 14:02:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **15.747**	**.23702**	**5.5228**	**.02243**	**.00537**	**-.12813**	**.02043**
Stddev	3.095	.01805	4.7957	.00041	.00152	.04941	.00025
%RSD	19.652	7.6168	86.836	1.8113	28.348	38.560	1.2436
#1	19.243	.21684	10.399	.02289	.00657	-.15571	.02026
#2	13.359	.24257	5.3572	.02226	.00366	-.07109	.02072
#3	14.639	.25164	.81198	.02213	.00588	-.15759	.02031
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01934**	**.01977**	**.01068**	**.02001**	**.02182**	**.27718**
Stddev	.00009	.00025	.00101	.00024	.00064	.20843
%RSD	.48118	1.2516	9.4908	1.1776	2.9457	75.199
#1	.01924	.01960	.01037	.01975	.02174	.39118
#2	.01938	.01966	.00985	.02007	.02122	.40374
#3	.01942	.02005	.01181	.02021	.02250	.03661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49157.**	**57628.**
Stddev	127.	586.
%RSD	.25890	1.0166
#1	49010.	57278.
#2	49219.	57303.
#3	49241.	58305.

Approved: March 29, 2011

Sample Name: L1103046028 Acquired: 3/28/2011 14:06:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**11.927**	**.01743**	**.00965**	**.21848**	**.00148**	**519.12**
Stddev	.00046	.114	.00144	.00048	.00214	.00002	3.50
%RSD	71.813	.95914	8.2464	4.9313	.98130	1.0764	.67394
#1	.00025	11.800	.01750	.00935	.21631	.00150	517.37
#2	.00052	11.958	.01884	.01020	.21852	.00146	516.84
#3	.00114	12.023	.01597	.00941	.22060	.00148	523.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00218**	**.01209**	**.02036**	**.06165**	**8.3621**	**1.2699**	**.01335**
Stddev	.00014	.00015	.00148	.00162	.0811	.0215	.00041
%RSD	6.3179	1.2529	7.2515	2.6250	.96943	1.6890	3.0539
#1	.00207	.01200	.01874	.05995	8.2927	1.2697	.01367
#2	.00215	.01200	.02073	.06183	8.3425	1.2486	.01289
#3	.00234	.01226	.02162	.06317	8.4512	1.2915	.01349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.9699**	**2.1454**	**.00029**	**.07153**	**.01933**	F **7930.3**	**.11300**
Stddev	.0253	.0267	.00009	.00336	.00064	151.3	.00348
%RSD	.85190	1.2432	29.121	4.7031	3.2887	1.9076	3.0824
#1	2.9587	2.1185	.00020	.07013	.01999	7776.4	.11001
#2	2.9521	2.1458	.00036	.07537	.01928	7935.8	.11216
#3	2.9989	2.1718	.00032	.06910	.01872	8078.8	.11682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046028 Acquired: 3/28/2011 14:06:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-9.6025**	F **589.03**	F **-6095.0**	**-.00107**	**-.00021**	F **417.36**	**.00068**
Stddev	10.235	11.90	129.0	.00107	.00025	8.96	.00014
%RSD	106.58	2.0199	2.1169	99.739	117.44	2.1465	20.399
#1	-19.965	577.89	-5951.1	-.00111	-.00038	407.71	.00075
#2	.4996	587.63	-6133.8	.00002	.00007	418.94	.00052
#3	-9.3421	601.56	-6200.2	-.00212	-.00033	425.41	.00077
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11454**	**.11020**	**.00118**	**.03538**	**.04167**	**14.920**
Stddev	.00120	.00128	.00113	.00019	.00079	.119
%RSD	1.0520	1.1625	95.779	.52600	1.8859	.80069
#1	.11330	.11025	.00045	.03516	.04086	14.792
#2	.11461	.10890	.00248	.03550	.04171	14.940
#3	.11571	.11146	.00061	.03547	.04244	15.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47359.**	**55958.**
Stddev	75.	143.
%RSD	.15809	.25603
#1	47354.	55796.
#2	47286.	56012.
#3	47436.	56067.

Approved: March 29, 2011

Sample Name: L1103046029 Acquired: 3/28/2011 14:09:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG359714-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**8.4738**	**.02387**	**.01024**	**.29283**	**.00120**	**306.71**
Stddev	.00044	.0453	.00104	.00073	.00117	.00002	3.12
%RSD	44.711	.53499	4.3433	7.1293	.39794	1.3019	1.0158
#1	.00148	8.4591	.02312	.00948	.29267	.00119	309.27
#2	.00066	8.5247	.02505	.01031	.29176	.00122	303.24
#3	.00080	8.4377	.02343	.01094	.29407	.00120	307.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00361**	**.01195**	**.01334**	**.32772**	**9.1801**	**2.9572**	**.00929**
Stddev	.00014	.00016	.00033	.00282	.0520	.0281	.00092
%RSD	3.8634	1.3398	2.4950	.85920	.56649	.94917	9.8956
#1	.00345	.01179	.01370	.32520	9.1812	2.9747	.00823
#2	.00366	.01195	.01328	.32721	9.1275	2.9248	.00983
#3	.00371	.01211	.01305	.33076	9.2315	2.9719	.00980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.3217**	**2.5051**	**.00046**	**.04465**	**.01177**	F **6385.5**	**.20009**
Stddev	.0220	.0194	.00024	.00419	.00043	62.4	.00088
%RSD	.50854	.77271	51.009	9.3765	3.6336	.97709	.43756
#1	4.3126	2.5215	.00068	.04064	.01211	6316.3	.19986
#2	4.3058	2.4838	.00021	.04431	.01129	6403.0	.19935
#3	4.3468	2.5100	.00050	.04899	.01192	6437.3	.20105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046029 Acquired: 3/28/2011 14:09:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG359714-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.66531**	F **361.07**	F **-6204.6**	**.00049**	**-.00071**	F **335.07**	**.00321**
Stddev	6.1247	2.37	46.3	.00074	.00200	3.86	.00012
%RSD	920.57	.65762	.74618	151.42	280.52	1.1520	3.7691
#1	6.0706	358.40	-6158.8	.00132	-.00025	331.35	.00309
#2	-2.1672	361.86	-6203.7	-.00007	.00101	334.79	.00333
#3	-5.8993	362.95	-6251.4	.00021	-.00291	339.06	.00321
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09658**	**.10428**	**.00171**	**.02754**	**.11813**	**10.225**
Stddev	.00014	.00073	.00066	.00020	.00048	.108
%RSD	.14160	.69541	38.255	.72987	.40772	1.0513
#1	.09656	.10344	.00163	.02732	.11778	10.236
#2	.09645	.10463	.00240	.02757	.11868	10.326
#3	.09672	.10476	.00110	.02772	.11793	10.112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47440.**	**57346.**
Stddev	27.	312.
%RSD	.05757	.54455
#1	47454.	57034.
#2	47457.	57659.
#3	47408.	57344.

Approved: March 29, 2011

Sample Name: L1103046030S Acquired: 3/28/2011 14:13:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG359714-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04532**	**8.8492**	**.07059**	**.01038**	**.28624**	**.00127**	**304.57**
Stddev	.00137	.1774	.00254	.00037	.00468	.00005	4.19
%RSD	3.0175	2.0042	3.5918	3.5911	1.6338	4.0233	1.3759
#1	.04440	8.6840	.06772	.01000	.28143	.00122	300.04
#2	.04467	8.8270	.07153	.01041	.28653	.00128	305.36
#3	.04689	9.0366	.07252	.01074	.29077	.00132	308.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00973**	**.01284**	**.01399**	**.39619**	**9.6033**	**3.1318**	**.00691**
Stddev	.00034	.00023	.00007	.01210	.1625	.0645	.00059
%RSD	3.4700	1.7828	.51576	3.0530	1.6924	2.0612	8.5431
#1	.00942	.01269	.01402	.38464	9.4403	3.0817	.00653
#2	.00968	.01273	.01405	.39516	9.6042	3.1090	.00759
#3	.01009	.01311	.01391	.40877	9.7654	3.2046	.00661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.2004**	**2.4943**	**.00049**	**.04030**	**.01341**	F **6693.9**	**.26044**
Stddev	.0620	.0455	.00017	.00383	.00073	210.5	.00704
%RSD	1.4750	1.8244	35.201	9.4957	5.4805	3.1443	2.7021
#1	4.1422	2.4464	.00046	.04091	.01359	6504.7	.25361
#2	4.1935	2.4994	.00033	.03620	.01260	6656.4	.26004
#3	4.2655	2.5370	.00067	.04378	.01403	6920.6	.26766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046030S Acquired: 3/28/2011 14:13:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG359714-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.3132**	F **384.89**	F **-6407.8**	**.00062**	**-.00261**	F **303.85**	**.00327**
Stddev	14.300	11.90	184.9	.00136	.00144	9.36	.00029
%RSD	431.62	3.0908	2.8850	218.70	55.134	3.0816	8.9777
#1	19.761	373.43	-6239.8	-.00094	-.00427	294.96	.00299
#2	-6.1800	384.06	-6377.6	.00149	-.00179	302.96	.00357
#3	-3.6411	397.18	-6605.8	.00132	-.00177	313.62	.00325
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09702**	**.09953**	**.00087**	**.02918**	**.12706**	**10.528**
Stddev	.00182	.00263	.00079	.00035	.00378	.329
%RSD	1.8759	2.6443	90.809	1.2091	2.9759	3.1224
#1	.09529	.09700	.00176	.02884	.12420	10.199
#2	.09684	.09935	.00058	.02915	.12564	10.529
#3	.09892	.10225	.00026	.02954	.13135	10.856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47286.**	**56826.**
Stddev	257.	138.
%RSD	.54288	.24299
#1	47464.	56970.
#2	47401.	56815.
#3	46991.	56694.

Approved: March 29, 2011

Sample Name: L1103046031SD Acquired: 3/28/2011 14:16:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG359714-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04664**	**9.2996**	**.07079**	**.01143**	**.29655**	**.00132**	**321.71**
Stddev	.00096	.1553	.00101	.00028	.00346	.00003	2.97
%RSD	2.0481	1.6695	1.4234	2.4763	1.1678	2.1180	.92167
#1	.04573	9.1434	.07176	.01171	.29359	.00130	324.51
#2	.04655	9.3016	.06975	.01115	.29569	.00135	318.60
#3	.04763	9.4539	.07087	.01143	.30036	.00131	322.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00982**	**.01282**	**.01491**	**.40908**	**10.214**	**3.2661**	**.00873**
Stddev	.00029	.00015	.00028	.00602	.104	.0324	.00025
%RSD	2.9980	1.1952	1.8557	1.4726	1.0151	.99143	2.9014
#1	.00950	.01266	.01509	.40245	10.117	3.2299	.00851
#2	.00987	.01283	.01460	.41058	10.201	3.2762	.00901
#3	.01008	.01296	.01506	.41422	10.323	3.2923	.00868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.5860**	**2.6581**	**.00058**	**.04074**	**.01385**	F **6765.2**	**.26200**
Stddev	.0457	.0155	.00015	.00336	.00013	105.3	.00421
%RSD	.99637	.58482	25.945	8.2372	.97275	1.5560	1.6067
#1	4.5414	2.6432	.00048	.04197	.01371	6666.1	.25777
#2	4.5837	2.6568	.00050	.04331	.01398	6753.8	.26206
#3	4.6327	2.6742	.00075	.03694	.01386	6875.7	.26618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046031SD Acquired: 3/28/2011 14:16:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG359714-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.5854**	F **381.30**	F **-6477.2**	**.00124**	**.00033**	F **326.26**	**.00281**
Stddev	12.911	5.17	97.7	.00132	.00186	5.64	.00006
%RSD	196.06	1.3547	1.5085	106.87	569.96	1.7276	2.2182
#1	1.6608	376.21	-6390.3	.00257	-.00065	320.22	.00274
#2	21.234	381.14	-6458.4	-.00008	-.00085	327.18	.00287
#3	-3.1389	386.54	-6582.9	.00122	.00248	331.38	.00281
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10262**	**.10681**	**.00053**	**.02986**	**.14105**	**10.449**
Stddev	.00129	.00159	.00056	.00017	.00197	.277
%RSD	1.2602	1.4872	107.48	.57415	1.3994	2.6503
#1	.10120	.10528	.00054	.02968	.13947	10.386
#2	.10292	.10670	-.00005	.02986	.14043	10.209
#3	.10373	.10845	.00108	.03002	.14326	10.752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47182.**	**56310.**
Stddev	190.	301.
%RSD	.40244	.53488
#1	47353.	56070.
#2	47216.	56213.
#3	46978.	56648.

Approved: March 29, 2011

Sample Name: L1103046041 Acquired: 3/28/2011 14:20:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00123**	**8.7270**	**.02012**	**.00744**	**.26748**	**.00115**	**323.34**
Stddev	.00080	.0178	.00173	.00026	.00231	.00002	35.85
%RSD	65.311	.20351	8.5878	3.4780	.86176	1.6645	11.087
#1	.00081	8.7071	.01879	.00767	.26682	.00113	321.57
#2	.00072	8.7411	.01949	.00749	.26558	.00116	288.41
#3	.00216	8.7328	.02207	.00716	.27004	.00115	360.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00226**	**.01177**	**.01229**	**.15526**	**9.5636**	**1.2008**	**.01049**
Stddev	.00006	.00020	.00023	.00047	.1203	.0372	.00055
%RSD	2.5940	1.6747	1.8762	.30439	1.2575	3.0975	5.2124
#1	.00227	.01181	.01209	.15474	9.5243	1.1933	.00988
#2	.00220	.01194	.01254	.15539	9.4680	1.1679	.01093
#3	.00231	.01155	.01223	.15566	9.6987	1.2412	.01065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.5762**	**2.2380**	**.00007**	**.07673**	**.01293**	F **4763.6**	**.14045**
Stddev	.0371	.0244	.00016	.00609	.00044	28.1	.00069
%RSD	1.4417	1.0898	241.92	7.9421	3.3648	.58896	.48954
#1	2.5686	2.2281	.00004	.08203	.01253	4735.9	.13971
#2	2.5434	2.2202	-.00008	.07007	.01339	4762.8	.14106
#3	2.6165	2.2658	.00024	.07809	.01288	4792.0	.14057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046041 Acquired: 3/28/2011 14:20:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **13.097**	F **370.88**	F **-3528.8**	**.00010**	**-.00180**	F **261.91**	**.00310**
Stddev	6.746	.68	21.3	.00128	.00184	2.53	.00031
%RSD	51.510	.18343	.60415	1268.0	101.96	.96706	9.8507
#1	20.442	371.33	-3509.0	.00156	-.00340	259.11	.00335
#2	11.671	370.10	-3525.9	-.00040	.00020	262.57	.00319
#3	7.1773	371.23	-3551.4	-.00085	-.00221	264.04	.00276
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09351**	**.09686**	**.00114**	**.03323**	**.05809**	**12.725**
Stddev	.00071	.00167	.00072	.00054	.00026	.092
%RSD	.75444	1.7248	62.924	1.6341	.44536	.72288
#1	.09323	.09646	.00116	.03368	.05782	12.672
#2	.09431	.09543	.00184	.03340	.05811	12.831
#3	.09298	.09870	.00041	.03263	.05834	12.671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47723.**	**57383.**
Stddev	196.	633.
%RSD	.41100	1.1034
#1	47496.	57704.
#2	47828.	57791.
#3	47844.	56653.

Approved: March 29, 2011

Sample Name: L1103046042 Acquired: 3/28/2011 14:24:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**13.180**	**.02322**	**.00980**	**.25782**	**.00154**	**497.77**
Stddev	.00070	.279	.00051	.00051	.00152	.00000	11.75
%RSD	76.177	2.1169	2.1876	5.2433	.58997	.26373	2.3599
#1	.00134	12.878	.02358	.01000	.25615	.00154	485.47
#2	.00011	13.428	.02343	.01019	.25821	.00154	498.99
#3	.00129	13.234	.02264	.00922	.25911	.00154	508.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00257**	**.01352**	**.01606**	**.11084**	**11.478**	**1.2710**	**.01370**
Stddev	.00009	.00024	.00016	.00164	.052	.0210	.00072
%RSD	3.5822	1.7815	1.0065	1.4818	.45143	1.6549	5.2859
#1	.00255	.01331	.01588	.10972	11.433	1.2468	.01323
#2	.00267	.01378	.01618	.11273	11.467	1.2854	.01453
#3	.00249	.01346	.01612	.11007	11.535	1.2806	.01332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.8201**	**2.2294**	**.00011**	**.12328**	**.01771**	F **7696.1**	**.12506**
Stddev	.0228	.0055	.00009	.00560	.00070	118.2	.00301
%RSD	.80999	.24577	83.433	4.5446	3.9811	1.5353	2.4028
#1	2.8425	2.2305	.00010	.11873	.01723	7604.1	.12296
#2	2.7968	2.2235	.00021	.12954	.01852	7829.4	.12851
#3	2.8210	2.2343	.00002	.12157	.01737	7654.9	.12372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046042 Acquired: 3/28/2011 14:24:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.603**	F **546.09**	F **-6554.4**	**.00043**	**-.00070**	F **355.99**	**.00130**
Stddev	2.393	6.86	87.4	.00050	.00058	6.59	.00013
%RSD	16.384	1.2560	1.3330	114.96	83.177	1.8512	9.8118
#1	17.003	540.75	-6497.9	-.00010	-.00003	351.36	.00132
#2	12.218	553.83	-6655.0	.00051	-.00095	363.53	.00141
#3	14.588	543.69	-6510.1	.00089	-.00112	353.07	.00116
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11029**	**.13153**	**.00189**	**.05342**	**.04216**	**16.554**
Stddev	.00037	.00159	.00086	.00129	.00041	.325
%RSD	.33336	1.2126	45.334	2.4097	.97873	1.9651
#1	.11040	.12975	.00160	.05204	.04215	16.191
#2	.10988	.13201	.00285	.05458	.04258	16.819
#3	.11060	.13283	.00121	.05364	.04175	16.653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46712.**	**57025.**
Stddev	411.	514.
%RSD	.87907	.90161
#1	46832.	56441.
#2	46255.	57224.
#3	47049.	57410.

Approved: March 29, 2011

Sample Name: L1103046043 Acquired: 3/28/2011 14:27:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**8.8360**	**.02272**	**.00712**	**.24909**	**.00117**	**575.37**
Stddev	.00071	.1556	.00056	.00063	.00046	.00002	29.97
%RSD	86.004	1.7615	2.4465	8.7812	.18379	2.0818	5.2092
#1	.00052	8.6619	.02332	.00651	.24914	.00115	597.09
#2	.00163	8.8842	.02260	.00776	.24861	.00118	587.85
#3	.00032	8.9618	.02223	.00709	.24952	.00119	541.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00250**	**.01129**	**.01124**	**.13690**	**8.5498**	**1.2540**	**.01721**
Stddev	.00009	.00039	.00061	.00340	.0129	.0281	.00019
%RSD	3.6968	3.4222	5.4079	2.4849	.15063	2.2426	1.1140
#1	.00242	.01084	.01054	.13315	8.5635	1.2359	.01739
#2	.00247	.01150	.01169	.13776	8.5380	1.2864	.01723
#3	.00260	.01152	.01148	.13979	8.5479	1.2397	.01701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.7160**	**1.8189**	**.00023**	**.15593**	**.01279**	F **5124.6**	**.12827**
Stddev	.0194	.0020	.00017	.00326	.00031	86.7	.00182
%RSD	.52301	.11182	76.097	2.0877	2.4488	1.6912	1.4193
#1	3.7383	1.8212	.00036	.15704	.01280	5029.9	.12673
#2	3.7070	1.8173	.00029	.15849	.01248	5143.9	.13028
#3	3.7026	1.8183	.00003	.15226	.01310	5200.0	.12779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046043 Acquired: 3/28/2011 14:27:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.782**	F **653.28**	F **-6651.3**	**.00156**	**.00040**	F **252.12**	**.00108**
Stddev	9.865	14.95	149.2	.00141	.00139	5.41	.00058
%RSD	45.291	2.2878	2.2427	90.378	348.40	2.1463	53.588
#1	18.533	637.17	-6490.9	.00030	-.00093	246.31	.00108
#2	13.950	655.97	-6677.3	.00130	.00028	253.02	.00050
#3	32.861	666.70	-6785.8	.00309	.00185	257.02	.00166
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.09150**	**.00143**	**.04319**	**.05615**	**13.483**
Stddev	-----	.00023	.00050	.00048	.00154	.456
%RSD	-----	.25585	34.630	1.1073	2.7347	3.3821
#1	.11208	.09135	.00182	.04271	.05451	12.986
#2	.11315	.09177	.00159	.04366	.05755	13.581
#3	^ -----	.09138	.00087	.04321	.05638	13.882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46294.**	**58138.**
Stddev	409.	347.
%RSD	.88310	.59767
#1	46763.	57921.
#2	46107.	57955.
#3	46012.	58539.

Approved: March 29, 2011

Sample Name: L1103046044 Acquired: 3/28/2011 14:31:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**9.8256**	**.02144**	**.00805**	**.23749**	**.00140**	**737.99**
Stddev	.00055	.0616	.00066	.00041	.00292	.00002	30.31
%RSD	63.063	.62697	3.0964	5.0522	1.2291	1.5601	4.1066
#1	.00026	9.7839	.02216	.00845	.23433	.00138	753.20
#2	.00104	9.8963	.02131	.00764	.24009	.00139	703.09
#3	.00133	9.7966	.02085	.00807	.23805	.00142	757.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.01284**	**.01499**	**.06011**	**8.4020**	**1.0429**	**.02506**
Stddev	.00005	.00016	.00017	.00153	.1138	.0044	.00163
%RSD	2.6198	1.2328	1.1168	2.5496	1.3547	.41782	6.5066
#1	.00201	.01280	.01491	.05915	8.2818	1.0463	.02346
#2	.00212	.01302	.01489	.06188	8.5082	1.0444	.02500
#3	.00208	.01271	.01519	.05930	8.4159	1.0380	.02672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.4329**	**1.6459**	**.00010**	**.20014**	**.01634**	F **5742.0**	**.09387**
Stddev	.0560	.0146	.00022	.00608	.00039	107.0	.00179
%RSD	1.6300	.88741	225.33	3.0369	2.3634	1.8638	1.9116
#1	3.3683	1.6317	.00011	.19314	.01664	5739.3	.09242
#2	3.4659	1.6609	.00030	.20317	.01647	5850.3	.09588
#3	3.4646	1.6451	-.00013	.20411	.01590	5636.3	.09331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046044 Acquired: 3/28/2011 14:31:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.882**	F **823.70**	F **-7580.2**	**.00213**	**-.00150**	F **294.77**	**.00091**
Stddev	11.027	12.49	133.3	.00026	.00262	5.64	.00023
%RSD	92.804	1.5167	1.7588	12.014	174.24	1.9151	25.459
#1	20.830	822.95	-7581.0	.00193	.00145	294.34	.00089
#2	-.43715	836.55	-7713.2	.00205	-.00355	300.62	.00068
#3	15.254	811.60	-7446.5	.00242	-.00241	289.36	.00114
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13390**	**.10038**	**.00144**	**.05309**	**.02557**	**15.619**
Stddev	.00306	.00164	.00118	.00053	.00068	.075
%RSD	2.2835	1.6338	81.935	1.0034	2.6671	.48281
#1	.13102	.09849	.00183	.05249	.02518	15.608
#2	.13711	.10142	.00011	.05349	.02635	15.700
#3	.13356	.10122	.00237	.05329	.02516	15.550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46117.**	**57604.**
Stddev	685.	183.
%RSD	1.4853	.31813
#1	45812.	57670.
#2	45637.	57397.
#3	46901.	57745.

Approved: March 29, 2011

Sample Name: L1103046045 Acquired: 3/28/2011 14:34:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**13.022**	**.02677**	**.00879**	**.26111**	**.00157**	**348.76**
Stddev	.00023	.130	.00183	.00036	.00142	.00001	38.51
%RSD	28.096	.99772	6.8284	4.1115	.54236	.81732	11.041
#1	.00058	12.907	.02472	.00885	.26262	.00156	368.27
#2	.00104	12.998	.02735	.00840	.25981	.00158	304.40
#3	.00084	13.163	.02824	.00912	.26090	.00158	373.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00288**	**.01382**	**.01629**	**.16140**	**10.360**	**1.7187**	**.01064**
Stddev	.00007	.00041	.00019	.00371	.049	.0098	.00099
%RSD	2.4984	2.9664	1.1725	2.2970	.46843	.57173	9.2962
#1	.00296	.01349	.01615	.15871	10.399	1.7261	.01173
#2	.00282	.01368	.01651	.15987	10.306	1.7075	.01039
#3	.00286	.01427	.01623	.16563	10.375	1.7223	.00980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.6968**	**2.0573**	**.00012**	**.06031**	**.01728**	F **7591.2**	**.13992**
Stddev	.0156	.0114	.00010	.00098	.00039	182.2	.00345
%RSD	.57963	.55459	87.553	1.6291	2.2437	2.4000	2.4628
#1	2.6968	2.0683	.00014	.06060	.01734	7461.0	.13622
#2	2.6812	2.0455	.00021	.06111	.01687	7513.2	.14049
#3	2.7124	2.0580	.00000	.05921	.01763	7799.4	.14304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046045 Acquired: 3/28/2011 14:34:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **17.530**	F **460.22**	F **-6455.0**	**.00040**	**.00015**	F **366.48**	**.00179**
Stddev	9.835	10.16	166.7	.00149	.00244	9.45	.00010
%RSD	56.107	2.2072	2.5822	370.19	1638.2	2.5782	5.4337
#1	26.406	451.54	-6339.0	.00065	-.00002	360.08	.00188
#2	19.227	457.73	-6379.9	.00175	.00267	362.04	.00169
#3	6.9561	471.39	-6646.0	-.00120	-.00220	377.34	.00181
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08741**	**.12457**	**.00168**	**.04536**	**.06931**	**15.605**
Stddev	.00154	.00110	.00148	.00041	.00082	.037
%RSD	1.7640	.88428	87.876	.91139	1.1844	.23474
#1	.08676	.12582	.00273	.04489	.06897	15.567
#2	.08917	.12372	.00233	.04550	.06872	15.640
#3	.08630	.12418	-.00001	.04569	.07025	15.608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46560.**	**58932.**
Stddev	273.	599.
%RSD	.58646	1.0170
#1	46327.	58249.
#2	46860.	59176.
#3	46492.	59371.

Approved: March 29, 2011

Sample Name: L1103046046 Acquired: 3/28/2011 14:38:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00195**	**18.192**	**.02645**	**.00914**	**.27574**	**.00189**	**316.18**
Stddev	.00056	.189	.00047	.00028	.00123	.00003	1.30
%RSD	28.881	1.0365	1.7713	3.0804	.44508	1.4451	.41248
#1	.00241	17.982	.02620	.00931	.27433	.00186	316.29
#2	.00211	18.246	.02616	.00929	.27635	.00188	317.43
#3	.00132	18.347	.02699	.00881	.27654	.00191	314.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00242**	**.01528**	**.02045**	**.09391**	**14.842**	**1.6165**	**.00952**
Stddev	.00003	.00015	.00056	.00105	.076	.0234	.00016
%RSD	1.3092	.95240	2.7318	1.1182	.51236	1.4481	1.7201
#1	.00239	.01511	.02056	.09313	14.759	1.6025	.00954
#2	.00245	.01538	.01984	.09351	14.860	1.6435	.00934
#3	.00241	.01535	.02094	.09511	14.908	1.6035	.00967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0793**	**1.7207**	**.00017**	**.06080**	**.01947**	F **7614.8**	**.11819**
Stddev	.0241	.0174	.00013	.00393	.00021	62.8	.00081
%RSD	1.1577	1.0129	80.185	6.4615	1.0812	.82408	.68470
#1	2.0523	1.7019	.00002	.06037	.01923	7576.8	.11785
#2	2.0869	1.7238	.00020	.05710	.01957	7580.3	.11760
#3	2.0986	1.7363	.00028	.06492	.01961	7687.2	.11911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046046 Acquired: 3/28/2011 14:38:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **24.842**	F **378.92**	F **-6142.6**	**.00070**	**-.00046**	F **394.71**	**.00109**
Stddev	7.480	2.85	55.7	.00152	.00065	4.09	.00014
%RSD	30.109	.75252	.90756	217.28	140.50	1.0353	13.009
#1	29.456	376.39	-6118.0	.00042	-.00016	391.61	.00092
#2	28.858	378.37	-6103.4	-.00066	-.00121	393.19	.00117
#3	16.212	382.01	-6206.4	.00234	-.00002	399.34	.00117
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06120**	**.18820**	**.00242**	**.06315**	**.03568**	**22.803**
Stddev	.00082	.00130	.00131	.00057	.00035	.228
%RSD	1.3323	.69278	54.044	.90061	.97102	1.0010
#1	.06028	.18766	.00215	.06263	.03608	22.540
#2	.06148	.18726	.00126	.06306	.03546	22.945
#3	.06183	.18969	.00383	.06376	.03550	22.924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47381.**	**60290.**
Stddev	74.	155.
%RSD	.15709	.25688
#1	47316.	60332.
#2	47462.	60420.
#3	47364.	60119.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 14:42:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41010**	**9.9134**	**.40732**	**.50165**	**.96461**	**.05001**	**9.5508**
Stddev	.00213	.0541	.00075	.00370	.02415	.00028	.2475
%RSD	.51833	.54572	.18515	.73669	2.5032	.56564	2.5911
#1	.40973	9.8776	.40679	.49947	.97423	.04982	9.6788
#2	.40818	9.8870	.40818	.49956	.98246	.04988	9.7080
#3	.41238	9.9757	.40700	.50592	.93713	.05034	9.2655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05069**	**.20564**	**.50116**	**.51571**	**3.8258**	**47.746**	**.96652**
Stddev	.00015	.00063	.00240	.00187	.0977	1.272	.02499
%RSD	.30440	.30622	.47972	.36195	2.5546	2.6647	2.5858
#1	.05059	.20495	.49901	.51430	3.8850	48.294	.97645
#2	.05086	.20619	.50072	.51782	3.8794	48.653	.98503
#3	.05060	.20577	.50375	.51500	3.7130	46.292	.93809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.4606**	**.47196**	**.99759**	**48.112**	**.51073**	F **7.7023**	**.50727**
Stddev	.2960	.01177	.00592	1.332	.00193	14.057	.00521
%RSD	3.1285	2.4930	.59336	2.7685	.37759	182.50	1.0264
#1	9.6247	.47897	.99869	48.756	.51006	20.480	.50257
#2	9.6381	.47853	1.0029	48.998	.51290	9.9822	.51287
#3	9.1189	.45837	.99120	46.580	.50923	-7.3549	.50638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 14:42:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **20.628**	**10.275**	F **14.627**	**1.2055**	**.39410**	**5.1138**	**1.0148**
Stddev	7.056	.098	8.768	.0075	.00501	.1579	.0057
%RSD	34.207	.95487	59.942	.62565	1.2701	3.0885	.56536
#1	13.244	10.168	21.681	1.2045	.39353	5.0623	1.0093
#2	27.303	10.296	17.389	1.2135	.39937	5.2911	1.0207
#3	21.336	10.361	4.8109	1.1986	.38941	4.9881	1.0145
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96279**	**.96081**	**.51403**	**1.0130**	**1.0181**	**1.0331**
Stddev	.02648	.02614	.00447	.0047	.0092	.1831
%RSD	2.7498	2.7208	.87050	.46839	.90611	17.724
#1	.97471	.97144	.51084	1.0105	1.0076	.82655
#2	.98121	.97995	.51915	1.0100	1.0246	1.1756
#3	.93245	.93102	.51212	1.0184	1.0222	1.0971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47714.**	**58920.**
Stddev	143.	1387.
%RSD	.29974	2.3548
#1	47765.	57743.
#2	47552.	58567.
#3	47824.	60450.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 14:45:45 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00775**	**-.00129**	**.00179**	**.00001**	**.00001**	**-.00355**
Stddev	.00026	.00131	.00014	.00030	.00011	.00002	.00507
%RSD	207.48	16.904	10.564	16.622	724.93	314.43	142.90
#1	-.00004	.00843	-.00132	.00186	.00013	.00003	-.00646
#2	.00043	.00624	-.00140	.00147	-.00002	.00000	-.00649
#3	-.00001	.00858	-.00114	.00205	-.00007	.00000	.00231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00006**	**.00004**	**.00014**	**.00019**	**.03048**	**-.00112**
Stddev	.00001	.00008	.00012	.00016	.00060	.03110	.00089
%RSD	16.540	125.23	323.04	116.48	312.73	102.05	79.626
#1	.00004	-.00012	-.00010	-.00005	.00083	-.00207	-.00015
#2	.00003	.00003	.00013	.00022	-.00036	.03361	-.00190
#3	.00004	-.00009	.00008	.00024	.00010	.05990	-.00130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00180**	**-.00022**	**.00020**	**.00637**	**-.00005**	F **6.2631**	**-.00055**
Stddev	.00694	.00011	.00013	.00282	.00012	3.7935	.00107
%RSD	385.52	52.864	64.326	44.223	257.30	60.570	196.19
#1	.00932	-.00019	.00032	.00581	-.00012	8.6957	.00069
#2	.00045	-.00034	.00021	.00387	-.00012	1.8920	-.00116
#3	-.00437	-.00012	.00007	.00943	.00009	8.2015	-.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 14:45:45 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-2.0154**	**.02441**	F **-7.9141**	**-.00045**	**-.00013**	**.17495**	**.00034**
Stddev	3.4006	.02577	1.8799	.00075	.00083	.10322	.00008
%RSD	168.73	105.58	23.753	167.95	659.69	58.997	24.345
#1	-2.0448	.01314	-9.0227	-.00100	-.00067	.10521	.00025
#2	-5.4012	.00619	-5.7436	-.00074	.00083	.12613	.00042
#3	1.3998	.05389	-8.9761	.00041	-.00053	.29353	.00034
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00047**	**-.00035**	**-.00019**	**.00244**	**-.03768**
Stddev	.00008	.00074	.00145	.00023	.00168	.04165
%RSD	295.44	156.49	418.26	123.99	69.020	110.52
#1	.00005	.00051	.00101	-.00023	.00101	-.03559
#2	-.00012	.00119	-.00187	.00006	.00429	-.08034
#3	-.00002	-.00029	-.00018	-.00039	.00201	.00287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48681.**	**56537.**
Stddev	78.	807.
%RSD	.15997	1.4267
#1	48769.	55884.
#2	48621.	56288.
#3	48653.	57438.

Approved: March 29, 2011

Sample Name: L1103046047 Acquired: 3/28/2011 14:49:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**9.2277**	**.02480**	**.00836**	**.24662**	**.00128**	**330.33**
Stddev	.00016	.1121	.00084	.00055	.00214	.00002	23.26
%RSD	18.002	1.2150	3.3920	6.5807	.86939	1.2436	7.0408
#1	.00094	9.1012	.02422	.00899	.24480	.00128	342.15
#2	.00070	9.3147	.02576	.00810	.24607	.00130	345.32
#3	.00099	9.2673	.02440	.00798	.24898	.00127	303.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00295**	**.01126**	**.01303**	**.21352**	**9.9188**	**2.1184**	**.00966**
Stddev	.00007	.00027	.00013	.00340	.0931	.0182	.00121
%RSD	2.4181	2.4321	1.0256	1.5905	.93915	.86093	12.478
#1	.00293	.01119	.01317	.21037	9.8511	2.0991	.00913
#2	.00290	.01103	.01303	.21308	9.8803	2.1208	.00881
#3	.00303	.01157	.01290	.21712	10.025	2.1354	.01104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.9625**	**2.4871**	**.00016**	**.05487**	**.01299**	F **6681.5**	**.17046**
Stddev	.0165	.0213	.00007	.00381	.00065	126.5	.00247
%RSD	.23758	.85513	43.537	6.9473	5.0161	1.8934	1.4468
#1	6.9721	2.4709	.00023	.05629	.01293	6556.8	.16864
#2	6.9434	2.4793	.00016	.05055	.01237	6677.9	.16947
#3	6.9719	2.5112	.00009	.05777	.01366	6809.7	.17326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046047 Acquired: 3/28/2011 14:49:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.8621**	F **387.56**	F **-4766.6**	**.00276**	**-.00073**	F **272.20**	**.00214**
Stddev	6.7452	5.29	77.2	.00009	.00109	5.27	.00035
%RSD	235.67	1.3652	1.6204	3.1728	149.46	1.9362	16.486
#1	8.9094	383.18	-4701.7	.00267	-.00043	267.65	.00239
#2	-4.4124	386.05	-4746.2	.00285	-.00194	270.96	.00231
#3	4.0893	393.44	-4852.0	.00275	.00018	277.98	.00174
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11012**	**.09967**	**.00201**	**.03014**	**.07263**	**11.421**
Stddev	.00231	.00158	.00027	.00050	.00221	.352
%RSD	2.1022	1.5813	13.498	1.6507	3.0424	3.0792
#1	.10885	.10038	.00179	.02957	.07085	11.192
#2	.10872	.09786	.00193	.03039	.07194	11.246
#3	.11279	.10076	.00232	.03046	.07510	11.826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47476.**	**56629.**
Stddev	118.	149.
%RSD	.24902	.26362
#1	47545.	56460.
#2	47543.	56684.
#3	47339.	56742.

Approved: March 29, 2011

Sample Name: L1103046048 Acquired: 3/28/2011 14:53:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**10.962**	**.01884**	**.00772**	**.22376**	**.00144**	**453.25**
Stddev	.00007	.195	.00088	.00017	.00490	.00002	2.42
%RSD	10.614	1.7829	4.6610	2.1458	2.1918	1.5125	.53479
#1	.00071	10.837	.01785	.00753	.22629	.00143	455.93
#2	.00061	10.861	.01913	.00777	.22688	.00143	451.21
#3	.00058	11.187	.01953	.00785	.21811	.00147	452.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00249**	**.01109**	**.01461**	**.06228**	**9.6923**	**1.2688**	**.01301**
Stddev	.00008	.00013	.00041	.00127	.1961	.0391	.00049
%RSD	3.0589	1.1753	2.8223	2.0359	2.0228	3.0775	3.7445
#1	.00243	.01103	.01433	.06189	9.8102	1.2737	.01338
#2	.00257	.01099	.01442	.06125	9.8006	1.3051	.01320
#3	.00245	.01123	.01509	.06369	9.4659	1.2275	.01246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.8223**	**2.3782**	**.00009**	**.07527**	**.01547**	F **8085.2**	**.11634**
Stddev	.1880	.0470	.00006	.00579	.00014	118.0	.00199
%RSD	2.1313	1.9748	68.505	7.6885	.88096	1.4599	1.7088
#1	8.9609	2.4057	.00011	.06936	.01549	7991.7	.11552
#2	8.8978	2.4049	.00015	.07554	.01532	8046.1	.11490
#3	8.6083	2.3240	.00002	.08093	.01559	8217.8	.11861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046048 Acquired: 3/28/2011 14:53:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.5755**	F **499.28**	F **-4752.9**	**.00095**	**.00012**	F **290.10**	**.00085**
Stddev	8.8115	9.65	80.7	.00041	.00158	4.67	.00007
%RSD	342.13	1.9336	1.6975	42.819	1283.8	1.6085	8.2050
#1	3.3109	491.28	-4691.5	.00082	-.00167	287.06	.00080
#2	10.996	496.56	-4722.9	.00063	.00132	287.77	.00081
#3	-6.5807	510.00	-4844.3	.00141	.00072	295.47	.00093
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12705**	**.10579**	**.00131**	**.03435**	**.04250**	**13.772**
Stddev	.00322	.00225	.00191	.00104	.00155	.383
%RSD	2.5311	2.1249	146.12	3.0197	3.6394	2.7792
#1	.12848	.10664	-.00089	.03356	.04141	13.439
#2	.12931	.10749	.00252	.03398	.04181	13.687
#3	.12337	.10324	.00229	.03553	.04427	14.190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46625.**	**56742.**
Stddev	453.	814.
%RSD	.97114	1.4350
#1	46946.	55979.
#2	46822.	56649.
#3	46107.	57599.

Approved: March 29, 2011

Sample Name: L1103046101 Acquired: 3/28/2011 14:56:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**8.1994**	**.02511**	**.00754**	**.27771**	**.00128**	**412.10**
Stddev	.00070	.0744	.00104	.00052	.00611	.00001	3.99
%RSD	173.06	.90790	4.1283	6.9435	2.1986	.91705	.96846
#1	.00073	8.1399	.02471	.00796	.27937	.00127	415.42
#2	.00088	8.1755	.02433	.00695	.27095	.00128	407.67
#3	-.00040	8.2829	.02629	.00769	.28282	.00130	413.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00313**	**.01182**	**.01439**	**.14523**	**9.9851**	**1.7501**	**.01214**
Stddev	.00009	.00016	.00065	.00173	.2238	.0517	.00004
%RSD	2.8157	1.3589	4.5003	1.1917	2.2415	2.9548	.31110
#1	.00304	.01167	.01415	.14324	10.075	1.7351	.01215
#2	.00312	.01199	.01390	.14644	9.7302	1.7075	.01217
#3	.00322	.01181	.01512	.14599	10.150	1.8076	.01210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.781**	**2.9520**	**.00006**	**.05926**	**.01437**	F **6570.9**	**.18183**
Stddev	.232	.0656	.00006	.00601	.00062	79.7	.00146
%RSD	2.1547	2.2211	90.645	10.135	4.3478	1.2128	.80443
#1	10.891	2.9912	.00008	.06525	.01386	6479.3	.18015
#2	10.515	2.8763	.00000	.05323	.01417	6624.3	.18280
#3	10.938	2.9885	.00011	.05930	.01507	6609.1	.18254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046101 Acquired: 3/28/2011 14:56:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-5.0578**	F **470.89**	F **-4348.4**	**.00052**	**.00017**	F **295.42**	**.00133**
Stddev	4.2853	6.78	47.0	.00035	.00085	3.45	.00032
%RSD	84.726	1.4396	1.0810	67.677	503.85	1.1682	23.728
#1	-9.6319	463.13	-4294.1	.00038	-.00019	291.46	.00152
#2	-1.1361	475.66	-4376.3	.00092	-.00045	297.78	.00097
#3	-4.4055	473.87	-4374.7	.00026	.00114	297.03	.00151
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14666**	**.09412**	**.00047**	**.02991**	**.06755**	**10.696**
Stddev	.00392	.00236	.00140	.00028	.00095	.004
%RSD	2.6751	2.5091	297.32	.93395	1.4060	.03430
#1	.14818	.09520	.00181	.03003	.06649	10.692
#2	.14220	.09141	-.00099	.02959	.06783	10.697
#3	.14959	.09574	.00059	.03011	.06833	10.699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46854.**	**56118.**
Stddev	302.	650.
%RSD	.64478	1.1586
#1	46785.	55405.
#2	46592.	56679.
#3	47184.	56269.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 15:00:27 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39691**	**9.4821**	**.39933**	**.48243**	**.97173**	**.04875**	**9.6774**
Stddev	.00594	.1097	.00153	.00582	.00622	.00060	.0786
%RSD	1.4977	1.1571	.38323	1.2058	.64006	1.2308	.81183
#1	.39313	9.4251	.39756	.47872	.96473	.04845	9.5867
#2	.39383	9.4127	.40008	.47945	.97663	.04836	9.7219
#3	.40376	9.6086	.40033	.48914	.97383	.04944	9.7236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04976**	**.20208**	**.48895**	**.50593**	**3.8925**	**48.364**	**.97177**
Stddev	.00032	.00136	.00575	.00401	.0354	.331	.00558
%RSD	.63830	.67494	1.1750	.79310	.91013	.68456	.57426
#1	.04946	.20070	.48678	.50192	3.8573	47.982	.96639
#2	.05010	.20343	.48462	.50995	3.9282	48.566	.97753
#3	.04973	.20210	.49547	.50593	3.8919	48.545	.97139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7975**	**.48446**	**.97344**	**48.758**	**.49987**	F **3.7343**	**.49851**
Stddev	.0661	.00444	.00500	.263	.00352	7.3944	.00371
%RSD	.67423	.91696	.51409	.53988	.70441	198.01	.74330
#1	9.7238	.47936	.96884	48.454	.49687	9.9355	.49456
#2	9.8515	.48746	.97876	48.924	.50375	-4.4492	.50191
#3	9.8173	.48656	.97270	48.895	.49899	5.7166	.49907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 15:00:27 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.3146**	**10.097**	F **15.907**	**1.1901**	**.38744**	**5.2697**	**1.0032**
Stddev	3.8172	.077	4.640	.0102	.00289	.2285	.0089
%RSD	88.472	.76182	29.171	.85960	.74659	4.3369	.88255
#1	2.3317	10.053	20.425	1.1823	.38516	5.1440	.99619
#2	8.7152	10.186	11.153	1.2017	.39069	5.5335	1.0132
#3	1.8969	10.052	16.145	1.1863	.38646	5.1315	1.0003
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	-10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97401**	**.97226**	**.50655**	**.98476**	**.99562**	F **.80313**
Stddev	.00617	.00465	.00494	.01253	.00712	.21315
%RSD	.63384	.47842	.97441	1.2729	.71547	26.540
#1	.96693	.96709	.50236	.97856	.98936	.76471
#2	.97826	.97610	.51199	.97653	1.0034	.61181
#3	.97683	.97360	.50530	.99918	.99413	1.0329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48431.**	**56689.**
Stddev	219.	418.
%RSD	.45130	.73763
#1	48543.	57151.
#2	48179.	56336.
#3	48570.	56582.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 15:03:53 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00750**	**.00003**	**.00208**	**.00006**	**.00002**	**-.00327**
Stddev	.00055	.00079	.00134	.00043	.00005	.00001	.00159
%RSD	132.90	10.602	4518.1	20.587	92.217	27.123	48.604
#1	-.00030	.00833	-.00109	.00256	.00007	.00002	-.00144
#2	-.00101	.00675	-.00033	.00174	.00000	.00003	-.00428
#3	.00007	.00741	.00151	.00193	.00011	.00002	-.00408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00004**	**.00013**	**-.00072**	**.00170**	**.04282**	**-.00189**
Stddev	.00010	.00012	.00013	.00021	.00142	.01279	.00015
%RSD	185.76	309.25	97.999	29.280	83.477	29.874	7.7126
#1	-.00005	-.00004	.00023	-.00096	.00260	.05742	-.00187
#2	.00015	-.00002	-.00001	-.00061	.00242	.03744	-.00175
#3	.00006	.00018	.00018	-.00058	.00006	.03359	-.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00905**	**.00001**	**.00025**	**.01191**	**.00017**	F **15.622**	**.00031**
Stddev	.00839	.00027	.00010	.00712	.00035	.929	.00109
%RSD	92.669	4910.2	38.304	59.765	203.84	5.9471	351.39
#1	-.01707	-.00028	.00015	.00373	.00042	14.855	-.00030
#2	-.00034	.00004	.00027	.01673	.00033	15.355	-.00034
#3	-.00974	.00026	.00033	.01527	-.00023	16.655	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 15:03:53 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.5334**	**.03235**	F **-4.3633**	**-.00159**	**-.00099**	**-.14006**	**-.00003**
Stddev	7.2639	.01282	5.4493	.00043	.00021	.12943	.00017
%RSD	85.124	39.628	124.89	27.172	21.078	92.413	546.16
#1	11.346	.02268	.09568	-.00112	-.00075	.00868	.00016
#2	13.971	.04689	-2.7480	-.00197	-.00113	-.20177	-.00016
#3	.28380	.02749	-10.438	-.00169	-.00108	-.22708	-.00010
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00071**	**-.00060**	**.00004**	**.00195**	F **.13703**
Stddev	.00002	.00079	.00032	.00018	.00058	.14885
%RSD	194.10	111.22	53.247	463.90	29.600	108.62
#1	-.00001	.00042	-.00091	.00007	.00133	.00986
#2	.00001	.00161	-.00063	-.00015	.00248	.30075
#3	-.00003	.00010	-.00027	.00020	.00205	.10049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49198.**	**57270.**
Stddev	315.	480.
%RSD	.64047	.83737
#1	48845.	56718.
#2	49295.	57582.
#3	49452.	57510.

Approved: March 29, 2011

Sample Name: PBS R5 Acquired: 3/28/2011 15:07:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.00801**	**-.00010**	**-.00234**	**.00031**	**.00001**	**-.03304**
Stddev	.00056	.00216	.00095	.00033	.00004	.00001	.00425
%RSD	184.15	27.010	942.99	14.079	13.782	144.24	12.862
#1	.00033	-.00573	.00087	-.00254	.00027	.00002	-.03769
#2	-.00072	-.00826	-.00013	-.00196	.00033	.00000	-.02937
#3	-.00053	-.01004	-.00104	-.00252	.00035	.00000	-.03206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00009**	**.00011**	**-.00025**	**.00286**	**.02238**	**-.00142**
Stddev	.00006	.00016	.00012	.00036	.00246	.00782	.00047
%RSD	374.03	188.07	106.46	143.94	86.038	34.960	32.769
#1	.00005	.00003	.00013	-.00049	.00090	.03130	-.00113
#2	-.00003	-.00027	.00022	.00016	.00562	.01915	-.00118
#3	-.00007	-.00002	-.00002	-.00043	.00206	.01668	-.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00369**	**-.00014**	**-.00016**	**.00422**	**.00014**	**3.4359**	**-.00038**
Stddev	.00415	.00023	.00007	.00261	.00038	4.9622	.00129
%RSD	112.67	162.79	44.239	61.810	274.79	144.42	344.58
#1	.00074	-.00003	-.00015	.00121	-.00030	3.6104	.00108
#2	-.00750	.00001	-.00010	.00586	.00036	8.3085	-.00141
#3	-.00430	-.00041	-.00024	.00559	.00036	-1.6112	-.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: PBS R5 Acquired: 3/28/2011 15:07:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **16.102**	**.16444**	F **-32.628**	**-.00259**	**-.00071**	**.06024**	**.00002**
Stddev	2.696	.03680	7.319	.00130	.00292	.17371	.00017
%RSD	16.743	22.376	22.433	50.391	413.13	288.34	896.08
#1	18.297	.20667	-33.359	-.00364	-.00083	.25700	-.00016
#2	13.093	.13927	-39.554	-.00113	-.00356	-.00439	.00004
#3	16.915	.14739	-24.970	-.00299	.00227	-.07188	.00018
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00065**	**-.00057**	**-.00031**	**.00054**	F **-.01959**
Stddev	.00002	.00088	.00075	.00009	.00045	.13924
%RSD	5.8406	134.44	131.62	30.017	83.115	710.81
#1	-.00030	.00016	-.00119	-.00041	.00106	.12745
#2	-.00032	.00013	-.00076	-.00030	.00029	-.14944
#3	-.00034	.00167	.00026	-.00022	.00027	-.03678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49682.**	**59951.**
Stddev	407.	432.
%RSD	.81847	.71988
#1	49378.	59457.
#2	50144.	60140.
#3	49524.	60255.

Approved: March 29, 2011

Sample Name: LCSS R5 Acquired: 3/28/2011 15:11:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19894**	**4.7098**	**.19073**	**.93450**	**.48597**	**.02482**	**4.7949**
Stddev	.00810	.1853	.00783	.03696	.00308	.00096	.0382
%RSD	4.0727	3.9334	4.1036	3.9554	.63440	3.8623	.79752
#1	.20031	4.7188	.18900	.93682	.48830	.02488	4.8247
#2	.20626	4.8904	.19927	.97025	.48712	.02574	4.8082
#3	.19024	4.5202	.18391	.89644	.48247	.02383	4.7518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02471**	**.10250**	**.25227**	**.24812**	**1.9307**	**23.938**	**.48704**
Stddev	.00105	.00426	.01019	.00999	.0089	.121	.00321
%RSD	4.2422	4.1583	4.0392	4.0258	.45969	.50540	.65930
#1	.02451	.10213	.25278	.24715	1.9373	24.053	.48967
#2	.02584	.10693	.26219	.25856	1.9342	23.949	.48800
#3	.02377	.09843	.24183	.23865	1.9206	23.812	.48347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.7726**	**.24025**	**.51510**	**24.854**	**.25402**	F **-42.241**	**.24268**
Stddev	.0277	.00111	.02065	.157	.00981	9.313	.01148
%RSD	.58082	.46276	4.0099	.63279	3.8607	22.047	4.7290
#1	4.7439	.24108	.51164	25.023	.25239	-39.534	.24114
#2	4.7746	.24068	.53726	24.827	.26454	-52.608	.25485
#3	4.7992	.23898	.49639	24.712	.24512	-34.582	.23205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: LCSS R5 Acquired: 3/28/2011 15:11:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **19.728**	**5.2833**	F **-53.384**	**.56911**	**.18452**	F **644.71**	**.48151**
Stddev	.893	.1934	4.518	.02640	.00841	28.66	.02029
%RSD	4.5275	3.6601	8.4628	4.6397	4.5576	4.4448	4.2143
#1	20.067	5.2012	-52.313	.56824	.18494	641.68	.47970
#2	18.715	5.5042	-49.498	.59595	.19271	674.76	.50265
#3	20.403	5.1446	-58.341	.54316	.17591	617.69	.46219
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000		9.0000			90.000	
Low Limit	-.00400		-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48823**	**.48800**	**.24202**	**.52087**	**.50618**	**.89124**
Stddev	.00333	.00155	.01224	.01977	.01230	.13101
%RSD	.68301	.31678	5.0583	3.7951	2.4301	14.699
#1	.49145	.48979	.24147	.52072	.49951	.78242
#2	.48843	.48715	.25453	.54071	.52037	.85466
#3	.48479	.48707	.23007	.50117	.49865	1.0367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47381.**	**56664.**
Stddev	1468.	415.
%RSD	3.0979	.73222
#1	47304.	56263.
#2	45954.	56636.
#3	48886.	57092.

Approved: March 29, 2011

Sample Name: LRC Acquired: 3/28/2011 15:14:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	F **869.03**	F **-.01010**	**.00108**	**-.00014**	**-.00002**	**-.03587**
Stddev	.00032	4.47	.00260	.00010	.00015	.00002	.00354
%RSD	44.266	.51416	25.761	8.9649	108.86	115.96	9.8666
#1	-.00045	864.34	-.00733	.00107	.00001	-.00001	-.03483
#2	-.00108	869.53	-.01249	.00118	-.00013	.00000	-.03981
#3	-.00066	873.23	-.01048	.00099	-.00030	-.00004	-.03296
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		810.00	90.000				
Low Limit		-.10000	-.01000				

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00063**	**.00047**	**-.00042**	**-.00088**	**.04523**	**-.00254**
Stddev	.00007	.00007	.00028	.00076	.00300	.01860	.00061
%RSD	74.315	10.753	59.649	180.98	340.01	41.114	23.793
#1	-.00003	.00062	.00057	.00042	-.00339	.06179	-.00288
#2	-.00009	.00056	.00068	-.00062	-.00171	.02511	-.00290
#3	-.00018	.00070	.00015	-.00105	.00245	.04880	-.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00472**	**.00177**	**.00010**	**.00789**	**-.00426**	F **-3104.5**	F **-.01275**
Stddev	.01076	.00039	.00048	.00275	.00015	24.1	.00072
%RSD	227.96	22.092	503.78	34.921	3.6120	.77526	5.6613
#1	-.00601	.00222	.00056	.01101	-.00409	-3105.1	-.01349
#2	-.01477	.00155	-.00041	.00582	-.00440	-3080.2	-.01270
#3	.00662	.00153	.00013	.00683	-.00428	-3128.3	-.01205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						900.00	225.00
Low Limit						-.00400	-.00500

Approved: March 29, 2011

Sample Name: LRC Acquired: 3/28/2011 15:14:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8284**	**.80218**	F **-104.58**	**-.00792**	F **-.01254**	**-.05313**	**-.00066**
Stddev	5.8045	.05808	12.69	.00408	.00251	.42584	.00059
%RSD	317.46	7.2408	12.132	51.546	19.989	801.50	89.931
#1	-2.6027	.76567	-109.26	-.00386	-.01106	-.46099	-.00080
#2	-.31103	.86916	-114.27	-.00787	-.01113	-.08707	-.00001
#3	8.3990	.77172	-90.219	-.01202	-.01543	.38866	-.00116
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			9.0000		81.000		
Low Limit			-.00400		-.01000		

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00036**	**-.00193**	**.00007**	F **-.01933**	**.09343**
Stddev	.00009	.00041	.00192	.00006	.00013	.17970
%RSD	43.577	113.72	99.576	92.193	.67727	192.34
#1	-.00012	.00020	.00015	.00008	-.01934	.10685
#2	-.00030	.00005	-.00365	.00012	-.01920	-.09261
#3	-.00022	.00082	-.00230	.00000	-.01946	.26604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					45.000	
Low Limit					-.01000	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48633.**	**61047.**
Stddev	344.	421.
%RSD	.70658	.69044
#1	49017.	60612.
#2	48529.	61453.
#3	48354.	61077.

Approved: March 29, 2011

Sample Name: LRC Acquired: 3/28/2011 15:18:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00170**	**.02561**	**-.00507**	**.43814**	**-.00010**	**-.00006**	**-.03937**
Stddev	.00049	.00488	.00063	.01248	.00004	.00001	.00163
%RSD	29.022	19.041	12.437	2.8490	38.758	15.586	4.1330
#1	-.00121	.02921	-.00480	.44216	-.00008	-.00005	-.03838
#2	-.00169	.02755	-.00579	.42415	-.00014	-.00006	-.03849
#3	-.00220	.02006	-.00461	.44812	-.00008	-.00005	-.04125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00265**	**-.00056**	F **-.03908**	**.02563**	F **950.29**	**-.05957**	**-.00309**
Stddev	.00028	.00017	.00115	.00501	13.79	.01744	.00162
%RSD	10.422	31.246	2.9386	19.543	1.4517	29.277	52.526
#1	.00281	-.00048	-.03932	.02287	954.70	-.04873	-.00137
#2	.00233	-.00076	-.03783	.03141	934.83	-.07968	-.00330
#3	.00280	-.00044	-.04009	.02261	961.34	-.05029	-.00460
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		900.00		
Low Limit			-.00300		-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00342**	**.00179**	**-.00588**	**-.01099**	**-.00199**	F **3351.5**	**.03509**
Stddev	.00572	.00020	.00040	.00370	.00157	112.9	.00240
%RSD	167.28	10.967	6.8654	33.691	79.273	3.3682	6.8446
#1	.00089	.00157	-.00559	-.00673	-.00183	3287.9	.03245
#2	-.00124	.00188	-.00634	-.01283	-.00050	3481.8	.03567
#3	-.00991	.00193	-.00571	-.01342	-.00363	3284.8	.03714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: LRC Acquired: 3/28/2011 15:18:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-4.1613**	**.44859**	F **103.83**	**-.01672**	**-.00746**	**1.9286**	**.00627**
Stddev	1.3878	.12293	4.94	.00156	.00105	.4746	.00026
%RSD	33.349	27.404	4.7611	9.3310	14.018	24.609	4.1788
#1	-3.7457	.34302	98.364	-.01753	-.00749	1.6626	.00638
#2	-5.7094	.58355	107.99	-.01492	-.00849	2.4765	.00645
#3	-3.0288	.41919	105.13	-.01770	-.00640	1.6466	.00597
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00247**	**.00620**	F **-.02134**	**.01021**	F **-78.536**
Stddev	.00001	.00040	.00199	.00054	.00068	1.564
%RSD	3.1612	16.102	32.017	2.5539	6.6598	1.9918
#1	-.00026	.00202	.00560	-.02116	.00986	-77.887
#2	-.00027	.00258	.00459	-.02195	.01099	-80.321
#3	-.00025	.00279	.00842	-.02090	.00978	-77.401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				90.000		45.000
Low Limit				-.01000		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47005.**	**55379.**
Stddev	1103.	85.
%RSD	2.3470	.15379
#1	47639.	55343.
#2	45732.	55476.
#3	47646.	55317.

Approved: March 29, 2011

Sample Name: LRC Acquired: 3/28/2011 15:22:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06249**	**.10018**	**.00543**	**-.01562**	**.00003**	**.00008**	**-.04118**
Stddev	.00061	.00110	.00048	.00037	.00007	.00002	.00675
%RSD	.98217	1.0982	8.7919	2.3926	235.75	21.403	16.393
#1	.06213	.10145	.00593	-.01580	-.00002	.00006	-.04874
#2	.06214	.09951	.00498	-.01586	.00000	.00010	-.03908
#3	.06320	.09958	.00539	-.01519	.00010	.00008	-.03574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00069**	F **-.01210**	**.00211**	**.01390**	**-.01804**	**-.00089**
Stddev	.00005	.00013	.00010	.00021	.00558	.00739	.00061
%RSD	25.926	18.822	.81294	9.8803	40.127	40.992	67.979
#1	.00017	.00071	-.01199	.00218	.01959	-.02586	-.00019
#2	.00026	.00081	-.01214	.00187	.01368	-.01710	-.00119
#3	.00017	.00056	-.01217	.00227	.00844	-.01116	-.00129
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.11421**	F **183.79**	F **-.01003**	**-.00641**	**.00189**	F **-559.72**	**.02252**
Stddev	.00418	.90	.00006	.00386	.00020	10.40	.00082
%RSD	3.6637	.48921	.56964	60.274	10.542	1.8585	3.6317
#1	-.11503	184.09	-.00997	-.00375	.00210	-571.14	.02345
#2	-.11792	182.78	-.01008	-.01084	.00171	-557.25	.02191
#3	-.10967	184.50	-.01005	-.00464	.00186	-550.78	.02221
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	900.00	180.00	18.000			900.00	
Low Limit	-.10000	-.00300	-.01000			-.00400	

Approved: March 29, 2011

Sample Name: LRC Acquired: 3/28/2011 15:22:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-17.092**	F **29.838**	F **-3201.2**	**-.00276**	**.10672**	**.35149**	**-.00070**
Stddev	4.035	.061	6.9	.00010	.00242	.08356	.00003
%RSD	23.610	.20536	.21555	3.6994	2.2664	23.773	4.7482
#1	-21.676	29.776	-3198.8	-.00264	.10699	.29832	-.00066
#2	-14.075	29.841	-3195.9	-.00283	.10899	.30835	-.00073
#3	-15.525	29.898	-3209.0	-.00280	.10418	.44781	-.00070
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00539**	**.00495**	F **-.01598**	**.00537**	F **-.06490**
Stddev	.00009	.00073	.00026	.00012	.00037	.08363
%RSD	40.969	13.470	5.3135	.77517	6.8388	128.85
#1	-.00015	-.00466	.00466	-.01603	.00559	-.14456
#2	-.00032	-.00540	.00519	-.01608	.00495	.02219
#3	-.00019	-.00611	.00499	-.01584	.00557	-.07234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				90.000		45.000
Low Limit				-.01000		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49051.**	**55647.**
Stddev	76.	285.
%RSD	.15414	.51133
#1	49091.	55646.
#2	49098.	55932.
#3	48964.	55363.

Approved: March 29, 2011

Sample Name: L1103092601 Acquired: 3/28/2011 15:25:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02130**	**522.89**	**.05417**	**.38831**	**.76732**	**.00742**	**17.895**
Stddev	.00043	31.01	.00456	.00453	.01198	.00079	.316
%RSD	2.0111	5.9302	8.4210	1.1661	1.5610	10.616	1.7674
#1	.02082	494.27	.04972	.39189	.75429	.00657	17.562
#2	.02166	555.83	.05883	.38322	.76982	.00813	17.934
#3	.02141	518.58	.05396	.38983	.77785	.00755	18.190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01174**	**.06489**	**.57640**	**.35866**	**807.24**	**17.982**	**.27619**
Stddev	.00069	.00717	.06863	.04507	11.08	.262	.00469
%RSD	5.9145	11.049	11.907	12.567	1.3728	1.4577	1.6970
#1	.01111	.05821	.50415	.31694	794.45	17.701	.27191
#2	.01248	.07247	.64073	.40647	813.56	18.026	.27546
#3	.01163	.06399	.58432	.35257	813.72	18.219	.28120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.250**	**2.7180**	**.01139**	**.65672**	**.20023**	F **45703.**	**.20713**
Stddev	.398	.0512	.00137	.01049	.02453	4975.	.02872
%RSD	2.0655	1.8822	12.025	1.5977	12.251	10.885	13.864
#1	18.792	2.6612	.01011	.64681	.17756	41124.	.18047
#2	19.450	2.7326	.01284	.65564	.22627	50996.	.23754
#3	19.508	2.7603	.01122	.66771	.19688	44987.	.20339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092601 Acquired: 3/28/2011 15:25:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **51.145**	F **83.950**	F **-11712.**	**.08753**	**.00158**	F **492.02**	**.03024**
Stddev	4.726	9.323	1281.	.01333	.00328	51.84	.00274
%RSD	9.2401	11.106	10.938	15.233	207.98	10.537	9.0524
#1	47.983	75.126	-10514.	.07589	-.00217	444.04	.02746
#2	48.874	93.703	-13062.	.10208	.00297	547.01	.03294
#3	56.577	83.022	-11561.	.08463	.00393	485.02	.03034
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11505**	**2.3087**	**.04644**	**1.5378**	**.89464**	F **339.70**
Stddev	.00204	.0356	.00355	.1699	.09650	38.51
%RSD	1.7718	1.5408	7.6505	11.047	10.786	11.337
#1	.11301	2.2693	.04330	1.3575	.80631	299.08
#2	.11507	2.3182	.05030	1.6949	.99763	375.69
#3	.11709	2.3386	.04572	1.5608	.87998	344.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46248.**	**56919.**
Stddev	3461.	521.
%RSD	7.4834	.91528
#1	49463.	57441.
#2	42585.	56399.
#3	46697.	56918.

Approved: March 29, 2011

Sample Name: L1103092603S Acquired: 3/28/2011 15:29:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22398**	**611.21**	**.22202**	**1.0690**	**1.2653**	**.02667**	**22.316**
Stddev	.00179	1.20	.00173	.0009	.0035	.00008	.025
%RSD	.79811	.19574	.78083	.08676	.27516	.29620	.11121
#1	.22218	611.57	.22033	1.0684	1.2630	.02662	22.316
#2	.22401	612.19	.22194	1.0684	1.2636	.02664	22.291
#3	.22575	609.88	.22379	1.0700	1.2693	.02677	22.340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03380**	**.15530**	**.77778**	**.57787**	**794.95**	**41.660**	**.73893**
Stddev	.00007	.00094	.00718	.00324	3.91	.047	.00118
%RSD	.20154	.60593	.92265	.56127	.49126	.11222	.15934
#1	.03374	.15422	.76995	.57456	799.36	41.640	.73926
#2	.03378	.15585	.77935	.57801	793.59	41.627	.73762
#3	.03387	.15585	.78405	.58104	791.91	41.713	.73990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.655**	**2.6512**	**.44498**	**22.496**	**.44955**	F **44288.**	**.41805**
Stddev	.114	.0076	.00203	.017	.00246	188.	.00063
%RSD	.44390	.28692	.45538	.07535	.54675	.42387	.15047
#1	25.523	2.6439	.44288	22.497	.44697	44076.	.41826
#2	25.720	2.6506	.44513	22.513	.44981	44353.	.41734
#3	25.721	2.6591	.44692	22.479	.45186	44434.	.41854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092603S Acquired: 3/28/2011 15:29:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **69.330**	F **86.666**	F **-11384.**	**.56847**	**.14973**	F **1412.7**	**.45429**
Stddev	3.542	.559	39.	.00605	.00101	5.6	.00271
%RSD	5.1086	.64504	.34375	1.0636	.67515	.39781	.59621
#1	68.202	86.118	-11339.	.56233	.14919	1406.6	.45182
#2	66.490	86.646	-11411.	.56864	.14909	1413.9	.45386
#3	73.298	87.235	-11401.	.57442	.15089	1417.6	.45719
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.56418**	**5.1687**	**.25487**	**2.1623**	**1.4262**	F **363.88**
Stddev	.00009	.0070	.00102	.0104	.0033	2.09
%RSD	.01538	.13568	.40138	.48276	.23110	.57564
#1	.56408	5.1625	.25372	2.1516	1.4227	361.46
#2	.56424	5.1674	.25519	2.1630	1.4268	365.17
#3	.56420	5.1763	.25568	2.1724	1.4292	365.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46621.**	**58496.**
Stddev	117.	145.
%RSD	.25129	.24764
#1	46746.	58381.
#2	46603.	58449.
#3	46514.	58659.

Approved: March 29, 2011

Sample Name: L1103092604SD Acquired: 3/28/2011 15:32:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22437**	**569.59**	**.22138**	**1.0974**	**1.1923**	**.02768**	**21.392**
Stddev	.00325	11.72	.00477	.0133	.0050	.00043	.098
%RSD	1.4479	2.0582	2.1538	1.2100	.42313	1.5380	.45991
#1	.22562	573.31	.22399	1.0848	1.1876	.02775	21.279
#2	.22681	579.00	.22427	1.1113	1.1919	.02806	21.453
#3	.22068	556.45	.21587	1.0962	1.1976	.02722	21.446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03306**	**.15033**	**.74386**	**.55557**	**773.21**	**40.008**	**.70821**
Stddev	.00074	.00318	.01102	.01307	13.73	.185	.00104
%RSD	2.2285	2.1184	1.4817	2.3520	1.7758	.46297	.14640
#1	.03322	.15105	.74640	.56244	758.06	39.816	.70712
#2	.03370	.15310	.75339	.56377	784.82	40.023	.70833
#3	.03226	.14685	.73179	.54050	776.76	40.185	.70918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.785**	**2.5600**	**.45512**	**23.335**	**.42900**	F **42574.**	**.40142**
Stddev	.229	.0191	.00868	.085	.00789	915.	.00668
%RSD	.96330	.74505	1.9074	.36330	1.8402	2.1494	1.6629
#1	23.624	2.5388	.45594	23.249	.43027	42705.	.39894
#2	23.684	2.5652	.46336	23.418	.43619	43417.	.40898
#3	24.048	2.5759	.44605	23.338	.42055	41601.	.39634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092604SD Acquired: 3/28/2011 15:32:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **55.095**	F **82.231**	F **-10834.**	**.57226**	**.15255**	F **1579.4**	**.45899**
Stddev	1.601	1.830	249.	.01232	.00537	35.3	.00798
%RSD	2.9051	2.2260	2.2989	2.1531	3.5186	2.2328	1.7389
#1	55.987	82.892	-10857.	.57334	.15535	1578.4	.46054
#2	56.050	83.638	-11071.	.58400	.15594	1615.2	.46608
#3	53.247	80.161	-10575.	.55943	.14636	1544.7	.45035
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.56926**	**4.6157**	**.25972**	**2.0796**	**1.3137**	F **314.31**
Stddev	.00199	.0101	.00665	.0271	.0228	3.25
%RSD	.34994	.21985	2.5594	1.3038	1.7341	1.0339
#1	.56736	4.6040	.26382	2.0832	1.3225	313.92
#2	.57134	4.6204	.26329	2.1048	1.3308	317.74
#3	.56909	4.6225	.25205	2.0509	1.2878	311.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46111.**	**57212.**
Stddev	564.	236.
%RSD	1.2240	.41277
#1	46026.	57373.
#2	45594.	57322.
#3	46713.	56941.

Approved: March 29, 2011

Sample Name: L1103092602 Acquired: 3/28/2011 15:36:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02423**	**572.14**	**.05585**	**.39730**	**.79994**	**.00789**	**18.082**
Stddev	.00057	1.73	.00212	.00384	.00333	.00002	.091
%RSD	2.3608	.30232	3.8004	.96740	.41643	.23653	.50256
#1	.02432	574.13	.05385	.39310	.79827	.00787	18.018
#2	.02475	570.99	.05563	.39816	.80378	.00790	18.186
#3	.02361	571.30	.05808	.40065	.79778	.00791	18.042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01110**	**.06586**	**.54861**	**.37573**	**836.77**	**20.052**	**.30168**
Stddev	.00017	.00043	.00021	.00221	6.91	.068	.00100
%RSD	1.5675	.64795	.03814	.58777	.82621	.34090	.33104
#1	.01098	.06580	.54882	.37828	829.31	20.020	.30190
#2	.01130	.06546	.54841	.37451	838.05	20.130	.30255
#3	.01102	.06631	.54861	.37439	842.96	20.005	.30059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.114**	**2.5557**	**.00996**	**.73735**	**.22017**	F **45820.**	**.21876**
Stddev	.144	.0107	.00022	.00468	.00131	81.	.00037
%RSD	.68180	.41888	2.1922	.63460	.59453	.17657	.17132
#1	20.974	2.5502	.00987	.73196	.22003	45730.	.21901
#2	21.262	2.5681	.01021	.74032	.22154	45887.	.21833
#3	21.107	2.5489	.00980	.73977	.21893	45843.	.21894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092602 Acquired: 3/28/2011 15:36:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **65.844**	F **82.380**	F **-11230.**	**.06943**	**-.00243**	F **488.03**	**.03248**
Stddev	6.942	.249	27.	.00136	.00224	1.43	.00037
%RSD	10.543	.30222	.24075	1.9614	92.147	.29351	1.1297
#1	71.755	82.526	-11203.	.06803	-.00067	486.41	.03230
#2	67.577	82.522	-11257.	.07075	-.00167	489.11	.03224
#3	58.199	82.092	-11230.	.06951	-.00496	488.57	.03290
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12173**	**2.6307**	**.05040**	**1.6500**	**.94909**	F **349.17**
Stddev	.00056	.0130	.00033	.0001	.00061	.69
%RSD	.45894	.49230	.64882	.00587	.06425	.19641
#1	.12128	2.6222	.05077	1.6501	.94876	349.43
#2	.12236	2.6456	.05029	1.6500	.94873	349.69
#3	.12155	2.6243	.05015	1.6499	.94980	348.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46955.**	**57967.**
Stddev	36.	275.
%RSD	.07615	.47432
#1	46915.	57956.
#2	46965.	57698.
#3	46984.	58248.

Approved: March 29, 2011

Sample Name: L1103092602PS Acquired: 3/28/2011 15:40:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360132-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23312**	**536.78**	**.24930**	**1.3217**	**1.2119**	**.03333**	**21.387**
Stddev	.00421	4.24	.00141	.0088	.0044	.00033	.051
%RSD	1.8044	.78918	.56603	.66189	.36417	.97578	.23628
#1	.22972	533.58	.24853	1.3158	1.2071	.03312	21.347
#2	.23180	535.18	.24844	1.3177	1.2129	.03317	21.371
#3	.23782	541.58	.25093	1.3318	1.2158	.03371	21.444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03522**	**.15969**	**.75073**	**.58344**	**760.80**	**42.249**	**.76032**
Stddev	.00037	.00172	.00320	.00906	5.24	.089	.00042
%RSD	1.0376	1.0787	.42687	1.5529	.68932	.21182	.05528
#1	.03497	.15869	.74974	.57870	754.75	42.148	.76066
#2	.03505	.15870	.74814	.57774	763.71	42.283	.75985
#3	.03564	.16168	.75432	.59389	763.94	42.317	.76045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.852**	**2.5425**	**.51420**	**25.496**	**.44511**	F **42255.**	**.42871**
Stddev	.134	.0172	.00515	.052	.00487	411.	.00440
%RSD	.56383	.67527	1.0014	.20465	1.0932	.97282	1.0267
#1	23.708	2.5233	.51129	25.554	.44182	42054.	.42757
#2	23.974	2.5476	.51117	25.454	.44281	41984.	.42498
#3	23.874	2.5565	.52015	25.480	.45070	42728.	.43356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092602PS Acquired: 3/28/2011 15:40:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360132-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **66.105**	F **81.010**	F **-10419.**	**.63785**	**.18794**	F **1093.9**	**.02908**
Stddev	9.770	.996	107.	.00904	.00319	12.0	.00063
%RSD	14.780	1.2301	1.0307	1.4179	1.6986	1.1015	2.1824
#1	75.292	80.541	-10365.	.63057	.19034	1086.9	.02887
#2	55.841	80.334	-10349.	.63502	.18916	1086.9	.02858
#3	67.183	82.154	-10543.	.64797	.18431	1107.8	.02979
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.60083**	**2.8786**	**.27839**	**2.0259**	**1.3571**	F **326.45**
Stddev	.00123	.0039	.00216	.0215	.0117	2.61
%RSD	.20482	.13566	.77489	1.0618	.86510	.79957
#1	.60172	2.8743	.27716	2.0108	1.3530	326.48
#2	.59943	2.8819	.27714	2.0164	1.3479	323.83
#3	.60134	2.8797	.28089	2.0505	1.3703	329.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46539.**	**58345.**
Stddev	342.	247.
%RSD	.73570	.42321
#1	46675.	58535.
#2	46792.	58066.
#3	46150.	58435.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 15:43:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41408**	**9.9794**	**.40976**	**.50856**	**.99187**	**.05102**	**9.9195**
Stddev	.00076	.0572	.00172	.00369	.00400	.00023	.0358
%RSD	.18304	.57334	.41896	.72539	.40314	.45781	.36055
#1	.41332	9.9467	.40778	.50668	.99347	.05076	9.9376
#2	.41409	9.9460	.41088	.50619	.99481	.05108	9.9425
#3	.41483	10.045	.41062	.51281	.98731	.05122	9.8783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05109**	**.20735**	**.51116**	**.51895**	**4.1177**	**49.743**	**.98748**
Stddev	.00011	.00124	.00294	.00282	.0288	.139	.00371
%RSD	.22048	.59639	.57437	.54253	.69899	.27882	.37559
#1	.05097	.20615	.50862	.51596	4.1108	49.788	.98929
#2	.05109	.20728	.51047	.51933	4.1493	49.853	.98993
#3	.05119	.20862	.51438	.52155	4.0930	49.587	.98321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.132**	**.49300**	**1.0002**	**50.134**	**.51378**	**9.4612**	**.51463**
Stddev	.038	.00202	.0006	.108	.00178	2.3679	.00298
%RSD	.37306	.40912	.06350	.21618	.34568	25.027	.57865
#1	10.098	.49316	1.0004	50.196	.51182	11.790	.51208
#2	10.173	.49494	1.0007	50.197	.51425	9.5378	.51790
#3	10.125	.49091	.99951	50.009	.51528	7.0560	.51390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 15:43:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.4411**	**10.482**	F **8.0272**	**1.2222**	**.39763**	F **5.5755**	**1.0266**
Stddev	1.9070	.037	6.3631	.0037	.00116	.1230	.0058
%RSD	22.592	.35492	79.269	.30474	.29116	2.2054	.56170
#1	10.142	10.461	14.980	1.2182	.39818	5.4682	1.0319
#2	8.8025	10.524	6.6082	1.2255	.39841	5.5485	1.0205
#3	6.3793	10.459	2.4934	1.2230	.39630	5.7097	1.0275
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		-10.000%			10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99486**	**.99639**	**.52310**	**1.0285**	**1.0288**	F **1.7748**
Stddev	.00307	.00331	.00099	.0038	.0052	.0697
%RSD	.30894	.33193	.18881	.36704	.50296	3.9279
#1	.99691	.99591	.52254	1.0252	1.0239	1.7696
#2	.99635	.99992	.52253	1.0276	1.0283	1.7078
#3	.99133	.99335	.52425	1.0326	1.0342	1.8469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48361.**	**56727.**
Stddev	266.	335.
%RSD	.55069	.59006
#1	48640.	56983.
#2	48334.	56348.
#3	48110.	56850.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 15:47:23 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.01087**	**-.00071**	**.00295**	**-.00003**	**.00002**	**-.00655**
Stddev	.00061	.00136	.00037	.00060	.00006	.00001	.00308
%RSD	146.99	12.517	51.697	20.356	244.41	69.011	46.991
#1	-.00015	.01240	-.00100	.00316	-.00006	.00003	-.00307
#2	.00002	.00980	-.00084	.00227	.00005	.00000	-.00891
#3	-.00111	.01041	-.00030	.00342	-.00006	.00002	-.00769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00015**	**.00004**	**-.00027**	**.01123**	**.11346**	**-.00376**
Stddev	.00004	.00023	.00006	.00022	.00119	.01034	.00030
%RSD	148.79	154.35	136.10	81.548	10.553	9.1113	8.0919
#1	.00007	.00041	.00000	-.00042	.01135	.10831	-.00347
#2	.00001	.00007	.00011	-.00002	.00999	.12536	-.00408
#3	-.00001	-.00003	.00001	-.00038	.01236	.10670	-.00374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00949**	**-.00004**	**.00020**	**-.00161**	**.00033**	F **12.554**	**-.00119**
Stddev	.00993	.00023	.00007	.00287	.00053	6.351	.00071
%RSD	104.56	594.22	33.997	178.55	159.57	50.589	60.010
#1	-.00547	-.00016	.00015	.00109	.00093	6.4712	-.00155
#2	-.00221	.00022	.00028	-.00129	-.00010	19.143	-.00037
#3	-.02080	-.00018	.00018	-.00463	.00018	12.048	-.00165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 15:47:23 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **6.4322**	F **.07188**	F **-8.5333**	**-.00099**	**-.00275**	**-.03441**	**-.00013**
Stddev	7.4041	.02035	3.7308	.00032	.00097	.00942	.00008
%RSD	115.11	28.304	43.720	32.361	35.132	27.375	66.258
#1	2.8841	.07870	-5.1437	-.00067	-.00167	-.04330	-.00005
#2	1.4699	.08794	-7.9256	-.00100	-.00353	-.02454	-.00012
#3	14.943	.04900	-12.531	-.00131	-.00306	-.03539	-.00021
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00021**	**.00041**	**-.00019**	**.00286**	**-.05188**
Stddev	.00004	.00077	.00026	.00033	.00138	.21783
%RSD	32.658	365.88	63.102	175.96	48.147	419.89
#1	-.00013	-.00026	.00064	-.00016	.00444	-.18995
#2	-.00007	-.00021	.00013	.00013	.00196	-.16492
#3	-.00015	.00110	.00045	-.00053	.00218	.19923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48668.**	**55523.**
Stddev	147.	322.
%RSD	.30186	.57976
#1	48771.	55294.
#2	48500.	55385.
#3	48733.	55891.

Approved: March 29, 2011

Sample Name: L1103092602PS Acquired: 3/28/2011 15:51:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360132-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21690**	**133.73**	**.22319**	**1.1146**	**.65564**	**.02783**	**8.6737**
Stddev	.00094	1.35	.00346	.0060	.00194	.00011	.0235
%RSD	.43452	1.0067	1.5492	.53743	.29584	.40333	.27048
#1	.21584	132.83	.22083	1.1077	.65740	.02773	8.6475
#2	.21721	133.09	.22157	1.1182	.65597	.02782	8.6927
#3	.21765	135.28	.22716	1.1178	.65356	.02795	8.6810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02888**	**.12119**	**.37188**	**.34655**	**188.25**	**29.026**	**.55142**
Stddev	.00014	.00109	.00239	.00279	.75	.055	.00104
%RSD	.49854	.90213	.64262	.80420	.40044	.19056	.18889
#1	.02883	.12056	.36982	.34461	188.49	29.032	.55168
#2	.02878	.12055	.37130	.34530	188.86	29.079	.55231
#3	.02905	.12245	.37450	.34975	187.41	28.969	.55027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6722**	**.78964**	**.53003**	**25.743**	**.31514**	F **10371.**	**.30870**
Stddev	.0455	.00415	.00324	.072	.00182	53.	.00262
%RSD	.47071	.52613	.61166	.28073	.57909	.51240	.84965
#1	9.6593	.79043	.52669	25.688	.31403	10341.	.30805
#2	9.7228	.79334	.53022	25.825	.31414	10339.	.30646
#3	9.6346	.78515	.53316	25.717	.31725	10432.	.31159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092602PS Acquired: 3/28/2011 15:51:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360132-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **15.026**	F **23.974**	F **-2572.1**	**.62485**	**.20757**	F **793.60**	**.00774**
Stddev	4.589	.167	19.7	.00321	.00231	7.09	.00014
%RSD	30.539	.69501	.76716	.51338	1.1107	.89372	1.7629
#1	18.220	23.856	-2563.8	.62214	.20618	786.97	.00788
#2	9.7678	23.902	-2557.9	.62402	.20631	792.77	.00761
#3	17.090	24.165	-2594.6	.62840	.21023	801.08	.00771
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51854**	**1.0392**	**.27365**	**.85954**	**.75259**	F **73.168**
Stddev	.00123	.0043	.00206	.00500	.01114	.475
%RSD	.23771	.41347	.75237	.58173	1.4799	.64867
#1	.51777	1.0396	.27182	.85392	.74440	72.782
#2	.51996	1.0433	.27325	.86118	.74810	73.024
#3	.51789	1.0347	.27588	.86351	.76527	73.698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48687.**	**56711.**
Stddev	28.	237.
%RSD	.05796	.41801
#1	48685.	56765.
#2	48715.	56452.
#3	48659.	56916.

Approved: March 29, 2011

Sample Name: L1103092602SDL Acquired: 3/28/2011 15:54:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360132-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00459**	**128.08**	**.01326**	**.09182**	**.16686**	**.00158**	**3.7405**
Stddev	.00030	1.40	.00157	.00069	.00116	.00001	.0320
%RSD	6.4892	1.0935	11.842	.74732	.69762	.61068	.85622
#1	.00439	127.33	.01259	.09254	.16812	.00159	3.7742
#2	.00493	127.22	.01505	.09117	.16583	.00158	3.7366
#3	.00445	129.70	.01213	.09176	.16661	.00158	3.7105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00232**	**.01455**	**.11424**	**.08191**	**188.54**	**4.3486**	**.05996**
Stddev	.00004	.00034	.00194	.00216	1.74	.0307	.00057
%RSD	1.5612	2.3334	1.6976	2.6405	.92125	.70487	.94763
#1	.00228	.01420	.11362	.08009	190.44	4.3723	.06037
#2	.00233	.01459	.11269	.08132	187.04	4.3594	.05931
#3	.00235	.01488	.11642	.08430	188.14	4.3140	.06018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.6139**	**.55139**	**.00178**	**.14672**	**.04897**	F **10248.**	**.04860**
Stddev	.0436	.00548	.00014	.00305	.00144	164.	.00069
%RSD	.94495	.99454	7.6383	2.0760	2.9355	1.6027	1.4289
#1	4.6530	.55699	.00175	.14325	.04807	10117.	.04780
#2	4.5669	.55113	.00193	.14796	.04821	10196.	.04895
#3	4.6217	.54604	.00166	.14896	.05063	10433.	.04904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092602SDL Acquired: 3/28/2011 15:54:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360132-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.8589**	F **18.182**	F **-2510.0**	**.01272**	**-.00149**	F **104.69**	**.00683**
Stddev	1.3324	.409	45.4	.00264	.00199	1.82	.00017
%RSD	13.515	2.2470	1.8071	20.719	133.78	1.7376	2.4478
#1	10.798	17.912	-2480.6	.01303	-.00301	103.35	.00677
#2	10.445	17.983	-2487.0	.00994	.00076	103.96	.00701
#3	8.3339	18.652	-2562.2	.01519	-.00221	106.76	.00669
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02513**	**.56173**	**.01307**	**.33911**	**.21140**	F **66.417**
Stddev	.00022	.00427	.00108	.00348	.00329	.556
%RSD	.89396	.75995	8.2701	1.0267	1.5552	.83788
#1	.02534	.56665	.01278	.33726	.20898	66.497
#2	.02516	.55906	.01216	.33694	.21007	65.825
#3	.02489	.55948	.01426	.34313	.21514	66.930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49126.**	**57156.**
Stddev	513.	294.
%RSD	1.0432	.51465
#1	49488.	56824.
#2	49352.	57259.
#3	48540.	57384.

Approved: March 29, 2011

Sample Name: L1103092602SDL Acquired: 3/28/2011 15:58:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360132-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**25.964**	**.00284**	**.01652**	**.03289**	**.00033**	**.69959**
Stddev	.00077	.199	.00101	.00149	.00138	.00001	.02527
%RSD	4091.4	.76691	35.706	9.0095	4.1873	4.4237	3.6116
#1	-.00060	26.030	.00307	.01489	.03151	.00034	.67472
#2	-.00022	26.122	.00173	.01781	.03426	.00033	.72523
#3	.00088	25.740	.00371	.01685	.03292	.00031	.69883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00330**	**.02372**	**.01739**	**37.596**	**.93766**	**.00785**
Stddev	.00003	.00006	.00062	.00010	1.486	.03108	.00193
%RSD	9.9668	1.7252	2.6348	.56099	3.9537	3.3143	24.639
#1	.00025	.00332	.02444	.01739	36.076	.91285	.00567
#2	.00028	.00334	.02339	.01729	39.047	.97252	.00936
#3	.00023	.00323	.02332	.01749	37.664	.92762	.00851
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94059**	**.11177**	**-.00010**	**.01884**	**.01009**	F **2199.9**	**.01067**
Stddev	.03815	.00432	.00020	.00660	.00027	22.8	.00071
%RSD	4.0565	3.8632	189.83	35.028	2.6372	1.0375	6.6510
#1	.90276	.10732	-.00033	.01695	.01029	2176.4	.01128
#2	.97906	.11595	-.00004	.01340	.01020	2201.2	.01084
#3	.93995	.11203	.00005	.02618	.00979	2222.0	.00989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092602SDL Acquired: 3/28/2011 15:58:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360132-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.38669**	**4.1361**	F **-590.92**	**.00161**	**-.00351**	**20.225**	**.00124**
Stddev	12.866	.5612	94.88	.00057	.00046	.400	.00024
%RSD	3327.1	13.569	16.057	35.399	13.083	1.9766	19.684
#1	13.929	3.7403	-531.95	.00095	-.00298	19.774	.00147
#2	-4.1060	4.7784	-700.37	.00197	-.00383	20.368	.00098
#3	-10.983	3.8896	-540.44	.00189	-.00372	20.534	.00127
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00475**	**.11080**	**.00412**	**.06984**	**.04787**	**9.7004**
Stddev	.00019	.00402	.00041	.00052	.00055	.4067
%RSD	4.0496	3.6303	10.021	.74864	1.1562	4.1923
#1	.00455	.10646	.00413	.06950	.04728	10.034
#2	.00493	.11440	.00370	.07045	.04838	9.8197
#3	.00478	.11154	.00453	.06958	.04795	9.2473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49985.**	**57582.**
Stddev	529.	1718.
%RSD	1.0584	2.9839
#1	50586.	59531.
#2	49784.	56287.
#3	49587.	56927.

Approved: March 29, 2011

Sample Name: L1103092602SDL Acquired: 3/28/2011 16:01:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG360132-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**4.9009**	**.00237**	**.00170**	**.00622**	**.00009**	**.10169**
Stddev	.00049	.0198	.00072	.00039	.00024	.00001	.00220
%RSD	92.677	.40311	30.276	22.804	3.8016	12.414	2.1612
#1	-.00014	4.8784	.00161	.00143	.00632	.00008	.10330
#2	-.00108	4.9153	.00245	.00151	.00595	.00008	.09919
#3	-.00037	4.9091	.00304	.00214	.00639	.00010	.10259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00085**	**.00447**	**.00345**	**7.3073**	**.25099**	**-.00221**
Stddev	.00009	.00011	.00023	.00037	.2134	.03040	.00030
%RSD	118.32	13.064	5.2565	10.847	2.9207	12.110	13.659
#1	-.00015	.00086	.00473	.00318	7.4187	.28584	-.00192
#2	-.00011	.00096	.00430	.00387	7.0613	.22990	-.00252
#3	.00003	.00074	.00437	.00329	7.4421	.23725	-.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19207**	**.02136**	**-.00038**	**-.00139**	**.00151**	**460.92**	**.00183**
Stddev	.00775	.00036	.00015	.00347	.00036	7.44	.00088
%RSD	4.0361	1.6996	40.009	249.54	23.645	1.6133	48.061
#1	.20087	.02165	-.00042	.00120	.00135	467.91	.00170
#2	.18625	.02095	-.00021	-.00004	.00192	461.74	.00103
#3	.18908	.02149	-.00051	-.00534	.00125	453.11	.00277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092602SDL Acquired: 3/28/2011 16:01:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG360132-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.883**	**.70297**	F **-105.21**	**-.00234**	**-.00289**	**2.6874**	**-.00001**
Stddev	6.676	.03388	3.63	.00054	.00046	.1093	.00029
%RSD	61.343	4.8198	3.4541	22.892	15.815	4.0674	4759.5
#1	17.066	.68754	-108.73	-.00263	-.00311	2.5668	-.00018
#2	3.8049	.67955	-101.47	-.00267	-.00236	2.7155	.00033
#3	11.777	.74182	-105.43	-.00172	-.00320	2.7800	-.00017
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**.02171**	**.00165**	**.01370**	**.01114**	**2.3495**
Stddev	.00005	.00100	.00083	.00019	.00018	.1799
%RSD	7.2133	4.6154	50.112	1.4054	1.6315	7.6561
#1	.00070	.02282	.00227	.01352	.01133	2.2948
#2	.00061	.02088	.00196	.01390	.01110	2.5504
#3	.00069	.02143	.00071	.01368	.01097	2.2034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50095.**	**58231.**
Stddev	312.	590.
%RSD	.62369	1.0124
#1	50453.	58256.
#2	49955.	58807.
#3	49877.	57629.

Approved: March 29, 2011

Sample Name: L1103092501 Acquired: 3/28/2011 16:05:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00824**	**391.14**	**.02902**	**.30493**	**.27435**	**.01871**	**.39566**
Stddev	.00041	22.69	.00219	.00755	.00940	.00060	.01515
%RSD	5.0347	5.8017	7.5349	2.4760	3.4266	3.1819	3.8297
#1	-.00861	416.20	.02953	.30283	.28321	.01925	.41038
#2	-.00779	371.97	.03091	.31331	.26449	.01807	.38011
#3	-.00831	385.27	.02663	.29866	.27535	.01881	.39649
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00252**	**.05477**	**.21474**	**.02589**	**591.14**	**17.473**	**.07315**
Stddev	.00017	.00163	.00860	.00372	10.81	.512	.00343
%RSD	6.6870	2.9704	4.0035	14.368	1.8281	2.9324	4.6870
#1	.00246	.05644	.22263	.02933	585.86	17.948	.07611
#2	.00271	.05319	.20558	.02195	603.57	16.930	.06939
#3	.00238	.05469	.21602	.02640	583.99	17.542	.07395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.2327**	**4.4085**	**-.00212**	**1.6549**	**.06939**	F **25298.**	**.02939**
Stddev	.1103	.1075	.00029	.0606	.00305	864.	.00110
%RSD	1.3397	2.4378	13.641	3.6606	4.3885	3.4147	3.7496
#1	8.3171	4.5015	-.00233	1.7120	.07196	26183.	.02882
#2	8.1079	4.2909	-.00179	1.5914	.06602	24457.	.02870
#3	8.2731	4.4332	-.00224	1.6613	.07018	25256.	.03066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092501 Acquired: 3/28/2011 16:05:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **49.827**	F **19.941**	F **-3247.4**	**-.01205**	**-.00566**	F **436.68**	**.01107**
Stddev	7.305	.762	120.8	.00218	.00237	13.55	.00078
%RSD	14.660	3.8210	3.7197	18.094	41.815	3.1025	7.0625
#1	51.210	20.708	-3376.4	-.01236	-.00309	450.62	.01082
#2	41.930	19.184	-3136.9	-.01405	-.00616	423.56	.01044
#3	56.341	19.931	-3228.8	-.00972	-.00775	435.84	.01194
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03275**	**.25224**	**-.00222**	**.30430**	**.12385**	F **244.16**
Stddev	.00115	.00908	.00196	.01071	.00354	10.35
%RSD	3.5082	3.5999	88.255	3.5182	2.8556	4.2399
#1	.03384	.26177	-.00341	.31285	.12791	253.38
#2	.03155	.24368	.00004	.29229	.12215	232.96
#3	.03284	.25127	-.00328	.30775	.12148	246.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49822.**	**61195.**
Stddev	1090.	712.
%RSD	2.1879	1.1630
#1	48687.	60637.
#2	50861.	60950.
#3	49917.	61996.

Approved: March 29, 2011

Sample Name: L1103092502 Acquired: 3/28/2011 16:09:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01839**	**546.51**	**.04690**	**.32454**	**.99450**	**.00839**	**5.8104**
Stddev	.00071	30.91	.00338	.00734	.01298	.00043	.0834
%RSD	3.8477	5.6556	7.1978	2.2620	1.3049	5.1268	1.4356
#1	.01916	571.95	.05080	.31903	1.0094	.00875	5.9058
#2	.01778	512.11	.04480	.33287	.98819	.00791	5.7511
#3	.01823	555.46	.04511	.32173	.98589	.00850	5.7744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00697**	**.05844**	**.56504**	**.28905**	**676.52**	**18.991**	**.30000**
Stddev	.00032	.00550	.03234	.02988	3.17	.211	.00433
%RSD	4.5451	9.4167	5.7233	10.336	.46893	1.1131	1.4428
#1	.00730	.06292	.59272	.31399	673.39	19.232	.30477
#2	.00667	.05230	.52950	.25593	679.73	18.837	.29893
#3	.00694	.06009	.57292	.29722	676.43	18.904	.29631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.979**	**2.1713**	**.00860**	**1.7814**	**.21233**	F **31237.**	**.18194**
Stddev	.123	.0279	.00066	.0321	.02076	2873.	.02063
%RSD	.64645	1.2839	7.6494	1.7995	9.7776	9.1961	11.339
#1	19.065	2.2026	.00875	1.8184	.23069	33678.	.19915
#2	18.838	2.1491	.00788	1.7639	.18980	28072.	.15907
#3	19.033	2.1622	.00917	1.7618	.21651	31962.	.18761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092502 Acquired: 3/28/2011 16:09:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **66.927**	F **42.276**	F **-6363.6**	**-.00964**	**-.00129**	F **592.52**	**.02707**
Stddev	2.138	3.874	610.8	.00431	.00333	53.12	.00155
%RSD	3.1943	9.1632	9.5983	44.733	259.09	8.9644	5.7118
#1	65.501	45.308	-6867.7	-.00639	-.00513	635.17	.02832
#2	69.385	37.912	-5684.3	-.01453	.00045	533.02	.02534
#3	65.894	43.608	-6538.7	-.00800	.00082	609.38	.02756
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06999**	**2.1108**	**.04264**	**1.4767**	**.69380**	F **314.85**
Stddev	.00101	.0197	.00143	.0790	.05721	17.18
%RSD	1.4395	.93331	3.3455	5.3501	8.2457	5.4555
#1	.07114	2.1335	.04410	1.5407	.74516	328.80
#2	.06930	2.0984	.04258	1.3884	.63214	295.66
#3	.06952	2.1005	.04124	1.5011	.70410	320.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49310.**	**59641.**
Stddev	2798.	578.
%RSD	5.6737	.96909
#1	46981.	59064.
#2	52413.	60220.
#3	48536.	59639.

Approved: March 29, 2011

Sample Name: L1103092503 Acquired: 3/28/2011 16:12:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03537**	**466.47**	**.04952**	**.39579**	**.89196**	**.00280**	**1.8227**
Stddev	.00024	17.36	.00354	.01168	.00331	.00007	.0079
%RSD	.67981	3.7210	7.1516	2.9505	.37079	2.4423	.43459
#1	.03561	478.34	.05207	.39248	.88822	.00287	1.8270
#2	.03513	474.52	.05100	.38613	.89316	.00278	1.8135
#3	.03536	446.55	.04547	.40877	.89450	.00274	1.8275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00500**	**.12127**	**.55066**	**.32448**	**818.95**	**24.063**	**.14259**
Stddev	.00017	.00786	.02446	.02633	12.55	.064	.00057
%RSD	3.4808	6.4848	4.4425	8.1157	1.5324	.26450	.40246
#1	.00504	.12609	.56184	.34039	819.25	24.011	.14312
#2	.00481	.12551	.56753	.33896	806.25	24.043	.14198
#3	.00515	.11219	.52260	.29408	831.34	24.134	.14267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.334**	**6.9535**	**.00782**	**9.6383**	**.19342**	F **50217.**	**.24771**
Stddev	.299	.0685	.00076	.0369	.01335	3127.	.01499
%RSD	1.3998	.98501	9.7088	.38313	6.9031	6.2270	6.0532
#1	21.152	6.9094	.00788	9.6243	.20120	52041.	.25681
#2	21.172	6.9187	.00854	9.6105	.20106	52003.	.25591
#3	21.679	7.0324	.00702	9.6802	.17800	46606.	.23040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092503 Acquired: 3/28/2011 16:12:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.956**	F **44.536**	F **-7442.9**	**-.00915**	**.00395**	F **962.40**	**.03238**
Stddev	7.136	2.950	482.7	.00139	.00168	53.84	.00104
%RSD	10.349	6.6240	6.4850	15.220	42.593	5.5944	3.2108
#1	75.911	46.262	-7697.5	-.00960	.00328	995.25	.03346
#2	69.305	46.216	-7744.9	-.00759	.00587	991.69	.03231
#3	61.651	41.129	-6886.2	-.01026	.00271	900.26	.03138
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05123**	**4.3748**	**.05067**	**1.6548**	**.56680**	F **324.41**
Stddev	.00023	.0202	.00036	.0677	.03020	15.23
%RSD	.44383	.46110	.71538	4.0911	5.3289	4.6934
#1	.05129	4.3586	.05026	1.6916	.58342	330.84
#2	.05098	4.3684	.05087	1.6961	.58504	335.36
#3	.05142	4.3974	.05090	1.5766	.53193	307.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47785.**	**58630.**
Stddev	2063.	606.
%RSD	4.3170	1.0330
#1	46604.	58934.
#2	46583.	59024.
#3	50166.	57933.

Approved: March 29, 2011

Sample Name: L1103092504 Acquired: 3/28/2011 16:16:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02587**	**497.11**	**.02054**	**.29618**	**1.1063**	**.00369**	**1.4498**
Stddev	.00084	4.12	.00012	.00729	.0081	.00009	.0158
%RSD	3.2479	.82866	.59493	2.4602	.73216	2.4707	1.0889
#1	.02651	500.87	.02042	.28788	1.0974	.00358	1.4317
#2	.02492	492.70	.02066	.30152	1.1085	.00372	1.4608
#3	.02618	497.75	.02053	.29915	1.1132	.00376	1.4568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00346**	**.13399**	**.25013**	**.29367**	**637.39**	**19.222**	**.17351**
Stddev	.00008	.00048	.00170	.00336	13.49	.147	.00152
%RSD	2.2956	.35818	.67786	1.1453	2.1164	.76410	.87431
#1	.00339	.13455	.25149	.29750	621.88	19.053	.17180
#2	.00354	.13371	.24823	.29231	646.42	19.311	.17404
#3	.00343	.13372	.25068	.29121	643.86	19.303	.17469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.556**	**5.2021**	**.00250**	**.97218**	**.18926**	F **35271.**	**.15033**
Stddev	.181	.0582	.00025	.00323	.00063	84.	.00158
%RSD	1.0325	1.1186	10.190	.33196	.33044	.23943	1.0502
#1	17.348	5.1350	.00258	.97028	.18993	35337.	.14851
#2	17.637	5.2326	.00270	.97591	.18869	35176.	.15124
#3	17.682	5.2387	.00221	.97036	.18915	35301.	.15126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092504 Acquired: 3/28/2011 16:16:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **71.331**	F **40.231**	F **-6703.0**	**-.01278**	**-.00038**	F **603.74**	**.02631**
Stddev	9.801	.487	27.1	.00372	.00110	6.50	.00031
%RSD	13.740	1.2093	.40374	29.099	289.46	1.0763	1.1949
#1	65.357	40.720	-6720.5	-.00951	-.00072	607.61	.02652
#2	65.993	40.224	-6671.9	-.01201	.00085	596.23	.02595
#3	82.642	39.747	-6716.8	-.01683	-.00127	607.37	.02646
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04212**	**3.9399**	**.03806**	**1.3919**	**.63778**	F **244.88**
Stddev	.00035	.0312	.00034	.0089	.00206	.83
%RSD	.83095	.79294	.88519	.64290	.32351	.34041
#1	.04174	3.9042	.03796	1.3840	.63598	244.39
#2	.04220	3.9534	.03777	1.3901	.63732	244.42
#3	.04243	3.9621	.03843	1.4016	.64003	245.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48018.**	**60522.**
Stddev	108.	319.
%RSD	.22435	.52662
#1	47894.	60890.
#2	48087.	60358.
#3	48073.	60320.

Approved: March 29, 2011

Sample Name: L1103092505 Acquired: 3/28/2011 16:20:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00720**	**252.23**	**.03812**	**.65456**	**.28469**	**.01635**	**3.2124**
Stddev	.00075	2.25	.00086	.00647	.00072	.00008	.0203
%RSD	10.425	.89264	2.2639	.98855	.25232	.50719	.63219
#1	-.00734	250.33	.03822	.65190	.28491	.01627	3.2080
#2	-.00786	254.71	.03892	.64984	.28389	.01644	3.1947
#3	-.00638	251.64	.03721	.66194	.28528	.01635	3.2346
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**.33257**	**.03914**	**.17637**	F **1427.5**	**9.1308**	**.04915**
Stddev	.00006	.00272	.00069	.00528	7.3	.0504	.00014
%RSD	1.1302	.81787	1.7704	2.9942	.50844	.55186	.29260
#1	.00501	.32982	.03866	.17064	1423.8	9.1041	.04931
#2	.00495	.33263	.03993	.17744	1422.9	9.0995	.04911
#3	.00507	.33525	.03882	.18104	1435.9	9.1890	.04903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					900.00		
Low Limit					-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.9696**	**9.1231**	**-.00810**	**1.1487**	**.11698**	F **21810.**	**.07766**
Stddev	.0200	.0750	.00023	.0073	.00114	32.	.00082
%RSD	.33536	.82209	2.8087	.63275	.97527	.14751	1.0595
#1	5.9802	9.1141	-.00811	1.1468	.11568	21773.	.07826
#2	5.9465	9.0530	-.00832	1.1426	.11746	21826.	.07800
#3	5.9820	9.2022	-.00787	1.1568	.11781	21832.	.07673
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092505 Acquired: 3/28/2011 16:20:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **53.135**	F **36.667**	F **-5623.8**	F **-.02167**	**-.00533**	F **959.56**	**.01489**
Stddev	2.191	.598	34.6	.00091	.00260	3.05	.00031
%RSD	4.1230	1.6321	.61551	4.1938	48.738	.31765	2.1075
#1	51.785	36.019	-5600.9	-.02218	-.00792	961.10	.01466
#2	51.957	36.781	-5606.9	-.02062	-.00273	961.53	.01476
#3	55.663	37.199	-5663.6	-.02221	-.00535	956.05	.01525
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000	90.000		90.000	
Low Limit	-.00400	-.00400	-.00400	-.02000		-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04753**	**.14528**	**.00450**	**.21520**	**.28129**	F **157.90**
Stddev	.00017	.00168	.00065	.00083	.00216	1.49
%RSD	.35123	1.1553	14.429	.38569	.76675	.94190
#1	.04759	.14638	.00453	.21464	.27967	157.28
#2	.04734	.14610	.00383	.21616	.28046	156.83
#3	.04766	.14335	.00513	.21481	.28374	159.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51053.**	**63790.**
Stddev	78.	406.
%RSD	.15303	.63608
#1	51139.	63631.
#2	51033.	64251.
#3	50986.	63487.

Approved: March 29, 2011

Sample Name: L1103092506 Acquired: 3/28/2011 16:23:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00784**	**300.91**	**.05570**	**.25488**	**.49923**	**.01971**	**2.7892**
Stddev	.00044	5.92	.00199	.00400	.00157	.00043	.0210
%RSD	5.5851	1.9682	3.5749	1.5685	.31481	2.1610	.75180
#1	-.00760	306.54	.05784	.25556	.49840	.02018	2.7928
#2	-.00758	294.73	.05391	.25849	.50104	.01935	2.8081
#3	-.00835	301.47	.05535	.25058	.49824	.01960	2.7667
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00268**	**.29732**	**.38534**	**.30142**	**517.39**	**16.080**	**.13955**
Stddev	.00003	.01001	.00908	.00930	5.16	.094	.00113
%RSD	1.0924	3.3654	2.3561	3.0849	.99636	.58430	.80776
#1	.00270	.30843	.39557	.31189	519.61	16.114	.13830
#2	.00269	.28901	.37825	.29411	521.06	16.153	.14048
#3	.00264	.29453	.38220	.29826	511.50	15.974	.13986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9134**	**5.8858**	**.00105**	**3.1876**	**.26163**	F **31176.**	**.08871**
Stddev	.0484	.0472	.00018	.0238	.00810	1046.	.00398
%RSD	.48827	.80188	17.514	.74611	3.0976	3.3548	4.4844
#1	9.8693	5.8881	.00125	3.1903	.27040	32330.	.09330
#2	9.9652	5.9318	.00101	3.2100	.25442	30290.	.08637
#3	9.9058	5.8375	.00089	3.1627	.26006	30909.	.08645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092506 Acquired: 3/28/2011 16:23:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **59.654**	F **30.041**	F **-4654.3**	**-.00987**	**-.00399**	F **687.36**	**.01194**
Stddev	1.589	.767	141.1	.00080	.00065	13.55	.00007
%RSD	2.6633	2.5519	3.0324	8.1124	16.199	1.9712	.55844
#1	58.512	30.902	-4810.8	-.01004	-.00471	702.65	.01201
#2	58.980	29.432	-4536.7	-.00900	-.00345	682.59	.01189
#3	61.468	29.788	-4615.3	-.01058	-.00382	676.84	.01190
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05383**	**.32215**	**-.00072**	**.37525**	**.30791**	F **339.85**
Stddev	.00032	.00651	.00071	.00763	.00880	7.42
%RSD	.59863	2.0205	97.576	2.0328	2.8587	2.1835
#1	.05394	.31766	-.00035	.38335	.31793	348.12
#2	.05408	.31918	-.00028	.36820	.30144	333.78
#3	.05346	.32961	-.00154	.37422	.30436	337.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**53597.**	**63950.**
Stddev	1193.	510.
%RSD	2.2256	.79691
#1	52273.	63588.
#2	54589.	63730.
#3	53929.	64533.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 16:27:24 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40658**	**9.8549**	**.40128**	**.49832**	**.97125**	**.05036**	**9.6990**
Stddev	.00298	.1078	.00549	.00480	.00923	.00041	.0419
%RSD	.73389	1.0938	1.3689	.96264	.95024	.81109	.43172
#1	.40652	9.7746	.40056	.49699	.96090	.05042	9.6518
#2	.40363	9.8127	.39618	.49433	.97863	.04992	9.7316
#3	.40959	9.9774	.40710	.50364	.97422	.05073	9.7137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05023**	**.20401**	**.50798**	**.51170**	**3.9246**	**48.738**	**.96373**
Stddev	.00080	.00240	.00515	.00745	.0146	.219	.00778
%RSD	1.5875	1.1761	1.0136	1.4557	.37241	.44941	.80743
#1	.05007	.20343	.50932	.51182	3.9370	48.485	.95507
#2	.04952	.20195	.50230	.50419	3.9085	48.865	.97015
#3	.05109	.20664	.51233	.51909	3.9284	48.864	.96597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9073**	**.47866**	**.98750**	**49.121**	**.50731**	F **13.505**	**.50992**
Stddev	.0403	.00140	.01388	.122	.00602	5.394	.00603
%RSD	.40705	.29203	1.4052	.24809	1.1863	39.941	1.1833
#1	9.8781	.47857	.98995	48.993	.50787	16.273	.51010
#2	9.8905	.47730	.97256	49.235	.50103	16.954	.50379
#3	9.9533	.48009	.99999	49.135	.51303	7.2890	.51586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 16:27:24 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **19.812**	**10.377**	**10.129**	**1.1985**	**.39198**	F **6.0383**	**1.0129**
Stddev	8.542	.112	3.500	.0182	.00757	.4360	.0176
%RSD	43.113	1.0764	34.555	1.5180	1.9307	7.2208	1.7352
#1	12.508	10.293	11.901	1.1957	.39232	5.5732	1.0088
#2	29.204	10.335	12.388	1.1818	.38425	6.4379	.99776
#3	17.725	10.504	6.0972	1.2179	.39937	6.1037	1.0322
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000					5.0000	
Range	10.000%					10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97198**	**.97087**	**.51243**	**1.0161**	**1.0215**	F **2.9585**
Stddev	.00526	.00618	.00717	.0087	.0079	.1848
%RSD	.54113	.63668	1.3995	.85888	.77170	6.2480
#1	.96608	.96374	.51048	1.0133	1.0208	2.7641
#2	.97620	.97467	.50643	1.0091	1.0140	3.1320
#3	.97365	.97421	.52037	1.0259	1.0297	2.9795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48876.**	**57186.**
Stddev	433.	542.
%RSD	.88614	.94805
#1	48986.	56627.
#2	49244.	57709.
#3	48399.	57222.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 16:30:49 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.00787**	**-.00044**	**.00136**	**-.00014**	**.00003**	**-.00804**
Stddev	.00080	.00273	.00033	.00048	.00007	.00002	.00408
%RSD	161.26	34.713	75.203	35.272	48.901	65.623	50.719
#1	-.00064	.00617	-.00082	.00123	-.00020	.00001	-.00552
#2	.00037	.01101	-.00018	.00189	-.00016	.00005	-.01274
#3	-.00121	.00641	-.00033	.00096	-.00007	.00004	-.00585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00001**	**.00013**	**-.00012**	**.01075**	**.13296**	**-.00523**
Stddev	.00011	.00009	.00035	.00063	.00928	.00705	.00133
%RSD	222.20	1087.2	265.71	514.11	86.283	5.3038	25.485
#1	.00007	-.00008	.00050	-.00056	.02144	.13638	-.00652
#2	-.00007	.00009	-.00021	.00060	.00475	.13765	-.00532
#3	-.00016	-.00003	.00011	-.00041	.00607	.12485	-.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00873**	**-.00003**	**-.00005**	**.00170**	**.00029**	F **16.837**	**-.00102**
Stddev	.01396	.00007	.00022	.00177	.00027	15.182	.00040
%RSD	159.98	225.79	478.33	104.08	93.114	90.169	39.681
#1	.01861	-.00009	-.00010	.00117	.00006	33.931	-.00102
#2	.01481	-.00006	-.00024	.00368	.00059	4.9200	-.00142
#3	-.00724	.00005	.00020	.00026	.00022	11.661	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 16:30:49 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.545**	F **.07314**	F **-4.2393**	**-.00116**	**-.00282**	**.29268**	**-.00005**
Stddev	6.106	.02178	4.1538	.00118	.00113	.21905	.00023
%RSD	52.891	29.784	97.985	101.53	39.971	74.842	487.81
#1	5.7330	.07314	-1.4354	-.00098	-.00361	.18036	.00015
#2	17.908	.05135	-9.0114	-.00008	-.00153	.15258	.00001
#3	10.993	.09492	-2.2711	-.00242	-.00332	.54511	-.00029
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00051**	**.00067**	**-.00031**	**.00174**	F **.14926**
Stddev	.00003	.00042	.00060	.00018	.00051	.22352
%RSD	20.694	82.153	89.493	59.462	29.439	149.75
#1	-.00010	.00032	.00018	-.00043	.00134	.26769
#2	-.00012	.00022	.00049	-.00040	.00232	-.10855
#3	-.00015	.00098	.00134	-.00010	.00157	.28865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49551.**	**57723.**
Stddev	876.	1149.
%RSD	1.7670	1.9898
#1	50541.	56765.
#2	49236.	58997.
#3	48877.	57408.

Approved: March 29, 2011

Sample Name: L1103092605 Acquired: 3/28/2011 16:34:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03404**	**436.10**	**.04373**	**.36533**	**.77875**	**.00161**	**5.2245**
Stddev	.00118	11.62	.00188	.01439	.03116	.00005	.2168
%RSD	3.4591	2.6641	4.2907	3.9391	4.0013	3.2066	4.1500
#1	.03357	442.30	.04482	.36754	.77813	.00163	5.2187
#2	.03317	443.30	.04480	.34996	.74790	.00166	5.0106
#3	.03538	422.70	.04156	.37849	.81021	.00156	5.4441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00876**	**.09795**	**.44120**	**.31632**	**760.16**	**18.890**	**.21134**
Stddev	.00016	.00445	.01218	.01662	21.15	.731	.00827
%RSD	1.8156	4.5401	2.7610	5.2535	2.7825	3.8705	3.9117
#1	.00892	.10077	.44521	.32495	765.96	18.821	.21144
#2	.00860	.10026	.45086	.32685	736.71	18.196	.20302
#3	.00877	.09283	.42752	.29716	777.80	19.654	.21955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.306**	**4.5800**	**.00727**	**2.4075**	**.18221**	F **33621.**	**.23008**
Stddev	.648	.1773	.00025	.0968	.00785	1208.	.01035
%RSD	3.5400	3.8714	3.4626	4.0224	4.3069	3.5923	4.4967
#1	18.121	4.5408	.00745	2.4091	.18593	34368.	.23682
#2	17.771	4.4256	.00737	2.3099	.18751	34267.	.23524
#3	19.026	4.7736	.00698	2.5036	.17320	32228.	.21817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092605 Acquired: 3/28/2011 16:34:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.967**	F **72.400**	F **-11928.**	**.05750**	**.00547**	F **485.51**	**.02957**
Stddev	8.543	3.106	511.	.00388	.00263	19.01	.00110
%RSD	13.786	4.2896	4.2870	6.7422	48.022	3.9164	3.7358
#1	71.818	74.465	-12319.	.05847	.00244	498.03	.03055
#2	57.489	73.907	-12115.	.06081	.00691	494.87	.02977
#3	56.593	68.829	-11349.	.05324	.00706	463.63	.02837
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04345**	**4.7755**	**.04422**	**1.3747**	**.85834**	F **273.63**
Stddev	.00174	.1868	.00165	.0339	.02785	6.17
%RSD	4.0114	3.9112	3.7294	2.4630	3.2449	2.2563
#1	.04350	4.7741	.04281	1.3885	.87238	277.11
#2	.04169	4.5894	.04380	1.3995	.87638	277.28
#3	.04518	4.9629	.04603	1.3361	.82626	266.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47925.**	**59315.**
Stddev	1267.	1196.
%RSD	2.6443	2.0169
#1	47161.	59874.
#2	47226.	60130.
#3	49388.	57942.

Approved: March 29, 2011

Sample Name: L1103092606 Acquired: 3/28/2011 16:38:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04422**	**566.72**	**.04582**	**.36778**	**.93689**	^ *****	**.80222**
Stddev	.00057	26.60	.00282	.00317	.00174	-----	.00332
%RSD	1.2952	4.6932	6.1557	.86076	.18577	-----	.41391
#1	.04356	576.35	.04727	.36541	.93496	^ -----	.79865
#2	.04450	536.65	.04257	.37137	.93735	^ -----	.80279
#3	.04459	587.16	.04762	.36655	.93835	^ -----	.80522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00449**	**.10393**	**.39628**	**.35009**	**765.06**	**28.959**	**.26573**
Stddev	.00006	.00853	.02291	.03048	4.05	.025	.00141
%RSD	1.3282	8.2035	5.7819	8.7068	.52995	.08679	.52963
#1	.00455	.10755	.40556	.36441	763.92	28.943	.26473
#2	.00443	.09419	.37018	.31508	761.70	28.947	.26734
#3	.00448	.11004	.41309	.37077	769.56	28.988	.26513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.988**	**3.5518**	**.00581**	**.42380**	**.22891**	F **27396.**	**.26977**
Stddev	.187	.0124	.00050	.00252	.01857	2120.	.02186
%RSD	.72121	.35057	8.6027	.59531	8.1126	7.7375	8.1041
#1	25.882	3.5497	.00579	.42664	.23718	28311.	.28183
#2	25.877	3.5405	.00532	.42293	.20764	24972.	.24453
#3	26.204	3.5651	.00632	.42183	.24192	28904.	.28295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092606 Acquired: 3/28/2011 16:38:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **85.582**	F **38.348**	F **-6536.5**	**-.01235**	**-.00151**	F **678.62**	**.03354**
Stddev	8.735	2.961	498.5	.00418	.00373	51.51	.00231
%RSD	10.206	7.7220	7.6266	33.896	247.72	7.5898	6.9019
#1	89.650	39.528	-6744.2	-.01185	.00220	697.15	.03446
#2	91.541	34.978	-5967.7	-.01676	-.00145	620.41	.03090
#3	75.556	40.537	-6897.5	-.00843	-.00526	718.29	.03525
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05836**	**6.4448**	**.04605**	**1.4855**	**.82673**	F **308.47**
Stddev	.00014	.0036	.00132	.0765	.05774	15.81
%RSD	.23316	.05604	2.8641	5.1495	6.9839	5.1241
#1	.05829	6.4416	.04667	1.5122	.85437	314.31
#2	.05852	6.4487	.04453	1.3992	.76037	290.57
#3	.05827	6.4440	.04694	1.5450	.86546	320.52
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49014.**	**59827.**
Stddev	2580.	458.
%RSD	5.2645	.76519
#1	47902.	59615.
#2	51964.	60352.
#3	47176.	59513.

Approved: March 29, 2011

Sample Name: L1103092501 Acquired: 3/28/2011 16:41:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**4.8346**	**.00308**	**.00167**	**.00300**	**.00024**	**-.04273**
Stddev	.00034	.1679	.00069	.00030	.00007	.00002	.00735
%RSD	364.74	3.4732	22.485	18.031	2.4133	9.5072	17.191
#1	.00038	4.8729	.00384	.00166	.00292	.00024	-.04347
#2	-.00028	4.9800	.00249	.00197	.00300	.00027	-.03504
#3	.00018	4.6508	.00291	.00137	.00306	.00023	-.04968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00106**	**.00184**	**.00028**	**7.3062**	**.31385**	**-.00475**
Stddev	.00003	.00009	.00015	.00031	.0668	.00451	.00097
%RSD	14.534	8.4501	8.0257	112.96	.91383	1.4358	20.404
#1	-.00017	.00115	.00178	.00016	7.2345	.31896	-.00363
#2	-.00016	.00097	.00174	.00004	7.3176	.31214	-.00529
#3	-.00021	.00105	.00201	.00063	7.3665	.31045	-.00533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10660**	**.05495**	**-.00057**	**.05677**	**.00041**	**369.06**	**.00036**
Stddev	.01496	.00090	.00008	.00829	.00052	3.93	.00057
%RSD	14.029	1.6419	14.252	14.606	127.81	1.0651	160.30
#1	.09316	.05405	-.00051	.04949	.00001	367.23	.00099
#2	.10393	.05495	-.00066	.05502	.00021	373.58	.00021
#3	.12271	.05585	-.00054	.06580	.00099	366.38	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092501 Acquired: 3/28/2011 16:41:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.589**	**.29345**	F **-60.462**	**-.00322**	**-.00147**	**4.5854**	**-.00019**
Stddev	2.986	.04324	6.449	.00033	.00153	.1754	.00021
%RSD	23.722	14.736	10.667	10.145	104.52	3.8244	108.81
#1	9.1811	.28929	-57.612	-.00358	-.00027	4.5484	-.00012
#2	13.840	.33862	-67.845	-.00310	-.00093	4.4315	-.00003
#3	14.748	.25243	-55.928	-.00296	-.00320	4.7763	-.00042
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00314**	**.00052**	**.00317**	**.00226**	**.43765**
Stddev	.00005	.00050	.00078	.00007	.00199	.27725
%RSD	119.70	16.032	151.15	2.3520	88.441	63.350
#1	.00007	.00265	.00002	.00324	.00096	.46249
#2	-.00002	.00311	.00142	.00318	.00125	.14881
#3	.00008	.00366	.00011	.00309	.00455	.70164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51533.**	**58525.**
Stddev	779.	661.
%RSD	1.5121	1.1288
#1	51908.	59084.
#2	50637.	58695.
#3	52054.	57796.

Approved: March 29, 2011

Sample Name: L1103092502 Acquired: 3/28/2011 16:45:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**6.0539**	**.00140**	**.00124**	**.00954**	**.00010**	**.01064**
Stddev	.00060	.1330	.00063	.00067	.00037	.00001	.00329
%RSD	190.01	2.1965	45.334	53.736	3.8347	9.9891	30.943
#1	.00019	5.9159	.00181	.00136	.00949	.00010	.00996
#2	-.00098	6.1812	.00067	.00052	.00920	.00009	.00773
#3	-.00016	6.0646	.00171	.00185	.00993	.00011	.01421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00073**	**.00590**	**.00365**	**7.2515**	**.27785**	**-.00128**
Stddev	.00001	.00011	.00018	.00005	.2183	.02578	.00057
%RSD	10.187	15.710	2.9686	1.3321	3.0097	9.2782	44.226
#1	-.00011	.00065	.00569	.00359	7.1772	.28125	-.00192
#2	-.00013	.00067	.00599	.00366	7.0801	.25055	-.00106
#3	-.00011	.00086	.00601	.00368	7.4973	.30177	-.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19687**	**.02282**	**-.00046**	**.01032**	**.00264**	**411.54**	**.00335**
Stddev	.00536	.00074	.00014	.00506	.00018	7.95	.00101
%RSD	2.7251	3.2283	30.364	49.045	6.8678	1.9312	30.084
#1	.20305	.02253	-.00060	.01572	.00243	404.50	.00258
#2	.19340	.02228	-.00032	.00568	.00274	420.16	.00297
#3	.19415	.02366	-.00046	.00957	.00275	409.96	.00449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092502 Acquired: 3/28/2011 16:45:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **13.343**	**.47390**	F **-80.224**	**-.00380**	**-.00352**	**6.0566**	**-.00009**
Stddev	11.920	.03989	8.220	.00050	.00161	.1064	.00023
%RSD	89.333	8.4170	10.247	13.165	45.662	1.7560	246.53
#1	26.750	.42960	-77.361	-.00367	-.00245	5.9355	-.00024
#2	9.3350	.50696	-89.493	-.00435	-.00274	6.1348	.00017
#3	3.9437	.48515	-73.819	-.00338	-.00536	6.0995	-.00021
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.02129**	**.00202**	**.01472**	**.01182**	**2.4887**
Stddev	.00004	.00139	.00059	.00036	.00087	.1680
%RSD	10.016	6.5189	29.276	2.4143	7.3178	6.7509
#1	.00032	.02019	.00146	.01433	.01090	2.3353
#2	.00038	.02082	.00196	.01503	.01261	2.6682
#3	.00039	.02285	.00264	.01478	.01196	2.4625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50927.**	**59342.**
Stddev	874.	1342.
%RSD	1.7167	2.2613
#1	51937.	60439.
#2	50435.	59742.
#3	50411.	57846.

Approved: March 29, 2011

Sample Name: L1103092503 Acquired: 3/28/2011 16:49:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**4.6670**	**.00169**	**.00221**	**.00847**	**.00005**	**-.03309**
Stddev	.00042	.1216	.00111	.00077	.00020	.00001	.00461
%RSD	89.308	2.6050	65.617	34.788	2.3544	13.217	13.926
#1	-.00042	4.5691	.00112	.00288	.00830	.00005	-.02777
#2	-.00091	4.6289	.00296	.00238	.00869	.00005	-.03572
#3	-.00008	4.8031	.00098	.00137	.00843	.00004	-.03579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00148**	**.00536**	**.00380**	**8.7476**	**.31593**	**-.00336**
Stddev	.00002	.00014	.00013	.00017	.1745	.02459	.00098
%RSD	13.457	9.1905	2.4030	4.5577	1.9944	7.7834	29.234
#1	-.00013	.00143	.00546	.00393	8.6717	.32599	-.00419
#2	-.00014	.00137	.00522	.00387	8.9472	.33390	-.00362
#3	-.00017	.00163	.00540	.00360	8.6240	.28791	-.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22720**	**.07241**	**-.00045**	**.08021**	**.00221**	**608.28**	**.00237**
Stddev	.01072	.00152	.00003	.00279	.00035	8.56	.00018
%RSD	4.7205	2.0973	6.9832	3.4755	15.669	1.4070	7.5000
#1	.23783	.07075	-.00048	.08280	.00239	614.91	.00228
#2	.22739	.07372	-.00042	.07726	.00243	598.62	.00226
#3	.21638	.07278	-.00046	.08056	.00181	611.31	.00258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092503 Acquired: 3/28/2011 16:49:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-11.116**	**.46973**	F **-90.675**	**-.00361**	**-.00289**	**9.0951**	**-.00007**
Stddev	3.381	.05570	4.474	.00076	.00093	.4267	.00008
%RSD	30.410	11.857	4.9340	21.105	32.160	4.6917	109.27
#1	-9.3723	.41940	-90.289	-.00447	-.00318	8.6236	-.00016
#2	-15.013	.46022	-86.407	-.00301	-.00184	9.4547	-.00002
#3	-8.9639	.52958	-95.329	-.00335	-.00363	9.2069	-.00003
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.04296**	**.00143**	**.01578**	**.01064**	**2.1591**
Stddev	.00005	.00054	.00038	.00045	.00044	.1611
%RSD	25.324	1.2625	26.808	2.8672	4.1191	7.4618
#1	.00016	.04278	.00127	.01527	.01036	2.1761
#2	.00020	.04356	.00115	.01595	.01042	2.3111
#3	.00027	.04252	.00187	.01613	.01115	1.9902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51537.**	**56969.**
Stddev	869.	967.
%RSD	1.6867	1.6981
#1	52047.	56946.
#2	52030.	56014.
#3	50533.	57948.

Approved: March 29, 2011

Sample Name: L1103092504 Acquired: 3/28/2011 16:52:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**5.1545**	**.00123**	**.00078**	**.01115**	**.00005**	**-.03401**
Stddev	.00035	.2046	.00079	.00046	.00033	.00001	.00289
%RSD	76.372	3.9698	64.190	59.246	2.9811	21.428	8.4888
#1	-.00083	5.1775	.00115	.00025	.01085	.00004	-.03651
#2	-.00013	4.9393	.00205	.00098	.01151	.00006	-.03085
#3	-.00041	5.3466	.00048	.00111	.01110	.00004	-.03466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00157**	**.00228**	**.00300**	**6.9982**	**.22373**	**-.00103**
Stddev	.00005	.00012	.00022	.00027	.1523	.00688	.00082
%RSD	25.114	7.8960	9.6206	8.9730	2.1767	3.0748	79.027
#1	-.00013	.00152	.00250	.00301	6.8343	.21746	-.00198
#2	-.00022	.00147	.00206	.00273	7.1354	.22265	-.00054
#3	-.00019	.00171	.00227	.00327	7.0249	.23109	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19625**	**.05625**	**-.00060**	**-.00640**	**.00173**	**441.61**	**.00157**
Stddev	.00590	.00103	.00009	.00787	.00016	17.03	.00058
%RSD	3.0055	1.8290	15.768	122.97	9.4591	3.8559	36.712
#1	.19522	.05510	-.00064	-.01473	.00155	425.49	.00147
#2	.20259	.05656	-.00049	-.00536	.00186	439.91	.00219
#3	.19093	.05709	-.00067	.00090	.00179	459.42	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092504 Acquired: 3/28/2011 16:52:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-8.9365**	**.38957**	F **-81.955**	**-.00276**	**-.00282**	**5.2869**	**-.00002**
Stddev	12.473	.06191	6.361	.00097	.00049	.1370	.00003
%RSD	139.57	15.892	7.7619	35.034	17.484	2.5911	125.22
#1	-20.451	.39340	-79.067	-.00261	-.00280	5.1504	-.00004
#2	-10.672	.32583	-77.550	-.00188	-.00331	5.2860	.00001
#3	4.3135	.44948	-89.248	-.00379	-.00233	5.4243	-.00005
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.04128**	**.00171**	**.01366**	**.01169**	**1.1312**
Stddev	.00000	.00144	.00077	.00066	.00149	.1262
%RSD	2.2173	3.4818	45.100	4.8614	12.723	11.157
#1	.00017	.03966	.00128	.01327	.01093	1.2768
#2	.00016	.04240	.00259	.01327	.01074	1.0616
#3	.00016	.04178	.00125	.01442	.01340	1.0551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51139.**	**57110.**
Stddev	879.	598.
%RSD	1.7186	1.0463
#1	51686.	57146.
#2	51605.	56495.
#3	50125.	57688.

Approved: March 29, 2011

Sample Name: L1103092505 Acquired: 3/28/2011 16:56:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.01298**	**.00186**	**-.00254**	**-.00016**	**.00002**	**-.05026**
Stddev	.00023	.00263	.00088	.00050	.00006	.00001	.00266
%RSD	48.684	20.233	47.535	19.652	38.092	63.124	5.2909
#1	-.00062	-.01306	.00096	-.00219	-.00018	.00001	-.04783
#2	-.00020	-.01557	.00189	-.00311	-.00020	.00002	-.04985
#3	-.00057	-.01032	.00272	-.00233	-.00009	.00004	-.05310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00017**	**-.00001**	**.00009**	**.00076**	**.00498**	**-.00238**
Stddev	.00003	.00002	.00021	.00009	.00279	.00626	.00010
%RSD	12.680	10.746	2174.0	94.257	365.21	125.60	4.2301
#1	-.00023	.00019	.00023	.00017	.00271	.00433	-.00241
#2	-.00018	.00015	-.00012	.00012	.00201	.01154	-.00246
#3	-.00020	.00018	-.00015	.00000	-.00243	-.00092	-.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00246**	**-.00049**	**-.00054**	**-.01427**	**-.00039**	**43.353**	**-.00022**
Stddev	.01225	.00038	.00007	.00710	.00030	11.228	.00126
%RSD	498.00	78.368	13.065	49.714	75.892	25.899	584.70
#1	.00905	-.00006	-.00052	-.02158	-.00005	55.983	.00037
#2	-.01534	-.00060	-.00048	-.01382	-.00058	39.573	.00065
#3	-.00109	-.00081	-.00062	-.00741	-.00054	34.502	-.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092505 Acquired: 3/28/2011 16:56:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-15.250**	**.05682**	F **-20.581**	**-.00236**	**-.00344**	**-.62002**	**-.00031**
Stddev	4.940	.03527	4.868	.00139	.00039	.37756	.00011
%RSD	32.392	62.061	23.653	58.947	11.324	60.894	36.081
#1	-16.165	.05079	-25.000	-.00289	-.00370	-.96908	-.00033
#2	-19.669	.02496	-21.381	-.00342	-.00299	-.21929	-.00019
#3	-9.9171	.09472	-15.363	-.00078	-.00363	-.67169	-.00041
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00008**	**.00160**	**-.00023**	**.00316**	**.57771**
Stddev	.00004	.00001	.00045	.00027	.00052	.20584
%RSD	11.315	15.560	28.174	117.21	16.379	35.631
#1	-.00029	.00009	.00186	.00008	.00297	.61478
#2	-.00035	.00007	.00186	-.00036	.00277	.76251
#3	-.00034	.00007	.00108	-.00041	.00375	.35586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51232.**	**56384.**
Stddev	587.	346.
%RSD	1.1452	.61401
#1	51481.	56572.
#2	51654.	55985.
#3	50562.	56596.

Approved: March 29, 2011

Sample Name: L1103092506 Acquired: 3/28/2011 16:59:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**2.6839**	**.00221**	**.00649**	**.00303**	**.00021**	**-.01545**
Stddev	.00039	.0707	.00076	.00088	.00014	.00001	.00693
%RSD	95.142	2.6353	34.535	13.618	4.6594	2.6649	44.844
#1	-.00004	2.6230	.00220	.00721	.00318	.00021	-.00937
#2	-.00082	2.6674	.00145	.00551	.00301	.00020	-.01398
#3	-.00038	2.7615	.00298	.00676	.00290	.00021	-.02299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00414**	**-.00012**	**.00132**	**18.216**	**.10677**	**-.00101**
Stddev	.00005	.00023	.00017	.00058	.560	.00898	.00021
%RSD	53.048	5.5901	141.18	43.998	3.0737	8.4073	21.005
#1	-.00004	.00403	-.00031	.00095	18.797	.11553	-.00093
#2	-.00014	.00398	.00004	.00101	18.171	.09760	-.00125
#3	-.00010	.00440	-.00010	.00198	17.680	.10718	-.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06577**	**.11015**	**-.00060**	**-.00798**	**.00105**	**313.14**	**.00159**
Stddev	.00325	.00295	.00011	.01004	.00033	1.29	.00058
%RSD	4.9431	2.6780	18.448	125.92	31.831	.41182	36.321
#1	.06624	.11302	-.00066	-.01953	.00080	311.67	.00102
#2	.06231	.11029	-.00047	-.00304	.00143	314.10	.00217
#3	.06876	.10713	-.00067	-.00136	.00092	313.65	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092506 Acquired: 3/28/2011 16:59:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-9.5384**	**.37878**	F **-69.137**	**-.00323**	**-.00273**	**9.4094**	**.00001**
Stddev	10.551	.00688	6.127	.00060	.00174	.0976	.00013
%RSD	110.61	1.8170	8.8623	18.462	63.737	1.0375	2078.8
#1	-2.1511	.38604	-62.959	-.00262	-.00199	9.3326	.00010
#2	-21.622	.37794	-75.212	-.00326	-.00149	9.3764	-.00015
#3	-4.8422	.37235	-69.239	-.00381	-.00472	9.5193	.00007
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00095**	**.00158**	**.00191**	**.00567**	**1.1808**
Stddev	.00010	.00020	.00055	.00027	.00034	.0323
%RSD	42.519	21.230	34.989	14.232	5.9285	2.7331
#1	.00023	.00082	.00189	.00193	.00592	1.2159
#2	.00032	.00085	.00191	.00162	.00529	1.1523
#3	.00013	.00119	.00094	.00216	.00581	1.1742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**52981.**	**57393.**
Stddev	1022.	1491.
%RSD	1.9288	2.5978
#1	53293.	55862.
#2	53810.	57477.
#3	51839.	58840.

Approved: March 29, 2011

Sample Name: L1103092605 Acquired: 3/28/2011 17:03:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**3.1904**	**.00166**	**.00084**	**.00489**	**.00020**	**-.01914**
Stddev	.00019	.0400	.00088	.00034	.00012	.00002	.00463
%RSD	100.71	1.2541	52.809	40.423	2.5380	8.1535	24.175
#1	-.00002	3.1480	.00265	.00109	.00474	.00018	-.02396
#2	-.00015	3.1956	.00102	.00098	.00494	.00019	-.01874
#3	-.00038	3.2275	.00130	.00045	.00497	.00022	-.01473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00355**	**.00386**	**.00319**	**5.6150**	**.16699**	**.00014**
Stddev	.00007	.00019	.00028	.00023	.1989	.01943	.00079
%RSD	60.191	5.3368	7.3352	7.2175	3.5429	11.636	566.17
#1	-.00018	.00362	.00361	.00332	5.3963	.18888	-.00073
#2	-.00004	.00333	.00380	.00292	5.7853	.16032	.00082
#3	-.00011	.00369	.00417	.00333	5.6632	.15178	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11240**	**.06411**	**-.00041**	**.02560**	**.00284**	**411.48**	**.00083**
Stddev	.02298	.00244	.00008	.00581	.00013	11.24	.00098
%RSD	20.446	3.8120	19.447	22.686	4.3992	2.7313	118.53
#1	.08748	.06144	-.00048	.03226	.00294	398.94	-.00030
#2	.13276	.06624	-.00043	.02300	.00289	414.88	.00134
#3	.11697	.06464	-.00033	.02156	.00270	420.63	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092605 Acquired: 3/28/2011 17:03:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.7521**	**.27477**	F **-53.959**	**-.00196**	**-.00139**	**6.1765**	**-.00012**
Stddev	15.044	.03382	5.511	.00032	.00150	.2054	.00001
%RSD	154.27	12.308	10.214	16.430	107.93	3.3264	11.179
#1	24.077	.24357	-60.142	-.00184	-.00278	5.9921	-.00012
#2	11.101	.27005	-49.563	-.00232	-.00158	6.3980	-.00010
#3	-5.9209	.31071	-52.171	-.00170	.00020	6.1394	-.00013
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00325**	**.00200**	**.00356**	**.00583**	**2.0957**
Stddev	.00002	.00045	.00105	.00031	.00080	.2389
%RSD	6.6791	13.758	52.422	8.7298	13.674	11.400
#1	.00026	.00376	.00271	.00325	.00529	2.3699
#2	.00029	.00294	.00251	.00356	.00546	1.9855
#3	.00026	.00304	.00080	.00388	.00675	1.9319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51539.**	**58549.**
Stddev	565.	1313.
%RSD	1.0953	2.2419
#1	51945.	59987.
#2	51777.	58245.
#3	50894.	57415.

Approved: March 29, 2011

Sample Name: L1103092606 Acquired: 3/28/2011 17:07:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**6.0796**	**.00159**	**.00192**	**.00930**	**.00000**	**-.03310**
Stddev	.00026	.1288	.00058	.00072	.00051	.00003	.00344
%RSD	49.357	2.1186	36.509	37.421	5.4484	626.78	10.390
#1	.00026	6.1156	.00212	.00161	.00941	.00003	-.03471
#2	.00053	5.9367	.00097	.00274	.00974	.00001	-.03543
#3	.00077	6.1866	.00167	.00141	.00874	-.00003	-.02915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00139**	**.00384**	**.00405**	**8.4309**	**.28762**	**.00112**
Stddev	.00009	.00015	.00040	.00032	.3676	.02791	.00085
%RSD	78.246	10.844	10.386	7.9831	4.3604	9.7034	76.216
#1	-.00017	.00123	.00424	.00392	8.5612	.28023	.00146
#2	-.00016	.00139	.00344	.00381	8.7157	.31848	.00175
#3	-.00001	.00153	.00383	.00442	8.0159	.26415	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27901**	**.03836**	**-.00050**	**-.00231**	**.00256**	**358.93**	**.00380**
Stddev	.01568	.00150	.00003	.00673	.00013	19.34	.00023
%RSD	5.6209	3.9088	5.6896	291.89	4.9876	5.3878	6.0513
#1	.29398	.03896	-.00051	-.00379	.00267	363.11	.00406
#2	.28037	.03947	-.00051	-.00817	.00260	337.84	.00370
#3	.26270	.03666	-.00046	.00504	.00242	375.83	.00363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092606 Acquired: 3/28/2011 17:07:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.076**	**.36933**	F **-78.929**	**-.00320**	**-.00269**	**5.9282**	**.00009**
Stddev	7.045	.03801	6.169	.00215	.00223	.2925	.00015
%RSD	50.048	10.292	7.8157	67.130	82.816	4.9337	168.07
#1	14.321	.33962	-79.718	-.00559	-.00082	5.6319	-.00008
#2	20.995	.35620	-72.403	-.00259	-.00210	5.9360	.00021
#3	6.9120	.41216	-84.664	-.00143	-.00515	6.2167	.00013
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.06591**	**.00218**	**.01456**	**.01175**	**2.5890**
Stddev	.00005	.00302	.00093	.00040	.00062	.1710
%RSD	18.872	4.5853	42.846	2.7488	5.2624	6.6055
#1	.00033	.06756	.00118	.01458	.01136	2.7862
#2	.00028	.06775	.00302	.01415	.01247	2.4996
#3	.00022	.06243	.00233	.01495	.01143	2.4813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51753.**	**59178.**
Stddev	703.	1331.
%RSD	1.3591	2.2483
#1	52045.	58775.
#2	52263.	58095.
#3	50950.	60663.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 17:10:57 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37845**	**9.3006**	**.37356**	**.46790**	^F *****	**.04680**	**9.6266**
Stddev	.00599	.1486	.00435	.00806	-----	.00071	.2602
%RSD	1.5829	1.5974	1.1640	1.7219	-----	1.5141	2.7033
#1	.37452	9.1868	.37010	.46161	^ -----	.04609	9.8933
#2	.37549	9.2463	.37215	.46511	.94419	.04682	9.3734
#3	.38534	9.4687	.37844	.47698	.97282	.04750	9.6130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					1.0000		
Range					-10.000%		

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.04666**	**.18900**	**.47346**	**.47211**	**3.7814**	**47.495**	**.95717**
Stddev	.00060	.00203	.00856	.00563	.0848	1.147	.02492
%RSD	1.2814	1.0726	1.8089	1.1922	2.2418	2.4148	2.6031
#1	k .04602	.18688	.46550	.46583	3.8540	48.561	.98175
#2	.04676	.18921	.47236	.47378	3.6883	46.281	.93193
#3	.04721	.19092	.48252	.47671	3.8019	47.643	.95782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3384**	**.47084**	**.93245**	^F *****	**.47280**	F **7.9844**	**.47419**
Stddev	.1783	.01186	.01241	-----	.00626	7.0939	.00450
%RSD	1.9091	2.5181	1.3314	-----	1.3243	88.847	.94867
#1	9.4573	.48228	.91976	^ -----	.46631	16.080	.47014
#2	9.1334	.45860	.93301	46.840	.47329	5.0199	.47340
#3	9.4245	.47164	.94457	48.236	.47880	2.8536	.47904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value				50.000		10.000	
Range				-10.000%		-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 17:10:57 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **18.567**	**9.5761**	F **12.719**	**1.1299**	**.37553**	**4.8038**	**.93731**
Stddev	8.448	.1358	3.919	.0122	.00441	.0712	.01033
%RSD	45.498	1.4184	30.815	1.0792	1.1755	1.4822	1.1026
#1	23.912	9.4314	11.382	1.1190	.37094	4.7226	.92685
#2	8.8280	9.5960	17.132	1.1277	.37591	4.8553	.93756
#3	22.961	9.7009	9.6429	1.1431	.37975	4.8336	.94751
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^F *****	**.94674**	**.47935**	**.94736**	**.94326**	F **4.6434**
Stddev	-----	.02391	.00725	.01567	.01036	.1984
%RSD	-----	2.5260	1.5118	1.6545	1.0983	4.2723
#1	^ -----	.96853	.47327	.93374	.93277	4.4449
#2	.93607	.92116	.47740	.94385	.94355	4.6436
#3	.96595	.95053	.48737	.96449	.95348	4.8417
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value	1.0000					1.0000
Range	-10.000%					10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50289.**	**57400.**
Stddev	313.	796.
%RSD	.62183	1.3869
#1	50607.	56653.
#2	50278.	58238.
#3	49982.	57310.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 17:14:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00124**	**.00013**	**.00112**	**-.00012**	**.00002**	**-.00729**
Stddev	.00031	.00382	.00054	.00054	.00009	.00003	.00176
%RSD	650.02	308.15	413.64	47.935	79.210	155.80	24.133
#1	.00040	.00027	-.00041	.00088	-.00003	-.00001	-.00713
#2	-.00006	-.00558	.00067	.00075	-.00010	.00004	-.00913
#3	-.00020	.00159	.00013	.00174	-.00021	.00001	-.00562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00002**	**.00040**	**-.00034**	**.00210**	**.04937**	**-.00064**
Stddev	.00006	.00008	.00013	.00038	.00011	.00478	.00070
%RSD	882.17	508.64	31.430	111.67	5.2030	9.6823	110.48
#1	-.00007	.00010	.00054	-.00058	.00210	.04877	.00008
#2	.00006	.00000	.00031	.00010	.00221	.05442	-.00132
#3	-.00001	-.00005	.00035	-.00054	.00200	.04492	-.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00596**	**-.00016**	**-.00005**	**.00704**	**.00021**	F **.92234**	**.00041**
Stddev	.00589	.00013	.00011	.00541	.00016	3.7156	.00123
%RSD	98.794	81.349	192.82	76.866	74.567	402.84	297.56
#1	.00026	-.00003	.00007	.00090	.00040	-2.5621	-.00002
#2	-.00668	-.00017	-.00011	.01109	.00015	4.8324	.00179
#3	-.01145	-.00029	-.00012	.00911	.00009	.49670	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 17:14:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.793**	F **.01730**	F **3.5315**	**-.00126**	**-.00119**	**-.33915**	**-.00025**
Stddev	4.011	.02611	11.922	.00071	.00089	.28567	.00010
%RSD	31.353	150.95	337.60	56.900	74.785	84.231	39.680
#1	16.370	.00266	3.7468	-.00048	-.00221	-.60087	-.00015
#2	8.4567	.00179	15.345	-.00188	-.00067	-.38218	-.00026
#3	13.552	.04745	-8.4970	-.00141	-.00068	-.03441	-.00034
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00088**	**.00091**	**-.00036**	**.00080**	F **.41191**
Stddev	.00010	.00053	.00098	.00019	.00025	.03775
%RSD	1873.1	60.323	108.26	53.293	31.714	9.1654
#1	.00011	.00029	.00192	-.00045	.00102	.38876
#2	-.00004	.00130	-.00003	-.00014	.00052	.45548
#3	-.00009	.00104	.00083	-.00050	.00086	.39151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50266.**	**58251.**
Stddev	1116.	1952.
%RSD	2.2203	3.3512
#1	49484.	56108.
#2	51544.	58717.
#3	49769.	59928.

Approved: March 29, 2011

Sample Name: L1103082327 Acquired: 3/28/2011 17:18:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00254**	**211.83**	**.09560**	**.14897**	**2.0496**	**.01475**	**30.179**
Stddev	.00047	1.00	.00168	.00108	.0086	.00009	.083
%RSD	18.581	.47234	1.7568	.72629	.41786	.63670	.27642
#1	.00304	210.69	.09370	.14775	2.0456	.01464	30.113
#2	.00249	212.52	.09621	.14934	2.0438	.01482	30.153
#3	.00210	212.29	.09689	.14981	2.0595	.01479	30.273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00401**	**.13647**	**.30994**	**.09091**	**284.20**	**17.609**	**.14402**
Stddev	.00003	.00134	.00164	.00106	1.98	.030	.00058
%RSD	.75162	.98077	.52942	1.1700	.69778	.16846	.40140
#1	.00399	.13495	.30878	.08968	282.20	17.579	.14411
#2	.00400	.13748	.30923	.09149	284.25	17.610	.14340
#3	.00405	.13697	.31182	.09155	286.16	17.639	.14454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.268**	**7.0449**	**.01047**	**3.5164**	**.12035**	F **16006.**	**.26649**
Stddev	.181	.0362	.00006	.0064	.00130	113.	.00384
%RSD	.99167	.51339	.58055	.18126	1.0834	.70815	1.4409
#1	18.072	7.0090	.01045	3.5211	.11886	15876.	.26218
#2	18.303	7.0443	.01054	3.5091	.12087	16083.	.26772
#3	18.429	7.0814	.01042	3.5189	.12131	16059.	.26956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082327 Acquired: 3/28/2011 17:18:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.514**	F **133.30**	F **-19540.**	**-.00034**	**.00739**	F **506.31**	**.01151**
Stddev	3.020	2.13	133.	.00217	.00241	2.82	.00026
%RSD	4.9098	1.5999	.68083	640.77	32.640	.55641	2.2258
#1	62.799	131.14	-19387.	-.00076	.00643	504.76	.01122
#2	58.064	133.36	-19615.	-.00227	.00561	504.61	.01164
#3	63.679	135.41	-19619.	.00201	.01013	509.57	.01168
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24494**	**.26892**	**.01129**	**.55126**	**.35938**	F **313.73**
Stddev	.00049	.00138	.00105	.00353	.00327	1.85
%RSD	.19892	.51192	9.2880	.64110	.91039	.59046
#1	.24484	.26757	.01014	.54722	.35560	311.70
#2	.24451	.26885	.01153	.55281	.36119	314.15
#3	.24547	.27032	.01219	.55375	.36135	315.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48315.**	**59060.**
Stddev	176.	108.
%RSD	.36338	.18272
#1	48491.	59182.
#2	48140.	58977.
#3	48316.	59022.

Approved: March 29, 2011

Sample Name: L1103082328 Acquired: 3/28/2011 17:21:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00381**	**111.72**	**.06790**	**.10947**	**1.1830**	**.00749**	**52.616**
Stddev	.00019	3.87	.00499	.00079	.0058	.00033	.270
%RSD	4.8918	3.4618	7.3560	.72242	.49046	4.3973	.51281
#1	.00391	114.13	.06985	.10896	1.1769	.00771	52.354
#2	.00393	113.77	.07162	.10906	1.1834	.00764	52.600
#3	.00359	107.26	.06222	.11038	1.1885	.00711	52.893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00511**	**.08030**	**.22321**	**.09948**	**171.92**	**19.314**	**.08751**
Stddev	.00024	.00470	.00974	.00682	1.14	.072	.00135
%RSD	4.7044	5.8498	4.3625	6.8552	.66205	.37346	1.5455
#1	.00529	.08302	.22834	.10290	171.15	19.236	.08602
#2	.00522	.08300	.22931	.10391	171.39	19.328	.08784
#3	.00484	.07487	.21198	.09162	173.23	19.378	.08866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.544**	**6.0526**	**.00793**	**.99207**	**.08420**	F **54041.**	**.20757**
Stddev	.126	.0485	.00047	.00736	.00521	3309.	.01243
%RSD	.86681	.80167	5.9069	.74187	6.1893	6.1237	5.9888
#1	14.490	6.0119	.00796	.98540	.08767	56019.	.21530
#2	14.454	6.0395	.00838	.99085	.08673	55884.	.21417
#3	14.688	6.1063	.00745	.99996	.07821	50220.	.19323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082328 Acquired: 3/28/2011 17:21:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.112**	F **177.75**	F **-24260.**	**.00051**	**.00805**	F **497.83**	**.00790**
Stddev	8.178	11.36	1483.	.00062	.00031	35.19	.00062
%RSD	13.382	6.3902	6.1127	122.82	3.8095	7.0692	7.8051
#1	51.919	184.33	-25137.	.00115	.00823	521.84	.00848
#2	63.842	184.29	-25095.	.00046	.00822	514.21	.00796
#3	67.576	164.63	-22548.	-.00009	.00769	457.43	.00725
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29319**	**.41913**	**.00676**	**.37387**	**.61720**	F **186.50**
Stddev	.00154	.00231	.00100	.01663	.03181	7.69
%RSD	.52463	.55053	14.804	4.4479	5.1532	4.1216
#1	.29145	.41672	.00696	.38377	.63598	190.32
#2	.29376	.41936	.00567	.38318	.63515	191.53
#3	.29437	.42131	.00765	.35468	.58048	177.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48394.**	**59273.**
Stddev	2191.	275.
%RSD	4.5281	.46327
#1	47038.	59119.
#2	47223.	59590.
#3	50922.	59109.

Approved: March 29, 2011

Sample Name: L1103082329 Acquired: 3/28/2011 17:25:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00264**	**166.78**	**.07908**	**.11496**	**1.8026**	**.01140**	**24.016**
Stddev	.00001	.49	.00048	.00041	.0060	.00005	.037
%RSD	.27998	.29090	.60275	.35395	.33450	.42536	.15514
#1	.00265	166.82	.07853	.11541	1.8086	.01136	24.042
#2	.00263	167.25	.07931	.11486	1.7965	.01145	23.973
#3	.00264	166.28	.07939	.11462	1.8028	.01140	24.032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00429**	**.08680**	**.26912**	**.09707**	**216.80**	**15.788**	**.12354**
Stddev	.00022	.00059	.00127	.00061	.70	.022	.00114
%RSD	5.1377	.68327	.47194	.63294	.32067	.14129	.92236
#1	.00455	.08717	.26765	.09736	217.48	15.809	.12280
#2	.00416	.08710	.26987	.09748	216.10	15.764	.12296
#3	.00418	.08611	.26984	.09636	216.83	15.790	.12485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.025**	**6.6357**	**.00937**	**1.0733**	**.10270**	F **16295.**	**.21474**
Stddev	.042	.0199	.00013	.0016	.00120	46.	.00150
%RSD	.27855	.30072	1.4173	.14737	1.1728	.28030	.69836
#1	15.033	6.6553	.00934	1.0722	.10322	16335.	.21419
#2	14.980	6.6154	.00925	1.0751	.10356	16304.	.21644
#3	15.062	6.6363	.00951	1.0726	.10132	16245.	.21360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082329 Acquired: 3/28/2011 17:25:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **72.639**	F **101.70**	F **-14618.**	**.00034**	**.01031**	F **510.70**	**.01023**
Stddev	6.041	.67	44.	.00027	.00193	3.10	.00036
%RSD	8.3170	.65764	.30262	78.866	18.691	.60763	3.5191
#1	71.612	102.07	-14610.	.00060	.01253	510.95	.01064
#2	67.177	102.10	-14665.	.00038	.00923	513.66	.01006
#3	79.128	100.93	-14578.	.00006	.00916	507.47	.00998
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20532**	**.35757**	**.00841**	**.45094**	**.40116**	F **264.56**
Stddev	.00035	.00050	.00062	.00153	.00298	.67
%RSD	.17174	.13975	7.3611	.33988	.74363	.25290
#1	.20528	.35815	.00868	.44989	.40041	264.00
#2	.20500	.35726	.00885	.45270	.40445	265.30
#3	.20570	.35731	.00770	.45024	.39863	264.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48437.**	**60690.**
Stddev	139.	299.
%RSD	.28692	.49341
#1	48402.	60354.
#2	48318.	60928.
#3	48590.	60788.

Approved: March 29, 2011

Sample Name: L1103082330 Acquired: 3/28/2011 17:28:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00508**	**170.97**	**.11430**	**.16495**	**1.9194**	**.01340**	**45.320**
Stddev	.00022	.29	.00086	.00159	.0094	.00001	.288
%RSD	4.2398	.16692	.75351	.96305	.48769	.07107	.63563
#1	.00484	171.30	.11472	.16665	1.9291	.01339	45.652
#2	.00523	170.82	.11488	.16350	1.9186	.01341	45.168
#3	.00518	170.80	.11331	.16472	1.9105	.01340	45.140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00599**	**.18865**	**.32677**	**.11577**	**313.79**	**14.430**	**.11040**
Stddev	.00007	.00037	.00101	.00019	.97	.067	.00096
%RSD	1.0964	.19427	.31035	.16677	.30829	.46470	.86819
#1	.00598	.18881	.32561	.11596	314.88	14.508	.11021
#2	.00593	.18891	.32722	.11579	313.02	14.396	.11143
#3	.00606	.18823	.32749	.11557	313.47	14.388	.10954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.148**	**11.611**	**.01454**	**1.1677**	**.11929**	F **27471.**	**.33988**
Stddev	.085	.052	.00011	.0148	.00066	24.	.00170
%RSD	.52370	.45172	.73978	1.2637	.55616	.08745	.49879
#1	16.184	11.664	.01465	1.1838	.11913	27465.	.33961
#2	16.052	11.559	.01454	1.1549	.11872	27498.	.34169
#3	16.210	11.609	.01444	1.1643	.12002	27451.	.33833
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082330 Acquired: 3/28/2011 17:28:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **74.655**	F **154.25**	F **-20400.**	**.00231**	**.01221**	F **548.29**	**.01176**
Stddev	5.779	.70	27.	.00147	.00212	3.48	.00042
%RSD	7.7415	.45302	.13183	63.848	17.395	.63481	3.5373
#1	72.025	154.85	-20422.	.00396	.01433	551.47	.01224
#2	81.282	154.41	-20407.	.00111	.01222	548.83	.01152
#3	70.659	153.48	-20370.	.00186	.01008	544.57	.01152
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28797**	**.34480**	**.01177**	**.59157**	**.54109**	F **243.40**
Stddev	.00158	.00257	.00231	.00083	.00110	.72
%RSD	.54790	.74465	19.593	.13965	.20417	.29449
#1	.28974	.34759	.00911	.59067	.53982	244.22
#2	.28747	.34429	.01307	.59231	.54161	243.10
#3	.28670	.34253	.01313	.59172	.54183	242.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47349.**	**61337.**
Stddev	91.	416.
%RSD	.19212	.67846
#1	47244.	60992.
#2	47393.	61799.
#3	47409.	61219.

Approved: March 29, 2011

Sample Name: L1103082331 Acquired: 3/28/2011 17:32:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00592**	**252.51**	**.12021**	**.18829**	**1.8213**	**.01598**	**25.830**
Stddev	.00046	.77	.00209	.00108	.0069	.00006	.156
%RSD	7.7380	.30367	1.7346	.57381	.38106	.38223	.60385
#1	.00544	252.73	.11912	.18712	1.8140	.01598	25.664
#2	.00636	251.66	.11890	.18848	1.8222	.01591	25.852
#3	.00597	253.15	.12262	.18926	1.8278	.01604	25.974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00457**	**.25465**	**.41759**	**.10619**	**361.28**	**15.194**	**.17164**
Stddev	.00009	.00067	.00222	.00080	.81	.092	.00138
%RSD	1.9060	.26236	.53220	.74968	.22296	.60599	.80324
#1	.00451	.25391	.41503	.10537	360.48	15.116	.17025
#2	.00467	.25520	.41881	.10696	361.27	15.171	.17167
#3	.00453	.25483	.41894	.10624	362.09	15.296	.17301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.729**	**11.248**	**.01542**	**2.9932**	**.14211**	F **16844.**	**.33972**
Stddev	.039	.040	.00021	.0227	.00026	51.	.00105
%RSD	.19651	.35273	1.3543	.75742	.18013	.30164	.30974
#1	19.690	11.207	.01555	2.9698	.14222	16786.	.33865
#2	19.768	11.252	.01554	2.9947	.14230	16874.	.33975
#3	19.728	11.286	.01518	3.0151	.14182	16874.	.34075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082331 Acquired: 3/28/2011 17:32:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **83.678**	F **110.98**	F **-15837.**	**.00133**	**.01489**	F **611.93**	**.01296**
Stddev	5.553	.42	21.	.00133	.00124	2.29	.00009
%RSD	6.6356	.37663	.13439	100.19	8.3420	.37418	.69982
#1	78.846	110.52	-15813.	.00260	.01426	614.51	.01306
#2	82.445	111.34	-15850.	-.00005	.01632	611.16	.01289
#3	89.743	111.08	-15849.	.00144	.01408	610.12	.01293
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22592**	**.46651**	**.01674**	**.69136**	**.39076**	F **341.37**
Stddev	.00151	.00238	.00150	.00218	.00139	2.91
%RSD	.66986	.51032	8.9876	.31593	.35646	.85309
#1	.22432	.46377	.01606	.68898	.38916	339.04
#2	.22613	.46770	.01846	.69180	.39149	340.44
#3	.22732	.46805	.01569	.69328	.39165	344.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48424.**	**62621.**
Stddev	88.	280.
%RSD	.18196	.44691
#1	48514.	62303.
#2	48419.	62829.
#3	48338.	62730.

Approved: March 29, 2011

Sample Name: L1103082332 Acquired: 3/28/2011 17:35:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00697**	**234.38**	**.12601**	**.19847**	**1.9659**	**.01378**	**36.242**
Stddev	.00097	2.04	.00214	.00079	.0030	.00005	.159
%RSD	13.866	.87235	1.6965	.39621	.15188	.38213	.43829
#1	.00585	233.77	.12834	.19937	1.9693	.01384	36.383
#2	.00758	232.70	.12553	.19815	1.9640	.01376	36.273
#3	.00746	236.66	.12415	.19789	1.9642	.01374	36.070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00662**	**.30049**	**.43257**	**.11588**	**358.82**	**18.407**	**.17593**
Stddev	.00002	.00031	.00235	.00064	1.02	.082	.00055
%RSD	.27366	.10315	.54267	.55252	.28404	.44462	.31153
#1	.00663	.30047	.43035	.11613	359.99	18.480	.17610
#2	.00660	.30019	.43233	.11516	358.16	18.422	.17636
#3	.00662	.30081	.43503	.11637	358.30	18.318	.17531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.885**	**16.136**	**.01662**	**1.8635**	**.15518**	F **21900.**	**.47196**
Stddev	.064	.087	.00031	.0109	.00065	100.	.00167
%RSD	.34090	.53875	1.8930	.58429	.42152	.45435	.35485
#1	18.960	16.225	.01657	1.8720	.15564	22001.	.47346
#2	18.848	16.132	.01695	1.8673	.15443	21802.	.47225
#3	18.848	16.051	.01633	1.8512	.15546	21896.	.47015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082332 Acquired: 3/28/2011 17:35:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **78.875**	F **111.97**	F **-14008.**	**.00356**	**.01693**	F **689.74**	**.01384**
Stddev	3.164	.69	38.	.00056	.00109	1.19	.00029
%RSD	4.0119	.62038	.27469	15.725	6.4296	.17324	2.0906
#1	75.496	112.49	-14051.	.00412	.01814	689.83	.01351
#2	81.769	111.18	-13976.	.00299	.01601	688.50	.01405
#3	79.360	112.22	-13999.	.00358	.01665	690.88	.01396
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27853**	**.65654**	**.01562**	**.70552**	**.65117**	F **286.58**
Stddev	.00092	.00166	.00148	.00196	.00418	1.39
%RSD	.32929	.25211	9.4962	.27733	.64172	.48621
#1	.27904	.65845	.01640	.70335	.64946	285.49
#2	.27908	.65547	.01391	.70608	.65593	286.10
#3	.27747	.65571	.01655	.70714	.64811	288.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47723.**	**60938.**
Stddev	50.	711.
%RSD	.10520	1.1671
#1	47671.	60159.
#2	47772.	61102.
#3	47726.	61552.

Approved: March 29, 2011

Sample Name: L1103082333 Acquired: 3/28/2011 17:39:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00631**	**262.36**	**.17335**	**.22709**	**1.7807**	**.01925**	**25.515**
Stddev	.00044	.07	.00089	.00388	.0042	.00002	.087
%RSD	6.9950	.02717	.51380	1.7075	.23386	.12498	.34155
#1	.00601	262.40	.17437	.22707	1.7766	.01922	25.427
#2	.00611	262.41	.17294	.22322	1.7849	.01927	25.601
#3	.00682	262.28	.17274	.23097	1.7805	.01925	25.518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00556**	**.35377**	**.46627**	**.11899**	**464.70**	**12.148**	**.16201**
Stddev	.00013	.00084	.00097	.00092	4.75	.011	.00100
%RSD	2.3811	.23855	.20754	.77538	1.0231	.08894	.61765
#1	.00541	.35470	.46523	.11990	462.92	12.136	.16106
#2	.00558	.35358	.46643	.11900	461.10	12.158	.16306
#3	.00567	.35304	.46714	.11806	470.09	12.150	.16191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.305**	**15.055**	**.02075**	**3.7631**	**.16567**	F **16024.**	**.52494**
Stddev	.138	.078	.00009	.0080	.00072	49.	.00201
%RSD	.67926	.52093	.44797	.21254	.43595	.30621	.38235
#1	20.169	14.965	.02078	3.7561	.16633	16064.	.52415
#2	20.301	15.110	.02083	3.7718	.16579	15969.	.52344
#3	20.444	15.090	.02065	3.7615	.16490	16039.	.52722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082333 Acquired: 3/28/2011 17:39:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **79.463**	F **129.10**	F **-18704.**	**.00021**	**.01857**	F **597.30**	**.01413**
Stddev	5.522	.67	48.	.00202	.00224	2.41	.00017
%RSD	6.9491	.51988	.25645	951.73	12.048	.40297	1.1779
#1	80.420	129.87	-18760.	-.00165	.02114	597.45	.01394
#2	84.444	128.79	-18677.	-.00008	.01749	594.82	.01421
#3	73.525	128.64	-18676.	.00237	.01707	599.63	.01424
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22075**	**.34362**	**.02047**	**.85048**	**.41243**	F **356.39**
Stddev	.00058	.00106	.00283	.00049	.00027	1.31
%RSD	.26432	.30781	13.852	.05711	.06475	.36737
#1	.22010	.34283	.02357	.85007	.41259	356.24
#2	.22123	.34321	.01802	.85102	.41258	355.17
#3	.22092	.34482	.01980	.85035	.41213	357.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47525.**	**61719.**
Stddev	86.	90.
%RSD	.18110	.14628
#1	47429.	61776.
#2	47595.	61765.
#3	47551.	61615.

Approved: March 29, 2011

Sample Name: L1103082334 Acquired: 3/28/2011 17:43:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00426**	**151.98**	**.09587**	**.13961**	**1.1905**	**.01048**	**191.94**
Stddev	.00042	.72	.00035	.00072	.0018	.00002	.72
%RSD	9.8841	.47472	.36214	.51608	.15045	.14805	.37701
#1	.00474	152.79	.09601	.14035	1.1900	.01048	192.33
#2	.00401	151.74	.09613	.13891	1.1890	.01050	191.11
#3	.00402	151.41	.09548	.13955	1.1925	.01047	192.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00562**	**.17290**	**.26522**	**.29858**	**240.70**	**14.610**	**.09286**
Stddev	.00006	.00039	.00110	.00084	.83	.025	.00091
%RSD	1.0754	.22321	.41347	.28234	.34497	.17452	.98473
#1	.00555	.17247	.26472	.29835	240.95	14.626	.09197
#2	.00567	.17306	.26647	.29787	239.77	14.580	.09380
#3	.00564	.17319	.26446	.29951	241.37	14.623	.09280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.872**	**8.5477**	**.01597**	**.78343**	**.11490**	F **33628.**	**.33217**
Stddev	.099	.0458	.00011	.00816	.00022	42.	.00160
%RSD	.52375	.53581	.66621	1.0418	.19162	.12444	.48304
#1	18.953	8.5680	.01609	.79272	.11474	33602.	.33136
#2	18.762	8.4952	.01588	.77742	.11481	33605.	.33402
#3	18.900	8.5797	.01595	.78016	.11515	33676.	.33113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082334 Acquired: 3/28/2011 17:43:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.180**	F **391.56**	F **-38105.**	**.00318**	**.01499**	F **502.55**	**.01192**
Stddev	4.221	1.29	49.	.00022	.00385	1.63	.00023
%RSD	6.8986	.33064	.12871	6.9074	25.659	.32454	1.9355
#1	64.626	390.78	-38052.	.00293	.01249	503.97	.01218
#2	56.472	390.85	-38116.	.00332	.01942	502.90	.01184
#3	62.442	393.06	-38148.	.00329	.01306	500.77	.01174
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96162**	**.30415**	**.00862**	**.47180**	**.79886**	F **220.64**
Stddev	.00308	.00141	.00058	.00124	.00198	.87
%RSD	.32006	.46508	6.7171	.26257	.24785	.39297
#1	.96370	.30409	.00799	.47040	.79665	220.75
#2	.95808	.30277	.00913	.47275	.80048	219.72
#3	.96307	.30560	.00875	.47224	.79946	221.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45883.**	**59436.**
Stddev	62.	547.
%RSD	.13484	.92074
#1	45812.	58910.
#2	45920.	60002.
#3	45918.	59397.

Approved: March 29, 2011

Sample Name: L1103082335 Acquired: 3/28/2011 17:46:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00697**	**211.86**	**.13709**	**.18999**	**1.6333**	**.01587**	**49.621**
Stddev	.00036	1.66	.00065	.00128	.0044	.00006	.089
%RSD	5.2000	.78131	.47758	.67338	.26781	.38478	.18021
#1	.00658	212.85	.13724	.19138	1.6285	.01581	49.527
#2	.00729	212.79	.13765	.18888	1.6344	.01593	49.705
#3	.00705	209.95	.13637	.18970	1.6370	.01588	49.633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00654**	**.27114**	**.42695**	**.10596**	**381.14**	**10.062**	**.12838**
Stddev	.00003	.00104	.00137	.00173	1.20	.038	.00157
%RSD	.48673	.38181	.32124	1.6290	.31610	.37645	1.2245
#1	.00655	.27109	.42559	.10544	380.48	10.025	.12739
#2	.00650	.27221	.42834	.10789	380.41	10.101	.13019
#3	.00657	.27014	.42692	.10456	382.53	10.061	.12756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.912**	**15.840**	**.01774**	**1.6257**	**.12827**	F **16727.**	**.53055**
Stddev	.058	.051	.00020	.0094	.00078	63.	.00354
%RSD	.32492	.32399	1.1182	.57680	.60986	.37617	.66754
#1	17.845	15.785	.01788	1.6187	.12881	16735.	.52787
#2	17.947	15.886	.01752	1.6364	.12863	16786.	.53456
#3	17.945	15.850	.01783	1.6222	.12738	16661.	.52921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082335 Acquired: 3/28/2011 17:46:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **74.225**	F **114.16**	F **-11956.**	**.00312**	**.01702**	F **714.36**	**.01384**
Stddev	3.139	.87	59.	.00262	.00268	5.28	.00014
%RSD	4.2286	.76129	.49301	83.900	15.761	.73888	.99346
#1	77.828	114.35	-11955.	.00158	.01400	717.79	.01400
#2	72.756	114.91	-12016.	.00615	.01796	717.01	.01376
#3	72.090	113.21	-11898.	.00164	.01912	708.28	.01376
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33593**	**.37597**	**.01722**	**.75480**	**.56643**	F **316.72**
Stddev	.00081	.00072	.00145	.00521	.00165	1.43
%RSD	.24076	.19136	8.4462	.69089	.29154	.45240
#1	.33531	.37554	.01637	.74940	.56832	317.93
#2	.33684	.37556	.01890	.75981	.56532	317.09
#3	.33562	.37680	.01639	.75517	.56563	315.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47180.**	**60684.**
Stddev	149.	174.
%RSD	.31537	.28712
#1	47120.	60487.
#2	47071.	60745.
#3	47350.	60819.

Approved: March 29, 2011

Sample Name: L1103092101 Acquired: 3/28/2011 17:50:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00523**	**35.241**	**.06761**	**.17784**	**4.5494**	**.00169**
Stddev	.00042	.242	.00139	.00102	.0116	.00002
%RSD	8.0770	.68752	2.0576	.57467	.25506	1.0694
#1	.00549	35.475	.06612	.17686	4.5490	.00167
#2	.00474	35.257	.06887	.17890	4.5612	.00171
#3	.00546	34.992	.06785	.17777	4.5380	.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1568.0**	**.03000**	**.16450**	**.06639**	**.13297**	**112.02**
Stddev	5.3	.00021	.00133	.00090	.00109	.64
%RSD	.33847	.70063	.80588	1.3554	.81651	.57052
#1	1572.8	.03019	.16550	.06742	.13419	111.36
#2	1568.8	.03003	.16500	.06594	.13263	112.08
#3	1562.3	.02977	.16300	.06579	.13210	112.63
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.5135**	**.25800**	**305.08**	**3.3954**	**.01359**	**3.8907**
Stddev	.0439	.00091	1.99	.0297	.00018	.0181
%RSD	.97201	.35416	.65269	.87572	1.2960	.46511
#1	4.4634	.25695	302.86	3.3659	.01378	3.8777
#2	4.5448	.25845	305.69	3.3951	.01343	3.8830
#3	4.5325	.25861	306.70	3.4254	.01356	3.9113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 29, 2011

Sample Name: L1103092101 Acquired: 3/28/2011 17:50:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09178**	F **241650.**	**6.6949**	F **44.435**	F **20000.**	F **-4131e3**
Stddev	.00109	2207.	.0511	7.545	1295.	16016.
%RSD	1.1912	.91325	.76293	16.981	6.4737	.38768
#1	.09292	243660.	6.7318	48.715	18506.	-4148e3
#2	.09167	242010.	6.7163	48.866	20802.	-4131e3
#3	.09074	239290.	6.6366	35.722	20691.	-4116e3
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00339**	**.00258**	F **825.07**	**.01260**	F **13.653**	**1.0465**
Stddev	.00044	.00233	9.12	.00037	.160	.0027
%RSD	12.997	90.399	1.1057	2.9497	1.1743	.25332
#1	.00307	.00462	834.57	.01298	13.488	1.0440
#2	.00320	.00004	824.25	.01256	13.663	1.0463
#3	.00389	.00307	816.38	.01224	13.809	1.0493
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit			90.000		4.5000	
Low Limit			-1.0000		-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**-.00181**	**.08577**	F **62.584**	F **67.371**
Stddev	.00140	.00029	.760	.339
%RSD	77.372	.34162	1.2150	.50281
#1	-.00136	.08593	63.411	67.699
#2	-.00337	.08595	62.425	67.391
#3	-.00069	.08543	61.916	67.022
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit			45.000	45.000
Low Limit			-.01000	-.00400

Approved: March 29, 2011

Sample Name: L1103092101 Acquired: 3/28/2011 17:50:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45291.**	**58890.**
Stddev	352.	45.
%RSD	.77681	.07620
#1	44965.	58940.
#2	45245.	58875.
#3	45664.	58854.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 17:54:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41056**	**9.9699**	**.40232**	**.50241**	**1.0011**	**.05039**	**9.9446**
Stddev	.00181	.0326	.00124	.00134	.0109	.00021	.0901
%RSD	.44185	.32702	.30841	.26618	1.0880	.40870	.90633
#1	.40854	9.9422	.40353	.50102	.98889	.05023	9.8522
#2	.41109	10.006	.40239	.50368	1.0048	.05032	9.9492
#3	.41205	9.9616	.40105	.50254	1.0097	.05062	10.032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05024**	**.20321**	**.50768**	**.50803**	**3.8955**	**49.067**	**.98792**
Stddev	.00006	.00065	.00232	.00096	.0340	.411	.01142
%RSD	.12487	.31962	.45752	.18919	.87291	.83844	1.1556
#1	.05018	.20283	.50718	.50776	3.8562	48.637	.97519
#2	.05030	.20285	.50564	.50724	3.9150	49.108	.99132
#3	.05024	.20396	.51021	.50910	3.9153	49.457	.99726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6855**	**.48310**	**.99570**	**49.642**	**.50506**	F **7.0725**	**.50188**
Stddev	.0413	.00452	.00156	.503	.00174	7.2378	.00098
%RSD	.42686	.93583	.15671	1.0125	.34505	102.34	.19554
#1	9.6397	.47851	.99498	49.130	.50305	2.4704	.50187
#2	9.6966	.48325	.99749	49.662	.50619	15.415	.50090
#3	9.7201	.48754	.99463	50.134	.50593	3.3319	.50287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 17:54:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **28.924**	**10.585**	F **-72.614**	**1.2048**	**.39638**	**5.0801**	**1.0025**
Stddev	2.259	.046	3.291	.0016	.00074	.1039	.0024
%RSD	7.8104	.43617	4.5324	.13224	.18776	2.0447	.23698
#1	30.332	10.596	-73.245	1.2048	.39697	4.9606	1.0007
#2	26.318	10.534	-69.053	1.2032	.39661	5.1489	1.0016
#3	30.121	10.625	-75.544	1.2063	.39554	5.1307	1.0052
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99123**	**.97654**	**.50928**	**1.0202**	**.99638**	F **1.1438**
Stddev	.01098	.01129	.00306	.0034	.00126	.0562
%RSD	1.1077	1.1563	.60088	.32922	.12690	4.9166
#1	.97978	.96413	.50623	1.0173	.99517	1.1353
#2	.99223	.97928	.50927	1.0193	.99770	1.0923
#3	1.0017	.98621	.51235	1.0239	.99628	1.2038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49439.**	**58735.**
Stddev	94.	189.
%RSD	.19088	.32141
#1	49527.	58837.
#2	49451.	58851.
#3	49340.	58517.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 17:58:11 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00513**	**-.00049**	**.00133**	**-.00015**	**.00002**	**.00543**
Stddev	.00011	.00158	.00019	.00032	.00006	.00001	.00163
%RSD	32.157	30.744	38.392	24.276	38.725	38.245	29.969
#1	-.00023	.00574	-.00068	.00097	-.00016	.00001	.00355
#2	-.00045	.00631	-.00047	.00142	-.00008	.00003	.00630
#3	-.00035	.00334	-.00031	.00160	-.00020	.00002	.00644
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00001**	**-.00017**	**-.00027**	**.00354**	**.06318**	**-.00109**
Stddev	.00005	.00008	.00030	.00034	.00139	.03379	.00047
%RSD	325.59	1077.6	169.62	127.18	39.150	53.472	42.929
#1	.00000	.00010	-.00043	-.00009	.00198	.10133	-.00129
#2	.00008	-.00003	.00015	-.00005	.00403	.05117	-.00143
#3	-.00002	-.00005	-.00024	-.00067	.00461	.03705	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00461**	**-.00027**	**-.00010**	**.00672**	**.00023**	F **6.8952**	**-.00039**
Stddev	.01223	.00009	.00003	.00346	.00021	8.3463	.00037
%RSD	265.36	32.589	36.166	51.439	90.378	121.05	95.127
#1	-.01611	-.00027	-.00008	.00685	.00041	16.042	-.00060
#2	.00825	-.00036	-.00007	.00320	.00000	4.9496	-.00061
#3	-.00597	-.00018	-.00014	.01011	.00028	-.30648	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 17:58:11 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.788**	F **.22958**	F **-40.400**	**-.00166**	**-.00068**	**-.15565**	**.00008**
Stddev	7.916	.02202	2.555	.00025	.00103	.24782	.00013
%RSD	36.330	9.5895	6.3240	14.965	151.45	159.22	162.37
#1	13.027	.21252	-43.163	-.00158	.00045	-.25166	.00013
#2	28.424	.22179	-39.915	-.00194	-.00094	-.34110	.00018
#3	23.913	.25443	-38.122	-.00146	-.00155	.12582	-.00007
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00022**	**.00067**	**-.00013**	**-.00110**	F **.11297**
Stddev	.00004	.00044	.00088	.00023	.00062	.10785
%RSD	55.805	194.81	130.67	172.05	56.452	95.467
#1	-.00006	-.00013	.00169	-.00039	-.00158	.02878
#2	-.00010	.00010	.00020	-.00001	-.00132	.07560
#3	-.00003	.00071	.00014	.00001	-.00040	.23454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49902.**	**58959.**
Stddev	267.	647.
%RSD	.53504	1.0969
#1	49725.	58215.
#2	49771.	59383.
#3	50209.	59279.

Approved: March 29, 2011

Sample Name: L1103092601 Acquired: 3/28/2011 18:01:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG360099-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**5.5776**	**.00271**	**.00170**	**.00761**	**.00009**	**.13963**
Stddev	.00059	.0403	.00121	.00010	.00011	.00001	.00119
%RSD	373.35	.72283	44.439	6.1563	1.4320	12.165	.85296
#1	-.00044	5.6213	.00195	.00182	.00771	.00008	.13842
#2	.00017	5.5418	.00209	.00161	.00750	.00010	.14080
#3	.00073	5.5697	.00410	.00168	.00762	.00010	.13967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00084**	**.00557**	**.00369**	**8.8710**	**.24429**	**.00073**
Stddev	.00002	.00017	.00023	.00031	.0273	.01527	.00101
%RSD	44.254	20.077	4.1290	8.4504	.30817	6.2499	138.49
#1	-.00003	.00079	.00582	.00373	8.8842	.24382	.00150
#2	-.00007	.00103	.00553	.00397	8.8396	.22926	.00109
#3	-.00006	.00070	.00537	.00335	8.8893	.25978	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20475**	**.02902**	**-.00042**	**-.00008**	**.00187**	**535.42**	**.00239**
Stddev	.01361	.00046	.00009	.00204	.00016	10.78	.00062
%RSD	6.6467	1.5884	20.538	2575.8	8.4856	2.0136	25.927
#1	.21379	.02884	-.00043	-.00217	.00202	536.14	.00176
#2	.18909	.02868	-.00050	.00192	.00187	545.81	.00300
#3	.21135	.02954	-.00033	.00001	.00171	524.29	.00241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092601 Acquired: 3/28/2011 18:01:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG360099-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **30.152**	**.98708**	F **-151.55**	**-.00292**	**-.00347**	**3.6548**	**.00006**
Stddev	2.751	.02982	3.88	.00106	.00048	.1429	.00010
%RSD	9.1238	3.0215	2.5605	36.181	13.691	3.9107	168.36
#1	32.881	.96246	-149.38	-.00409	-.00388	3.7121	.00017
#2	27.379	1.0202	-156.03	-.00203	-.00295	3.4921	.00005
#3	30.195	.97853	-149.24	-.00265	-.00358	3.7602	-.00004
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.02483**	**.00276**	**.01565**	**.00941**	**2.8396**
Stddev	.00008	.00016	.00107	.00038	.00235	.0893
%RSD	8.8040	.63180	38.910	2.3991	24.929	3.1464
#1	.00081	.02466	.00392	.01569	.01184	2.9224
#2	.00092	.02485	.00181	.01601	.00922	2.7449
#3	.00096	.02497	.00254	.01526	.00716	2.8514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**52226.**	**60485.**
Stddev	454.	31.
%RSD	.86854	.05190
#1	52128.	60520.
#2	51828.	60461.
#3	52720.	60474.

Approved: March 29, 2011

Sample Name: L1103092603S Acquired: 3/28/2011 18:05:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG360099-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00233**	**6.8790**	**.00478**	**.00959**	**.01316**	**.00026**	**.19667**
Stddev	.00047	.0901	.00104	.00009	.00034	.00000	.00252
%RSD	20.258	1.3090	21.704	.97870	2.5473	1.7280	1.2804
#1	.00180	6.9461	.00391	.00949	.01338	.00025	.19957
#2	.00272	6.7767	.00450	.00968	.01333	.00026	.19507
#3	.00245	6.9144	.00593	.00959	.01278	.00026	.19536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00197**	**.00789**	**.00618**	**8.9547**	**.49133**	**.00573**
Stddev	.00005	.00013	.00013	.00031	.2100	.02128	.00024
%RSD	37.305	6.5390	1.6579	4.9873	2.3446	4.3311	4.1807
#1	.00020	.00197	.00777	.00615	9.1172	.51395	.00545
#2	.00014	.00184	.00786	.00589	9.0291	.48835	.00586
#3	.00009	.00210	.00803	.00650	8.7176	.47170	.00588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27676**	**.02933**	**.00405**	**.23594**	**.00486**	**540.54**	**.00535**
Stddev	.01556	.00073	.00006	.00677	.00063	9.91	.00123
%RSD	5.6238	2.4975	1.5541	2.8714	12.989	1.8338	22.923
#1	.29459	.02999	.00406	.24119	.00496	541.82	.00411
#2	.26980	.02946	.00410	.23834	.00419	549.75	.00656
#3	.26589	.02854	.00398	.22829	.00544	530.05	.00538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092603S Acquired: 3/28/2011 18:05:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG360099-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **20.350**	**.99960**	F **-144.16**	**.00368**	**-.00009**	**14.027**	**.00438**
Stddev	7.851	.02432	3.74	.00044	.00134	.132	.00037
%RSD	38.578	2.4327	2.5964	11.926	1468.1	.94071	8.5188
#1	26.704	.98198	-145.42	.00348	.00127	14.069	.00481
#2	11.574	.98947	-139.95	.00419	-.00142	13.879	.00416
#3	22.772	1.0273	-147.12	.00338	-.00012	14.133	.00416
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00571**	**.05621**	**.00442**	**.02196**	**.01656**	**2.9727**
Stddev	.00017	.00154	.00051	.00029	.00525	.1169
%RSD	2.9354	2.7471	11.643	1.3322	31.678	3.9316
#1	.00584	.05719	.00493	.02170	.01380	2.8530
#2	.00577	.05700	.00390	.02190	.01327	3.0865
#3	.00552	.05443	.00444	.02227	.02261	2.9785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51564.**	**60003.**
Stddev	274.	274.
%RSD	.53227	.45687
#1	51539.	59687.
#2	51851.	60178.
#3	51303.	60143.

Approved: March 29, 2011

Sample Name: L1103092604SD Acquired: 3/28/2011 18:09:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG360099-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**5.9728**	**.00449**	**.00935**	**.01149**	**.00025**	**.17266**
Stddev	.00052	.0714	.00049	.00103	.00020	.00001	.00170
%RSD	24.316	1.1960	10.897	11.018	1.7156	5.7233	.98336
#1	.00162	5.9767	.00505	.00824	.01142	.00026	.17169
#2	.00267	6.0422	.00424	.00953	.01134	.00026	.17168
#3	.00216	5.8995	.00418	.01027	.01172	.00024	.17462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00178**	**.00699**	**.00562**	**7.9881**	**.45388**	**.00477**
Stddev	.00005	.00010	.00020	.00018	.1084	.03663	.00032
%RSD	28.338	5.7776	2.8571	3.2824	1.3570	8.0695	6.6121
#1	.00012	.00168	.00676	.00551	8.0420	.49524	.00463
#2	.00022	.00189	.00715	.00584	7.8633	.44081	.00513
#3	.00021	.00177	.00706	.00552	8.0589	.42558	.00454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22981**	**.02582**	**.00407**	**.23093**	**.00448**	**501.09**	**.00389**
Stddev	.00240	.00039	.00003	.00232	.00064	12.79	.00079
%RSD	1.0457	1.5049	.82716	1.0051	14.252	2.5520	20.446
#1	.22816	.02624	.00404	.23357	.00374	492.27	.00471
#2	.23257	.02576	.00407	.22998	.00484	515.75	.00382
#3	.22870	.02546	.00411	.22923	.00485	495.24	.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092604SD Acquired: 3/28/2011 18:09:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG360099-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **42.053**	**.89223**	F **-130.24**	**.00370**	**-.00078**	**15.388**	**.00441**
Stddev	1.217	.05659	3.51	.00070	.00145	.433	.00011
%RSD	2.8929	6.3426	2.6959	18.852	186.20	2.8120	2.5785
#1	42.143	.86934	-133.65	.00365	.00015	15.093	.00436
#2	43.223	.95668	-126.64	.00441	-.00245	15.885	.00454
#3	40.794	.85066	-130.44	.00302	-.00004	15.187	.00433
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00531**	**.04686**	**.00467**	**.02023**	**.01329**	**1.9254**
Stddev	.00008	.00049	.00045	.00038	.00195	.2129
%RSD	1.5212	1.0511	9.6632	1.8909	14.692	11.055
#1	.00538	.04728	.00463	.02016	.01181	1.9816
#2	.00522	.04632	.00424	.02064	.01255	1.6900
#3	.00532	.04698	.00514	.01988	.01550	2.1045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51358.**	**62779.**
Stddev	492.	398.
%RSD	.95856	.63383
#1	51708.	63190.
#2	50795.	62753.
#3	51571.	62395.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 18:12:50 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38430**	**9.5416**	**.38238**	**.47667**	**.94754**	**.04702**	**9.3516**
Stddev	.00898	.2601	.01257	.01247	.06151	.00131	.6018
%RSD	2.3374	2.7255	3.2877	2.6165	6.4913	2.7904	6.4354
#1	.37454	9.2489	.37465	.46287	.92791	.04555	9.1663
#2	.38614	9.6296	.37560	.47999	1.0165	.04744	10.024
#3	.39222	9.7462	.39689	.48714	.89825	.04807	8.8642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04771**	**.19236**	**.47553**	**.48190**	F **3.5841**	**45.999**	**.93938**
Stddev	.00160	.00638	.01287	.01552	.2305	2.936	.05724
%RSD	3.3479	3.3192	2.7070	3.2203	6.4303	6.3826	6.0936
#1	.04669	.18835	.46108	.47287	3.5082	45.074	.92243
#2	.04689	.18900	.47972	.47302	3.8430	49.287	1.0032
#3	.04955	.19972	.48578	.49982	3.4012	43.638	.89253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					4.0000		
Range					-10.000%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.6514**	F **.44557**	**.95017**	**46.842**	**.47942**	F **7.5885**	**.47911**
Stddev	.5341	.03081	.02895	2.965	.01509	12.541	.01526
%RSD	6.1740	6.9149	3.0472	6.3307	3.1479	165.27	3.1851
#1	8.4223	.43530	.93153	45.880	.46888	14.102	.46792
#2	9.2619	.48020	.93545	50.169	.47267	15.533	.47293
#3	8.2701	.42120	.98353	44.477	.49670	-6.8693	.49649
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000	.50000				10.000	
Range	-10.000%	-10.000%				-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 18:12:50 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **48.265**	**9.5269**	F **8.3735**	**1.1641**	**.38159**	**4.7318**	**.95589**
Stddev	9.263	.3661	.3907	.0428	.01100	.3040	.03349
%RSD	19.193	3.8433	4.6664	3.6765	2.8819	6.4247	3.5033
#1	50.046	9.2626	8.4623	1.1378	.37483	4.7221	.93337
#2	38.241	9.3732	7.9460	1.1409	.37566	4.4328	.93992
#3	56.509	9.9449	8.7122	1.2135	.39428	5.0405	.99437
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.93979**	**.91288**	**.48834**	**.95942**	**.93217**	F **2.3491**
Stddev	.06029	.05671	.01612	.02672	.02946	.0267
%RSD	6.4149	6.2127	3.3009	2.7854	3.1605	1.1373
#1	.91933	.89072	.47883	.92940	.91355	2.3190
#2	1.0076	.97733	.47923	.96825	.91683	2.3584
#3	.89241	.87059	.50695	.98062	.96614	2.3699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49946.**	**61583.**
Stddev	933.	2682.
%RSD	1.8674	4.3546
#1	50507.	62148.
#2	50461.	58664.
#3	48869.	63937.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 18:16:14 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00055**	**.00106**	**.00111**	**-.00026**	**.00002**	**.00086**
Stddev	.00057	.00399	.00195	.00039	.00012	.00001	.00236
%RSD	3789.4	728.11	184.18	34.592	46.571	26.728	274.40
#1	-.00016	-.00381	.00133	.00145	-.00040	.00002	.00226
#2	.00066	.00401	-.00101	.00069	-.00017	.00002	.00218
#3	-.00045	.00144	.00286	.00121	-.00022	.00003	-.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00005**	**.00011**	**-.00059**	**.00118**	**.06424**	**-.00051**
Stddev	.00005	.00012	.00006	.00011	.00192	.00692	.00045
%RSD	83.540	237.55	54.313	19.289	161.92	10.772	89.024
#1	-.00006	.00017	.00013	-.00064	-.00086	.05989	-.00083
#2	-.00001	-.00008	.00017	-.00046	.00294	.07222	.00001
#3	-.00011	.00006	.00005	-.00067	.00147	.06062	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00688**	**-.00006**	**-.00004**	**.02025**	**.00040**	F **-3.3858**	**-.00013**
Stddev	.00927	.00010	.00011	.00373	.00023	7.0744	.00142
%RSD	134.71	170.20	303.00	18.411	58.455	208.94	1079.7
#1	-.01758	-.00013	-.00014	.02157	.00046	3.8205	-.00174
#2	-.00156	-.00009	.00009	.02314	.00014	-10.320	.00038
#3	-.00150	.00005	-.00006	.01604	.00060	-3.6575	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 18:16:14 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **31.825**	**.00842**	F **-10.013**	**-.00201**	**-.00065**	**-.31262**	**-.00017**
Stddev	4.682	.03915	4.757	.00093	.00118	.02740	.00016
%RSD	14.713	464.95	47.513	46.336	181.52	8.7642	92.035
#1	36.812	.00247	-5.3767	-.00156	-.00067	-.31125	.00001
#2	31.141	-.02741	-14.883	-.00139	.00054	-.28594	-.00024
#3	27.523	.05020	-9.7791	-.00309	-.00182	-.34069	-.00028
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000		.01000				
Low Limit	-.01000		-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00105**	**.00006**	**-.00042**	**-.00076**	F **.23691**
Stddev	.00008	.00009	.00017	.00015	.00033	.06251
%RSD	190.25	8.8577	291.43	35.423	43.555	26.387
#1	-.00014	.00096	-.00001	-.00039	-.00112	.30669
#2	.00003	.00106	.00025	-.00057	-.00046	.21800
#3	-.00002	.00114	-.00006	-.00028	-.00071	.18603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51180.**	**62052.**
Stddev	770.	993.
%RSD	1.5048	1.6003
#1	51914.	63187.
#2	50379.	61626.
#3	51247.	61343.

Approved: March 29, 2011

Sample Name: PBS 40 Acquired: 3/28/2011 18:19:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00151**	**-.00311**	**-.00167**	**.00013**	**.00000**	**-.00548**
Stddev	.00036	.00453	.00101	.00054	.00004	.0000	.00533
%RSD	90.622	299.51	32.564	32.527	33.860	377.99	97.275
#1	.00020	.00284	-.00424	-.00106	.00014	.00000	-.00092
#2	.00017	-.00118	-.00228	-.00210	.00009	-.00002	-.01134
#3	.00081	-.00620	-.00281	-.00185	.00018	.00001	-.00417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00043**	**.00710**	**.00010**	**.04193**	**.18129**	**-.00133**
Stddev	.00003	.00012	.00079	.00047	.00042	.01032	.00087
%RSD	10.783	27.629	11.091	466.71	1.0003	5.6910	65.084
#1	.00030	-.00054	.00777	.00063	.04231	.18536	-.00211
#2	.00025	-.00031	.00729	-.00025	.04148	.16956	-.00040
#3	.00025	-.00045	.00623	-.00008	.04201	.18895	-.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00598**	**.00071**	**.00007**	**.03279**	**.00470**	F **-59.527**	**.00044**
Stddev	.00351	.00037	.00007	.00775	.00048	1.109	.00096
%RSD	58.624	52.602	99.993	23.634	10.197	1.8631	216.47
#1	-.00193	.00111	.00012	.02861	.00434	-58.247	.00001
#2	-.00811	.00036	-.00001	.04173	.00524	-60.131	.00154
#3	-.00789	.00067	.00010	.02802	.00451	-60.203	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: PBS 40 Acquired: 3/28/2011 18:19:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **52.636**	**2.4392**	F **-427.53**	**-.00043**	**.00236**	**4.3446**	**.00075**
Stddev	5.586	.1248	26.61	.00112	.00091	.4769	.00008
%RSD	10.612	5.1164	6.2229	259.24	38.459	10.976	11.144
#1	56.507	2.5715	-458.25	.00083	.00134	4.8769	.00080
#2	55.168	2.4225	-412.57	-.00083	.00266	4.2002	.00078
#3	46.233	2.3236	-411.78	-.00130	.00307	3.9566	.00065
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00133**	**-.00255**	**-.00008**	**.00517**	**.43539**
Stddev	.00003	.00044	.00184	.00009	.00481	.13425
%RSD	9.5292	32.908	71.986	115.75	93.062	30.833
#1	-.00027	.00119	-.00465	-.00007	.00304	.28296
#2	-.00024	.00181	-.00176	.00001	.00180	.48724
#3	-.00029	.00097	-.00124	-.00017	.01068	.53598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47743.**	**64521.**
Stddev	1794.	2182.
%RSD	3.7568	3.3812
#1	45835.	64367.
#2	48002.	66775.
#3	49394.	62420.

Approved: March 29, 2011

Sample Name: LCSS 40 Acquired: 3/28/2011 18:23:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19728**	**-.00107**	**.19658**	**-.00196**	**.00232**	**.00000**	**-.01740**
Stddev	.00427	.00448	.00812	.00050	.00002	.00000	.00128
%RSD	2.1645	419.92	4.1298	25.430	1.0443	91.667	7.3293
#1	.19801	-.00063	.19114	-.00210	.00232	.00001	-.01796
#2	.20115	.00317	.20591	-.00237	.00229	.00001	-.01830
#3	.19270	-.00575	.19269	-.00140	.00234	.00000	-.01594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02570**	**-.00033**	**.01886**	**.26037**	**.05146**	**.05438**	**-.00112**
Stddev	.00106	.00018	.01169	.01013	.01472	.01712	.00032
%RSD	4.1388	53.034	61.979	3.8893	28.606	31.477	28.477
#1	.02508	-.00014	.01205	.25452	.06845	.05731	-.00148
#2	.02693	-.00037	.01218	.27207	.04330	.03599	-.00087
#3	.02510	-.00049	.03236	.25453	.04263	.06984	-.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00455**	**.24310**	**.00030**	**.02141**	**.00816**	F **-61.201**	**.25385**
Stddev	.00478	.00207	.00021	.00187	.00505	13.772	.00880
%RSD	105.02	.85314	71.063	8.7448	61.830	22.503	3.4656
#1	.00097	.24127	.00054	.01933	.01398	-63.305	.24815
#2	-.00730	.24267	.00016	.02297	.00501	-46.498	.26398
#3	-.00732	.24536	.00019	.02193	.00549	-73.801	.24942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: LCSS 40 Acquired: 3/28/2011 18:23:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **42.348**	**.18571**	F **-20.052**	**-.00060**	**.00215**	**2.8996**	**.00039**
Stddev	8.205	.03760	3.831	.00099	.00087	.5293	.00013
%RSD	19.376	20.247	19.103	165.31	40.773	18.254	34.583
#1	51.220	.14769	-17.792	-.00145	.00157	3.1000	.00024
#2	40.792	.22287	-24.475	.00049	.00315	3.2994	.00049
#3	35.032	.18657	-17.890	-.00084	.00172	2.2994	.00044
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00083**	**-.00302**	**-.00028**	**.00108**	**.21871**
Stddev	.00005	.00028	.00161	.00025	.00085	.13485
%RSD	18.062	33.525	53.459	88.546	78.689	61.658
#1	-.00031	.00061	-.00416	-.00045	.00029	.11206
#2	-.00022	.00115	-.00373	-.00041	.00198	.17378
#3	-.00032	.00074	-.00117	.00001	.00097	.37030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47500.**	**60360.**
Stddev	1267.	78.
%RSD	2.6683	.12953
#1	48090.	60358.
#2	46045.	60439.
#3	48364.	60283.

Approved: March 29, 2011

Sample Name: L1103068523 Acquired: 3/28/2011 18:27:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00663**	**102.07**	**.09392**	**.15565**	**1.7113**	**.01351**	**68.296**
Stddev	.00059	.13	.00072	.00130	.0045	.00009	.157
%RSD	8.8518	.12429	.76577	.83233	.26466	.65663	.23010
#1	.00596	101.93	.09323	.15509	1.7117	.01348	68.273
#2	.00700	102.17	.09385	.15472	1.7065	.01344	68.152
#3	.00695	102.12	.09467	.15713	1.7155	.01361	68.464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00831**	**.21482**	**.18624**	**.22455**	**313.95**	**9.4086**	**.07847**
Stddev	.00019	.00055	.00088	.00048	2.29	.0279	.00057
%RSD	2.2771	.25391	.47371	.21508	.72903	.29657	.72396
#1	.00852	.21445	.18615	.22439	313.39	9.4150	.07829
#2	.00815	.21455	.18540	.22417	311.99	9.3781	.07801
#3	.00827	.21544	.18716	.22509	316.46	9.4328	.07910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.434**	**17.238**	**.01153**	**.64660**	**.19689**	F **25166.**	**.49817**
Stddev	.128	.140	.00018	.00185	.00133	237.	.00408
%RSD	.88474	.81155	1.5188	.28683	.67606	.94361	.81825
#1	14.427	17.180	.01165	.64632	.19569	24891.	.49600
#2	14.310	17.136	.01133	.64858	.19832	25299.	.50287
#3	14.566	17.397	.01161	.64491	.19666	25306.	.49563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068523 Acquired: 3/28/2011 18:27:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **60.869**	F **126.60**	F **-10934.**	**.00433**	**.01479**	F **629.73**	**.09311**
Stddev	6.957	.04	21.	.00179	.00057	1.75	.00049
%RSD	11.430	.03483	.19161	41.290	3.8438	.27790	.52352
#1	63.686	126.63	-10954.	.00343	.01521	628.87	.09322
#2	65.976	126.62	-10937.	.00639	.01501	628.57	.09353
#3	52.945	126.55	-10912.	.00317	.01414	631.74	.09257
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45243**	**.27591**	**.00657**	**.33107**	**1.1477**	F **120.51**
Stddev	.00079	.00060	.00142	.00141	.0047	.70
%RSD	.17429	.21755	21.596	.42540	.41120	.58501
#1	.45333	.27635	.00515	.33000	1.1447	120.03
#2	.45203	.27523	.00657	.33053	1.1531	120.17
#3	.45192	.27616	.00798	.33266	1.1453	121.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47184.**	**61191.**
Stddev	124.	509.
%RSD	.26270	.83173
#1	47119.	61069.
#2	47327.	61750.
#3	47105.	60754.

Approved: March 29, 2011

Sample Name: L1103068523PS Acquired: 3/28/2011 18:30:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360097-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21474**	**97.029**	**.27993**	**1.1166**	**2.0248**	**.03761**	**65.942**
Stddev	.00119	.382	.00124	.0014	.0021	.00016	.160
%RSD	.55473	.39369	.44180	.12960	.10388	.42682	.24269
#1	.21341	96.588	.28093	1.1154	2.0270	.03747	65.972
#2	.21570	97.229	.27855	1.1163	2.0245	.03779	66.085
#3	.21513	97.268	.28033	1.1182	2.0228	.03759	65.769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03222**	**.29285**	**.41690**	**.44331**	**284.18**	**32.393**	**.57233**
Stddev	.00005	.00011	.00110	.00021	.79	.082	.00084
%RSD	.16403	.03654	.26366	.04772	.27827	.25442	.14701
#1	.03220	.29275	.41680	.44355	285.08	32.433	.57298
#2	.03228	.29296	.41805	.44324	283.57	32.449	.57263
#3	.03218	.29283	.41586	.44315	283.90	32.299	.57138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.619**	**15.610**	**.52535**	**25.753**	**.42157**	F **22729.**	**.67881**
Stddev	.065	.039	.00061	.084	.00093	49.	.00075
%RSD	.36771	.25130	.11620	.32477	.22076	.21514	.11013
#1	17.689	15.643	.52582	25.751	.42054	22729.	.67897
#2	17.562	15.620	.52558	25.837	.42236	22778.	.67947
#3	17.606	15.567	.52466	25.670	.42179	22680.	.67800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068523PS Acquired: 3/28/2011 18:30:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360097-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **64.752**	F **118.42**	F **-9881.5**	**.58718**	**.20834**	F **1229.7**	**.08439**
Stddev	2.551	.19	7.3	.00175	.00218	1.8	.00049
%RSD	3.9402	.16189	.07390	.29726	1.0455	.14939	.57680
#1	66.673	118.44	-9875.4	.58853	.20984	1228.6	.08398
#2	61.857	118.60	-9889.5	.58521	.20584	1231.8	.08493
#3	65.726	118.21	-9879.4	.58781	.20933	1228.6	.08427
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.89856**	**.72062**	**.24366**	**.82568**	**1.5031**	F **108.04**
Stddev	.00228	.00244	.00017	.00248	.0005	.36
%RSD	.25403	.33921	.06903	.29977	.03173	.33416
#1	.89912	.72245	.24377	.82289	1.5026	107.73
#2	.90050	.71784	.24375	.82762	1.5032	107.96
#3	.89604	.72156	.24347	.82652	1.5035	108.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47035.**	**60881.**
Stddev	65.	471.
%RSD	.13809	.77294
#1	47034.	60342.
#2	46970.	61091.
#3	47100.	61210.

Approved: March 29, 2011

Sample Name: L1103068523SDL Acquired: 3/28/2011 18:34:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360097-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**20.148**	**.02057**	**.03160**	**.33444**	**.00266**	**13.585**
Stddev	.00060	.125	.00020	.00026	.00062	.00001	.006
%RSD	46.265	.62077	.96123	.81478	.18519	.44798	.04695
#1	.00183	20.009	.02068	.03166	.33440	.00265	13.581
#2	.00141	20.182	.02069	.03132	.33384	.00266	13.593
#3	.00065	20.253	.02034	.03183	.33508	.00268	13.583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00156**	**.04439**	**.03649**	**.04655**	**65.645**	**1.9520**	**.01366**
Stddev	.00006	.00016	.00032	.00104	.103	.0047	.00060
%RSD	3.9948	.37098	.88455	2.2366	.15748	.23969	4.3630
#1	.00153	.04420	.03612	.04571	65.757	1.9471	.01310
#2	.00152	.04448	.03673	.04623	65.553	1.9524	.01429
#3	.00164	.04449	.03661	.04772	65.624	1.9564	.01358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1630**	**3.5704**	**.00194**	**.13281**	**.04071**	F **5317.3**	**.10706**
Stddev	.0115	.0025	.00007	.00695	.00067	25.7	.00070
%RSD	.36453	.07096	3.4281	5.2323	1.6402	.48379	.65012
#1	3.1749	3.5730	.00201	.13551	.04004	5289.6	.10641
#2	3.1518	3.5679	.00188	.12492	.04071	5321.6	.10779
#3	3.1624	3.5704	.00192	.13801	.04138	5340.5	.10697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068523SDL Acquired: 3/28/2011 18:34:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360097-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **29.096**	F **27.130**	F **-2329.3**	**-.00070**	**.00123**	F **129.40**	**.01941**
Stddev	6.019	.232	13.3	.00037	.00172	.80	.00012
%RSD	20.687	.85584	.57132	53.078	139.00	.61537	.61569
#1	22.858	26.868	-2315.3	-.00084	.00136	128.49	.01950
#2	34.869	27.213	-2330.6	-.00098	.00289	129.92	.01945
#3	29.560	27.309	-2341.8	-.00028	-.00054	129.80	.01927
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08902**	**.05607**	**.00291**	**.06565**	**.24201**	**22.831**
Stddev	.00001	.00057	.00064	.00027	.00385	.062
%RSD	.01389	1.0110	22.121	.40795	1.5904	.26993
#1	.08902	.05625	.00218	.06538	.24025	22.766
#2	.08901	.05653	.00338	.06564	.23935	22.889
#3	.08903	.05544	.00317	.06592	.24642	22.837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50623.**	**60975.**
Stddev	297.	327.
%RSD	.58631	.53632
#1	50936.	61278.
#2	50588.	61020.
#3	50346.	60628.

Approved: March 29, 2011

Sample Name: L1103068523SDL Acquired: 3/28/2011 18:37:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360097-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**3.8971**	**.00492**	**.00349**	**.06558**	**.00054**	**2.6329**
Stddev	.00038	.2024	.00083	.00075	.00049	.00001	.0189
%RSD	135.38	5.1946	16.912	21.545	.74007	.99965	.71819
#1	.00065	4.0084	.00581	.00436	.06525	.00054	2.6280
#2	-.00011	4.0195	.00416	.00313	.06536	.00054	2.6168
#3	.00030	3.6635	.00477	.00299	.06614	.00053	2.6537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00880**	**.00667**	**.00884**	**12.890**	**.41460**	**.00118**
Stddev	.00007	.00070	.00062	.00039	.071	.02579	.00108
%RSD	36.227	7.9103	9.3643	4.4283	.55082	6.2201	91.266
#1	.00024	.00917	.00700	.00915	12.880	.39916	.00225
#2	.00021	.00923	.00705	.00897	12.824	.40027	.00122
#3	.00011	.00800	.00595	.00840	12.965	.44437	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.61162**	**.69695**	**-.00004**	**.02569**	**.00764**	F **1075.2**	**.02117**
Stddev	.01708	.00482	.00015	.00050	.00032	78.9	.00119
%RSD	2.7920	.69099	370.25	1.9608	4.1535	7.3352	5.6362
#1	.59923	.69537	.00013	.02515	.00776	1121.0	.02144
#2	.60455	.69311	-.00009	.02614	.00789	1120.4	.02220
#3	.63110	.70235	-.00017	.02577	.00728	984.11	.01986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068523SDL Acquired: 3/28/2011 18:37:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360097-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **26.569**	**5.4001**	F **-468.85**	**-.00250**	**-.00237**	**24.003**	**.00335**
Stddev	9.191	.4658	43.03	.00103	.00143	2.077	.00038
%RSD	34.595	8.6252	9.1782	41.066	60.414	8.6550	11.245
#1	24.854	5.6551	-493.15	-.00340	-.00080	25.101	.00362
#2	18.355	5.6827	-494.25	-.00138	-.00360	25.300	.00351
#3	36.497	4.8625	-419.17	-.00271	-.00272	21.607	.00292
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01743**	**.01128**	**.00221**	**.01262**	**.04586**	**3.5446**
Stddev	.00011	.00028	.00050	.00074	.00202	.1382
%RSD	.65946	2.4552	22.638	5.8300	4.4049	3.8980
#1	.01743	.01102	.00224	.01293	.04703	3.5814
#2	.01732	.01123	.00169	.01315	.04702	3.3917
#3	.01755	.01157	.00269	.01178	.04352	3.6606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**52282.**	**61896.**
Stddev	2866.	65.
%RSD	5.4814	.10505
#1	50670.	61904.
#2	50586.	61956.
#3	55591.	61827.

Approved: March 29, 2011

Sample Name: L1103068524 Acquired: 3/28/2011 18:41:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00845**	**94.620**	**.10034**	**.17907**	**1.9011**	**.01130**	**64.000**
Stddev	.00003	.951	.00086	.00098	.0050	.00011	.225
%RSD	.34575	1.0052	.85605	.54609	.26278	.97466	.35083
#1	.00847	93.705	.10073	.18007	1.8975	.01134	64.060
#2	.00847	95.604	.10094	.17903	1.8989	.01138	63.752
#3	.00842	94.552	.09936	.17812	1.9068	.01117	64.189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01594**	**.18743**	**.25257**	**.33635**	**334.21**	**16.894**	**.07210**
Stddev	.00022	.00217	.00326	.00406	.91	.034	.00027
%RSD	1.3677	1.1556	1.2894	1.2061	.27234	.19994	.37412
#1	.01591	.18758	.25434	.33700	334.28	16.881	.07238
#2	.01616	.18952	.25455	.34005	333.27	16.868	.07205
#3	.01573	.18520	.24881	.33201	335.09	16.932	.07185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.806**	**15.741**	**.01122**	**.29660**	**.20084**	F **49769.**	**1.1676**
Stddev	.082	.083	.00030	.00512	.00242	471.	.0129
%RSD	.63725	.52485	2.6475	1.7249	1.2036	.94673	1.1041
#1	12.868	15.732	.01132	.29981	.20229	49840.	1.1711
#2	12.714	15.664	.01145	.29070	.20218	50201.	1.1784
#3	12.836	15.828	.01088	.29928	.19805	49266.	1.1533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068524 Acquired: 3/28/2011 18:41:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **79.659**	F **202.53**	F **-26190.**	**.05284**	**.01327**	F **647.25**	**.05583**
Stddev	11.225	1.83	316.	.00227	.00112	7.24	.00102
%RSD	14.092	.90419	1.2082	4.2974	8.4140	1.1189	1.8202
#1	83.124	202.69	-26291.	.05534	.01236	647.93	.05609
#2	88.744	204.28	-26443.	.05227	.01294	654.13	.05669
#3	67.110	200.63	-25835.	.05091	.01452	639.69	.05471
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44988**	**.28392**	**.00409**	**.29959**	**2.2733**	F **119.22**
Stddev	.00208	.00200	.00079	.00178	.0216	.46
%RSD	.46268	.70268	19.216	.59371	.95035	.38304
#1	.44990	.28585	.00321	.29936	2.2733	119.11
#2	.44779	.28186	.00431	.30147	2.2949	119.72
#3	.45195	.28405	.00473	.29793	2.2517	118.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47287.**	**62730.**
Stddev	432.	642.
%RSD	.91396	1.0231
#1	47071.	61992.
#2	47005.	63158.
#3	47784.	63039.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 18:45:18 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39716**	**10.017**	**.39346**	**.49781**	**1.0175**	**.04955**	**10.089**
Stddev	.00629	.073	.00277	.00578	.0084	.00063	.107
%RSD	1.5825	.72556	.70306	1.1611	.82672	1.2741	1.0556
#1	.40394	10.087	.39503	.50391	1.0105	.05025	10.011
#2	.39601	10.021	.39509	.49709	1.0151	.04937	10.047
#3	.39153	9.9419	.39027	.49242	1.0268	.04903	10.211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04931**	**.19865**	**.50248**	**.49750**	**3.9357**	**49.629**	**1.0044**
Stddev	.00057	.00216	.00487	.00463	.0215	.455	.0083
%RSD	1.1593	1.0885	.96849	.93078	.54726	.91766	.82537
#1	.04987	.20068	.50725	.50162	3.9174	49.243	.99746
#2	.04934	.19890	.50269	.49840	3.9303	49.512	1.0021
#3	.04873	.19638	.49752	.49249	3.9595	50.131	1.0136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6281**	**.48888**	**.98890**	**50.443**	**.49836**	F **-.91025**	**.49800**
Stddev	.0705	.00595	.01026	.538	.00506	1.2950	.00316
%RSD	.73199	1.2162	1.0379	1.0659	1.0160	142.27	.63359
#1	9.5640	.48375	1.00000	49.981	.50361	-.10002	.49975
#2	9.6168	.48748	.98695	50.314	.49795	-.22698	.49989
#3	9.7036	.49540	.97975	51.033	.49351	-2.4038	.49435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 18:45:18 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **25.171**	**10.016**	F **-1.1180**	**1.1984**	**.40044**	**5.0817**	**.98442**
Stddev	8.197	.133	8.4990	.0110	.00440	.3506	.01057
%RSD	32.564	1.3298	760.22	.91412	1.0988	6.8998	1.0735
#1	34.522	10.149	-10.631	1.2097	.40541	5.3448	.99415
#2	21.758	10.016	5.7277	1.1976	.39889	5.2167	.98594
#3	19.231	9.8831	1.5490	1.1878	.39703	4.6837	.97318
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0097**	**.98710**	**.50429**	**1.0024**	**.97947**	**1.0696**
Stddev	.0116	.00577	.00597	.0133	.00962	.0889
%RSD	1.1465	.58427	1.1833	1.3278	.98171	8.3082
#1	1.0002	.98160	.50957	1.0168	.98825	1.1646
#2	1.0062	.98661	.50549	.99996	.98096	.98849
#3	1.0226	.99310	.49782	.99054	.96919	1.0558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49756.**	**58854.**
Stddev	318.	550.
%RSD	.64000	.93420
#1	49450.	59318.
#2	49733.	58998.
#3	50085.	58247.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 18:48:42 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00354**	**.00023**	**.00144**	**-.00020**	**.00001**	**.00101**
Stddev	.00065	.01037	.00065	.00065	.00009	.00001	.00389
%RSD	372.78	293.19	280.25	45.369	46.454	63.951	384.98
#1	.00033	.01043	-.00006	.00210	-.00017	.00001	-.00177
#2	-.00091	.00858	-.00022	.00144	-.00013	.00001	.00545
#3	.00006	-.00839	.00097	.00079	-.00031	.00002	-.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00001**	**-.00002**	**-.00042**	**.00464**	**.04664**	**-.00068**
Stddev	.00010	.00006	.00028	.00023	.00224	.01683	.00120
%RSD	205.32	571.85	1648.7	54.622	48.150	36.089	175.05
#1	-.00006	-.00006	.00011	-.00022	.00488	.05954	.00014
#2	.00005	.00005	.00017	-.00036	.00675	.02760	-.00014
#3	-.00014	.00005	-.00034	-.00067	.00230	.05278	-.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01142**	**-.00026**	**.00014**	**.01693**	**.00017**	F **8.9344**	**-.00023**
Stddev	.00453	.00007	.00004	.00155	.00047	6.9392	.00138
%RSD	39.671	28.892	26.891	9.1480	269.60	77.668	601.18
#1	-.01445	-.00018	.00017	.01699	-.00004	1.7354	.00005
#2	-.01361	-.00026	.00014	.01844	-.00015	9.4870	-.00172
#3	-.00621	-.00033	.00010	.01535	.00072	15.581	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 18:48:42 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **32.006**	**.06708**	F **-7.3719**	**-.00111**	**-.00016**	**-.37383**	**.00001**
Stddev	2.429	.07496	1.7062	.00167	.00085	.23922	.00020
%RSD	7.5898	111.75	23.144	149.58	536.72	63.993	3373.0
#1	31.769	.09090	-5.4304	.00034	-.00099	-.37624	-.00002
#2	29.704	.12724	-8.6324	-.00293	.00070	-.13341	-.00017
#3	34.545	-.01690	-8.0528	-.00076	-.00018	-.61183	.00022
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00112**	**-.00031**	**-.00010**	**-.00017**	F **.24728**
Stddev	.00003	.00004	.00136	.00019	.00218	.20226
%RSD	40.907	3.4537	441.84	204.25	1269.2	81.797
#1	-.00010	.00109	.00080	-.00029	-.00114	.04397
#2	-.00004	.00116	-.00183	.00010	-.00170	.44848
#3	-.00009	.00110	.00011	-.00010	.00232	.24939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51184.**	**59316.**
Stddev	3785.	385.
%RSD	7.3940	.64951
#1	49043.	58872.
#2	48954.	59565.
#3	55553.	59511.

Approved: March 29, 2011

Sample Name: L1103068525 Acquired: 3/28/2011 18:52:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00921**	**101.82**	**.09722**	**.16714**	**1.6441**	**.01168**	**48.393**
Stddev	.00066	2.44	.00201	.00171	.0120	.00008	.338
%RSD	7.2157	2.3941	2.0631	1.0205	.72681	.71527	.69827
#1	.00963	100.84	.09551	.16825	1.6573	.01168	48.783
#2	.00957	104.59	.09942	.16518	1.6340	.01176	48.189
#3	.00845	100.01	.09672	.16800	1.6411	.01159	48.207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00836**	**.32177**	**.14714**	**.17078**	**335.70**	**9.6413**	**.08464**
Stddev	.00012	.00818	.00125	.00551	1.98	.0729	.00089
%RSD	1.4208	2.5414	.84708	3.2261	.58888	.75647	1.0463
#1	.00833	.31710	.14695	.16719	337.90	9.7255	.08567
#2	.00849	.33121	.14847	.17712	334.06	9.5985	.08410
#3	.00825	.31700	.14600	.16802	335.15	9.5998	.08416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.034**	**22.572**	**.00963**	**.33403**	**.20255**	F **29131.**	**.58722**
Stddev	.095	.130	.00027	.00277	.00554	706.	.01663
%RSD	.67882	.57754	2.7917	.82851	2.7332	2.4235	2.8318
#1	14.112	22.722	.00964	.33588	.19936	28761.	.57752
#2	13.928	22.486	.00989	.33536	.20895	29945.	.60642
#3	14.061	22.507	.00935	.33085	.19936	28687.	.57773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068525 Acquired: 3/28/2011 18:52:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.585**	F **119.59**	F **-12933.**	**.01208**	**.01667**	F **563.04**	**.02882**
Stddev	7.623	2.88	335.	.00254	.00150	13.98	.00110
%RSD	12.378	2.4095	2.5910	21.017	8.9704	2.4839	3.8095
#1	58.680	118.08	-12782.	.01083	.01799	558.41	.02848
#2	55.843	122.91	-13317.	.01500	.01697	578.75	.03004
#3	70.234	117.77	-12699.	.01041	.01505	551.96	.02792
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37433**	**.22292**	**.00489**	**.28640**	**1.0123**	F **106.35**
Stddev	.00202	.00115	.00056	.00098	.0255	.54
%RSD	.53970	.51430	11.513	.34258	2.5158	.50943
#1	.37666	.22420	.00473	.28646	.99245	106.07
#2	.37309	.22200	.00441	.28735	1.0410	106.01
#3	.37324	.22255	.00551	.28539	1.0035	106.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46834.**	**61867.**
Stddev	825.	705.
%RSD	1.7621	1.1402
#1	47083.	61088.
#2	45912.	62050.
#3	47506.	62462.

Approved: March 29, 2011

Sample Name: L1103068526 Acquired: 3/28/2011 18:56:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00817**	**94.556**	**.10249**	**.16167**	**1.7489**	**.01156**	**166.51**
Stddev	.00080	.904	.00125	.00062	.0065	.00021	.62
%RSD	9.8076	.95655	1.2228	.38362	.37409	1.8527	.37410
#1	.00887	93.778	.10108	.16236	1.7563	.01134	167.12
#2	.00730	94.340	.10346	.16115	1.7463	.01158	165.88
#3	.00835	95.548	.10294	.16151	1.7440	.01177	166.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00920**	**.15074**	**.19545**	**.16705**	**292.06**	**17.009**	**.07187**
Stddev	.00015	.00281	.00381	.00429	1.54	.087	.00099
%RSD	1.6603	1.8655	1.9502	2.5699	.52795	.51342	1.3794
#1	.00910	.14781	.19143	.16246	293.73	17.099	.07084
#2	.00912	.15098	.19591	.16771	290.69	16.925	.07282
#3	.00938	.15342	.19901	.17097	291.76	17.002	.07195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.197**	**16.603**	**.01219**	**.39426**	**.16904**	F **36686.**	**.47278**
Stddev	.067	.088	.00017	.00428	.00294	541.	.00849
%RSD	.43831	.53117	1.3879	1.0868	1.7377	1.4749	1.7965
#1	15.250	16.680	.01227	.39800	.16569	36113.	.46304
#2	15.123	16.507	.01230	.38959	.17025	36759.	.47667
#3	15.219	16.622	.01200	.39521	.17118	37187.	.47864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068526 Acquired: 3/28/2011 18:56:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.774**	F **299.96**	F **-26938.**	**.00327**	**.01743**	F **624.53**	**.01324**
Stddev	6.436	6.58	389.	.00159	.00305	9.19	.00030
%RSD	9.3589	2.1934	1.4456	48.489	17.500	1.4718	2.2714
#1	64.266	292.80	-26551.	.00147	.01830	615.38	.01308
#2	76.145	301.34	-26935.	.00390	.01404	624.46	.01306
#3	65.910	305.74	-27330.	.00445	.01995	633.76	.01359
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.81885**	**.27611**	**.00614**	**.34990**	**1.2651**	F **132.87**
Stddev	.00185	.00107	.00056	.00641	.0231	2.67
%RSD	.22643	.38823	9.0482	1.8321	1.8286	2.0078
#1	.82062	.27659	.00551	.34285	1.2392	129.79
#2	.81692	.27488	.00655	.35145	1.2726	134.39
#3	.81900	.27686	.00637	.35539	1.2836	134.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46533.**	**60933.**
Stddev	438.	679.
%RSD	.94125	1.1146
#1	46992.	60218.
#2	46486.	61570.
#3	46120.	61012.

Approved: March 29, 2011

Sample Name: L1103068527 Acquired: 3/28/2011 18:59:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00838**	**107.78**	**.10287**	**.17209**	**2.2326**	**.01434**	**97.692**
Stddev	.00066	.50	.00200	.00167	.0075	.00013	.597
%RSD	7.9160	.46649	1.9425	.96944	.33406	.92589	.61069
#1	.00786	108.25	.10510	.17109	2.2255	.01449	97.244
#2	.00913	107.84	.10124	.17117	2.2320	.01422	97.462
#3	.00817	107.25	.10227	.17402	2.2404	.01432	98.369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01341**	**.21521**	**.23677**	**.19899**	**339.39**	**13.940**	**.08142**
Stddev	.00006	.00209	.00284	.00181	2.06	.091	.00059
%RSD	.43635	.97018	1.1986	.91166	.60691	.65402	.72332
#1	.01338	.21623	.23984	.20013	337.95	13.886	.08134
#2	.01338	.21281	.23423	.19690	338.48	13.888	.08087
#3	.01348	.21658	.23624	.19995	341.75	14.045	.08204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.466**	**20.704**	**.01158**	**.53763**	**.20172**	F **37010.**	**.68114**
Stddev	.116	.191	.00007	.00255	.00206	305.	.00628
%RSD	.80499	.92032	.59695	.47442	1.0222	.82487	.92267
#1	14.407	20.584	.01163	.53689	.20338	37213.	.68639
#2	14.390	20.604	.01150	.53553	.19941	36659.	.67418
#3	14.600	20.923	.01161	.54047	.20236	37157.	.68285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068527 Acquired: 3/28/2011 18:59:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **64.811**	F **175.41**	F **-15605.**	**.00212**	**.01420**	F **624.30**	**.01691**
Stddev	1.502	1.55	167.	.00296	.00101	7.21	.00008
%RSD	2.3168	.88434	1.0686	139.65	7.0858	1.1548	.44805
#1	65.250	175.74	-15734.	.00284	.01381	629.46	.01687
#2	66.045	173.72	-15417.	-.00113	.01534	616.06	.01700
#3	63.139	176.76	-15665.	.00465	.01344	627.37	.01687
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58793**	**.30572**	**.00662**	**.37274**	**1.5190**	F **157.50**
Stddev	.00269	.00120	.00169	.00433	.0087	1.39
%RSD	.45823	.39289	25.553	1.1606	.57517	.88006
#1	.58573	.30458	.00784	.37772	1.5210	158.76
#2	.58712	.30560	.00734	.37063	1.5095	157.74
#3	.59094	.30698	.00469	.36987	1.5266	156.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46970.**	**60344.**
Stddev	327.	511.
%RSD	.69572	.84630
#1	46644.	60469.
#2	47298.	60781.
#3	46967.	59783.

Approved: March 29, 2011

Sample Name: L1103068528 Acquired: 3/28/2011 19:03:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02027**	**79.267**	**.09667**	**.16023**	**2.2532**	**.00880**	**471.90**
Stddev	.00013	2.365	.00128	.00106	.0039	.00007	4.17
%RSD	.63761	2.9832	1.3262	.66174	.17177	.74677	.88417
#1	.02016	76.660	.09808	.15903	2.2503	.00884	472.58
#2	.02024	81.274	.09635	.16104	2.2576	.00883	475.69
#3	.02041	79.868	.09557	.16063	2.2517	.00872	467.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01490**	**.15268**	**.22519**	**.31501**	**201.10**	**18.768**	**.06520**
Stddev	.00011	.00144	.00233	.00463	.71	.048	.00131
%RSD	.75074	.94154	1.0360	1.4707	.35426	.25526	2.0059
#1	.01490	.15272	.22728	.31545	200.30	18.714	.06408
#2	.01502	.15411	.22563	.31941	201.66	18.787	.06664
#3	.01479	.15123	.22267	.31017	201.35	18.804	.06489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.146**	**10.106**	**.01683**	**1.2981**	**.16657**	F **100580.**	**.46883**
Stddev	.151	.085	.00032	.0110	.00182	799.	.00549
%RSD	.59867	.83631	1.8969	.84890	1.0943	.79463	1.1720
#1	24.982	10.012	.01647	1.2855	.16565	100510.	.46746
#2	25.277	10.176	.01708	1.3056	.16867	101420.	.47488
#3	25.180	10.131	.01694	1.3033	.16539	99823.	.46415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068528 Acquired: 3/28/2011 19:03:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.279**	F **927.17**	F **-88467.**	**.01434**	**.02706**	F **661.67**	**.02556**
Stddev	9.777	10.52	705.	.00104	.00278	13.26	.00048
%RSD	14.319	1.1345	.79637	7.2710	10.280	2.0041	1.8870
#1	65.192	927.83	-88330.	.01336	.02597	664.46	.02530
#2	60.418	937.35	-89230.	.01543	.03022	673.32	.02611
#3	79.226	916.34	-87842.	.01421	.02499	647.24	.02525
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.4336**	**.33214**	**.00456**	**.33938**	**2.9381**	F **143.51**
Stddev	.0148	.00158	.00133	.00336	.0259	.96
%RSD	.60724	.47559	29.258	.98983	.88116	.66720
#1	2.4173	.33117	.00610	.34082	2.9278	143.66
#2	2.4462	.33396	.00386	.34179	2.9676	144.38
#3	2.4373	.33128	.00372	.33554	2.9190	142.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44944.**	**60023.**
Stddev	396.	376.
%RSD	.88105	.62647
#1	44783.	60174.
#2	44655.	59595.
#3	45396.	60300.

Approved: March 29, 2011

Sample Name: L1103068529 Acquired: 3/28/2011 19:07:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01199**	**108.13**	**.11852**	**.19779**	**2.2580**	**.01574**	**372.17**
Stddev	.00059	.49	.00030	.00111	.0062	.00007	2.45
%RSD	4.8850	.44899	.25709	.56317	.27551	.43803	.65951
#1	.01132	107.71	.11820	.19656	2.2651	.01571	373.20
#2	.01223	108.01	.11881	.19873	2.2539	.01568	369.37
#3	.01241	108.66	.11856	.19808	2.2548	.01581	373.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01222**	**.36967**	**.29893**	**.23160**	**368.06**	**14.282**	**.07997**
Stddev	.00003	.00093	.00178	.00151	.88	.015	.00081
%RSD	.27067	.25092	.59569	.65280	.23927	.10767	1.0167
#1	.01225	.36927	.29995	.23179	367.05	14.294	.07994
#2	.01224	.36901	.29687	.23000	368.63	14.265	.08081
#3	.01219	.37073	.29997	.23301	368.51	14.287	.07918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.356**	**16.973**	**.01750**	**.88744**	**.21753**	F **71041.**	**.65291**
Stddev	.124	.062	.00022	.00535	.00163	83.	.00171
%RSD	.63924	.36355	1.2353	.60302	.74971	.11753	.26179
#1	19.213	16.931	.01726	.89184	.21933	71065.	.65390
#2	19.426	16.945	.01769	.88148	.21616	70948.	.65094
#3	19.429	17.044	.01755	.88900	.21709	71110.	.65389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068529 Acquired: 3/28/2011 19:07:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **58.257**	F **606.36**	F **-47587.**	**.00249**	**.02293**	F **655.79**	**.01556**
Stddev	8.358	1.39	42.	.00107	.00126	8.14	.00024
%RSD	14.347	.22984	.08814	43.126	5.5109	1.2405	1.5535
#1	67.282	605.87	-47555.	.00367	.02210	665.10	.01550
#2	56.702	605.27	-47572.	.00158	.02230	652.25	.01535
#3	50.785	607.93	-47635.	.00221	.02438	650.03	.01583
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6458**	**.28681**	**.00948**	**.49952**	**2.2325**	F **183.29**
Stddev	.0073	.00027	.00211	.00150	.0009	.67
%RSD	.44538	.09450	22.280	.29944	.03933	.36560
#1	1.6511	.28671	.00773	.49944	2.2334	183.85
#2	1.6374	.28660	.00889	.49806	2.2323	182.55
#3	1.6489	.28711	.01183	.50105	2.2317	183.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45025.**	**58557.**
Stddev	94.	167.
%RSD	.20969	.28516
#1	44924.	58745.
#2	45041.	58428.
#3	45111.	58497.

Approved: March 29, 2011

Sample Name: L1103068530 Acquired: 3/28/2011 19:10:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00341**	**120.16**	**.07923**	**.16826**	**1.5394**	**.01682**	F **1666.8**
Stddev	.00015	3.67	.00042	.00268	.0145	.00010	14.9
%RSD	4.2978	3.0576	.53427	1.5935	.94085	.59451	.89634
#1	.00343	115.92	.07921	.16856	1.5369	.01677	1680.6
#2	.00325	122.47	.07967	.16544	1.5262	.01694	1650.9
#3	.00354	122.08	.07883	.17078	1.5549	.01676	1668.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00804**	**.34871**	**.32721**	**.20511**	**347.80**	**6.0807**	**.16728**
Stddev	.00011	.00110	.00203	.00137	3.77	.0716	.00128
%RSD	1.3992	.31474	.62163	.66778	1.0845	1.1770	.76416
#1	.00804	.34901	.32641	.20572	347.18	6.0788	.16694
#2	.00816	.34962	.32953	.20606	344.37	6.0101	.16620
#3	.00793	.34749	.32571	.20354	351.84	6.1532	.16869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**44.852**	**11.770**	**.01309**	**.92676**	**.22511**	F **25878.**	**.52017**
Stddev	.532	.147	.00012	.00948	.00057	275.	.00174
%RSD	1.1853	1.2456	.93652	1.0227	.25336	1.0640	.33498
#1	44.775	11.786	.01299	.93156	.22535	25764.	.51900
#2	44.362	11.615	.01305	.91585	.22553	26192.	.52217
#3	45.417	11.907	.01323	.93288	.22446	25678.	.51934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068530 Acquired: 3/28/2011 19:10:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **54.991**	F **1822.6**	F **-37550.**	**.01482**	**.01482**	F **659.81**	**.01096**
Stddev	4.906	7.1	137.	.00186	.00363	7.27	.00036
%RSD	8.9219	.38793	.36425	12.549	24.479	1.1014	3.3211
#1	60.650	1825.8	-37603.	.01449	.01785	657.35	.01057
#2	51.928	1827.6	-37652.	.01682	.01080	667.99	.01101
#3	52.395	1814.6	-37394.	.01315	.01580	654.10	.01130
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **7.9654**	**.17525**	**.00650**	**.41915**	**1.1063**	F **135.60**
Stddev	.0187	.00263	.00039	.00305	.0030	.60
%RSD	.23440	1.4989	6.0148	.72802	.27061	.44307
#1	7.9726	.17443	.00678	.42091	1.1080	135.49
#2	7.9443	.17313	.00668	.42092	1.1080	136.25
#3	7.9795	.17819	.00606	.41563	1.1028	135.06
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	4.5000					45.000
Low Limit	-.01000					-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**42654.**	**58960.**
Stddev	109.	668.
%RSD	.25540	1.1324
#1	42620.	58586.
#2	42567.	59730.
#3	42776.	58562.

Approved: March 29, 2011

Sample Name: L1103068531 Acquired: 3/28/2011 19:14:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00648**	**86.097**	**.10797**	**.14543**	**1.9515**	**.01014**	**666.29**
Stddev	.00096	1.102	.00269	.00084	.0047	.00017	8.27
%RSD	14.801	1.2804	2.4928	.57447	.24029	1.6740	1.2407
#1	.00630	85.067	.10494	.14447	1.9545	.00996	657.12
#2	.00751	85.963	.10891	.14598	1.9461	.01015	668.60
#3	.00562	87.260	.11007	.14585	1.9540	.01030	673.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01277**	**.15934**	**.22203**	**.21178**	**228.84**	**16.018**	**.06629**
Stddev	.00024	.00320	.00613	.00515	.72	.073	.00023
%RSD	1.8792	2.0068	2.7612	2.4325	.31409	.45560	.34028
#1	.01250	.15587	.21556	.20608	229.41	16.031	.06631
#2	.01285	.15997	.22279	.21318	228.03	15.940	.06650
#3	.01296	.16217	.22775	.21609	229.07	16.084	.06605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.162**	**9.5046**	**.01773**	**1.1866**	**.16644**	F **86227.**	**.42154**
Stddev	.092	.0734	.00059	.0051	.00409	1892.	.01001
%RSD	.36689	.77222	3.3472	.42646	2.4582	2.1939	2.3756
#1	25.191	9.5635	.01704	1.1879	.16185	84197.	.41005
#2	25.058	9.4224	.01804	1.1909	.16780	86542.	.42621
#3	25.236	9.5280	.01810	1.1810	.16968	87941.	.42837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068531 Acquired: 3/28/2011 19:14:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **64.337**	F **944.29**	F **-59569.**	**.00483**	**.02419**	F **619.87**	**.01662**
Stddev	7.481	18.33	1293.	.00079	.00148	17.78	.00055
%RSD	11.629	1.9408	2.1704	16.273	6.1283	2.8682	3.2997
#1	64.213	925.26	-58148.	.00475	.02274	599.96	.01631
#2	56.918	945.78	-59884.	.00565	.02414	625.49	.01630
#3	71.879	961.82	-60676.	.00409	.02570	634.16	.01726
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.2004**	**.31203**	**.00828**	**.41393**	**1.7428**	F **161.19**
Stddev	.0258	.00115	.00175	.00613	.0320	2.77
%RSD	.80584	.36910	21.169	1.4818	1.8386	1.7177
#1	3.2301	.31136	.00835	.40726	1.7083	158.09
#2	3.1837	.31137	.00649	.41520	1.7483	162.05
#3	3.1875	.31336	.00999	.41933	1.7717	163.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45646.**	**59058.**
Stddev	671.	560.
%RSD	1.4701	.94825
#1	46372.	58444.
#2	45516.	59541.
#3	45048.	59189.

Approved: March 29, 2011

Sample Name: L1103068532 Acquired: 3/28/2011 19:18:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01942**	**94.044**	**.11345**	**.13735**	**1.7229**	**.01027**	**659.69**
Stddev	.00088	1.109	.00105	.00059	.0166	.00001	3.50
%RSD	4.5456	1.1790	.92576	.43153	.96254	.12724	.53115
#1	.02033	94.851	.11433	.13677	1.7409	.01026	661.34
#2	.01857	92.780	.11229	.13796	1.7198	.01026	655.66
#3	.01936	94.502	.11372	.13732	1.7081	.01028	662.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01211**	**.13011**	**.23075**	**176.87**	**225.59**	**17.075**	**.07154**
Stddev	.00012	.00140	.00163	1.34	1.26	.168	.00091
%RSD	.95086	1.0747	.70784	.75535	.55701	.98330	1.2753
#1	.01221	.13069	.23042	176.72	226.90	17.239	.07242
#2	.01199	.12852	.22931	175.61	224.40	17.083	.07160
#3	.01213	.13113	.23253	178.27	225.45	16.903	.07060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.867**	**7.8935**	**.01512**	**1.1041**	**.15600**	F **93133.**	**.39529**
Stddev	.139	.0480	.00039	.0165	.00291	837.	.00575
%RSD	.51835	.60845	2.5820	1.4943	1.8631	.89882	1.4550
#1	26.880	7.9490	.01544	1.1181	.15832	93523.	.39952
#2	26.721	7.8642	.01468	1.1084	.15274	92172.	.38874
#3	26.999	7.8675	.01522	1.0859	.15694	93704.	.39761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068532 Acquired: 3/28/2011 19:18:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.505**	F **948.28**	F **-58610.**	**.00711**	**.02458**	F **652.57**	**.07569**
Stddev	9.133	8.78	516.	.00031	.00403	10.74	.00049
%RSD	14.850	.92538	.88092	4.3847	16.387	1.6463	.64793
#1	55.175	951.56	-58855.	.00716	.02855	652.56	.07609
#2	71.975	938.33	-58017.	.00678	.02050	641.84	.07514
#3	57.365	954.94	-58958.	.00739	.02469	663.32	.07583
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.9061**	**.30462**	**.01020**	**.40585**	**8.1887**	F **169.97**
Stddev	.0468	.00332	.00088	.00166	.0856	1.42
%RSD	1.6110	1.0896	8.6634	.40834	1.0449	.83296
#1	2.9003	.30772	.01122	.40716	8.2464	170.94
#2	2.8624	.30502	.00965	.40399	8.0904	168.35
#3	2.9555	.30112	.00974	.40640	8.2294	170.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44643.**	**59997.**
Stddev	280.	320.
%RSD	.62607	.53306
#1	44460.	59788.
#2	44965.	60365.
#3	44505.	59838.

Approved: March 29, 2011

Sample Name: L1103068533 Acquired: 3/28/2011 19:22:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00614**	**142.09**	**.12550**	**.17460**	**1.9993**	**.01625**	**68.078**
Stddev	.00043	1.26	.00289	.00156	.0078	.00018	.329
%RSD	6.9215	.88994	2.3060	.89115	.38851	1.0831	.48282
#1	.00567	140.64	.12361	.17570	2.0064	.01613	68.321
#2	.00651	142.62	.12405	.17528	2.0004	.01616	68.209
#3	.00625	143.00	.12883	.17282	1.9910	.01645	67.704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00716**	**.20380**	**.37645**	**.13138**	**357.48**	**11.401**	**.06398**
Stddev	.00007	.00213	.00343	.00359	1.21	.065	.00033
%RSD	.96568	1.0435	.91183	2.7352	.33988	.56769	.51134
#1	.00724	.20140	.37394	.12798	358.55	11.421	.06397
#2	.00713	.20457	.37504	.13103	357.73	11.454	.06366
#3	.00711	.20544	.38036	.13514	356.16	11.329	.06432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.523**	**9.7281**	**.01657**	**1.2621**	**.12806**	F **25026.**	**.43660**
Stddev	.019	.0510	.00027	.0074	.00132	300.	.00435
%RSD	.12187	.52454	1.6226	.58908	1.0280	1.1975	.99682
#1	15.504	9.7600	.01629	1.2635	.12721	24925.	.43199
#2	15.542	9.7550	.01660	1.2688	.12738	24791.	.43716
#3	15.523	9.6692	.01682	1.2541	.12957	25364.	.44064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068533 Acquired: 3/28/2011 19:22:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **65.011**	F **189.53**	F **-22732.**	**.00204**	**.01677**	F **583.80**	**.01316**
Stddev	2.269	2.16	182.	.00063	.00124	5.49	.00034
%RSD	3.4895	1.1380	.79922	30.738	7.4248	.94029	2.6101
#1	63.422	187.12	-22523.	.00198	.01804	577.50	.01282
#2	67.609	190.22	-22820.	.00144	.01671	586.36	.01316
#3	64.003	191.26	-22852.	.00269	.01555	587.55	.01351
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47383**	**.25483**	**.01502**	**.63434**	**.63039**	F **259.14**
Stddev	.00204	.00214	.00242	.00680	.00354	1.72
%RSD	.42995	.84118	16.077	1.0717	.56226	.66358
#1	.47509	.25529	.01617	.63053	.62693	257.51
#2	.47492	.25671	.01665	.63029	.63023	258.99
#3	.47148	.25250	.01225	.64219	.63401	260.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47487.**	**61042.**
Stddev	252.	416.
%RSD	.53066	.68076
#1	47777.	60664.
#2	47369.	60974.
#3	47316.	61487.

Approved: March 29, 2011

Sample Name: L1103068534 Acquired: 3/28/2011 19:26:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00517**	**90.387**	**.10637**	**.14126**	**1.6644**	**.01216**	**84.903**
Stddev	.00028	.568	.00247	.00131	.0141	.00007	.667
%RSD	5.3361	.62830	2.3232	.92451	.84967	.54756	.78601
#1	.00543	90.610	.10468	.14260	1.6767	.01210	85.575
#2	.00520	90.809	.10921	.14121	1.6490	.01223	84.240
#3	.00488	89.741	.10523	.13999	1.6675	.01214	84.893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00806**	**.12556**	**.26143**	**.13806**	**270.33**	**17.184**	**.04191**
Stddev	.00013	.00144	.00159	.00141	2.24	.121	.00107
%RSD	1.5751	1.1488	.60761	1.0210	.83029	.70350	2.5480
#1	.00794	.12445	.25978	.13760	272.91	17.322	.04157
#2	.00805	.12719	.26295	.13965	269.21	17.096	.04106
#3	.00819	.12504	.26157	.13695	268.86	17.134	.04311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.417**	**7.5382**	**.01505**	**.61570**	**.10713**	F **38374.**	**.39977**
Stddev	.189	.0695	.00034	.00483	.00205	353.	.00489
%RSD	1.3076	.92165	2.2807	.78389	1.9124	.92114	1.2234
#1	14.590	7.6182	.01497	.61823	.10543	38113.	.39656
#2	14.443	7.4938	.01542	.61014	.10941	38777.	.40540
#3	14.216	7.5024	.01475	.61874	.10657	38233.	.39735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068534 Acquired: 3/28/2011 19:26:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **54.857**	F **269.63**	F **-34468.**	**.00270**	**.01401**	F **589.38**	**.01122**
Stddev	6.710	2.75	293.	.00222	.00107	9.08	.00035
%RSD	12.232	1.0216	.85087	82.209	7.6281	1.5398	3.1053
#1	61.214	268.24	-34227.	.00084	.01309	587.81	.01106
#2	47.842	272.81	-34794.	.00515	.01518	599.13	.01162
#3	55.515	267.85	-34382.	.00210	.01376	581.18	.01099
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46636**	**.30098**	**.01140**	**.51696**	**.88140**	F **174.81**
Stddev	.00367	.00144	.00086	.00312	.00683	.86
%RSD	.78609	.47802	7.5767	.60289	.77460	.49346
#1	.46993	.30255	.01239	.51472	.87549	174.03
#2	.46261	.29973	.01080	.52052	.88887	175.74
#3	.46654	.30067	.01102	.51564	.87983	174.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47513.**	**60216.**
Stddev	309.	979.
%RSD	.65083	1.6255
#1	47680.	59277.
#2	47156.	60140.
#3	47703.	61231.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 19:29:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40558**	**10.020**	**.39879**	**.50032**	**1.0209**	**.05026**	**10.057**
Stddev	.00371	.058	.00475	.00406	.0065	.00035	.084
%RSD	.91541	.58279	1.1912	.81061	.64068	.69290	.83897
#1	.40484	10.004	.40427	.49988	1.0140	.05031	9.9836
#2	.40961	10.085	.39580	.50458	1.0216	.05059	10.037
#3	.40230	9.9714	.39630	.49650	1.0270	.04990	10.149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05026**	**.20322**	**.50868**	**.50914**	**3.9437**	**49.734**	**1.0072**
Stddev	.00060	.00280	.00317	.00693	.0369	.412	.0040
%RSD	1.1938	1.3767	.62274	1.3616	.93588	.82868	.39423
#1	.05094	.20641	.50966	.51683	3.9042	49.363	1.0037
#2	.05004	.20207	.51123	.50724	3.9495	49.660	1.0064
#3	.04980	.20118	.50513	.50336	3.9774	50.178	1.0115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7769**	**.48621**	**.99577**	**50.342**	**.50535**	F **-1.8627**	**.50775**
Stddev	.1096	.00476	.01176	.375	.00701	6.0110	.00605
%RSD	1.1209	.97952	1.1810	.74529	1.3878	322.70	1.1914
#1	9.6563	.48142	1.0080	50.001	.51307	4.8760	.51312
#2	9.8039	.48625	.99482	50.281	.50363	-3.7919	.50894
#3	9.8704	.49095	.98452	50.744	.49936	-6.6723	.50120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 19:29:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **18.858**	**10.396**	F **7.7340**	**1.2089**	**.39984**	**5.4308**	**1.0027**
Stddev	8.930	.179	6.6085	.0195	.00577	.4919	.0144
%RSD	47.351	1.7246	85.448	1.6119	1.4428	9.0571	1.4379
#1	28.172	10.602	.90201	1.2303	.40528	5.8840	1.0178
#2	18.032	10.314	14.094	1.2040	.40045	5.5007	1.0011
#3	10.371	10.272	8.2061	1.1923	.39379	4.9077	.98913
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0046**	**.99128**	**.51461**	**1.0174**	**1.0066**	F **1.1536**
Stddev	.0060	.00532	.00721	.0075	.0142	.1851
%RSD	.59743	.53673	1.4015	.74150	1.4151	16.043
#1	.99896	.98835	.52142	1.0184	1.0219	1.1975
#2	1.0038	.98807	.51536	1.0244	1.0039	1.3128
#3	1.0109	.99742	.50706	1.0094	.99384	.95054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49618.**	**58423.**
Stddev	394.	790.
%RSD	.79321	1.3519
#1	49175.	59217.
#2	49754.	58415.
#3	49926.	57637.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 19:33:12 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00478**	**.00025**	**.00120**	**-.00014**	**.00001**	**.00109**
Stddev	.00004	.00192	.00048	.00026	.00007	.00001	.00120
%RSD	25.791	40.207	197.32	21.682	49.499	90.134	110.53
#1	.00012	.00342	.00040	.00110	-.00018	.00000	.00207
#2	.00020	.00395	-.00030	.00150	-.00006	.00001	.00145
#3	.00015	.00698	.00063	.00101	-.00018	.00001	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00007**	**-.00020**	**-.00054**	**.00540**	**.07865**	**-.00265**
Stddev	.00004	.00010	.00015	.00017	.00281	.00666	.00105
%RSD	40.345	155.31	73.853	31.177	52.036	8.4699	39.639
#1	-.00005	-.00003	-.00032	-.00073	.00261	.07693	-.00384
#2	-.00012	.00018	-.00025	-.00047	.00823	.08600	-.00226
#3	-.00012	.00005	-.00003	-.00041	.00535	.07301	-.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.00025**	**.00026**	**.00713**	**-.00012**	F **13.864**	**-.00061**
Stddev	.00590	.00011	.00009	.00445	.00017	4.899	.00090
%RSD	1284.4	43.998	33.455	62.376	144.92	35.339	147.47
#1	-.00498	-.00013	.00024	.01225	-.00022	11.526	.00007
#2	-.00262	-.00034	.00019	.00413	-.00021	10.572	-.00027
#3	.00622	-.00029	.00036	.00503	.00008	19.494	-.00164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 19:33:12 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **15.919**	**.05387**	F **-17.227**	**-.00093**	**-.00011**	**-.02867**	**.00004**
Stddev	9.236	.01220	7.922	.00012	.00143	.05339	.00005
%RSD	58.018	22.645	45.985	13.303	1351.8	186.22	147.64
#1	23.313	.04444	-12.366	-.00100	-.00176	-.06137	-.00003
#2	5.5661	.04953	-26.369	-.00099	.00064	.03294	.00008
#3	18.879	.06765	-12.947	-.00078	.00080	-.05759	.00006
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00053**	**-.00003**	**-.00007**	**-.00272**	F **.13222**
Stddev	.00001	.00103	.00154	.00014	.00057	.14534
%RSD	112.82	195.55	6104.6	191.21	20.900	109.93
#1	.00000	.00020	-.00077	-.00009	-.00225	.28491
#2	-.00001	.00168	-.00106	.00008	-.00335	.11619
#3	-.00002	-.00030	.00175	-.00020	-.00255	-.00445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50570.**	**57567.**
Stddev	411.	477.
%RSD	.81283	.82903
#1	50856.	57913.
#2	50754.	57022.
#3	50099.	57765.

Approved: March 29, 2011

Sample Name: L1103068535 Acquired: 3/28/2011 19:37:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00378**	**146.85**	**.11020**	**.17774**	**1.6252**	**.01641**	**31.420**
Stddev	.00033	1.11	.00201	.00226	.0121	.00003	.222
%RSD	8.7779	.75859	1.8254	1.2741	.74593	.18992	.70706
#1	.00340	145.99	.10810	.18033	1.6379	.01643	31.656
#2	.00390	146.46	.11211	.17612	1.6241	.01643	31.391
#3	.00403	148.11	.11038	.17677	1.6137	.01638	31.214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00480**	**.19056**	**.34848**	**.10167**	**370.68**	**7.3933**	**.07693**
Stddev	.00009	.00216	.00325	.00150	3.27	.0545	.00024
%RSD	1.8797	1.1316	.93211	1.4706	.88250	.73694	.31102
#1	.00470	.18824	.34494	.10026	374.37	7.4147	.07673
#2	.00488	.19094	.34920	.10152	369.57	7.4339	.07719
#3	.00482	.19250	.35131	.10323	368.11	7.3314	.07687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.163**	**7.1357**	**.01666**	**1.2112**	**.12992**	F **15145.**	**.35153**
Stddev	.084	.0670	.00031	.0081	.00100	211.	.00391
%RSD	.58985	.93964	1.8721	.66981	.77086	1.3958	1.1135
#1	14.259	7.2106	.01678	1.2184	.12927	14939.	.34848
#2	14.130	7.1149	.01631	1.2127	.12941	15134.	.35017
#3	14.102	7.0815	.01690	1.2024	.13107	15361.	.35595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068535 Acquired: 3/28/2011 19:37:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **50.778**	F **136.36**	F **-19791.**	**.00040**	**.00962**	F **588.78**	**.01199**
Stddev	3.490	1.58	255.	.00058	.00080	11.30	.00015
%RSD	6.8723	1.1623	1.2867	144.31	8.3185	1.9192	1.2645
#1	52.159	134.69	-19538.	-.00025	.01023	576.63	.01181
#2	53.365	136.54	-19788.	.00059	.00992	590.72	.01207
#3	46.809	137.85	-20047.	.00086	.00871	598.98	.01208
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22433**	**.27474**	**.01483**	**.59920**	**1.2524**	F **256.30**
Stddev	.00148	.00194	.00151	.00458	.0077	2.67
%RSD	.65987	.70540	10.151	.76391	.61169	1.0410
#1	.22577	.27583	.01411	.59436	1.2456	253.70
#2	.22440	.27588	.01382	.59978	1.2508	256.17
#3	.22281	.27250	.01656	.60346	1.2607	259.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48594.**	**58493.**
Stddev	213.	967.
%RSD	.43837	1.6529
#1	48825.	57393.
#2	48551.	58880.
#3	48406.	59207.

Approved: March 29, 2011

Sample Name: L1103068536S Acquired: 3/28/2011 19:40:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20218**	**150.12**	**.30600**	**.18341**	**1.7557**	**.01684**	**38.401**
Stddev	.00249	2.53	.00843	.00218	.0016	.00034	.042
%RSD	1.2318	1.6827	2.7542	1.1870	.09058	2.0271	.10814
#1	.19940	147.30	.29627	.18372	1.7574	.01645	38.411
#2	.20420	150.90	.31114	.18110	1.7553	.01711	38.436
#3	.20294	152.17	.31059	.18542	1.7543	.01694	38.355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02997**	**.19005**	**.34076**	**.34981**	**381.37**	**8.2561**	**.07495**
Stddev	.00070	.00437	.00746	.00967	2.76	.0231	.00025
%RSD	2.3309	2.3006	2.1887	2.7634	.72365	.28018	.33672
#1	.02916	.18500	.33216	.33867	382.51	8.2444	.07477
#2	.03037	.19242	.34551	.35487	378.23	8.2828	.07484
#3	.03037	.19273	.34461	.35590	383.38	8.2412	.07524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.055**	**8.8582**	**.01827**	**1.2609**	**.13146**	F **16802.**	**.66521**
Stddev	.047	.0249	.00024	.0057	.00284	312.	.01246
%RSD	.33366	.28050	1.3048	.45213	2.1573	1.8539	1.8726
#1	14.081	8.8794	.01803	1.2654	.12839	16450.	.65107
#2	14.084	8.8644	.01850	1.2545	.13201	16914.	.67000
#3	14.001	8.8308	.01829	1.2628	.13398	17042.	.67456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068536S Acquired: 3/28/2011 19:40:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **63.753**	F **144.80**	F **-20037.**	**.00070**	**.01417**	F **646.56**	**.01233**
Stddev	5.016	3.69	404.	.00063	.00164	14.57	.00024
%RSD	7.8675	2.5455	2.0138	90.363	11.608	2.2536	1.9665
#1	66.886	140.55	-19583.	-.00003	.01446	629.75	.01205
#2	66.406	146.79	-20176.	.00102	.01564	654.34	.01243
#3	57.968	147.07	-20353.	.00111	.01240	655.60	.01250
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25892**	**.31189**	**.01747**	**.65887**	**1.2869**	F **252.58**
Stddev	.00023	.00088	.00125	.01024	.0242	3.87
%RSD	.08908	.28142	7.1300	1.5547	1.8809	1.5318
#1	.25901	.31147	.01635	.64746	1.2591	248.12
#2	.25866	.31130	.01726	.66727	1.2976	255.00
#3	.25909	.31290	.01882	.66188	1.3038	254.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48232.**	**61515.**
Stddev	682.	480.
%RSD	1.4139	.77950
#1	49013.	61067.
#2	47752.	61458.
#3	47932.	62021.

Approved: March 29, 2011

Sample Name: L1103068537SD Acquired: 3/28/2011 19:44:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19751**	**155.82**	**.30132**	**.18858**	**1.6147**	**.01766**	**28.892**
Stddev	.00287	2.09	.00530	.00147	.0038	.00036	.077
%RSD	1.4509	1.3434	1.7588	.78006	.23786	2.0294	.26494
#1	.19898	155.38	.29941	.18798	1.6179	.01765	28.980
#2	.19935	158.10	.30731	.18751	1.6158	.01802	28.856
#3	.19421	153.99	.29724	.19026	1.6104	.01730	28.841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02858**	**.19515**	**.37904**	**.32133**	**397.95**	**6.2001**	**.07290**
Stddev	.00037	.00328	.00673	.00409	1.89	.0071	.00043
%RSD	1.2899	1.6819	1.7749	1.2735	.47480	.11379	.59011
#1	.02872	.19479	.37922	.32091	398.08	6.2060	.07338
#2	.02886	.19859	.38567	.32562	395.99	6.2020	.07255
#3	.02816	.19205	.37222	.31747	399.76	6.1923	.07276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.371**	**7.2979**	**.01813**	**1.2631**	**.12467**	F **13200.**	**.62140**
Stddev	.068	.0241	.00028	.0051	.00216	295.	.01052
%RSD	.51228	.32995	1.5423	.40370	1.7362	2.2382	1.6927
#1	13.401	7.3257	.01834	1.2618	.12380	13185.	.61764
#2	13.292	7.2859	.01825	1.2587	.12713	13502.	.63329
#3	13.419	7.2823	.01781	1.2687	.12307	12912.	.61329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068537SD Acquired: 3/28/2011 19:44:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **67.988**	F **141.46**	F **-20820.**	**.00212**	**.01160**	F **656.94**	**.01225**
Stddev	4.451	2.22	460.	.00062	.00146	11.40	.00004
%RSD	6.5474	1.5721	2.2088	29.199	12.567	1.7358	.35868
#1	63.418	141.47	-20744.	.00145	.01281	657.10	.01221
#2	72.311	143.68	-21313.	.00222	.00998	668.26	.01230
#3	68.236	139.23	-20402.	.00268	.01201	645.45	.01225
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21059**	**.30498**	**.01698**	**.68931**	**.57849**	F **259.89**
Stddev	.00066	.00107	.00108	.01335	.00616	6.28
%RSD	.31161	.35176	6.3329	1.9370	1.0651	2.4146
#1	.21135	.30609	.01617	.69196	.57724	261.48
#2	.21028	.30492	.01820	.70114	.58519	265.21
#3	.21015	.30394	.01657	.67483	.57306	252.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48455.**	**60856.**
Stddev	552.	506.
%RSD	1.1389	.83084
#1	48405.	60272.
#2	47929.	61131.
#3	49030.	61164.

Approved: March 29, 2011

Sample Name: L1103068538 Acquired: 3/28/2011 19:47:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**116.10**	**.10120**	**.14349**	**1.8406**	**.01348**	**38.595**
Stddev	.00057	.62	.00100	.00140	.0078	.00010	.155
%RSD	10.992	.53150	.98804	.97753	.42644	.76739	.40081
#1	.00509	116.38	.10033	.14324	1.8332	.01337	38.501
#2	.00582	115.39	.10099	.14500	1.8488	.01350	38.774
#3	.00469	116.52	.10229	.14222	1.8399	.01357	38.511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00702**	**.13930**	**.28080**	**.12372**	**287.97**	**13.529**	**.05894**
Stddev	.00002	.00072	.00532	.00103	1.11	.044	.00007
%RSD	.30420	.51827	1.8941	.83403	.38441	.32512	.12386
#1	.00701	.13861	.27469	.12253	286.89	13.498	.05895
#2	.00704	.13922	.28330	.12427	289.10	13.580	.05886
#3	.00700	.14005	.28440	.12436	287.91	13.509	.05901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.589**	**8.1466**	**.01377**	**.92004**	**.11573**	F **23158.**	**.40387**
Stddev	.027	.0363	.00016	.00209	.00085	342.	.00108
%RSD	.19722	.44573	1.1594	.22667	.73488	1.4780	.26670
#1	13.569	8.1333	.01361	.91822	.11476	22763.	.40345
#2	13.619	8.1877	.01377	.91958	.11610	23359.	.40306
#3	13.578	8.1188	.01393	.92232	.11633	23353.	.40509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068538 Acquired: 3/28/2011 19:47:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **62.627**	F **204.70**	F **-30523.**	**.00252**	**.01085**	F **607.02**	**.01164**
Stddev	2.639	1.19	141.	.00085	.00151	2.98	.00021
%RSD	4.2134	.58003	.46330	33.696	13.944	.49137	1.7652
#1	64.129	203.44	-30360.	.00154	.01252	603.65	.01152
#2	59.580	204.87	-30617.	.00301	.01049	609.32	.01152
#3	64.172	205.80	-30591.	.00301	.00956	608.09	.01187
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26409**	**.30394**	**.01078**	**.51092**	**.72821**	F **210.27**
Stddev	.00064	.00159	.00105	.00617	.00193	3.28
%RSD	.24294	.52268	9.7737	1.2078	.26525	1.5600
#1	.26344	.30223	.01159	.50423	.72662	206.63
#2	.26472	.30420	.00959	.51214	.72767	211.22
#3	.26410	.30538	.01116	.51639	.73036	212.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48297.**	**61135.**
Stddev	86.	405.
%RSD	.17856	.66227
#1	48395.	60817.
#2	48235.	60996.
#3	48260.	61591.

Approved: March 29, 2011

Sample Name: L1103068539 Acquired: 3/28/2011 19:51:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00690**	**155.98**	**.13878**	**.21547**	**2.1080**	**.02064**	**27.722**
Stddev	.00044	.41	.00163	.00217	.0035	.00017	.055
%RSD	6.4105	.25978	1.1760	1.0074	.16651	.83514	.20011
#1	.00741	156.22	.14066	.21556	2.1045	.02075	27.658
#2	.00660	155.51	.13800	.21759	2.1079	.02072	27.756
#3	.00670	156.20	.13769	.21325	2.1115	.02044	27.752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00581**	**.45695**	**.42754**	**.12087**	**462.58**	**5.8378**	**.07182**
Stddev	.00016	.00501	.00533	.00193	3.89	.0217	.00131
%RSD	2.7918	1.0959	1.2456	1.5927	.83989	.37250	1.8210
#1	.00596	.46199	.43152	.12295	460.72	5.8611	.07298
#2	.00583	.45687	.42961	.12051	467.05	5.8341	.07040
#3	.00564	.45198	.42149	.11915	459.98	5.8181	.07209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.099**	**19.186**	**.01928**	**1.5354**	**.15731**	F **14811.**	**.56846**
Stddev	.046	.085	.00043	.0028	.00173	165.	.00491
%RSD	.32514	.44387	2.2145	.18488	1.0970	1.1157	.86290
#1	14.060	19.104	.01967	1.5337	.15929	14951.	.57084
#2	14.149	19.274	.01936	1.5387	.15615	14852.	.57173
#3	14.088	19.180	.01882	1.5339	.15648	14629.	.56282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068539 Acquired: 3/28/2011 19:51:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.334**	F **131.03**	F **-18785.**	**.00044**	**.01794**	F **535.91**	**.01176**
Stddev	6.356	1.64	195.	.00128	.00098	5.67	.00025
%RSD	9.3016	1.2480	1.0392	290.64	5.4699	1.0574	2.0936
#1	71.236	132.82	-18908.	.00175	.01826	539.64	.01178
#2	61.045	130.65	-18887.	.00037	.01684	538.70	.01150
#3	72.721	129.62	-18560.	-.00080	.01872	529.39	.01199
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21214**	**.23628**	**.01559**	**.70296**	**.59751**	F **244.91**
Stddev	.00037	.00021	.00103	.00503	.00446	2.28
%RSD	.17463	.08693	6.5873	.71597	.74643	.93103
#1	.21172	.23645	.01557	.70694	.60227	246.32
#2	.21231	.23605	.01458	.70464	.59685	246.14
#3	.21240	.23634	.01663	.69730	.59342	242.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48393.**	**62058.**
Stddev	395.	325.
%RSD	.81591	.52289
#1	48023.	61892.
#2	48345.	61851.
#3	48809.	62432.

Approved: March 29, 2011

Sample Name: L1103068540 Acquired: 3/28/2011 19:55:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00595**	**118.97**	**.11397**	**.15478**	**1.9242**	**.01515**	**31.557**
Stddev	.00046	1.32	.00182	.00090	.0023	.00003	.088
%RSD	7.8133	1.1121	1.5948	.58373	.11847	.20196	.27929
#1	.00544	118.74	.11547	.15580	1.9249	.01513	31.577
#2	.00606	120.40	.11448	.15410	1.9216	.01518	31.633
#3	.00635	117.78	.11195	.15444	1.9260	.01513	31.460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00649**	**.21889**	**.28862**	**.11034**	**326.19**	**8.8508**	**.05169**
Stddev	.00004	.00216	.00094	.00161	.22	.0046	.00071
%RSD	.66941	.98525	.32480	1.4559	.06716	.05240	1.3815
#1	.00645	.21971	.28965	.11057	325.94	8.8561	.05088
#2	.00649	.22052	.28782	.11182	326.27	8.8484	.05195
#3	.00654	.21644	.28840	.10863	326.35	8.8478	.05224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.445**	**10.673**	**.01487**	**.92534**	**.11533**	F **16674.**	**.45691**
Stddev	.016	.015	.00027	.00618	.00052	169.	.00537
%RSD	.11977	.14312	1.8045	.66809	.45338	1.0152	1.1746
#1	13.428	10.664	.01494	.92386	.11554	16619.	.45673
#2	13.447	10.691	.01510	.93213	.11571	16864.	.46236
#3	13.460	10.664	.01457	.92004	.11473	16539.	.45163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068540 Acquired: 3/28/2011 19:55:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **63.907**	F **155.32**	F **-22644.**	**.00215**	**.01667**	F **622.76**	**.01116**
Stddev	5.430	1.90	215.	.00028	.00225	1.88	.00021
%RSD	8.4959	1.2255	.95066	12.941	13.512	.30184	1.9234
#1	59.249	156.37	-22559.	.00245	.01477	624.18	.01139
#2	62.602	156.46	-22888.	.00190	.01916	623.47	.01112
#3	69.870	153.12	-22484.	.00209	.01609	620.62	.01096
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22798**	**.29280**	**.01293**	**.59373**	**.55714**	F **227.47**
Stddev	.00044	.00066	.00127	.00238	.00570	.86
%RSD	.19414	.22521	9.8522	.40122	1.0227	.38022
#1	.22785	.29349	.01410	.59495	.55835	228.43
#2	.22847	.29218	.01311	.59525	.56214	227.20
#3	.22761	.29274	.01157	.59098	.55094	226.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48408.**	**62060.**
Stddev	387.	507.
%RSD	.80019	.81758
#1	48360.	61565.
#2	48047.	62037.
#3	48818.	62579.

Approved: March 29, 2011

Sample Name: L1103068541 Acquired: 3/28/2011 19:58:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00635**	**159.61**	**.14046**	**.22258**	**1.8676**	**.02094**	**26.871**
Stddev	.00040	2.80	.00354	.00290	.0036	.00035	.091
%RSD	6.2816	1.7561	2.5213	1.3009	.19514	1.6743	.33716
#1	.00624	159.37	.14199	.22591	1.8662	.02087	26.891
#2	.00602	156.93	.13641	.22065	1.8649	.02063	26.772
#3	.00679	162.52	.14298	.22118	1.8718	.02132	26.950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00579**	**.29359**	**.39569**	**.13025**	**478.37**	**5.8315**	**.08102**
Stddev	.00010	.00493	.00710	.00324	5.51	.0248	.00145
%RSD	1.7626	1.6786	1.7950	2.4842	1.1527	.42569	1.7898
#1	.00585	.29346	.39381	.13121	483.23	5.8454	.08053
#2	.00567	.28874	.38972	.12664	472.38	5.8028	.07988
#3	.00584	.29859	.40355	.13289	479.51	5.8462	.08265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.160**	**12.567**	**.01721**	**1.4061**	**.17831**	F **15626.**	**.49528**
Stddev	.131	.092	.00064	.0052	.00406	359.	.01035
%RSD	.86701	.73488	3.7219	.37044	2.2749	2.2958	2.0896
#1	15.278	12.585	.01705	1.4063	.17739	15560.	.49271
#2	15.019	12.467	.01667	1.4007	.17479	15305.	.48646
#3	15.183	12.649	.01792	1.4111	.18275	16013.	.50667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068541 Acquired: 3/28/2011 19:58:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **65.872**	F **136.46**	F **-20334.**	**-.00124**	**.01424**	F **603.06**	**.01241**
Stddev	7.024	2.53	401.	.00384	.00197	17.79	.00025
%RSD	10.663	1.8529	1.9741	309.10	13.820	2.9504	2.0248
#1	60.870	137.19	-20237.	-.00420	.01341	597.70	.01225
#2	73.902	133.65	-19990.	-.00262	.01282	588.56	.01229
#3	62.844	138.54	-20775.	.00310	.01649	622.91	.01270
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21196**	**.25568**	**.01652**	**.70519**	**.72549**	F **270.70**
Stddev	.00075	.00087	.00145	.01167	.01217	2.91
%RSD	.35216	.34174	8.8014	1.6547	1.6770	1.0751
#1	.21192	.25485	.01817	.70119	.72775	269.60
#2	.21123	.25560	.01542	.69605	.71235	268.50
#3	.21272	.25659	.01598	.71833	.73637	274.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48174.**	**62245.**
Stddev	655.	784.
%RSD	1.3605	1.2597
#1	48270.	61491.
#2	48776.	63056.
#3	47476.	62188.

Approved: March 29, 2011

Sample Name: L1103068542 Acquired: 3/28/2011 20:02:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**113.45**	**.10458**	**.15955**	**1.8280**	**.01372**	**31.736**
Stddev	.00065	1.52	.00174	.00312	.0095	.00010	.233
%RSD	12.486	1.3429	1.6675	1.9536	.52136	.75458	.73321
#1	.00519	111.74	.10268	.16311	1.8389	.01360	31.979
#2	.00585	114.65	.10611	.15825	1.8232	.01379	31.714
#3	.00455	113.98	.10494	.15730	1.8218	.01376	31.515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00671**	**.17943**	**.28137**	**.12571**	**322.92**	**14.414**	**.06112**
Stddev	.00004	.00240	.00058	.00331	2.85	.087	.00075
%RSD	.54183	1.3403	.20788	2.6336	.88357	.60189	1.2305
#1	.00675	.17668	.28093	.12201	326.19	14.512	.06026
#2	.00669	.18115	.28116	.12840	321.65	14.380	.06147
#3	.00669	.18045	.28204	.12672	320.92	14.349	.06164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.983**	**9.0887**	**.01335**	**.73796**	**.12522**	F **22752.**	**.40317**
Stddev	.131	.1017	.00021	.00452	.00286	367.	.00540
%RSD	.93619	1.1184	1.5556	.61187	2.2853	1.6144	1.3403
#1	14.133	9.2000	.01317	.74146	.12213	22346.	.39697
#2	13.924	9.0651	.01358	.73956	.12779	23062.	.40572
#3	13.891	9.0009	.01331	.73287	.12574	22847.	.40683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068542 Acquired: 3/28/2011 20:02:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **69.485**	F **187.06**	F **-28989.**	**.00028**	**.01466**	F **587.24**	**.01056**
Stddev	6.327	2.70	490.	.00145	.00154	11.03	.00044
%RSD	9.1061	1.4432	1.6909	524.02	10.485	1.8774	4.2095
#1	62.195	184.11	-28444.	-.00061	.01312	575.09	.01028
#2	73.554	189.40	-29393.	.00195	.01620	596.62	.01107
#3	72.705	187.67	-29131.	-.00051	.01466	590.00	.01034
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22967**	**.29045**	**.01147**	**.52569**	**.71112**	F **213.73**
Stddev	.00102	.00128	.00164	.00589	.00822	2.36
%RSD	.44389	.44023	14.281	1.1214	1.1556	1.1052
#1	.23065	.29191	.01167	.51892	.70232	211.16
#2	.22973	.28955	.00975	.52961	.71860	215.80
#3	.22862	.28989	.01301	.52856	.71242	214.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48715.**	**61902.**
Stddev	384.	939.
%RSD	.78810	1.5165
#1	49125.	60838.
#2	48365.	62252.
#3	48654.	62616.

Approved: March 29, 2011

Sample Name: L1103068543 Acquired: 3/28/2011 20:06:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00655**	**149.13**	**.12528**	**.23038**	**1.9139**	**.02081**	**24.586**
Stddev	.00051	5.47	.00521	.00269	.0031	.00073	.090
%RSD	7.8336	3.6692	4.1620	1.1692	.15933	3.5227	.36464
#1	.00713	149.79	.12484	.22782	1.9155	.02096	24.520
#2	.00617	143.36	.12030	.23319	1.9104	.02001	24.549
#3	.00633	154.25	.13070	.23014	1.9159	.02145	24.688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00516**	**.51928**	**.33204**	**.12949**	**495.33**	**5.1869**	**.06562**
Stddev	.00019	.02578	.01352	.00800	2.94	.0063	.00072
%RSD	3.6867	4.9651	4.0725	6.1774	.59407	.12145	1.0985
#1	.00509	.52651	.33493	.13092	492.32	5.1937	.06499
#2	.00501	.49065	.31731	.12088	495.48	5.1860	.06640
#3	.00538	.54067	.34389	.13668	498.20	5.1812	.06546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.651**	**14.015**	**.01641**	**2.6169**	**.16788**	F **12297.**	**.48883**
Stddev	.103	.089	.00106	.0116	.00897	630.	.02493
%RSD	.65693	.63619	6.4815	.44445	5.3444	5.1260	5.0996
#1	15.533	13.918	.01684	2.6105	.16988	12466.	.49402
#2	15.705	14.035	.01520	2.6098	.15808	11599.	.46172
#3	15.716	14.093	.01719	2.6303	.17569	12825.	.51076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068543 Acquired: 3/28/2011 20:06:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **64.447**	F **107.29**	F **-15169.**	**-.00341**	**.01185**	F **577.74**	**.01137**
Stddev	1.496	5.21	755.	.00082	.00166	26.47	.00081
%RSD	2.3220	4.8539	4.9747	23.972	14.037	4.5821	7.0961
#1	65.981	108.40	-15389.	-.00328	.01375	588.18	.01109
#2	64.370	101.62	-14329.	-.00267	.01064	547.64	.01073
#3	62.991	111.85	-15790.	-.00428	.01117	597.40	.01227
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19765**	**.22158**	**.01456**	**.63601**	**.68954**	F **227.54**
Stddev	.00074	.00062	.00220	.02343	.03198	8.01
%RSD	.37536	.28083	15.136	3.6843	4.6372	3.5217
#1	.19725	.22113	.01259	.64138	.69673	228.72
#2	.19720	.22131	.01416	.61035	.65459	219.00
#3	.19851	.22229	.01694	.65629	.71731	234.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48891.**	**62088.**
Stddev	1779.	180.
%RSD	3.6395	.28983
#1	48354.	62296.
#2	50878.	61991.
#3	47443.	61977.

Approved: March 29, 2011

Sample Name: L1103068544 Acquired: 3/28/2011 20:09:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00465**	**91.966**	**.09130**	**.12761**	**1.8534**	**.01171**	**34.636**
Stddev	.00049	2.867	.00331	.00104	.0256	.00028	.498
%RSD	10.633	3.1177	3.6304	.81565	1.3839	2.4161	1.4364
#1	.00474	89.774	.09110	.12856	1.8747	.01173	35.064
#2	.00509	95.211	.09471	.12777	1.8606	.01197	34.755
#3	.00412	90.914	.08809	.12650	1.8249	.01141	34.090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00683**	**.13950**	**.20949**	**.13922**	**253.78**	**9.9759**	**.05038**
Stddev	.00019	.00552	.00641	.00615	2.58	.1345	.00174
%RSD	2.8430	3.9586	3.0619	4.4159	1.0152	1.3479	3.4472
#1	.00681	.13970	.20954	.13875	255.97	10.100	.05131
#2	.00704	.14492	.21588	.14559	254.43	9.9953	.05146
#3	.00665	.13388	.20305	.13332	250.94	9.8328	.04838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.245**	**7.2897**	**.01185**	**.85868**	**.11612**	F **26114.**	**.37745**
Stddev	.071	.0889	.00031	.01153	.00550	1057.	.01578
%RSD	.50191	1.2198	2.6195	1.3428	4.7402	4.0470	4.1808
#1	14.290	7.3673	.01204	.87095	.11604	26195.	.37684
#2	14.283	7.3091	.01201	.85702	.12166	27128.	.39354
#3	14.163	7.1926	.01149	.84807	.11065	25019.	.36199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068544 Acquired: 3/28/2011 20:09:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **63.312**	F **189.55**	F **-28908.**	**.00297**	**.01177**	F **606.01**	**.01072**
Stddev	5.070	7.45	1373.	.00158	.00126	25.92	.00048
%RSD	8.0073	3.9297	4.7508	53.218	10.671	4.2765	4.4605
#1	68.094	189.91	-29084.	.00303	.01039	613.71	.01091
#2	63.844	196.81	-30185.	.00453	.01285	627.21	.01108
#3	57.997	181.92	-27455.	.00136	.01207	577.12	.01018
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24172**	**.28756**	**.00836**	**.41774**	**.78320**	F **174.14**
Stddev	.00336	.00386	.00034	.01170	.03015	4.35
%RSD	1.3914	1.3425	4.0938	2.8002	3.8502	2.4994
#1	.24455	.29068	.00811	.41904	.78314	174.19
#2	.24260	.28876	.00820	.42874	.81338	178.47
#3	.23800	.28324	.00875	.40545	.75307	169.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48247.**	**60890.**
Stddev	1399.	610.
%RSD	2.9003	1.0014
#1	48050.	60254.
#2	46958.	60944.
#3	49735.	61470.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 20:13:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40922**	**10.044**	**.40385**	**.50268**	**1.0110**	**.05024**	**9.9924**
Stddev	.00359	.034	.00459	.00234	.0039	.00035	.0166
%RSD	.87611	.33488	1.1368	.46517	.38944	.68877	.16611
#1	.40632	10.060	.40237	.50250	1.0071	.05010	9.9762
#2	.40813	10.005	.40018	.50043	1.0111	.04998	9.9915
#3	.41323	10.066	.40900	.50510	1.0150	.05063	10.009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05039**	**.20347**	**.50706**	**.50892**	**3.9007**	**49.412**	**.99666**
Stddev	.00055	.00207	.00353	.00562	.0019	.089	.00284
%RSD	1.0957	1.0164	.69716	1.1043	.04881	.18109	.28477
#1	.05033	.20305	.50644	.50801	3.8991	49.312	.99408
#2	.04987	.20165	.50388	.50382	3.9028	49.438	.99619
#3	.05097	.20572	.51086	.51494	3.9003	49.485	.99970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5254**	**.48027**	**.98547**	**50.056**	**.50230**	F **4.9046**	**.50257**
Stddev	.0372	.00258	.00953	.038	.00615	1.0687	.00552
%RSD	.39003	.53712	.96669	.07573	1.2244	21.789	1.0979
#1	9.5072	.47906	.98612	50.093	.50067	5.9945	.50314
#2	9.5007	.47851	.97564	50.018	.49713	4.8609	.49678
#3	9.5681	.48323	.99466	50.058	.50910	3.8585	.50777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 20:13:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **36.643**	**10.217**	F **4.9250**	**1.2149**	**.39505**	**5.2896**	**1.0040**
Stddev	10.060	.184	5.5037	.0159	.00416	.0543	.0172
%RSD	27.454	1.7965	111.75	1.3048	1.0525	1.0266	1.7146
#1	25.912	10.204	9.7828	1.2186	.39649	5.2270	.99392
#2	45.859	10.040	-1.0524	1.1975	.39037	5.3178	.99425
#3	38.157	10.407	6.0447	1.2285	.39830	5.3240	1.0239
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99535**	**.97564**	**.51318**	**1.0171**	**.99031**	F **1.2029**
Stddev	.00060	.00105	.00489	.0061	.01260	.0195
%RSD	.05990	.10803	.95320	.59819	1.2726	1.6179
#1	.99548	.97585	.51335	1.0134	.98645	1.2067
#2	.99470	.97449	.50821	1.0137	.98008	1.2202
#3	.99587	.97657	.51798	1.0241	1.0044	1.1818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50016.**	**59530.**
Stddev	387.	193.
%RSD	.77318	.32480
#1	50145.	59705.
#2	50321.	59563.
#3	49581.	59323.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 20:17:03 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00571**	**.00056**	**.00073**	**-.00015**	**.00001**	**.00385**
Stddev	.00014	.00371	.00067	.00031	.00005	.00002	.00598
%RSD	46.588	64.976	119.41	42.335	35.976	114.28	155.19
#1	-.00038	.00983	.00113	.00103	-.00020	.00000	.00848
#2	-.00014	.00263	.00072	.00042	-.00009	.00003	.00598
#3	-.00038	.00468	-.00018	.00074	-.00016	.00001	-.00290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00003**	**-.00026**	**-.00020**	**.01348**	**.07807**	**-.00319**
Stddev	.00005	.00020	.00020	.00022	.00192	.02355	.00097
%RSD	587.58	618.60	74.675	109.65	14.257	30.166	30.483
#1	.00000	.00000	-.00040	-.00006	.01515	.08271	-.00427
#2	-.00004	-.00024	-.00036	-.00045	.01390	.09895	-.00289
#3	.00007	.00015	-.00004	-.00009	.01138	.05254	-.00240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00767**	**.00025**	**.00006**	**.01435**	**-.00008**	F **7.1311**	**-.00075**
Stddev	.00850	.00022	.00015	.00649	.00072	11.870	.00069
%RSD	110.80	89.534	240.53	45.250	903.30	166.46	92.419
#1	-.00956	.00000	-.00009	.01753	.00010	19.567	-.00007
#2	-.01507	.00043	.00007	.01865	.00053	-4.0784	-.00072
#3	.00161	.00031	.00020	.00688	-.00087	5.9051	-.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 20:17:03 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **28.627**	F **.04407**	F **-7.3417**	**-.00107**	**-.00190**	**-.17123**	**-.00002**
Stddev	1.161	.06061	1.3562	.00013	.00274	.21931	.00017
%RSD	4.0541	137.52	18.473	11.806	144.14	128.08	768.53
#1	29.016	.10937	-8.6760	-.00113	-.00024	.08127	.00012
#2	27.322	-.01038	-5.9645	-.00092	-.00040	-.31426	.00002
#3	29.544	.03322	-7.3845	-.00115	-.00506	-.28071	-.00020
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00094**	**.00017**	**-.00034**	**.00022**	F **.16192**
Stddev	.00004	.00036	.00064	.00013	.00073	.05156
%RSD	313.81	38.514	382.42	38.015	322.72	31.844
#1	.00006	.00131	-.00036	-.00030	.00083	.15002
#2	.00000	.00059	-.00002	-.00023	.00042	.11734
#3	-.00002	.00093	.00088	-.00048	-.00058	.21839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51148.**	**59670.**
Stddev	580.	142.
%RSD	1.1335	.23861
#1	50672.	59795.
#2	51793.	59515.
#3	50978.	59702.

Approved: March 29, 2011

Sample Name: PBS 79 Acquired: 3/28/2011 20:20:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00123**	**-.00275**	**-.00194**	**.00036**	**-.00002**	**-.01530**
Stddev	.0004	.00232	.00080	.00034	.00008	.00001	.00148
%RSD	8871.9	189.07	29.182	17.497	22.748	81.440	9.6756
#1	.00045	-.00161	-.00227	-.00232	.00039	-.00002	-.01701
#2	-.00033	.00126	-.00368	-.00166	.00027	.00000	-.01442
#3	-.00014	-.00333	-.00230	-.00184	.00042	-.00003	-.01447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.00039**	**.00068**	**-.00054**	**.01194**	**.84948**	**-.00297**
Stddev	.00006	.00010	.00027	.00013	.00136	.00822	.00096
%RSD	22.234	26.596	39.620	23.904	11.359	.96822	32.323
#1	.00030	-.00032	.00098	-.00049	.01347	.85207	-.00401
#2	.00034	-.00051	.00063	-.00044	.01089	.85609	-.00211
#3	.00021	-.00034	.00044	-.00068	.01146	.84027	-.00280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00433**	**-.00010**	**.00010**	**.01427**	**.00050**	F **-54.356**	**-.00013**
Stddev	.01580	.00038	.00011	.00575	.00020	6.217	.00078
%RSD	364.93	389.09	111.33	40.265	40.451	11.437	590.54
#1	-.02238	.00033	.00023	.00767	.00064	-61.366	.00038
#2	.00243	-.00041	.00006	.01816	.00058	-52.193	-.00103
#3	.00696	-.00021	.00002	.01698	.00027	-49.510	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: PBS 79 Acquired: 3/28/2011 20:20:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **39.123**	F **15.239**	F **-2761.1**	**.00010**	**.00195**	**2.7406**	**.00022**
Stddev	2.766	.206	22.5	.00076	.00134	.3574	.00009
%RSD	7.0712	1.3494	.81506	780.74	68.825	13.042	41.905
#1	39.783	15.402	-2775.4	.00039	.00051	2.7998	.00012
#2	41.500	15.308	-2772.6	-.00077	.00217	3.0647	.00030
#3	36.086	15.008	-2735.1	.00067	.00318	2.3572	.00025
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00079**	**-.00168**	**-.00016**	**-.00197**	**.27999**
Stddev	.00003	.00029	.00041	.00013	.00016	.22276
%RSD	11.417	37.524	24.248	80.260	8.2065	79.557
#1	-.00029	.00112	-.00168	-.00025	-.00181	.52391
#2	-.00023	.00068	-.00209	-.00001	-.00214	.22875
#3	-.00025	.00056	-.00127	-.00022	-.00196	.08733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48422.**	**58265.**
Stddev	501.	481.
%RSD	1.0349	.82565
#1	48130.	57709.
#2	48136.	58543.
#3	49001.	58542.

Approved: March 29, 2011

Sample Name: LCSS 79 Acquired: 3/28/2011 20:24:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19665**	**.00048**	**.19485**	**-.00236**	**.00004**	**.00000**	**-.01774**
Stddev	.00174	.00279	.00324	.00023	.00006	.00003	.00378
%RSD	.88506	577.61	1.6646	9.8525	166.94	984.46	21.286
#1	.19821	.00205	.19703	-.00260	.00011	-.00003	-.01926
#2	.19697	.00213	.19640	-.00235	-.00002	.00004	-.01344
#3	.19477	-.00273	.19112	-.00213	.00003	.00000	-.02052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02519**	**-.00039**	**.00055**	**.25440**	**.01746**	**.03312**	**-.00179**
Stddev	.00044	.00014	.00024	.00392	.00177	.02157	.00081
%RSD	1.7366	34.925	43.107	1.5409	10.133	65.118	45.410
#1	.02561	-.00055	.00080	.25772	.01758	.04552	-.00088
#2	.02523	-.00030	.00032	.25541	.01916	.04564	-.00244
#3	.02473	-.00033	.00054	.25007	.01563	.00822	-.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.25214**	**-.00012**	**.01776**	**.00053**	F **-52.105**	**.24863**
Stddev	.00474	.00144	.00009	.00220	.00018	12.168	.00221
%RSD	657.99	.57118	79.954	12.368	34.201	23.353	.88938
#1	-.00357	.25171	-.00008	.01805	.00048	-38.477	.24948
#2	-.00008	.25097	-.00022	.01543	.00072	-61.880	.25029
#3	.00581	.25375	-.00004	.01980	.00037	-55.960	.24612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: LCSS 79 Acquired: 3/28/2011 20:24:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **41.376**	**.20374**	F **-21.308**	**.00069**	**.00347**	**2.9968**	**.00032**
Stddev	10.304	.00388	5.470	.00137	.00096	.1914	.00018
%RSD	24.903	1.9037	25.673	199.65	27.746	6.3872	56.081
#1	52.988	.20502	-23.831	.00217	.00409	2.9831	.00045
#2	37.815	.19938	-25.061	-.00053	.00395	2.8126	.00040
#3	33.325	.20681	-15.031	.00042	.00236	3.1947	.00012
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00203**	**-.00150**	**-.00051**	**.00295**	**.30308**
Stddev	.00003	.00091	.00046	.00016	.00202	.13774
%RSD	8.8810	44.815	30.462	31.893	68.393	45.445
#1	-.00036	.00241	-.00106	-.00066	.00168	.16267
#2	-.00034	.00099	-.00197	-.00053	.00190	.30859
#3	-.00030	.00269	-.00146	-.00033	.00528	.43798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48618.**	**59212.**
Stddev	586.	220.
%RSD	1.2048	.37228
#1	48113.	59444.
#2	48483.	59188.
#3	49260.	59005.

Approved: March 29, 2011

Sample Name: L1103068619 Acquired: 3/28/2011 20:28:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00333**	**86.655**	**.08353**	**.11993**	**1.0643**	**.01072**	**54.809**
Stddev	.00074	1.423	.00126	.00150	.0032	.00015	.096
%RSD	22.206	1.6425	1.5044	1.2535	.29645	1.3985	.17434
#1	.00368	85.934	.08262	.11928	1.0613	.01074	54.779
#2	.00248	88.295	.08496	.11887	1.0639	.01085	54.732
#3	.00384	85.737	.08300	.12165	1.0676	.01056	54.916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00591**	**.07910**	**.22772**	**.09851**	**211.44**	**4.4100**	**.04096**
Stddev	.00014	.00126	.00408	.00209	.64	.0138	.00075
%RSD	2.4313	1.5912	1.7925	2.1192	.30085	.31374	1.8293
#1	.00575	.07838	.22784	.09691	211.25	4.4215	.04029
#2	.00602	.08056	.23175	.10087	210.93	4.4139	.04081
#3	.00597	.07837	.22359	.09776	212.15	4.3947	.04177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7036**	**4.3138**	**.01010**	**1.5016**	**.07458**	F **15762.**	**.29142**
Stddev	.0341	.0107	.00022	.0052	.00137	263.	.00555
%RSD	.35109	.24930	2.2218	.34267	1.8329	1.6705	1.9060
#1	9.7254	4.3114	.00987	1.4961	.07335	15565.	.28721
#2	9.6643	4.3044	.01032	1.5062	.07605	16061.	.29771
#3	9.7210	4.3255	.01013	1.5025	.07432	15660.	.28933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068619 Acquired: 3/28/2011 20:28:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **62.558**	F **180.14**	F **-23742.**	**.00321**	**.01035**	F **545.66**	**.00869**
Stddev	6.071	2.06	447.	.00159	.00102	9.99	.00018
%RSD	9.7041	1.1436	1.8817	49.627	9.8291	1.8316	2.0625
#1	56.754	178.84	-23478.	.00197	.01034	539.52	.00864
#2	68.865	182.52	-24258.	.00265	.00934	557.20	.00889
#3	62.057	179.07	-23490.	.00500	.01137	540.27	.00855
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33545**	**.19753**	**.01086**	**.42409**	**.48743**	F **153.73**
Stddev	.00056	.00025	.00081	.00656	.00378	1.54
%RSD	.16557	.12566	7.4110	1.5475	.77461	1.0028
#1	.33562	.19773	.01121	.42412	.48536	153.12
#2	.33483	.19761	.01144	.43063	.49179	155.48
#3	.33591	.19725	.00994	.41751	.48514	152.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48042.**	**61752.**
Stddev	404.	332.
%RSD	.84104	.53801
#1	48291.	61423.
#2	47576.	62088.
#3	48261.	61746.

Approved: March 29, 2011

Sample Name: L1103068619PS Acquired: 3/28/2011 20:31:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360131-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20029**	**80.722**	**.26161**	**1.0454**	**1.4119**	**.03359**	**52.747**
Stddev	.00083	.839	.00324	.0040	.0237	.00008	.907
%RSD	.41566	1.0396	1.2367	.38606	1.6776	.24112	1.7187
#1	.19934	79.869	.26058	1.0435	1.4369	.03353	53.703
#2	.20090	81.547	.26524	1.0426	1.3897	.03356	51.899
#3	.20063	80.751	.25902	1.0500	1.4092	.03368	52.639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02870**	**.16399**	**.43678**	**.31797**	**187.25**	**27.155**	**.52155**
Stddev	.00014	.00079	.00048	.00153	2.98	.448	.00763
%RSD	.49993	.48287	.11033	.47969	1.5894	1.6513	1.4623
#1	.02854	.16320	.43639	.31684	190.21	27.627	.52987
#2	.02882	.16478	.43663	.31970	184.26	26.735	.51489
#3	.02875	.16399	.43732	.31735	187.28	27.103	.51988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.888**	**3.9908**	**.50625**	**25.941**	**.30100**	F **13748.**	**.47932**
Stddev	.173	.0665	.00042	.453	.00157	63.	.00075
%RSD	1.3447	1.6665	.08317	1.7456	.52301	.46078	.15609
#1	13.045	4.0586	.50593	26.444	.29943	13675.	.47849
#2	12.702	3.9257	.50672	25.565	.30258	13781.	.47994
#3	12.916	3.9880	.50608	25.815	.30098	13787.	.47952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068619PS Acquired: 3/28/2011 20:31:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360131-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **67.104**	F **162.62**	F **-20723.**	**.56101**	**.19835**	F **1099.0**	**.00844**
Stddev	4.168	1.05	88.	.00413	.00039	4.1	.00026
%RSD	6.2110	.64862	.42231	.73588	.19438	.37113	3.0614
#1	70.011	161.59	-20625.	.55751	.19836	1095.4	.00859
#2	68.972	163.70	-20793.	.56556	.19873	1103.4	.00859
#3	62.329	162.58	-20751.	.55996	.19796	1098.2	.00814
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.77497**	**.63242**	**.23702**	**.86796**	**.88395**	F **132.66**
Stddev	.01335	.01090	.00081	.00222	.00234	.60
%RSD	1.7226	1.7231	.33972	.25555	.26439	.45402
#1	.78959	.64383	.23695	.86549	.88149	132.88
#2	.76342	.62212	.23785	.86864	.88614	131.97
#3	.77191	.63130	.23625	.86976	.88423	133.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49228.**	**62076.**
Stddev	74.	665.
%RSD	.15131	1.0718
#1	49240.	61410.
#2	49149.	62741.
#3	49296.	62076.

Approved: March 29, 2011

Sample Name: L1103068619SDL Acquired: 3/28/2011 20:35:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360131-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**17.272**	**.01869**	**.02384**	**.21006**	**.00214**	**11.007**
Stddev	.00025	.053	.00086	.00013	.00428	.00001	.239
%RSD	50.861	.30727	4.5892	.56255	2.0385	.32956	2.1689
#1	.00029	17.328	.01802	.02400	.21287	.00214	11.156
#2	.00042	17.222	.01838	.02375	.21217	.00215	11.133
#3	.00078	17.266	.01965	.02378	.20513	.00214	10.731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**.01642**	**.04570**	**.02026**	**44.283**	**.94139**	**.00630**
Stddev	.00002	.00025	.00061	.00053	.760	.03509	.00059
%RSD	1.7358	1.5223	1.3394	2.6280	1.7156	3.7271	9.3263
#1	.00110	.01668	.04626	.02081	44.741	.93889	.00607
#2	.00107	.01639	.04505	.01974	44.702	.97765	.00697
#3	.00106	.01618	.04579	.02023	43.406	.90761	.00587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1280**	**.90182**	**.00153**	**.30373**	**.01535**	F **3348.8**	**.06313**
Stddev	.0316	.01730	.00008	.00879	.00018	32.6	.00169
%RSD	1.4831	1.9181	5.2910	2.8943	1.1850	.97283	2.6763
#1	2.1538	.91328	.00153	.30605	.01556	3377.8	.06135
#2	2.1374	.91026	.00161	.31112	.01521	3355.1	.06471
#3	2.0928	.88193	.00145	.29401	.01530	3313.5	.06333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068619SDL Acquired: 3/28/2011 20:35:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360131-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **30.345**	F **39.372**	F **-5031.6**	**-.00074**	**.00142**	F **111.22**	**.00185**
Stddev	4.995	.318	44.0	.00085	.00255	1.08	.00011
%RSD	16.462	.80803	.87350	115.97	180.09	.97491	5.9945
#1	27.889	39.711	-5070.5	-.00040	.00426	112.00	.00198
#2	36.093	39.323	-5040.4	-.00010	.00066	111.68	.00182
#3	27.053	39.081	-4983.9	-.00171	-.00067	109.98	.00177
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06616**	**.04091**	**.00401**	**.08452**	**.10539**	**29.498**
Stddev	.00136	.00082	.00083	.00015	.00108	.156
%RSD	2.0515	2.0042	20.795	.18112	1.0248	.52721
#1	.06704	.04177	.00306	.08445	.10617	29.535
#2	.06684	.04082	.00435	.08441	.10583	29.632
#3	.06460	.04013	.00463	.08469	.10415	29.328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51152.**	**60821.**
Stddev	184.	154.
%RSD	.35906	.25294
#1	50956.	60950.
#2	51178.	60862.
#3	51321.	60651.

Approved: March 29, 2011

Sample Name: L1103068619SDL Acquired: 3/28/2011 20:38:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360131-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**3.3529**	**.00559**	**.00242**	**.04185**	**.00045**	**2.1570**
Stddev	.00076	.0128	.00082	.00007	.00139	.00002	.0704
%RSD	759.21	.38084	14.715	2.9868	3.3329	3.6802	3.2660
#1	.00030	3.3409	.00478	.00245	.04096	.00043	2.1288
#2	-.00097	3.3514	.00642	.00234	.04345	.00045	2.2371
#3	.00038	3.3664	.00558	.00247	.04113	.00046	2.1050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00342**	**.00841**	**.00377**	**8.8643**	**.22342**	**-.00010**
Stddev	.00001	.00018	.00018	.00031	.2338	.01193	.00077
%RSD	5.5434	5.2699	2.1340	8.0911	2.6379	5.3412	787.65
#1	.00013	.00356	.00841	.00349	8.7525	.21504	-.00090
#2	.00011	.00349	.00824	.00373	9.1330	.21813	-.00002
#3	.00012	.00322	.00859	.00410	8.7073	.23708	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42477**	**.18184**	**-.00002**	**.05680**	**.00287**	**706.32**	**.01261**
Stddev	.00773	.00470	.00013	.00635	.00046	3.53	.00080
%RSD	1.8186	2.5841	602.15	11.188	15.984	.49931	6.3099
#1	.42199	.18057	-.00001	.06410	.00300	709.05	.01245
#2	.43351	.18704	.00010	.05375	.00326	702.33	.01348
#3	.41883	.17790	-.00016	.05254	.00236	707.57	.01191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103068619SDL Acquired: 3/28/2011 20:38:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360131-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.752**	**8.0046**	F **-1038.2**	**-.00299**	**-.00077**	**21.192**	**-.00007**
Stddev	1.840	.0971	1.5	.00097	.00061	.355	.00017
%RSD	8.4577	1.2135	.14464	32.483	79.603	1.6742	230.52
#1	19.666	8.1166	-1039.6	-.00412	-.00064	21.443	-.00015
#2	22.447	7.9528	-1038.4	-.00240	-.00144	21.346	-.00019
#3	23.143	7.9443	-1036.6	-.00247	-.00023	20.786	.00012
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01317**	**.00857**	**.00239**	**.01658**	**.02248**	**4.9059**
Stddev	.00046	.00023	.00097	.00015	.00028	.0860
%RSD	3.4766	2.6646	40.679	.92925	1.2275	1.7523
#1	.01295	.00863	.00344	.01658	.02280	4.9244
#2	.01370	.00876	.00152	.01643	.02236	4.9812
#3	.01287	.00832	.00221	.01674	.02229	4.8123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**52288.**	**60523.**
Stddev	201.	574.
%RSD	.38410	.94898
#1	52381.	60503.
#2	52057.	59959.
#3	52425.	61107.

Approved: March 29, 2011

Sample Name: L1103068620 Acquired: 3/28/2011 20:42:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00381**	**118.45**	**.10262**	**.14303**	**1.4339**	**.01279**	**70.177**
Stddev	.00039	2.52	.00571	.00196	.0317	.00026	1.744
%RSD	10.164	2.1243	5.5677	1.3681	2.2085	2.0537	2.4845
#1	.00423	119.72	.10675	.14096	1.4031	.01291	68.403
#2	.00373	120.08	.10500	.14485	1.4664	.01297	71.889
#3	.00347	115.55	.09610	.14327	1.4321	.01249	70.238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00663**	**.09933**	**.49985**	**.14331**	**269.50**	**8.3215**	**.05718**
Stddev	.00010	.00403	.01388	.00679	5.04	.2091	.00049
%RSD	1.4732	4.0596	2.7759	4.7402	1.8707	2.5125	.84937
#1	.00668	.10202	.50819	.14845	264.16	8.0957	.05668
#2	.00669	.10128	.50753	.14587	274.18	8.5083	.05765
#3	.00651	.09470	.48384	.13561	270.16	8.3606	.05720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.095**	**5.6533**	**.01209**	**.68863**	**.09697**	F **30431.**	**.33339**
Stddev	.257	.1205	.00059	.02060	.00424	1333.	.01431
%RSD	1.9601	2.1316	4.8516	2.9912	4.3731	4.3801	4.2908
#1	12.801	5.5347	.01271	.66570	.09993	31470.	.34499
#2	13.277	5.7757	.01199	.70557	.09885	30895.	.33778
#3	13.206	5.6497	.01155	.69462	.09211	28928.	.31741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068620 Acquired: 3/28/2011 20:42:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **67.759**	F **224.65**	F **-29111.**	**.00281**	**.01202**	F **549.10**	**.01101**
Stddev	7.878	9.21	1209.	.00183	.00245	22.66	.00058
%RSD	11.627	4.1003	4.1519	65.057	20.408	4.1276	5.3081
#1	76.034	230.10	-30039.	.00325	.01078	565.97	.01117
#2	66.891	229.83	-29550.	.00438	.01044	558.00	.01151
#3	60.350	214.01	-27744.	.00080	.01485	523.34	.01037
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41143**	**.20228**	**.01008**	**.50402**	**.93894**	F **179.40**
Stddev	.01025	.00462	.00224	.01257	.03550	5.97
%RSD	2.4911	2.2829	22.238	2.4942	3.7808	3.3277
#1	.40080	.19711	.00950	.50873	.96069	183.11
#2	.42125	.20600	.01255	.51355	.95815	182.57
#3	.41224	.20372	.00818	.48977	.89797	172.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47260.**	**58866.**
Stddev	1482.	382.
%RSD	3.1354	.64809
#1	46215.	58933.
#2	46609.	58455.
#3	48956.	59209.

Approved: March 29, 2011

Sample Name: L1103068621 Acquired: 3/28/2011 20:45:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00439**	**167.06**	**.17984**	**.23965**	**1.4334**	**.01772**	**62.089**
Stddev	.00088	1.00	.00116	.00110	.0014	.00011	.144
%RSD	19.924	.59977	.64279	.45705	.09394	.59745	.23140
#1	.00372	168.19	.18100	.24044	1.4320	.01762	61.936
#2	.00538	166.71	.17984	.23840	1.4336	.01783	62.110
#3	.00408	166.28	.17869	.24013	1.4347	.01770	62.221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00651**	**.13156**	**.42315**	**.12092**	**496.63**	**6.5844**	**.06762**
Stddev	.00005	.00135	.00239	.00236	1.88	.0387	.00035
%RSD	.77158	1.0274	.56410	1.9493	.37873	.58808	.52439
#1	.00647	.13194	.42340	.12076	496.19	6.5529	.06803
#2	.00656	.13267	.42540	.12336	495.00	6.5727	.06747
#3	.00649	.13005	.42065	.11865	498.69	6.6276	.06737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.315**	**3.3240**	**.02089**	**1.1628**	**.10800**	F **21971.**	**.37010**
Stddev	.048	.0112	.00003	.0068	.00183	253.	.00536
%RSD	.39240	.33598	.15805	.58399	1.6931	1.1511	1.4472
#1	12.263	3.3129	.02093	1.1550	.10849	22000.	.37326
#2	12.323	3.3238	.02087	1.1677	.10954	22207.	.37312
#3	12.359	3.3353	.02088	1.1657	.10598	21704.	.36392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068621 Acquired: 3/28/2011 20:45:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **74.110**	F **140.17**	F **-14902.**	**.00053**	**.01127**	F **496.33**	**.01240**
Stddev	2.031	1.63	161.	.00063	.00224	8.55	.00028
%RSD	2.7402	1.1623	1.0818	118.75	19.904	1.7225	2.2754
#1	73.579	140.72	-14959.	.00018	.00868	496.44	.01242
#2	76.353	141.45	-15027.	.00125	.01246	504.82	.01267
#3	72.397	138.33	-14720.	.00015	.01267	487.73	.01210
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38279**	**.15823**	**.02028**	**.77303**	**.44514**	F **262.26**
Stddev	.00067	.00028	.00016	.00359	.00498	.53
%RSD	.17375	.17413	.77380	.46502	1.1177	.20150
#1	.38202	.15816	.02046	.77145	.44718	262.39
#2	.38320	.15800	.02017	.77715	.44877	262.72
#3	.38315	.15853	.02022	.77050	.43947	261.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47944.**	**61104.**
Stddev	363.	142.
%RSD	.75720	.23171
#1	47832.	61024.
#2	47650.	61021.
#3	48350.	61268.

Approved: March 29, 2011

Sample Name: L1103068622 Acquired: 3/28/2011 20:49:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00253**	**66.520**	**.06665**	**.08330**	**.96408**	**.00715**	**342.58**
Stddev	.00031	.577	.00022	.00173	.02012	.00001	3.95
%RSD	12.083	.86670	.32675	2.0805	2.0874	.19809	1.1540
#1	.00265	67.083	.06662	.08167	.94094	.00716	340.57
#2	.00275	65.930	.06644	.08512	.97756	.00714	347.13
#3	.00218	66.545	.06688	.08312	.97373	.00714	340.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00542**	**.06484**	**.14468**	**.09407**	**141.29**	**6.2791**	**.04120**
Stddev	.00010	.00041	.00105	.00036	2.68	.1157	.00086
%RSD	1.9121	.63337	.72553	.38208	1.8941	1.8421	2.0812
#1	.00533	.06452	.14386	.09368	138.34	6.1455	.04027
#2	.00553	.06468	.14433	.09416	143.57	6.3459	.04135
#3	.00539	.06530	.14586	.09438	141.94	6.3459	.04197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.045**	**3.7794**	**.00751**	**.55140**	**.06563**	F **22358.**	**.22442**
Stddev	.290	.0633	.00019	.01006	.00089	96.	.00059
%RSD	1.6097	1.6755	2.5381	1.8252	1.3520	.43122	.26174
#1	17.761	3.7111	.00754	.54028	.06461	22278.	.22375
#2	18.341	3.8361	.00768	.55990	.06615	22332.	.22474
#3	18.032	3.7911	.00730	.55402	.06613	22465.	.22479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068622 Acquired: 3/28/2011 20:49:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **69.903**	F **474.46**	F **-28765.**	**.00445**	**.00911**	F **537.34**	**.00756**
Stddev	5.933	2.98	133.	.00188	.00161	2.90	.00024
%RSD	8.4869	.62749	.46388	42.264	17.624	.53957	3.1187
#1	63.826	471.36	-28634.	.00643	.01054	534.58	.00729
#2	70.206	474.70	-28762.	.00269	.00737	537.07	.00765
#3	75.679	477.30	-28901.	.00422	.00941	540.37	.00774
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3061**	**.19108**	**.00530**	**.28911**	**.75088**	F **121.73**
Stddev	.0260	.00350	.00049	.00148	.00486	.59
%RSD	1.9881	1.8319	9.2189	.51113	.64688	.48802
#1	1.2764	.18706	.00576	.29027	.74540	122.12
#2	1.3248	.19339	.00535	.28745	.75254	121.05
#3	1.3170	.19281	.00478	.28961	.75468	122.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46888.**	**61371.**
Stddev	228.	624.
%RSD	.48541	1.0173
#1	47130.	61607.
#2	46855.	60663.
#3	46678.	61843.

Approved: March 29, 2011

Sample Name: L1103068623 Acquired: 3/28/2011 20:53:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**167.26**	**.10929**	**.16020**	**1.4167**	**.01702**	**61.875**
Stddev	.00045	1.34	.00122	.00531	.0500	.00013	1.962
%RSD	23.670	.80154	1.1147	3.3134	3.5329	.75036	3.1716
#1	.00240	168.66	.10834	.16288	1.4470	.01715	63.219
#2	.00168	167.13	.10887	.16364	1.4442	.01700	62.784
#3	.00157	165.98	.11067	.15409	1.3589	.01690	59.623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00521**	**.18776**	**.28638**	**.11456**	**322.90**	**7.3372**	**.06160**
Stddev	.00009	.00272	.00112	.00153	9.50	.2150	.00249
%RSD	1.6817	1.4502	.39191	1.3347	2.9421	2.9307	4.0381
#1	.00524	.18977	.28766	.11554	328.61	7.4707	.06340
#2	.00527	.18884	.28593	.11535	328.17	7.4519	.06265
#3	.00511	.18466	.28555	.11280	311.94	7.0892	.05876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.756**	**6.8005**	**.01411**	**1.7078**	**.12062**	F **12948.**	**.27910**
Stddev	.298	.1937	.00013	.0541	.00196	195.	.00401
%RSD	2.0163	2.8489	.89090	3.1665	1.6274	1.5089	1.4363
#1	14.929	6.9233	.01425	1.7502	.12252	13064.	.28249
#2	14.927	6.9011	.01404	1.7262	.12073	13058.	.28013
#3	14.413	6.5772	.01402	1.6469	.11860	12722.	.27467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068623 Acquired: 3/28/2011 20:53:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **74.101**	F **135.50**	F **-14150.**	**.00070**	**.00992**	F **509.30**	**.01193**
Stddev	2.214	2.13	199.	.00224	.00390	7.77	.00004
%RSD	2.9878	1.5741	1.4057	322.37	39.282	1.5258	.33955
#1	71.747	136.88	-14257.	-.00037	.01352	512.66	.01196
#2	74.413	136.59	-14273.	.00327	.00578	514.82	.01195
#3	76.141	133.05	-13921.	-.00082	.01047	500.41	.01188
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41002**	**.17039**	**.01140**	**.55779**	**.41203**	F **262.71**
Stddev	.01248	.00611	.00150	.00553	.00326	2.35
%RSD	3.0430	3.5876	13.196	.99148	.79163	.89388
#1	.41947	.17488	.01280	.56339	.41579	265.36
#2	.41470	.17286	.01160	.55764	.41035	261.89
#3	.39588	.16343	.00981	.55233	.40995	260.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49999.**	**62549.**
Stddev	441.	931.
%RSD	.88204	1.4890
#1	49642.	61842.
#2	49863.	62199.
#3	50492.	63604.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 20:56:57 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39115**	**9.7005**	**.39236**	**.48332**	**1.0176**	**.04844**	**10.070**
Stddev	.00434	.0614	.00139	.00439	.0006	.00047	.025
%RSD	1.1106	.63264	.35479	.90933	.06271	.96526	.24889
#1	.39595	9.7704	.39139	.48778	1.0177	.04898	10.071
#2	.38748	9.6552	.39173	.47899	1.0181	.04810	10.095
#3	.39003	9.6761	.39396	.48319	1.0169	.04826	10.045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04909**	**.19828**	**.49075**	**.49486**	**3.9018**	**49.766**	**1.0030**
Stddev	.00031	.00118	.00403	.00287	.0223	.118	.0026
%RSD	.63464	.59686	.82065	.57986	.57158	.23647	.25449
#1	.04893	.19792	.49537	.49434	3.9269	49.808	1.0002
#2	.04889	.19732	.48804	.49229	3.8945	49.857	1.0052
#3	.04945	.19960	.48883	.49796	3.8841	49.633	1.0037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6483**	**.48494**	**.96907**	**50.545**	**.49265**	F **5.5110**	**.49374**
Stddev	.0201	.00291	.00714	.210	.00344	14.525	.00308
%RSD	.20841	.59981	.73712	.41547	.69787	263.56	.62410
#1	9.6252	.48595	.96758	50.362	.49151	20.698	.49382
#2	9.6576	.48721	.96279	50.775	.48993	-8.2461	.49061
#3	9.6621	.48167	.97685	50.499	.49652	4.0810	.49678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 20:56:57 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **34.003**	**9.9900**	F **6.2123**	**1.1849**	**.38820**	**5.0025**	**.97608**
Stddev	.971	.0435	1.0754	.0075	.00178	.1708	.00512
%RSD	2.8557	.43563	17.312	.63111	.45754	3.4137	.52470
#1	33.077	9.9565	7.4039	1.1881	.38664	5.1257	.97487
#2	35.013	9.9744	5.9194	1.1763	.38782	4.8075	.97168
#3	33.919	10.039	5.3136	1.1902	.39013	5.0742	.98171
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0032**	**.98182**	**.50162**	**.98100**	**.97467**	F **1.4161**
Stddev	.0037	.00310	.00279	.00722	.00528	.0548
%RSD	.36780	.31533	.55527	.73558	.54222	3.8689
#1	.99974	.97824	.50099	.98931	.97311	1.4444
#2	1.0071	.98355	.49920	.97633	.97034	1.3529
#3	1.0027	.98366	.50467	.97736	.98056	1.4509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50626.**	**58177.**
Stddev	216.	19.
%RSD	.42648	.03346
#1	50716.	58170.
#2	50783.	58199.
#3	50380.	58162.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 21:00:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00218**	**.00033**	**.00111**	**-.00024**	**.00002**	**.00303**
Stddev	.00025	.00403	.00088	.00025	.00003	.00002	.00364
%RSD	60.364	184.96	267.58	22.713	14.122	126.22	120.33
#1	.00060	.00582	-.00034	.00128	-.00023	.00004	.00548
#2	.00052	.00287	.00000	.00123	-.00021	.00000	.00476
#3	.00013	-.00215	.00133	.00082	-.00028	.00001	-.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00002**	**-.00004**	**-.00052**	**.00702**	**.07870**	**-.00288**
Stddev	.00002	.00017	.00005	.00020	.00078	.01379	.00027
%RSD	97.910	840.35	129.40	38.794	11.177	17.516	9.5274
#1	.00004	-.00009	.00000	-.00075	.00715	.09222	-.00259
#2	.00002	.00017	-.00009	-.00038	.00618	.07922	-.00290
#3	.00000	-.00014	-.00002	-.00042	.00773	.06467	-.00314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**-.00012**	**.00008**	**.01634**	**-.00001**	F **-1.2862**	**-.00061**
Stddev	.00780	.00042	.00013	.00616	.00024	7.2508	.00069
%RSD	414.23	355.68	160.19	37.684	1626.3	563.73	112.08
#1	.01050	.00035	.00012	.02230	-.00016	-8.1062	.00018
#2	-.00470	-.00047	-.00007	.01000	-.00014	6.3297	-.00097
#3	-.00016	-.00023	.00019	.01672	.00026	-2.0822	-.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 21:00:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **26.656**	F **.01831**	F **-3.1606**	**-.00228**	**-.00158**	**-.31716**	**.00000**
Stddev	5.214	.00836	2.1843	.00112	.00089	.07895	.0002
%RSD	19.561	45.639	69.111	49.329	55.989	24.893	17561.
#1	28.156	.02372	-5.0262	-.00267	-.00216	-.26713	-.00025
#2	20.856	.00869	-.75779	-.00316	-.00056	-.27618	.00003
#3	30.956	.02253	-3.6978	-.00101	-.00203	-.40818	.00022
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00144**	**-.00027**	**-.00025**	**.00014**	**.07111**
Stddev	.00006	.00043	.00102	.00011	.00024	.23019
%RSD	160.06	29.653	373.50	44.176	168.59	323.72
#1	.00003	.00166	-.00041	-.00037	.00025	.10315
#2	-.00009	.00095	.00081	-.00022	-.00013	.28360
#3	-.00005	.00171	-.00122	-.00015	.00031	-.17343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50861.**	**58929.**
Stddev	177.	303.
%RSD	.34732	.51429
#1	51059.	58278.
#2	50718.	58740.
#3	50806.	58768.

Approved: March 29, 2011

Sample Name: L1103068624 Acquired: 3/28/2011 21:04:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00536**	**116.43**	**.13125**	**.16099**	**1.6445**	**.01441**	**61.837**
Stddev	.00061	1.01	.00175	.00112	.0043	.00013	.145
%RSD	11.443	.86529	1.3327	.69505	.26350	.93568	.23394
#1	.00465	115.28	.12929	.16198	1.6491	.01448	61.875
#2	.00576	116.92	.13180	.16122	1.6405	.01425	61.959
#3	.00566	117.11	.13265	.15977	1.6440	.01449	61.677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00708**	**.15204**	**.49477**	**.14427**	**318.60**	**7.7968**	**.04991**
Stddev	.00004	.00048	.00469	.00105	.86	.0352	.00093
%RSD	.60013	.31306	.94702	.72752	.27118	.45101	1.8703
#1	.00706	.15149	.49951	.14306	319.54	7.8204	.05045
#2	.00712	.15237	.49015	.14482	318.42	7.8137	.05046
#3	.00704	.15225	.49465	.14493	317.84	7.7564	.04884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.323**	**10.008**	**.01642**	**.64027**	**.10288**	F **29227.**	**.45493**
Stddev	.073	.020	.00009	.00465	.00045	200.	.00169
%RSD	.50800	.20369	.55742	.72625	.43580	.68404	.37088
#1	14.386	10.013	.01649	.63564	.10279	29081.	.45323
#2	14.339	10.025	.01631	.64494	.10337	29146.	.45497
#3	14.244	9.9852	.01645	.64022	.10249	29455.	.45660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068624 Acquired: 3/28/2011 21:04:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **66.775**	F **205.24**	F **-27660.**	**.00414**	**.01420**	F **510.73**	**.01103**
Stddev	1.772	1.12	120.	.00049	.00133	2.41	.00033
%RSD	2.6542	.54630	.43371	11.854	9.3496	.47195	2.9527
#1	66.718	204.01	-27528.	.00426	.01267	508.19	.01068
#2	68.575	205.49	-27690.	.00360	.01488	511.03	.01108
#3	65.032	206.21	-27762.	.00456	.01506	512.98	.01132
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38435**	**.22271**	**.01379**	**.60003**	**.86614**	F **174.80**
Stddev	.00063	.00068	.00165	.00072	.00291	.58
%RSD	.16383	.30611	11.948	.12002	.33639	.33165
#1	.38477	.22203	.01569	.60035	.86284	174.88
#2	.38466	.22339	.01279	.59921	.86724	174.19
#3	.38363	.22271	.01288	.60054	.86835	175.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49246.**	**60834.**
Stddev	137.	439.
%RSD	.27856	.72226
#1	49346.	60441.
#2	49302.	60753.
#3	49089.	61308.

Approved: March 29, 2011

Sample Name: L1103068625 Acquired: 3/28/2011 21:07:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00571**	**102.74**	**.10319**	**.13335**	**1.6757**	**.01166**	**46.953**
Stddev	.00027	2.01	.00140	.00202	.0221	.00012	.541
%RSD	4.7016	1.9522	1.3539	1.5125	1.3204	.99384	1.1523
#1	.00600	104.82	.10473	.13413	1.6754	.01158	46.941
#2	.00547	102.57	.10285	.13106	1.6537	.01179	46.418
#3	.00565	100.82	.10200	.13486	1.6980	.01160	47.500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00584**	**.24172**	**.24321**	**.11352**	**265.86**	**5.4513**	**.04945**
Stddev	.00013	.00315	.00180	.00188	2.54	.0644	.00044
%RSD	2.1580	1.3014	.73858	1.6529	.95495	1.1811	.88214
#1	.00586	.24472	.24229	.11564	265.32	5.4257	.04894
#2	.00596	.24198	.24528	.11287	263.64	5.4036	.04969
#3	.00571	.23845	.24207	.11206	268.63	5.5245	.04971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.141**	**13.463**	**.01260**	**.69330**	**.08872**	F **18149.**	**.39716**
Stddev	.087	.132	.00012	.01003	.00177	240.	.00535
%RSD	.78280	.97947	.95896	1.4468	1.9894	1.3201	1.3465
#1	11.069	13.457	.01248	.68906	.09058	18391.	.40276
#2	11.117	13.334	.01273	.68608	.08852	18144.	.39661
#3	11.238	13.598	.01260	.70475	.08707	17912.	.39210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068625 Acquired: 3/28/2011 21:07:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **65.967**	F **152.54**	F **-19993.**	**.00286**	**.01568**	F **515.64**	**.00952**
Stddev	6.669	2.04	278.	.00078	.00136	7.23	.00030
%RSD	10.109	1.3374	1.3893	27.370	8.6800	1.4025	3.1163
#1	63.668	154.39	-20299.	.00273	.01411	523.48	.00918
#2	60.753	152.89	-19921.	.00370	.01643	514.21	.00963
#3	73.481	150.35	-19757.	.00215	.01649	509.23	.00975
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31843**	**.23242**	**.00920**	**.50522**	**.54322**	F **186.57**
Stddev	.00357	.00194	.00210	.00318	.01109	.49
%RSD	1.1208	.83255	22.782	.62851	2.0408	.26348
#1	.31834	.23217	.00827	.50462	.55507	186.94
#2	.31490	.23063	.01160	.50865	.54149	186.75
#3	.32204	.23447	.00773	.50238	.53310	186.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48358.**	**59247.**
Stddev	586.	199.
%RSD	1.2109	.33634
#1	47798.	59020.
#2	48309.	59395.
#3	48966.	59325.

Approved: March 29, 2011

Sample Name: L1103068626 Acquired: 3/28/2011 21:11:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**45.320**	**.04689**	**.07202**	**.65601**	**.00333**	F **4508.6**
Stddev	.00027	.573	.00173	.00089	.00972	.00005	473.8
%RSD	55.392	1.2650	3.6938	1.2346	1.4819	1.4551	10.508
#1	.00034	45.037	.04607	.07292	.66398	.00328	4795.8
#2	.00080	45.980	.04888	.07114	.64518	.00337	3961.7
#3	.00032	44.944	.04572	.07201	.65887	.00334	4768.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00866**	**.05203**	**.09330**	**.12609**	**126.18**	**5.4069**	**.31853**
Stddev	.00018	.00106	.00120	.00217	1.78	.0810	.00681
%RSD	2.1035	2.0324	1.2876	1.7192	1.4085	1.4984	2.1395
#1	.00852	.05113	.09264	.12403	127.40	5.4539	.32474
#2	.00887	.05319	.09469	.12835	124.14	5.3133	.31124
#3	.00860	.05175	.09258	.12587	127.00	5.4535	.31960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**176.91**	**6.2852**	**.00955**	**2.3182**	**.14494**	F **32279.**	**.15140**
Stddev	2.65	.1059	.00015	.0437	.00230	572.	.00200
%RSD	1.4966	1.6842	1.5226	1.8847	1.5873	1.7712	1.3214
#1	178.41	6.3641	.00944	2.3590	.14232	31829.	.15179
#2	173.86	6.1649	.00971	2.2721	.14663	32923.	.15317
#3	178.47	6.3266	.00949	2.3235	.14586	32086.	.14923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068626 Acquired: 3/28/2011 21:11:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **50.852**	F **5639.6**	F **-53281.**	**.00535**	**.01701**	F **838.26**	**.00372**
Stddev	4.811	95.5	904.	.00378	.00232	15.96	.00023
%RSD	9.4608	1.6925	1.6968	70.792	13.666	1.9041	6.1767
#1	48.975	5556.4	-52533.	.00333	.01818	826.96	.00389
#2	56.319	5743.8	-54286.	.00971	.01853	856.51	.00346
#3	47.263	5618.6	-53026.	.00299	.01434	831.29	.00383
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **24.891**	**.12778**	**-.00063**	**.15831**	**.59857**	F **94.295**
Stddev	.092	.00148	.00094	.00225	.00911	1.182
%RSD	.36855	1.1577	149.29	1.4212	1.5227	1.2531
#1	24.877	.12904	-.00014	.15642	.58919	93.287
#2	24.807	.12615	-.00170	.16080	.60739	95.595
#3	24.989	.12816	-.00003	.15770	.59914	94.003
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	4.5000					45.000
Low Limit	-.01000					-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**39953.**	**54153.**
Stddev	493.	597.
%RSD	1.2332	1.1032
#1	40323.	53631.
#2	39394.	54804.
#3	40141.	54023.

Approved: March 29, 2011

Sample Name: L1103068627 Acquired: 3/28/2011 21:15:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00543**	**101.44**	**.10986**	**.14341**	**1.5735**	**.01238**	**98.079**
Stddev	.00026	1.16	.00153	.00049	.0035	.00010	.491
%RSD	4.7246	1.1414	1.3937	.34439	.22510	.81802	.50100
#1	.00523	100.22	.10815	.14398	1.5775	.01226	98.639
#2	.00534	102.52	.11033	.14306	1.5708	.01243	97.882
#3	.00572	101.56	.11110	.14320	1.5721	.01244	97.717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00707**	**.15756**	**.26167**	**.10925**	**290.46**	**4.4954**	**.04864**
Stddev	.00006	.00106	.00238	.00065	.79	.0082	.00034
%RSD	.82357	.67355	.90900	.59579	.27073	.18176	.70470
#1	.00704	.15647	.25893	.10876	291.29	4.5004	.04853
#2	.00714	.15762	.26282	.10900	290.35	4.4859	.04903
#3	.00704	.15859	.26326	.10999	289.73	4.4997	.04837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.174**	**7.8720**	**.01273**	**3.8361**	**.09227**	F **15383.**	**.43151**
Stddev	.013	.0414	.00018	.0070	.00135	130.	.00473
%RSD	.09734	.52608	1.4279	.18352	1.4624	.84284	1.0967
#1	13.167	7.9093	.01258	3.8440	.09165	15253.	.42687
#2	13.166	7.8793	.01268	3.8303	.09134	15386.	.43132
#3	13.189	7.8274	.01293	3.8340	.09381	15512.	.43633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068627 Acquired: 3/28/2011 21:15:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.214**	F **213.22**	F **-22274.**	**.00259**	**.01142**	F **581.68**	**.00994**
Stddev	3.130	.89	176.	.00175	.00238	3.39	.00011
%RSD	4.5891	.41741	.79005	67.698	20.856	.58236	1.1227
#1	65.210	212.23	-22089.	.00062	.01397	578.40	.01000
#2	67.973	213.47	-22291.	.00317	.01104	581.48	.00981
#3	71.457	213.96	-22440.	.00397	.00925	585.17	.01000
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.59041**	**.24616**	**.01131**	**.52826**	**.64477**	F **201.46**
Stddev	.00094	.00072	.00058	.00630	.00439	2.32
%RSD	.15975	.29069	5.1103	1.1919	.68129	1.1527
#1	.59144	.24619	.01162	.52104	.63975	198.92
#2	.59019	.24543	.01065	.53113	.64667	201.97
#3	.58959	.24686	.01167	.53261	.64789	203.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48476.**	**60684.**
Stddev	223.	575.
%RSD	.46009	.94698
#1	48728.	60043.
#2	48396.	60854.
#3	48304.	61154.

Approved: March 29, 2011

Sample Name: L1103068628 Acquired: 3/28/2011 21:18:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00413**	**81.925**	**.09076**	**.10956**	**1.1009**	**.01032**	**187.48**
Stddev	.00045	.515	.00179	.00118	.0040	.00010	.34
%RSD	10.871	.62848	1.9742	1.0763	.36556	.94567	.18322
#1	.00462	81.372	.08869	.10893	1.0999	.01029	187.09
#2	.00404	82.013	.09192	.11092	1.0974	.01025	187.63
#3	.00374	82.391	.09166	.10882	1.1053	.01043	187.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00616**	**.11356**	**.21243**	**.08068**	**213.32**	**4.5906**	**.04341**
Stddev	.00007	.00132	.00215	.00209	.34	.0096	.00025
%RSD	1.1710	1.1599	1.0143	2.5938	.16057	.20886	.56690
#1	.00614	.11245	.21054	.07886	212.99	4.5856	.04338
#2	.00609	.11321	.21197	.08023	213.29	4.5845	.04319
#3	.00624	.11502	.21478	.08297	213.67	4.6017	.04367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.230**	**7.5473**	**.01205**	**2.2583**	**.07467**	F **13845.**	**.34482**
Stddev	.028	.0260	.00012	.0020	.00105	198.	.00402
%RSD	.19983	.34479	1.0306	.08909	1.4110	1.4284	1.1673
#1	14.199	7.5173	.01216	2.2561	.07378	13695.	.34206
#2	14.255	7.5619	.01191	2.2601	.07440	13771.	.34295
#3	14.235	7.5627	.01208	2.2587	.07583	14069.	.34943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068628 Acquired: 3/28/2011 21:18:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.300**	F **255.69**	F **-15286.**	**.00455**	**.01171**	F **503.82**	**.00813**
Stddev	2.415	3.99	117.	.00036	.00046	5.93	.00018
%RSD	3.9398	1.5606	.76241	7.9438	3.9082	1.1769	2.1937
#1	62.125	251.49	-15231.	.00496	.01214	500.24	.00794
#2	58.580	256.14	-15207.	.00441	.01176	500.56	.00830
#3	63.194	259.44	-15420.	.00428	.01123	510.67	.00815
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.83098**	**.22474**	**.00888**	**.43159**	**.49198**	F **169.42**
Stddev	.00193	.00070	.00170	.00325	.00565	1.38
%RSD	.23215	.31263	19.129	.75385	1.1486	.81390
#1	.82883	.22516	.01026	.42939	.48674	167.85
#2	.83155	.22393	.00939	.43004	.49123	169.98
#3	.83256	.22513	.00698	.43532	.49797	170.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48211.**	**59810.**
Stddev	295.	401.
%RSD	.61176	.67087
#1	48529.	59715.
#2	48157.	59466.
#3	47947.	60251.

Approved: March 29, 2011

Sample Name: L1103068629 Acquired: 3/28/2011 21:22:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**102.45**	**.10020**	**.13138**	**1.5187**	**.01183**	**82.254**
Stddev	.00044	1.40	.00123	.00098	.0135	.00008	.868
%RSD	10.063	1.3702	1.2307	.74843	.88591	.69889	1.0551
#1	.00386	102.06	.10111	.13128	1.5044	.01178	81.304
#2	.00470	104.01	.09880	.13045	1.5205	.01193	82.451
#3	.00448	101.28	.10070	.13240	1.5312	.01179	83.006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00644**	**.10062**	**.56524**	**.13289**	**246.84**	**7.7308**	**.04713**
Stddev	.00009	.00027	.00273	.00105	2.54	.0478	.00072
%RSD	1.3575	.27161	.48333	.79175	1.0309	.61872	1.5330
#1	.00634	.10062	.56239	.13370	244.68	7.6767	.04632
#2	.00649	.10089	.56784	.13328	246.19	7.7484	.04733
#3	.00648	.10035	.56550	.13170	249.65	7.7674	.04772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.044**	**6.4309**	**.01149**	**.63592**	**.09330**	F **33309.**	**.34574**
Stddev	.102	.0807	.00010	.00438	.00075	63.	.00077
%RSD	.78320	1.2551	.87432	.68892	.80723	.18926	.22378
#1	12.982	6.3538	.01157	.63103	.09368	33240.	.34658
#2	12.988	6.4242	.01151	.63948	.09379	33363.	.34506
#3	13.162	6.5148	.01137	.63726	.09243	33323.	.34559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068629 Acquired: 3/28/2011 21:22:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **59.861**	F **239.38**	F **-29969.**	**.00561**	**.01410**	F **488.41**	**.01011**
Stddev	8.557	1.22	206.	.00256	.00258	1.57	.00018
%RSD	14.295	.50821	.68761	45.678	18.287	.32094	1.8190
#1	66.490	239.10	-29732.	.00830	.01246	487.03	.01032
#2	62.894	240.71	-30107.	.00534	.01707	490.11	.01004
#3	50.201	238.32	-30069.	.00319	.01276	488.08	.00997
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47868**	**.20064**	**.01053**	**.45462**	**.99826**	F **156.51**
Stddev	.00495	.00217	.00111	.00366	.00107	.81
%RSD	1.0351	1.0813	10.533	.80468	.10726	.51553
#1	.47304	.19830	.01084	.45105	.99903	155.92
#2	.48069	.20103	.01145	.45836	.99704	157.43
#3	.48231	.20259	.00930	.45446	.99871	156.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48833.**	**60050.**
Stddev	110.	432.
%RSD	.22522	.71958
#1	48819.	60197.
#2	48730.	60389.
#3	48949.	59563.

Approved: March 29, 2011

Sample Name: L1103068630 Acquired: 3/28/2011 21:25:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00344**	**97.129**	**.09746**	**.13767**	**1.2484**	**.01069**	**69.463**
Stddev	.00071	.872	.00147	.00080	.0114	.00013	.554
%RSD	20.547	.89791	1.5101	.58368	.91217	1.2487	.79706
#1	.00263	96.133	.09885	.13820	1.2549	.01053	69.648
#2	.00388	97.493	.09592	.13806	1.2550	.01076	69.900
#3	.00382	97.759	.09761	.13674	1.2353	.01076	68.840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00666**	**.08674**	**.23777**	**.11635**	**230.38**	**5.7398**	**.05359**
Stddev	.00000	.00052	.00249	.00101	1.42	.0474	.00111
%RSD	.04062	.60258	1.0479	.86927	.61589	.82602	2.0730
#1	.00666	.08623	.23537	.11525	230.54	5.7661	.05399
#2	.00666	.08673	.23759	.11655	231.71	5.7682	.05445
#3	.00665	.08727	.24034	.11724	228.89	5.6851	.05234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.312**	**4.6700**	**.00999**	**1.4062**	**.08411**	F **27319.**	**.31076**
Stddev	.047	.0267	.00009	.0087	.00095	322.	.00051
%RSD	.41857	.57224	.89097	.61922	1.1344	1.1804	.16552
#1	11.262	4.6617	.01001	1.4099	.08342	26956.	.31032
#2	11.356	4.6999	.00989	1.4125	.08371	27429.	.31064
#3	11.320	4.6485	.01007	1.3963	.08520	27571.	.31133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068630 Acquired: 3/28/2011 21:25:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **70.231**	F **249.48**	F **-33465.**	**.00309**	**.01245**	F **559.85**	**.01331**
Stddev	5.563	2.01	159.	.00074	.00167	4.22	.00031
%RSD	7.9204	.80617	.47464	24.067	13.452	.75460	2.3295
#1	75.571	248.55	-33335.	.00383	.01159	555.73	.01300
#2	70.652	248.10	-33419.	.00234	.01138	559.66	.01362
#3	64.470	251.79	-33642.	.00311	.01438	564.17	.01332
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42650**	**.21092**	**.00906**	**.43788**	**.61874**	F **161.60**
Stddev	.00335	.00250	.00128	.00375	.00156	1.42
%RSD	.78443	1.1842	14.108	.85636	.25148	.87969
#1	.42801	.21207	.00765	.43395	.61991	160.44
#2	.42882	.21264	.01014	.43827	.61697	161.17
#3	.42267	.20806	.00938	.44142	.61933	163.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48984.**	**61242.**
Stddev	119.	291.
%RSD	.24226	.47449
#1	49089.	61413.
#2	49007.	60906.
#3	48855.	61407.

Approved: March 29, 2011

Sample Name: L1103068631 Acquired: 3/28/2011 21:29:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00634**	**87.937**	**.11919**	**.13382**	**1.7296**	**.01082**	**37.652**
Stddev	.00076	1.073	.00148	.01047	.1079	.00002	2.268
%RSD	12.032	1.2200	1.2417	7.8237	6.2383	.16890	6.0230
#1	.00716	87.830	.12088	.12649	1.6595	.01084	36.074
#2	.00566	86.921	.11813	.12916	1.6754	.01081	36.631
#3	.00619	89.059	.11856	.14581	1.8538	.01081	40.251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00540**	**.17016**	**.28699**	**.09646**	**268.63**	**6.8527**	**.03754**
Stddev	.00013	.00123	.00143	.00237	17.14	.4111	.00183
%RSD	2.4525	.72440	.49840	2.4522	6.3785	5.9997	4.8615
#1	.00532	.17105	.28864	.09844	256.59	6.5551	.03599
#2	.00533	.17067	.28628	.09710	261.06	6.6812	.03708
#3	.00555	.16875	.28606	.09384	288.25	7.3218	.03955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3896**	**12.679**	**.01414**	**1.5260**	**.07759**	F **44855.**	**.36085**
Stddev	.6220	.771	.00029	.0946	.00082	225.	.00209
%RSD	6.6249	6.0833	2.0683	6.2011	1.0579	.50140	.57925
#1	8.9425	12.126	.01402	1.4615	.07702	45050.	.36299
#2	9.1263	12.352	.01393	1.4819	.07853	44906.	.36075
#3	10.100	13.560	.01448	1.6347	.07721	44609.	.35882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068631 Acquired: 3/28/2011 21:29:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **52.508**	F **206.88**	F **-31690.**	**.00058**	**.02154**	F **472.22**	**.00879**
Stddev	4.959	2.59	145.	.00266	.00034	2.37	.00034
%RSD	9.4442	1.2515	.45790	462.24	1.5951	.50109	3.8442
#1	58.088	208.91	-31829.	.00263	.02188	474.03	.00844
#2	50.836	207.77	-31701.	.00153	.02154	473.08	.00882
#3	48.602	203.97	-31539.	-.00243	.02120	469.54	.00912
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21612**	**.30275**	**.01059**	**.57091**	**.78019**	F **156.34**
Stddev	.01276	.02286	.00099	.00132	.00132	.51
%RSD	5.9051	7.5507	9.3165	.23065	.16909	.32922
#1	.20754	.28685	.00955	.57008	.78155	155.75
#2	.21004	.29245	.01069	.57022	.78011	156.60
#3	.23078	.32895	.01152	.57243	.77891	156.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49588.**	**60233.**
Stddev	219.	2400.
%RSD	.44208	3.9845
#1	49389.	62141.
#2	49553.	61018.
#3	49823.	57538.

Approved: March 29, 2011

Sample Name: L1103068632S Acquired: 3/28/2011 21:33:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18833**	**85.801**	**.28731**	**.13919**	**1.7770**	**.01118**	**40.425**
Stddev	.00106	1.251	.00255	.00178	.0258	.00007	.553
%RSD	.56107	1.4584	.88738	1.2799	1.4539	.64495	1.3678
#1	.18843	86.841	.28817	.13831	1.7766	.01117	40.365
#2	.18933	84.412	.28444	.14124	1.8031	.01111	41.005
#3	.18722	86.150	.28931	.13801	1.7514	.01126	39.904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02799**	**.42560**	**.24844**	**.32780**	**279.68**	**6.9017**	**.03600**
Stddev	.00007	.00260	.00215	.00173	3.59	.0757	.00131
%RSD	.26235	.61117	.86354	.52848	1.2835	1.0967	3.6307
#1	.02806	.42710	.24846	.32829	279.40	6.8822	.03499
#2	.02792	.42260	.24629	.32588	283.40	6.9852	.03748
#3	.02799	.42712	.25058	.32924	276.23	6.8376	.03553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6672**	**22.831**	**.01624**	**1.5874**	**.10117**	F **54114.**	**.65852**
Stddev	.0732	.291	.00019	.0200	.00057	284.	.00333
%RSD	.75714	1.2731	1.1812	1.2598	.56614	.52441	.50640
#1	9.6544	22.773	.01615	1.5820	.10101	54165.	.65583
#2	9.7460	23.146	.01610	1.6096	.10069	53809.	.65747
#3	9.6013	22.573	.01646	1.5707	.10180	54370.	.66225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068632S Acquired: 3/28/2011 21:33:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **62.125**	F **224.23**	F **-34424.**	**.00134**	**.02373**	F **525.09**	**.00885**
Stddev	3.869	1.60	108.	.00056	.00224	2.50	.00019
%RSD	6.2269	.71173	.31407	41.520	9.4249	.47628	2.0936
#1	58.450	224.63	-34452.	.00086	.02492	524.92	.00884
#2	66.162	222.47	-34305.	.00195	.02512	522.69	.00904
#3	61.765	225.58	-34516.	.00121	.02115	527.68	.00867
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23198**	**.31766**	**.01009**	**.56013**	**.86429**	F **151.80**
Stddev	.00316	.00521	.00058	.00197	.00299	.47
%RSD	1.3606	1.6388	5.7515	.35157	.34649	.31051
#1	.23136	.31685	.00980	.56031	.86696	151.64
#2	.23540	.32323	.00971	.55807	.86105	151.44
#3	.22918	.31291	.01076	.56199	.86485	152.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49859.**	**61064.**
Stddev	141.	356.
%RSD	.28210	.58264
#1	49796.	60933.
#2	50020.	60792.
#3	49761.	61467.

Approved: March 29, 2011

Sample Name: L1103068633SD Acquired: 3/28/2011 21:36:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17892**	**88.121**	**.27413**	**.12065**	**1.3212**	**.00977**	**36.221**
Stddev	.00324	.614	.00417	.00208	.0037	.00009	.175
%RSD	1.8086	.69649	1.5196	1.7273	.28193	.94087	.48331
#1	.18213	88.168	.27693	.11927	1.3180	.00984	36.078
#2	.17897	87.486	.27611	.11963	1.3203	.00980	36.169
#3	.17566	88.711	.26934	.12305	1.3253	.00966	36.416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02739**	**.07939**	**.26427**	**.31482**	**239.53**	**6.8579**	**.03666**
Stddev	.00020	.00121	.00464	.00434	2.29	.0193	.00135
%RSD	.73944	1.5278	1.7560	1.3783	.95410	.28183	3.6753
#1	.02754	.08034	.26789	.31741	238.04	6.8357	.03563
#2	.02748	.07980	.26589	.31724	238.38	6.8668	.03615
#3	.02716	.07802	.25904	.30981	242.16	6.8711	.03818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6239**	**4.5906**	**.01319**	**1.4980**	**.07085**	F **41909.**	**.49266**
Stddev	.1490	.0476	.00034	.0024	.00050	514.	.00479
%RSD	1.5478	1.0369	2.5938	.16347	.70303	1.2269	.97161
#1	9.4993	4.5529	.01344	1.5007	.07093	42353.	.49640
#2	9.5835	4.5747	.01333	1.4959	.07130	42027.	.49432
#3	9.7889	4.6441	.01280	1.4975	.07032	41346.	.48727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068633SD Acquired: 3/28/2011 21:36:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **67.157**	F **200.23**	F **-30564.**	**.00131**	**.01681**	F **551.15**	**.00876**
Stddev	8.624	2.94	401.	.00135	.00083	7.66	.00030
%RSD	12.842	1.4672	1.3107	103.19	4.9489	1.3891	3.4745
#1	63.833	202.63	-30966.	.00273	.01715	558.66	.00874
#2	76.949	201.11	-30561.	.00116	.01742	551.43	.00847
#3	60.690	196.96	-30165.	.00004	.01586	543.36	.00908
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21222**	**.33464**	**.01175**	**.50656**	**.73201**	F **158.40**
Stddev	.00036	.00192	.00161	.00720	.00689	1.79
%RSD	.16841	.57503	13.733	1.4223	.94123	1.1319
#1	.21206	.33337	.01322	.51371	.73630	160.02
#2	.21198	.33370	.01200	.50667	.73566	158.70
#3	.21263	.33686	.01002	.49930	.72406	156.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50191.**	**60818.**
Stddev	492.	738.
%RSD	.98055	1.2137
#1	49752.	61024.
#2	50097.	61431.
#3	50723.	59999.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 21:40:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .35393	F 8.7472	F .35497	F .43710	.90722	F .04414	F 8.9894
Stddev	.00352	.0624	.00223	.00459	.01110	.00024	.1464
%RSD	.99539	.71304	.62961	1.0490	1.2233	.54588	1.6281
#1	.35635	8.7740	.35627	.44025	.91708	.04429	9.1333
#2	.35555	8.7917	.35239	.43921	.89520	.04426	8.8407
#3	.34989	8.6759	.35626	.43184	.90937	.04386	8.9943
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail
Value	.40000	10.000	.40000	.50000		.05000	10.000
Range	-10.000%	-10.000%	-10.000%	-10.000%		-10.000%	-10.000%

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .04423	F .17999	F .44799	F .44835	F 3.4981	F 44.529	F .89009
Stddev	.00030	.00099	.00244	.00264	.0497	.614	.01051
%RSD	.67558	.54794	.54489	.58993	1.4219	1.3781	1.1810
#1	.04455	.18106	.44796	.45135	3.5412	45.099	.89926
#2	.04397	.17911	.45045	.44636	3.4437	43.879	.87862
#3	.04417	.17979	.44556	.44734	3.5094	44.608	.89240
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.05000	.20000	.50000	.50000	4.0000	50.000	1.0000
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 8.8557	F .43514	F .87964	45.186	F .44847	10.654	.45111
Stddev	.1198	.00608	.00611	.685	.00271	9.016	.00164
%RSD	1.3524	1.3965	.69428	1.5165	.60393	84.634	.36298
#1	8.9563	.44085	.88669	45.815	.45156	6.7823	.45297
#2	8.7232	.42875	.87620	44.456	.44648	20.959	.44989
#3	8.8876	.43581	.87602	45.287	.44738	4.2192	.45047
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value	10.000	.50000	1.0000		.50000		
Range	-10.000%	-10.000%	-10.000%		-10.000%		

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 21:40:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.775**	**9.1066**	F **5.6585**	F **1.0602**	F **.34783**	F **4.2240**	F **.89798**
Stddev	5.698	.0394	4.9445	.0088	.00279	.2658	.00632
%RSD	23.968	.43219	87.381	.83004	.80071	6.2919	.70425
#1	21.516	9.1458	.12232	1.0683	.35075	4.4247	.90316
#2	19.553	9.0671	9.6353	1.0508	.34521	3.9226	.89094
#3	30.257	9.1071	7.2180	1.0616	.34752	4.3249	.89985
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	10.000		10.000	1.2000	.40000	5.0000	1.0000
Range	10.000%		-10.000%	-10.000%	-10.000%	-10.000%	-10.000%

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.89208**	F **.87776**	**.45159**	F **.89111**	F **.89885**	**.93341**
Stddev	.01305	.01088	.00340	.00715	.00537	.12821
%RSD	1.4626	1.2391	.75322	.80189	.59793	13.736
#1	.90419	.88725	.45468	.89490	.90492	.79405
#2	.87826	.86589	.44794	.89556	.89468	.95982
#3	.89380	.88013	.45214	.88286	.89696	1.0464
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
Value	1.0000	1.0000		1.0000	1.0000	
Range	-10.000%	-10.000%		-10.000%	-10.000%	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**54401.**	**60349.**
Stddev	128.	758.
%RSD	.23530	1.2552
#1	54270.	59501.
#2	54526.	60959.
#3	54407.	60587.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 21:43:43 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00478**	**-.00051**	**.00057**	**-.00039**	**.00002**	**-.00376**
Stddev	.00090	.00249	.00089	.00015	.00011	.00001	.00605
%RSD	1985.9	52.192	174.94	25.810	28.960	59.022	160.71
#1	-.00055	-.00293	-.00083	.00057	-.00041	.00003	-.00460
#2	-.00040	-.00380	.00050	.00071	-.00048	.00001	.00266
#3	.00108	-.00762	-.00119	.00042	-.00026	.00003	-.00935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00003**	**-.00021**	**-.00058**	**.00098**	**.05101**	**-.00146**
Stddev	.00003	.00003	.00036	.00058	.00133	.01419	.00122
%RSD	45.375	105.35	168.26	100.80	135.75	27.825	83.584
#1	-.00006	-.00003	-.00062	-.00044	.00193	.04745	-.00239
#2	-.00011	.00000	.00006	-.00008	-.00054	.06665	-.00190
#3	-.00005	-.00006	-.00008	-.00122	.00154	.03894	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00254**	**-.00032**	**.00002**	**.00995**	**.00010**	F **5.5321**	**-.00035**
Stddev	.00870	.00016	.00015	.00387	.00015	17.656	.00107
%RSD	343.09	49.206	973.67	38.893	145.32	319.16	308.29
#1	-.01171	-.00016	-.00015	.00548	.00001	21.833	.00037
#2	-.00149	-.00034	.00016	.01207	.00028	-13.222	.00017
#3	.00559	-.00047	.00004	.01229	.00002	7.9854	-.00157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 21:43:43 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **27.152**	**.00498**	F **-11.008**	**-.00102**	**-.00050**	**-.39359**	**.00002**
Stddev	5.864	.02731	4.082	.00027	.00202	.21162	.00013
%RSD	21.597	548.59	37.083	26.397	406.05	53.767	574.43
#1	33.162	-.02522	-11.383	-.00071	-.00254	-.30356	.00015
#2	26.847	.02795	-14.889	-.00121	.00150	-.24187	-.00011
#3	21.446	.01221	-6.7512	-.00115	-.00045	-.63534	.00002
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000		.01000				
Low Limit	-.01000		-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00082**	**.00005**	**-.00013**	**.00011**	**.04700**
Stddev	.00007	.00017	.00104	.00029	.00095	.12793
%RSD	46.185	20.407	2060.0	226.79	888.99	272.18
#1	-.00008	.00101	.00121	.00003	.00009	-.09472
#2	-.00022	.00068	-.00026	.00005	.00107	.15396
#3	-.00016	.00078	-.00080	-.00046	-.00084	.08176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**53142.**	**59641.**
Stddev	539.	388.
%RSD	1.0134	.65055
#1	53158.	59268.
#2	52596.	59613.
#3	53672.	60043.

Approved: March 29, 2011

Sample Name: S0 Acquired: 3/29/2011 11:00:24 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00030**	**.00929**	**-.00010**	**.00048**	**.00343**	**-.00138**	**-.00079**
Stddev	.00009	.00013	.00002	.00010	.00007	.00002	.00004
%RSD	30.841	1.3552	15.174	20.248	2.0577	1.3334	4.4235
#1	-.00040	.00926	-.00012	.00037	.00346	-.00137	-.00075
#2	-.00025	.00919	-.00009	.00053	.00335	-.00141	-.00080
#3	-.00023	.00943	-.00009	.00054	.00349	-.00137	-.00082

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00010**	**-.00011**	**.00064**	**.00014**	**.00002**	**-.00320**	**.00034**
Stddev	.00003	.00005	.00010	.00001	.00001	.00033	.00028
%RSD	27.748	46.964	15.517	9.6286	51.433	10.415	82.095
#1	.00011	-.00015	.00073	.00014	.00003	-.00293	.00066
#2	.00007	-.00012	.00053	.00013	.00004	-.00309	.00011
#3	.00011	-.00005	.00067	.00016	.00001	-.00357	.00026

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00004**	**.00015**	**.00003**	**-.00421**	**-.00012**	**.00006**	**-.00017**
Stddev	.00006	.00004	.00001	.00044	.00005	.00002	.00003
%RSD	130.54	23.912	24.134	10.504	38.695	25.704	17.517
#1	.00000	.00011	.00003	-.00406	-.00017	.00006	-.00017
#2	.00010	.00018	.00002	-.00470	-.00008	.00004	-.00020
#3	.00003	.00015	.00002	-.00385	-.00011	.00007	-.00014

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00197**	**.00023**	**.00021**	**.00005**	**-.00005**	**.00048**	**.00001**
Stddev	.00010	.00001	.00002	.00003	.00003	.00002	.00001
%RSD	5.1120	2.7788	8.0860	67.427	65.271	4.4196	85.993
#1	-.00185	.00022	.00020	.00002	-.00004	.00046	.00001
#2	-.00204	.00023	.00020	.00005	-.00009	.00048	.00002
#3	-.00201	.00023	.00023	.00008	-.00002	.00050	.00000

Approved: March 30, 2011

Sample Name: S0 Acquired: 3/29/2011 11:00:24 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00086**	**-.00055**	**-.00006**	**.00028**	**.00354**	**-.00115**
Stddev	.00006	.00012	.00001	.00010	.00059	.00013
%RSD	6.8556	21.689	21.136	37.273	16.780	11.560
#1	.00092	-.00060	-.00007	.00016	.00286	-.00130
#2	.00081	-.00042	-.00007	.00034	.00383	-.00105
#3	.00084	-.00064	-.00005	.00034	.00395	-.00109

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49202.**	**40037.**
Stddev	1213.	187.
%RSD	2.4651	.46601
#1	49921.	39967.
#2	49883.	39895.
#3	47802.	40248.

Approved: March 30, 2011

Sample Name: S1 Acquired: 3/29/2011 11:04:06 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	Ba4554	Be3131	Ca4226	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00046**	**.01756**	**.01675**	**.00089**	**.00157**	**.00024**	**.00029**
Stddev	.00017	.00007	.00034	.00003	.00009	.00001	.00003
%RSD	36.894	.37298	2.0271	3.1832	5.6806	2.9918	9.0911
#1	.00027	.01763	.01652	.00093	.00164	.00024	.00032
#2	.00052	.01753	.01714	.00089	.00160	.00025	.00027
#3	.00059	.01751	.01659	.00087	.00147	.00023	.00029

Elem	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00200**	**.00053**	**.00056**	**.00409**	**.00276**	**.00041**	**.00092**
Stddev	.00010	.00002	.00003	.00019	.00019	.00003	.00007
%RSD	4.7540	2.9473	5.0666	4.5810	6.8220	6.9810	8.1038
#1	.00199	.00052	.00057	.00423	.00271	.00041	.00087
#2	.00191	.00052	.00058	.00417	.00260	.00038	.00101
#3	.00210	.00055	.00053	.00388	.00297	.00044	.00088

Elem	Mo2020	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00096**	**.01888**	**.00017**	**.00084**	**.00000**	**-.00203**	**.00025**
Stddev	.00001	.00031	.00001	.00002	.0000	.00042	.00001
%RSD	1.4579	1.6669	3.4071	2.1934	1727.5	20.519	3.7916
#1	.00097	.01909	.00018	.00084	.00002	-.00222	.00024
#2	.00096	.01852	.00017	.00087	.00001	-.00231	.00026
#3	.00095	.01903	.00016	.00083	-.00003	-.00155	.00025

Elem	S_1820	Sb2068	Si2124	Sn1899	Sr4077	Ti3372	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00020**	**.00026**	**.00144**	**.00050**	**.02094**	**.00055**	**.00514**
Stddev	.00001	.00001	.00001	.00000	.00003	.00008	.00006
%RSD	5.6701	3.5944	.88996	.42303	.14052	14.682	1.1451
#1	.00021	.00026	.00142	.00050	.02092	.00062	.00510
#2	.00019	.00027	.00145	.00050	.02093	.00046	.00521
#3	.00021	.00025	.00144	.00049	.02098	.00057	.00512

Approved: March 30, 2011

Sample Name: S1 Acquired: 3/29/2011 11:04:06 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062	Zr3391
Units	Cts/S	Cts/S
Avg	**.00538**	**.01161**
Stddev	.00001	.00010
%RSD	.27136	.85607
#1	.00537	.01150
#2	.00538	.01166
#3	.00540	.01167
Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49927.**	**41965.**
Stddev	65.	776.
%RSD	.12941	1.8488
#1	49975.	41804.
#2	49854.	41282.
#3	49953.	42809.

Approved: March 30, 2011

Sample Name: S2 Acquired: 3/29/2011 11:07:45 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00136**	**.02538**	**.00005**	**.00180**	**.02946**	**.00300**	**.00378**
Stddev	.00012	.00034	.00001	.00003	.00032	.00001	.00010
%RSD	8.6175	1.3275	21.130	1.8225	1.0840	.45841	2.7059
#1	.00149	.02545	.00004	.00179	.02982	.00299	.00387
#2	.00132	.02502	.00004	.00177	.02922	.00299	.00367
#3	.00126	.02568	.00006	.00183	.02934	.00301	.00380

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00042**	**.00070**	**.00343**	**.00089**	**.00112**	**.01097**	**.00577**
Stddev	.00002	.00000	.00009	.00005	.00004	.00031	.00007
%RSD	5.0050	.44927	2.5162	6.0009	3.8147	2.8355	1.1922
#1	.00043	.00070	.00352	.00085	.00110	.01093	.00579
#2	.00043	.00069	.00343	.00087	.00117	.01130	.00570
#3	.00039	.00070	.00335	.00096	.00108	.01068	.00583

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00075**	**.00165**	**.00189**	**.04139**	**.00046**	**.00161**	**.00019**
Stddev	.00006	.00005	.00002	.00069	.00000	.00002	.00004
%RSD	7.7818	2.8944	.89208	1.6596	.72987	1.0945	20.019
#1	.00082	.00170	.00189	.04218	.00046	.00159	.00017
#2	.00071	.00160	.00188	.04102	.00046	.00162	.00016
#3	.00072	.00165	.00191	.04096	.00047	.00162	.00023

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00210**	**.00028**	**.00020**	**.00048**	**.00003**	**.00237**	**.00103**
Stddev	.00010	.00001	.00001	.00002	.00000	.00004	.00002
%RSD	4.9411	5.1280	6.1695	3.7584	14.973	1.7425	1.5018
#1	-.00198	.00027	.00021	.00049	.00004	.00237	.00103
#2	-.00215	.00028	.00019	.00046	.00003	.00233	.00101
#3	-.00217	.00030	.00020	.00048	.00003	.00241	.00104

Approved: March 30, 2011

Sample Name: S2 Acquired: 3/29/2011 11:07:45 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.04048**	**.00171**	**.00007**	**.00986**	**.00849**	**.02382**
Stddev	.00059	.00008	.00001	.00018	.00011	.00032
%RSD	1.4562	4.8971	10.763	1.8172	1.3510	1.3344
#1	.04113	.00180	.00007	.00989	.00842	.02397
#2	.03998	.00163	.00006	.00967	.00843	.02345
#3	.04033	.00170	.00007	.01002	.00862	.02403

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49958.**	**42635.**
Stddev	238.	571.
%RSD	.47647	1.3386
#1	50071.	41984.
#2	50119.	43051.
#3	49685.	42870.

Approved: March 30, 2011

Sample Name: S3 Acquired: 3/29/2011 11:11:25 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

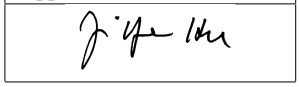
Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.08541**	**.85162**	**.00662**	**.06763**	**1.3386**	**.21818**	**.22787**
Stddev	.00065	.00394	.00001	.00036	.0915	.00167	.01625
%RSD	.76428	.46227	.16245	.53748	6.8320	.76379	7.1298
#1	.08468	.85046	.00662	.06730	1.2840	.21639	.21887
#2	.08592	.85601	.00661	.06802	1.2875	.21968	.21812
#3	.08563	.84840	.00663	.06757	1.4441	.21848	.24663

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01741**	**.03990**	**.14307**	**.03747**	**.05783**	**.69382**	**.28903**
Stddev	.00010	.00013	.00109	.00011	.00428	.04948	.02015
%RSD	.55966	.32638	.76059	.30137	7.3976	7.1309	6.9712
#1	.01731	.03975	.14188	.03734	.05508	.66614	.27723
#2	.01741	.03999	.14401	.03755	.05565	.66437	.27756
#3	.01751	.03996	.14331	.03752	.06276	.75094	.31229

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03775**	**.07668**	**.09224**	**2.3633**	**.02963**	**.07755**	**.01704**
Stddev	.00292	.00586	.00041	.1699	.00016	.00028	.00010
%RSD	7.7293	7.6386	.44788	7.1875	.54249	.35786	.60049
#1	.03603	.07326	.09186	2.2717	.02946	.07723	.01693
#2	.03611	.07333	.09268	2.2590	.02978	.07768	.01708
#3	.04112	.08344	.09220	2.5593	.02964	.07773	.01712

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00198**	**.00316**	**.00019**	**.02159**	**.00420**	**.09481**	**.05064**
Stddev	.00020	.00003	.00001	.00008	.00002	.00028	.00025
%RSD	10.070	.89472	5.4611	.39123	.47818	.29667	.49423
#1	-.00185	.00313	.00018	.02149	.00417	.09453	.05035
#2	-.00221	.00317	.00020	.02165	.00421	.09509	.05076
#3	-.00188	.00318	.00018	.02163	.00421	.09481	.05080

Approved: March 30, 2011



Sample Name: S3 Acquired: 3/29/2011 11:11:25 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.0398**	**.11367**	**.00606**	**.48939**	**.28472**	**1.2530**
Stddev	.1410	.00793	.00003	.00283	.00148	.0057
%RSD	6.9145	6.9736	.41677	.57910	.52085	.45783
#1	1.9629	.10921	.00604	.48666	.28301	1.2521
#2	1.9539	.10899	.00609	.49232	.28552	1.2591
#3	2.2026	.12283	.00606	.48920	.28564	1.2478

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48911.**	**41679.**
Stddev	168.	2551.
%RSD	.34423	6.1207
#1	49104.	42978.
#2	48795.	43320.
#3	48833.	38740.

Approved: March 30, 2011

Sample Name: S4 Acquired: 3/29/2011 11:14:48 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.17268**	**1.7370**	**.01321**	**.13631**	**2.6001**	**.44354**	**.44140**
Stddev	.00089	.0085	.00006	.00037	.0236	.00138	.00350
%RSD	.51585	.49114	.46076	.27446	.90781	.31007	.79385
#1	.17281	1.7273	.01327	.13599	2.6255	.44372	.44532
#2	.17349	1.7402	.01323	.13672	2.5959	.44481	.44030
#3	.17173	1.7435	.01315	.13621	2.5789	.44208	.43858

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03473**	**.07846**	**.28576**	**.07359**	**.11090**	**1.3468**	**.56238**
Stddev	.00004	.00022	.00030	.00005	.00067	.0090	.00494
%RSD	.11700	.28071	.10544	.06995	.60271	.67140	.87806
#1	.03478	.07870	.28595	.07365	.11167	1.3571	.56788
#2	.03471	.07826	.28591	.07357	.11045	1.3434	.56094
#3	.03471	.07843	.28541	.07355	.11059	1.3399	.55832

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07217**	**.14706**	**.18412**	**4.5363**	**.05830**	**.15608**	**.03364**
Stddev	.00045	.00091	.00066	.0342	.00012	.00035	.00009
%RSD	.62671	.61798	.35996	.75397	.20845	.22712	.27380
#1	.07258	.14811	.18443	4.5757	.05840	.15648	.03375
#2	.07169	.14644	.18336	4.5179	.05817	.15578	.03358
#3	.07223	.14665	.18457	4.5152	.05833	.15600	.03360

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00187**	**.00599**	**.00021**	**.04312**	**.00851**	**.18845**	**.09958**
Stddev	.00011	.00002	.00000	.00001	.00001	.00021	.00027
%RSD	5.9501	.34723	2.1228	.02018	.12153	.11150	.26967
#1	-.00191	.00598	.00022	.04313	.00852	.18866	.09979
#2	-.00196	.00597	.00021	.04311	.00850	.18824	.09928
#3	-.00175	.00601	.00021	.04312	.00850	.18846	.09967

Approved: March 30, 2011

Sample Name: S4 Acquired: 3/29/2011 11:14:48 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.9355**	**.22084**	**.01186**	**.98614**	**.56149**	**2.5322**
Stddev	.0333	.00155	.00004	.00270	.00109	.0101
%RSD	.84643	.70106	.31015	.27379	.19325	.39755
#1	3.9731	.22263	.01184	.98431	.56263	2.5206
#2	3.9240	.22006	.01184	.98924	.56047	2.5374
#3	3.9095	.21984	.01191	.98487	.56136	2.5385

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48256.**	**42774.**
Stddev	39.	146.
%RSD	.08063	.34227
#1	48223.	42833.
#2	48299.	42882.
#3	48246.	42607.

Approved: March 30, 2011

Sample Name: ICV Acquired: 3/29/2011 11:20:11 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38727**	**9.6172**	**.39224**	**.48813**	**.98106**	**.04897**	**9.7758**
Stddev	.00425	.1027	.00098	.00397	.00338	.00025	.0425
%RSD	1.0986	1.0681	.24870	.81270	.34474	.50079	.43475
#1	.38970	9.6254	.39120	.48846	.97753	.04900	9.7498
#2	.38236	9.5106	.39314	.48401	.98139	.04871	9.7526
#3	.38975	9.7155	.39237	.49192	.98427	.04919	9.8248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04961**	**.19924**	**.49725**	**.49832**	**3.9854**	**49.070**	**.97477**
Stddev	.00018	.00054	.00255	.00122	.0032	.069	.00546
%RSD	.36640	.26879	.51305	.24573	.08135	.14102	.55978
#1	.04965	.19931	.49684	.49953	3.9875	49.059	.96974
#2	.04976	.19974	.49493	.49835	3.9817	49.008	.97399
#3	.04941	.19867	.49998	.49708	3.9870	49.145	.98057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9606**	**.49589**	**.99618**	**48.743**	**.50024**	**9.8212**	**.50012**
Stddev	.0296	.00159	.00212	.258	.00061	.0100	.00203
%RSD	.29759	.31985	.21308	.52970	.12254	.10200	.40596
#1	9.9516	.49506	.99846	48.661	.50093	9.8323	.50153
#2	9.9937	.49490	.99426	48.536	.49976	9.8187	.50104
#3	9.9366	.49772	.99582	49.032	.50003	9.8127	.49779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: ICV Acquired: 3/29/2011 11:20:11 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **120.86**	**9.9049**	F **23.582**	**1.1876**	**.39737**	**4.9607**	**.98803**
Stddev	64.39	.0298	6.131	.0021	.00133	.0073	.00589
%RSD	53.280	.30081	25.997	.17771	.33504	.14720	.59620
#1	192.49	9.9213	22.162	1.1881	.39624	4.9651	.99429
#2	102.30	9.9228	18.286	1.1894	.39703	4.9648	.98722
#3	67.781	9.8705	30.299	1.1852	.39883	4.9523	.98259
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	5.0000%		5.0000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96687**	**.97827**	**.49957**	**.97509**	**.98903**	**.97434**
Stddev	.00632	.00133	.00132	.00745	.00321	.01066
%RSD	.65342	.13615	.26482	.76431	.32414	1.0944
#1	.96357	.97744	.50006	.97747	.99225	.97394
#2	.96289	.97756	.50058	.96674	.98900	.96388
#3	.97416	.97981	.49807	.98107	.98584	.98520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49164.**	**41690.**
Stddev	130.	402.
%RSD	.26516	.96378
#1	49043.	41330.
#2	49148.	41617.
#3	49302.	42123.

Approved: March 30, 2011

Sample Name: ICB Acquired: 3/29/2011 11:23:32 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00018**	**.00110**	**.00208**	**.00010**	**-.00001**	**.00494**
Stddev	.00051	.00140	.00016	.00029	.00010	.00002	.00496
%RSD	1891.2	791.86	14.435	13.846	93.553	254.96	100.35
#1	.00059	.00143	.00106	.00195	-.00001	.00001	.01011
#2	-.00009	-.00113	.00127	.00189	.00016	-.00003	.00022
#3	-.00042	-.00082	.00096	.00241	.00015	-.00001	.00449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00016**	**-.00031**	**-.00016**	**-.00327**	**.07315**	**-.00142**
Stddev	.00007	.00013	.00020	.00034	.00078	.01393	.00147
%RSD	73.898	79.692	64.106	216.04	23.846	19.039	103.75
#1	-.00001	.00003	-.00009	.00021	-.00399	.08352	-.00063
#2	-.00013	.00028	-.00047	-.00046	-.00244	.05732	-.00311
#3	-.00013	.00016	-.00038	-.00022	-.00338	.07860	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01392**	**.00011**	**-.00005**	**.00301**	**-.00023**	**-.00097**	**.00024**
Stddev	.00785	.00016	.00007	.00524	.00048	.00286	.00009
%RSD	56.369	150.41	141.75	174.08	211.97	294.98	38.973
#1	-.00811	.00021	.00000	.00404	.00032	-.00047	.00020
#2	-.02285	-.00008	-.00013	.00766	-.00042	.00161	.00035
#3	-.01080	.00019	-.00002	-.00267	-.00058	-.00405	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: ICB Acquired: 3/29/2011 11:23:32 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-14.382**	**-.04172**	F **7.3485**	**-.00139**	**-.00051**	**.00033**	**-.00024**
Stddev	37.786	.02378	2.9761	.00120	.00128	.00088	.00015
%RSD	262.74	57.003	40.499	86.686	253.17	265.88	64.654
#1	-24.945	-.02206	3.9891	.00000	-.00186	-.00002	-.00007
#2	27.562	-.06816	8.4014	-.00209	-.00037	-.00032	-.00026
#3	-45.762	-.03495	9.6549	-.00207	.00070	.00132	-.00038
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0400		1.0400				
Low Limit	-1.2000		-1.0400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00038**	**.00103**	**.00001**	**-.00099**	**.00006**
Stddev	.00008	.00077	.00056	.00007	.00009	.00009
%RSD	657.74	199.51	54.073	870.35	8.8421	157.85
#1	.00008	.00050	.00048	-.00007	-.00089	.00012
#2	-.00007	-.00089	.00101	.00005	-.00107	.00010
#3	-.00005	-.00076	.00160	.00005	-.00102	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49672.**	**42296.**
Stddev	114.	430.
%RSD	.22925	1.0165
#1	49541.	42775.
#2	49747.	41946.
#3	49727.	42166.

Approved: March 30, 2011

Sample Name: LLICV Acquired: 3/29/2011 11:27:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01940**	**.44798**	**.01988**	**.02387**	**.04672**	**.00230**	**.47638**
Stddev	.00075	.00937	.00027	.00078	.00007	.00004	.00980
%RSD	3.8794	2.0917	1.3807	3.2479	.15241	1.6552	2.0563
#1	.01856	.44888	.01973	.02435	.04680	.00232	.46568
#2	.01964	.45687	.01970	.02429	.04670	.00233	.47857
#3	.02001	.43820	.02019	.02298	.04666	.00226	.48490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00225**	**.00957**	**.02379**	**.02407**	**.18715**	**2.3881**	**.04514**
Stddev	.00006	.00010	.00007	.00035	.00206	.0141	.00085
%RSD	2.7306	.99744	.28510	1.4370	1.1006	.58950	1.8889
#1	.00224	.00961	.02386	.02369	.18675	2.3719	.04416
#2	.00231	.00946	.02378	.02437	.18531	2.3956	.04550
#3	.00219	.00963	.02372	.02416	.18938	2.3969	.04575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45835**	**.02355**	**.04734**	**2.2912**	**.02377**	**.46494**	**.02309**
Stddev	.00733	.00039	.00003	.0228	.00041	.00344	.00035
%RSD	1.5998	1.6435	.05907	.99390	1.7282	.73911	1.5172
#1	.45580	.02361	.04730	2.2729	.02411	.46820	.02331
#2	.45263	.02313	.04735	2.2839	.02389	.46135	.02268
#3	.46662	.02390	.04735	2.3167	.02331	.46526	.02327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: LLICV Acquired: 3/29/2011 11:27:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.2242**	**.46347**	F **24.637**	**.05664**	**.01674**	**.23578**	**.04737**
Stddev	16.688	.01894	6.452	.00056	.00069	.00197	.00024
%RSD	180.92	4.0868	26.186	.99290	4.1418	.83577	.50854
#1	17.772	.45348	17.193	.05712	.01732	.23790	.04756
#2	-10.006	.45161	28.602	.05677	.01693	.23543	.04710
#3	19.907	.48531	28.117	.05602	.01597	.23401	.04745
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04634**	**.04674**	**.02570**	**.04651**	**.04547**	**.04677**
Stddev	.00037	.00046	.00064	.00103	.00058	.00129
%RSD	.78795	.98282	2.4809	2.2203	1.2705	2.7474
#1	.04612	.04677	.02624	.04680	.04504	.04736
#2	.04613	.04627	.02587	.04736	.04613	.04766
#3	.04676	.04719	.02500	.04536	.04525	.04530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49427.**	**43394.**
Stddev	36.	163.
%RSD	.07201	.37667
#1	49411.	43391.
#2	49468.	43558.
#3	49402.	43231.

Approved: March 30, 2011

Sample Name: ICSA Acquired: 3/29/2011 11:30:54 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**249.69**	**-.00173**	**.04956**	**.00096**	**-.00003**	**243.24**
Stddev	.00027	.84	.00207	.00037	.00011	.00003	.92
%RSD	43.048	.33683	119.24	.74357	11.201	94.848	.37715
#1	-.00073	250.28	-.00150	.04928	.00100	-.00006	242.32
#2	-.00083	250.06	.00021	.04942	.00084	.00000	244.15
#3	-.00032	248.73	-.00390	.04998	.00103	-.00003	243.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.00117**	**.00023**	**-.00146**	**-.00117**	**93.887**	**.06456**	**.00754**
Stddev	.00002	.00015	.00043	.00052	.186	.01900	.00083
%RSD	1.6458	66.394	29.472	44.852	.19844	29.423	11.069
#1	.00115	.00033	-.00113	-.00125	93.687	.05422	.00850
#2	.00118	.00005	-.00129	-.00165	94.055	.05297	.00706
#3	.00118	.00030	-.00194	-.00061	93.920	.08648	.00705
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.00050						
Low Limit	-.00050						

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**242.74**	**-.00148**	**-.00062**	**.01131**	**-.00136**	**-.02315**	F **-.00551**
Stddev	.55	.00053	.00017	.01384	.00085	.00086	.00265
%RSD	.22859	35.415	27.759	122.32	62.197	3.6983	48.134
#1	242.30	-.00089	-.00051	.02468	-.00212	-.02313	-.00673
#2	242.55	-.00166	-.00054	.01222	-.00151	-.02401	-.00732
#3	243.36	-.00189	-.00082	-.00296	-.00045	-.02230	-.00246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.00500
Low Limit							-.00500

Approved: March 30, 2011

Sample Name: ICSA Acquired: 3/29/2011 11:30:54 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **3.0952**	F **230.27**	F **-52.809**	**-.00464**	**-.00109**	**.00442**	**.00012**
Stddev	41.644	1.17	12.614	.00170	.00074	.00048	.00024
%RSD	1345.4	.50700	23.886	36.605	67.670	10.790	197.77
#1	-2.5461	229.87	-45.757	-.00653	-.00052	.00405	.00009
#2	47.272	229.37	-45.298	-.00323	-.00083	.00496	-.00010
#3	-35.441	231.59	-67.372	-.00417	-.00193	.00425	.00038
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.04000	.04000	.04000				
Low Limit	-.04000	-.04000	-.04000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.01166**	**.00074**	**-.00339**	**-.00980**	**-.00017**
Stddev	.00007	.00116	.00014	.00016	.00083	.00008
%RSD	14.011	9.9282	18.607	4.6679	8.5178	49.258
#1	-.00043	-.01032	.00058	-.00352	-.01053	-.00020
#2	-.00043	-.01235	.00084	-.00322	-.00998	-.00024
#3	-.00054	-.01231	.00079	-.00345	-.00889	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46515.**	**43520.**
Stddev	153.	145.
%RSD	.32798	.33243
#1	46355.	43677.
#2	46659.	43492.
#3	46530.	43391.

Approved: March 30, 2011

Sample Name: ICSAB Acquired: 3/29/2011 11:34:35 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50061**	**261.54**	**.24828**	**.04920**	**.24240**	**.25982**	**251.67**
Stddev	.00676	3.28	.00246	.00047	.00157	.00214	.75
%RSD	1.3504	1.2546	.98974	.95703	.64645	.82186	.29802
#1	.49493	258.29	.25018	.04892	.24076	.25826	250.94
#2	.49882	264.85	.24551	.04974	.24388	.25895	252.44
#3	.50809	261.48	.24915	.04893	.24255	.26225	251.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44658**	**.24545**	**.24557**	**.24663**	**96.459**	**5.0160**	**.00864**
Stddev	.00213	.00111	.00186	.00108	.307	.0389	.00061
%RSD	.47658	.45219	.75548	.43985	.31782	.77447	7.0506
#1	.44802	.24651	.24477	.24663	96.110	4.9870	.00875
#2	.44414	.24429	.24425	.24554	96.685	5.0601	.00919
#3	.44759	.24554	.24769	.24771	96.583	5.0008	.00799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**248.67**	**.23556**	**-.00060**	**4.8910**	**.48536**	**-.01895**	**.48005**
Stddev	.67	.00094	.00014	.0065	.00184	.00109	.00575
%RSD	.26967	.40095	23.102	.13295	.37834	5.7667	1.1974
#1	248.05	.23447	-.00056	4.8846	.48664	-.02021	.48359
#2	248.59	.23610	-.00075	4.8976	.48326	-.01832	.47342
#3	249.38	.23612	-.00049	4.8909	.48618	-.01832	.48314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: ICSAB Acquired: 3/29/2011 11:34:35 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-144.24**	F **238.90**	F **-56.500**	**.51879**	**.24905**	**.00587**	**.00019**
Stddev	83.64	.61	5.233	.00258	.00207	.00087	.00029
%RSD	57.990	.25647	9.2627	.49814	.83164	14.829	151.00
#1	-153.29	238.61	-53.841	.52129	.24671	.00511	-.00003
#2	-56.436	238.50	-62.529	.51613	.25065	.00569	.00052
#3	-222.99	239.61	-53.129	.51897	.24979	.00682	.00009
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.60000	.60000	.60000				
Low Limit	.40000	.40000	.40000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.01084**	**.45781**	**.24561**	**.45295**	**-.00028**
Stddev	.00004	.00083	.00246	.00258	.00113	.00013
%RSD	6.7970	7.6804	.53705	1.0499	.25037	49.030
#1	-.00060	-.01045	.46062	.24349	.45180	-.00034
#2	-.00055	-.01028	.45604	.24486	.45300	-.00012
#3	-.00053	-.01180	.45678	.24848	.45406	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46691.**	**44138.**
Stddev	89.	290.
%RSD	.19121	.65629
#1	46710.	43877.
#2	46769.	44450.
#3	46593.	44088.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 11:38:14 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40403**	**10.033**	**.39768**	**.50447**	**.97809**	**.05030**	**9.7572**
Stddev	.00454	.060	.00511	.00253	.00171	.00031	.0384
%RSD	1.1233	.59921	1.2856	.50227	.17495	.60649	.39406
#1	.40918	10.046	.40209	.50600	.97947	.05046	9.7570
#2	.40061	9.9667	.39887	.50154	.97617	.04995	9.7189
#3	.40230	10.084	.39207	.50587	.97861	.05050	9.7958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05037**	**.20140**	**.50744**	**.50431**	**3.9221**	**48.616**	**.98596**
Stddev	.00048	.00169	.00343	.00454	.0105	.115	.00091
%RSD	.94535	.83822	.67539	.90000	.26669	.23745	.09248
#1	.05092	.20311	.50923	.50951	3.9340	48.699	.98649
#2	.05011	.20137	.50348	.50231	3.9146	48.484	.98491
#3	.05008	.19973	.50960	.50112	3.9175	48.665	.98649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6649**	**.48447**	**1.0143**	**49.001**	**.50731**	**9.9583**	**.50507**
Stddev	.0301	.00221	.0124	.167	.00589	.1060	.00650
%RSD	.31188	.45670	1.2177	.33984	1.1605	1.0640	1.2874
#1	9.6985	.48476	1.0284	49.009	.51404	10.076	.51235
#2	9.6562	.48212	1.0091	48.830	.50478	9.9270	.50302
#3	9.6401	.48652	1.0054	49.163	.50311	9.8716	.49984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 11:38:14 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-83.939**	**9.9890**	F **27.383**	**1.2076**	**.40562**	**5.0502**	**1.0030**
Stddev	31.938	.1091	9.599	.0134	.00638	.0568	.0112
%RSD	38.049	1.0925	35.054	1.1089	1.5720	1.1246	1.1114
#1	-98.701	10.115	19.657	1.2222	.41165	5.1130	1.0158
#2	-47.290	9.9276	24.363	1.2046	.40626	5.0350	.99743
#3	-105.83	9.9245	38.129	1.1959	.39895	5.0025	.99572
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	-10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97829**	**.97748**	**.50884**	**1.0067**	**.99965**	**1.0099**
Stddev	.00461	.00198	.00487	.0062	.00982	.0044
%RSD	.47148	.20227	.95762	.61328	.98249	.43974
#1	.97833	.97881	.51443	1.0109	1.0110	1.0113
#2	.97366	.97521	.50663	.99959	.99420	1.0049
#3	.98288	.97843	.50547	1.0095	.99376	1.0134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48361.**	**43847.**
Stddev	399.	350.
%RSD	.82576	.79757
#1	47903.	43521.
#2	48539.	43804.
#3	48640.	44216.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 11:41:36 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00424**	**.00076**	**.00160**	**-.00031**	**-.00001**	**.00318**
Stddev	.00041	.00163	.00022	.00052	.00012	.00001	.00447
%RSD	119.65	38.469	29.526	32.302	40.012	249.55	140.27
#1	.00069	.00572	.00061	.00193	-.00026	-.00001	.00347
#2	.00046	.00249	.00102	.00187	-.00045	.00001	.00750
#3	-.00011	.00450	.00065	.00101	-.00022	-.00002	-.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00011**	**-.00037**	**-.00016**	**-.00298**	**.06700**	**-.00122**
Stddev	.00008	.00013	.00011	.00063	.00232	.01093	.00186
%RSD	142.13	121.64	29.539	404.64	77.901	16.313	152.33
#1	.00002	.00022	-.00042	.00041	-.00086	.07865	-.00261
#2	-.00014	-.00004	-.00025	-.00004	-.00545	.06536	.00089
#3	-.00005	.00014	-.00045	-.00084	-.00262	.05698	-.00195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01227**	**-.00012**	**.00017**	**.01026**	**-.00002**	**-.00083**	**-.00045**
Stddev	.00690	.00005	.00029	.00577	.00026	.00189	.00068
%RSD	56.245	37.920	167.37	56.254	1089.6	227.48	151.99
#1	-.01078	-.00015	.00049	.01615	.00028	.00129	.00028
#2	-.01979	-.00007	-.00009	.01002	-.00020	-.00146	-.00055
#3	-.00623	-.00014	.00013	.00461	-.00015	-.00232	-.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 11:41:36 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-48.578**	**-.01615**	F **15.041**	**-.00107**	**-.00015**	**.00118**	**-.00010**
Stddev	5.236	.04460	.640	.00069	.00065	.00159	.00028
%RSD	10.778	276.19	4.2528	64.752	440.08	134.54	269.81
#1	-50.886	.00338	15.217	-.00071	-.00032	.00290	.00013
#2	-42.585	-.06718	14.332	-.00062	-.00070	-.00025	-.00042
#3	-52.263	.01535	15.574	-.00186	.00057	.00090	-.00003
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00008**	**.00060**	**.00000**	**-.00037**	**.00009**
Stddev	.00004	.00027	.00104	.00026	.00022	.00011
%RSD	39.256	332.50	173.41	28052.	61.419	121.54
#1	-.00013	-.00033	.00082	.00029	-.00029	-.00001
#2	-.00009	-.00011	-.00053	-.00007	-.00019	.00008
#3	-.00006	.00020	.00151	-.00021	-.00062	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49708.**	**44437.**
Stddev	1093.	173.
%RSD	2.1991	.38844
#1	49117.	44249.
#2	50970.	44474.
#3	49038.	44589.

Approved: March 30, 2011

Sample Name: L1103092505 Acquired: 3/29/2011 11:45:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**57.185**	**.01134**	**.19016**	**.06449**	**.00351**	**.72095**
Stddev	.00020	.321	.00112	.00095	.00012	.00003	.00505
%RSD	13.747	.56158	9.8765	.50053	.17921	.83942	.69979
#1	-.00159	56.946	.01248	.18955	.06437	.00348	.71730
#2	-.00123	57.060	.01025	.19125	.06450	.00352	.71884
#3	-.00156	57.550	.01130	.18967	.06460	.00354	.72670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.07668**	**.00556**	**.01919**	**367.89**	**2.0937**	**.01129**
Stddev	.00012	.00036	.00030	.00047	.48	.0186	.00080
%RSD	8.4954	.46570	5.3780	2.4238	.13057	.88945	7.0905
#1	.00126	.07634	.00534	.01865	367.45	2.1045	.01037
#2	.00140	.07664	.00544	.01939	368.40	2.0722	.01167
#3	.00150	.07706	.00590	.01952	367.82	2.1045	.01182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3701**	**2.1805**	**-.00187**	**.25520**	**.02690**	**.79928**	**.01822**
Stddev	.0026	.0029	.00014	.00322	.00041	.00234	.00133
%RSD	.19262	.13542	7.3704	1.2611	1.5167	.29339	7.3049
#1	1.3690	2.1805	-.00172	.25707	.02737	.79995	.01803
#2	1.3683	2.1776	-.00190	.25149	.02667	.79667	.01700
#3	1.3732	2.1835	-.00199	.25705	.02667	.80122	.01964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092505 Acquired: 3/29/2011 11:45:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-91.320**	**7.2057**	F **-1904.4**	**-.00924**	**-.00146**	**.78155**	**.00261**
Stddev	57.107	.0566	13.8	.00126	.00012	.00281	.00029
%RSD	62.535	.78539	.72275	13.635	8.4937	.35971	10.952
#1	-155.24	7.1421	-1892.1	-.01054	-.00137	.78055	.00247
#2	-73.382	7.2248	-1901.9	-.00803	-.00160	.78472	.00294
#3	-45.335	7.2503	-1919.3	-.00915	-.00140	.77937	.00242
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01069**	**.03134**	**.00188**	**.04008**	**.06313**	**.02885**
Stddev	.00008	.00012	.00059	.00033	.00019	.00032
%RSD	.78685	.39154	31.456	.82006	.30790	1.1243
#1	.01061	.03138	.00248	.03970	.06336	.02880
#2	.01069	.03120	.00130	.04028	.06304	.02855
#3	.01077	.03144	.00185	.04025	.06300	.02920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51415.**	**46041.**
Stddev	114.	88.
%RSD	.22154	.19217
#1	51508.	46057.
#2	51449.	45946.
#3	51288.	46121.

Approved: March 30, 2011

Sample Name: L1103092505 Acquired: 3/29/2011 11:48:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 500 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.57439**	**.00229**	**.00188**	**.00043**	**.00004**	**.00817**
Stddev	.00032	.00867	.00104	.00043	.00007	.00001	.00387
%RSD	374.48	1.5095	45.349	22.939	16.838	25.261	47.350
#1	-.00031	.58103	.00120	.00147	.00050	.00003	.00879
#2	.00028	.57757	.00327	.00185	.00035	.00005	.01169
#3	-.00023	.56458	.00239	.00233	.00045	.00005	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00102**	**-.00076**	**.00014**	**3.7808**	**.07244**	**-.00082**
Stddev	.00010	.00005	.00016	.00005	.0185	.02093	.00092
%RSD	41.348	4.7205	21.295	32.014	.49049	28.890	111.56
#1	-.00014	.00101	-.00075	.00016	3.7988	.09223	-.00014
#2	-.00034	.00107	-.00092	.00018	3.7617	.05054	-.00187
#3	-.00026	.00098	-.00060	.00009	3.7820	.07455	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**.02193**	**-.00025**	**.00508**	**-.00019**	**.01711**	**.00022**
Stddev	.00731	.00034	.00010	.00615	.00017	.00215	.00044
%RSD	163.28	1.5348	38.853	121.11	92.913	12.568	204.12
#1	.00912	.02220	-.00023	.01204	-.00038	.01531	-.00025
#2	.00826	.02204	-.00036	.00040	-.00006	.01949	.00063
#3	-.00395	.02155	-.00017	.00279	-.00012	.01654	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092505 Acquired: 3/29/2011 11:48:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 500 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-82.390**	**.03699**	F **-1.2392**	**-.00290**	**-.00164**	**.00299**	**-.00043**
Stddev	47.246	.04481	1.0754	.00052	.00201	.00076	.00008
%RSD	57.344	121.16	86.778	17.840	122.40	25.280	17.805
#1	-99.979	.08809	-1.7431	-.00343	-.00096	.00373	-.00046
#2	-28.873	.01849	-.00443	-.00287	-.00006	.00302	-.00034
#3	-118.32	.00438	-1.9702	-.00240	-.00389	.00222	-.00048
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00060**	**.00190**	**.00029**	**.00063**	**.00035**
Stddev	.00002	.00055	.00136	.00014	.00034	.00003
%RSD	67.816	92.246	71.590	48.280	53.558	9.9307
#1	.00003	.00116	.00065	.00017	.00087	.00031
#2	.00003	.00058	.00334	.00025	.00078	.00038
#3	.00000	.00006	.00170	.00044	.00024	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50293.**	**45587.**
Stddev	229.	254.
%RSD	.45438	.55799
#1	50161.	45299.
#2	50161.	45685.
#3	50557.	45778.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 11:52:42 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39960**	**9.9612**	**.39706**	**.50302**	**.99541**	**.04953**	**9.7757**
Stddev	.00113	.0206	.00161	.00109	.00401	.00002	.0235
%RSD	.28218	.20660	.40513	.21739	.40324	.03679	.24025
#1	.40072	9.9474	.39530	.50385	.99924	.04953	9.7924
#2	.39963	9.9849	.39845	.50342	.99123	.04952	9.7489
#3	.39846	9.9515	.39744	.50178	.99577	.04955	9.7859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05004**	**.20026**	**.50035**	**.50154**	**3.8984**	**48.702**	**.99935**
Stddev	.00005	.00034	.00085	.00083	.0118	.124	.00318
%RSD	.10927	.16979	.16983	.16478	.30176	.25471	.31848
#1	.04999	.20015	.50133	.50065	3.9095	48.797	1.0013
#2	.05004	.20064	.49993	.50171	3.8861	48.561	.99568
#3	.05010	.19999	.49980	.50227	3.8996	48.748	1.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3597**	**.48597**	**1.0045**	**48.892**	**.50094**	**9.8720**	**.49675**
Stddev	.0333	.00220	.0008	.073	.00077	.0174	.00157
%RSD	.35575	.45180	.08266	.15029	.15288	.17671	.31695
#1	9.3278	.48756	1.0050	48.887	.50010	9.8537	.49659
#2	9.3943	.48346	1.0049	48.820	.50160	9.8884	.49839
#3	9.3570	.48689	1.0035	48.967	.50113	9.8739	.49526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 11:52:42 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-83.480**	**9.7540**	F **28.928**	**1.2116**	**.40490**	**5.0699**	**.98915**
Stddev	14.140	.0105	2.544	.0033	.00262	.0114	.00201
%RSD	16.938	.10801	8.7933	.27541	.64665	.22491	.20297
#1	-75.536	9.7422	27.473	1.2083	.40287	5.0671	.98686
#2	-99.805	9.7573	31.865	1.2150	.40785	5.0824	.99059
#3	-75.098	9.7625	27.445	1.2114	.40397	5.0602	.99002
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	-10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98312**	**.97759**	**.50482**	**.99641**	**.96871**	**1.0084**
Stddev	.00165	.00189	.00290	.00128	.00153	.0022
%RSD	.16736	.19296	.57526	.12822	.15804	.21310
#1	.98297	.97822	.50156	.99785	.96790	1.0072
#2	.98155	.97547	.50577	.99597	.96775	1.0109
#3	.98483	.97908	.50713	.99541	.97047	1.0071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48614.**	**44762.**
Stddev	59.	285.
%RSD	.12098	.63734
#1	48555.	44433.
#2	48614.	44939.
#3	48672.	44913.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 11:56:04 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00431**	**.00090**	**.00155**	**-.00008**	**.00003**	**.00626**
Stddev	.00039	.00055	.00109	.00049	.00007	.00001	.00340
%RSD	452.73	12.636	120.95	31.522	91.109	43.107	54.369
#1	-.00028	.00459	.00113	.00208	-.00004	.00002	.00900
#2	.00051	.00369	-.00029	.00112	-.00004	.00004	.00732
#3	.00003	.00467	.00186	.00145	-.00017	.00003	.00245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00010**	**-.00035**	**-.00053**	**-.00030**	**.08065**	**-.00201**
Stddev	.00005	.00014	.00041	.00035	.00154	.02086	.00085
%RSD	95.496	136.58	117.54	66.323	522.34	25.861	42.267
#1	-.00009	.00027	-.00016	-.00039	.00140	.09205	-.00182
#2	.00001	-.00001	-.00006	-.00026	-.00067	.09331	-.00128
#3	-.00009	.00006	-.00081	-.00093	-.00162	.05657	-.00295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01954**	**-.00025**	**.00005**	**.01141**	**.00012**	**.00182**	**-.00112**
Stddev	.01494	.00040	.00005	.00427	.00003	.00149	.00083
%RSD	76.498	161.86	109.39	37.417	20.582	81.683	74.437
#1	-.03628	-.00027	.00010	.01604	.00013	.00023	-.00181
#2	-.01477	-.00064	.00000	.00764	.00014	.00205	-.00019
#3	-.00755	.00016	.00004	.01054	.00009	.00318	-.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 11:56:04 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-42.597**	**.00752**	F **8.0249**	**-.00054**	**-.00020**	**-.00008**	**-.00041**
Stddev	31.440	.02855	11.322	.00050	.00052	.00105	.00002
%RSD	73.810	379.67	141.09	91.164	257.58	1268.5	5.2244
#1	-21.641	.01032	14.948	-.00050	-.00079	.00089	-.00043
#2	-27.400	-.02233	14.168	-.00106	.00002	-.00119	-.00039
#3	-78.748	.03457	-5.0415	-.00007	.00017	.00006	-.00041
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000		.01000				
Low Limit	-.01000		-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00047**	**.00185**	**-.00001**	**-.00183**	**.00011**
Stddev	.00004	.00073	.00052	.00032	.00037	.00010
%RSD	55.574	156.28	28.107	3592.7	20.178	94.835
#1	-.00005	.00130	.00228	-.00019	-.00198	.00001
#2	-.00005	.00018	.00201	.00036	-.00210	.00021
#3	-.00012	-.00008	.00127	-.00020	-.00141	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49002.**	**43961.**
Stddev	73.	178.
%RSD	.14925	.40581
#1	49017.	44135.
#2	49067.	43778.
#3	48923.	43969.

Approved: March 30, 2011

Sample Name: PBS 59 Acquired: 3/29/2011 11:59:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00454**	**-.00295**	**.00121**	**.00013**	**.00001**	**.04383**
Stddev	.00031	.00340	.00152	.00019	.00012	.00001	.00306
%RSD	827.40	74.812	51.322	15.699	93.643	234.94	6.9819
#1	-.00030	.00250	-.00246	.00120	.00027	-.00001	.04051
#2	-.00012	.00846	-.00465	.00102	.00007	.00001	.04655
#3	.00031	.00266	-.00174	.00140	.00005	.00002	.04442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00042**	**.00039**	**-.00027**	**.01060**	**.04377**	**-.00171**
Stddev	.00011	.00014	.00021	.00038	.00304	.01821	.00080
%RSD	43.375	34.071	52.043	139.49	28.642	41.602	46.738
#1	.00022	-.00026	.00040	-.00004	.01220	.05377	-.00260
#2	.00018	-.00046	.00019	-.00006	.00710	.05480	-.00146
#3	.00039	-.00053	.00060	-.00072	.01251	.02275	-.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00189**	**.00029**	**.00023**	**.02825**	**.00099**	F **-.01521**	**.00013**
Stddev	.00407	.00026	.00011	.00413	.00011	.00217	.00094
%RSD	215.67	87.932	49.910	14.634	10.597	14.284	692.92
#1	.00267	.00044	.00029	.03287	.00101	-.01302	-.00009
#2	-.00516	.00044	.00029	.02490	.00109	-.01737	-.00067
#3	-.00316	.00000	.00010	.02699	.00088	-.01524	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: PBS 59 Acquired: 3/29/2011 11:59:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-15.121**	**.12718**	F **-19.049**	**.00183**	**.00153**	**.01239**	**.00011**
Stddev	37.630	.04875	11.451	.00138	.00039	.00190	.00013
%RSD	248.86	38.328	60.112	75.364	25.710	15.364	116.48
#1	-9.2091	.07399	-7.2919	.00179	.00198	.01214	.00024
#2	19.203	.13784	-19.689	.00323	.00133	.01440	.00011
#3	-55.358	.16972	-30.167	.00047	.00127	.01062	-.00002
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00059**	**-.00205**	**-.00001**	**.00145**	**-.00001**
Stddev	.00003	.00089	.00121	.00028	.00102	.00014
%RSD	26.871	149.34	58.734	3549.9	70.607	1712.6
#1	.00009	-.00025	-.00066	.00028	.00236	.00015
#2	.00009	.00152	-.00266	-.00028	.00035	-.00013
#3	.00014	.00051	-.00284	-.00003	.00163	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47390.**	**42391.**
Stddev	1137.	204.
%RSD	2.3986	.48069
#1	48114.	42162.
#2	46080.	42457.
#3	47975.	42553.

Approved: March 30, 2011

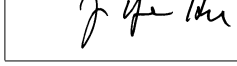
Sample Name: LCSS 59 Acquired: 3/29/2011 12:03:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21468**	**5.3458**	**.21533**	**1.0564**	**.56404**	**.02810**	**5.5686**
Stddev	.00181	.0035	.00027	.0034	.00045	.00017	.0134
%RSD	.84217	.06510	.12346	.32316	.07908	.59902	.24116
#1	.21381	5.3497	.21529	1.0526	.56442	.02792	5.5557
#2	.21347	5.3446	.21561	1.0573	.56416	.02813	5.5825
#3	.21676	5.3431	.21508	1.0593	.56355	.02826	5.5674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02814**	**.11599**	**.29284**	**.28294**	**2.2382**	**27.615**	**.56021**
Stddev	.00021	.00046	.00163	.00075	.0096	.095	.00246
%RSD	.75348	.39290	.55601	.26341	.43041	.34508	.43839
#1	.02824	.11619	.29192	.28297	2.2272	27.506	.56214
#2	.02790	.11547	.29189	.28218	2.2452	27.681	.56106
#3	.02828	.11632	.29472	.28367	2.2422	27.659	.55745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.5129**	**.28198**	**.59135**	**27.729**	**.29061**	**5.4684**	**.28128**
Stddev	.0285	.00130	.00222	.094	.00124	.0165	.00117
%RSD	.51666	.46269	.37583	.33895	.42824	.30180	.41428
#1	5.4801	.28117	.58899	27.643	.28963	5.4608	.27995
#2	5.5267	.28349	.59167	27.829	.29018	5.4569	.28179
#3	5.5318	.28129	.59340	27.716	.29201	5.4873	.28212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011



Sample Name: LCSS 59 Acquired: 3/29/2011 12:03:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.886**	**5.7787**	F **-24.186**	**.66779**	**.21669**	**2.8563**	**.57071**
Stddev	58.222	.0084	2.381	.00332	.00273	.0149	.00073
%RSD	243.75	.14552	9.8443	.49750	1.2596	.52102	.12850
#1	28.751	5.7859	-25.851	.66588	.21414	2.8709	.57049
#2	-36.616	5.7807	-25.247	.66586	.21636	2.8411	.57012
#3	79.523	5.7694	-21.459	.67163	.21957	2.8569	.57153
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.55908**	**.56524**	**.27814**	**.57851**	**.55993**	**.00036**
Stddev	.00036	.00069	.00157	.00236	.00137	.00007
%RSD	.06521	.12178	.56343	.40867	.24500	20.793
#1	.55936	.56477	.27867	.57691	.55855	.00030
#2	.55921	.56492	.27638	.57741	.55994	.00033
#3	.55867	.56603	.27938	.58123	.56129	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46629.**	**41418.**
Stddev	48.	298.
%RSD	.10345	.71933
#1	46575.	41727.
#2	46669.	41132.
#3	46642.	41396.

Approved: March 30, 2011

Sample Name: L1103087301 Acquired: 3/29/2011 12:06:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00273**	**115.20**	**.14115**	**.46997**	**.28111**	**.00904**
Stddev	.00030	.64	.00129	.00030	.00269	.00004
%RSD	11.103	.55739	.91329	.06384	.95697	.47038
#1	.00258	115.92	.14118	.47030	.27828	.00909
#2	.00308	114.98	.14243	.46971	.28141	.00903
#3	.00253	114.69	.13985	.46990	.28364	.00900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**247.41**	**.00652**	**.07325**	**.35517**	**.08545**	**300.69**
Stddev	2.23	.00005	.00075	.00310	.00144	2.70
%RSD	.90250	.76751	1.0242	.87165	1.6832	.89721
#1	245.08	.00656	.07407	.35874	.08706	298.22
#2	247.61	.00653	.07308	.35315	.08500	300.27
#3	249.53	.00646	.07260	.35363	.08428	303.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**45.909**	**.28922**	**54.455**	**1.4498**	**.03833**	**8.0084**
Stddev	.393	.00162	.388	.0132	.00015	.0671
%RSD	.85648	.56051	.71205	.91011	.39493	.83767
#1	45.507	.28739	54.159	1.4380	.03835	7.9317
#2	45.927	.29048	54.312	1.4472	.03816	8.0376
#3	46.293	.28980	54.894	1.4641	.03846	8.0559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103087301 Acquired: 3/29/2011 12:06:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20466**	**4.7184**	**.13454**	F **-102.40**	F **3913.2**	F **-1165e3**
Stddev	.00118	.0337	.00259	76.49	21.2	1187.
%RSD	.57432	.71506	1.9283	74.694	.54121	.10182
#1	.20587	4.7554	.13643	-31.114	3937.6	-1165e3
#2	.20457	4.7104	.13560	-183.20	3902.3	-1164e3
#3	.20352	4.6894	.13158	-92.888	3899.7	-1167e3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00581**	**2.2967**	**.00650**	**1.5381**	**.44558**
Stddev	.00199	.00172	.0124	.00043	.0135	.00352
%RSD	325.71	29.637	.53821	6.6454	.87612	.79045
#1	-.00169	.00476	2.3103	.00663	1.5227	.44184
#2	.00186	.00780	2.2863	.00602	1.5434	.44607
#3	.00167	.00487	2.2935	.00686	1.5480	.44883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.00512**	**.24604**	**.60869**	**.16247**
Stddev	.00125	.00245	.00658	.00141
%RSD	24.443	.99748	1.0813	.86908
#1	.00377	.24804	.61317	.16382
#2	.00624	.24678	.61177	.16260
#3	.00536	.24330	.60113	.16100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: March 30, 2011

Sample Name: L1103087301 Acquired: 3/29/2011 12:06:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46243.**	**44614.**
Stddev	218.	359.
%RSD	.47241	.80441
#1	46067.	44496.
#2	46175.	45017.
#3	46487.	44330.

Approved: March 30, 2011

Sample Name: L1103089305 Acquired: 3/29/2011 12:10:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03062**	**355.46**	**6.3561**	**.39019**	**3.5839**	**.02543**	**39.304**
Stddev	.00039	3.39	.0275	.00437	.0231	.00003	.242
%RSD	1.2775	.95358	.43263	1.1202	.64574	.10606	.61514
#1	.03094	356.37	6.3249	.38714	3.5637	.02546	39.034
#2	.03075	351.71	6.3770	.38824	3.6092	.02542	39.500
#3	.03018	358.31	6.3663	.39520	3.5789	.02540	39.378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12811**	**.30340**	**2.9781**	**.21533**	**762.15**	**10.430**	**.26453**
Stddev	.00028	.00132	.0057	.00111	7.30	.075	.00151
%RSD	.21472	.43496	.19095	.51348	.95777	.72390	.57207
#1	.12841	.30230	2.9736	.21458	755.85	10.344	.26321
#2	.12807	.30486	2.9762	.21660	760.46	10.483	.26618
#3	.12786	.30305	2.9845	.21481	770.15	10.464	.26421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.008**	**66.215**	**.01884**	**1.7589**	**.25298**	**6.6558**	**.59511**
Stddev	.084	.141	.00022	.0107	.00021	.0290	.00149
%RSD	.69927	.21236	1.1865	.60910	.08468	.43638	.24997
#1	11.936	66.057	.01877	1.7465	.25318	6.6317	.59512
#2	11.987	66.261	.01867	1.7655	.25276	6.6881	.59659
#3	12.100	66.327	.01909	1.7646	.25300	6.6478	.59361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089305 Acquired: 3/29/2011 12:10:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-179.95**	F **111.44**	F **-21421.**	**.03454**	**.04127**	**2.7129**	**.02072**
Stddev	46.34	.46	22.	.00107	.00360	.0071	.00030
%RSD	25.754	.40935	.10393	3.1029	8.7280	.26297	1.4475
#1	-233.21	110.91	-21397.	.03543	.03719	2.7138	.02049
#2	-157.86	111.70	-21440.	.03335	.04262	2.7196	.02106
#3	-148.79	111.70	-21428.	.03483	.04400	2.7054	.02062
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19129**	**.49310**	**.03237**	**1.8066**	**1.4737**	**.27728**
Stddev	.00128	.00409	.00105	.0031	.0036	.00040
%RSD	.67035	.82984	3.2401	.16880	.24226	.14544
#1	.18997	.48850	.03126	1.8055	1.4715	.27750
#2	.19253	.49635	.03250	1.8042	1.4778	.27681
#3	.19137	.49443	.03335	1.8100	1.4718	.27752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50348.**	**48516.**
Stddev	53.	517.
%RSD	.10604	1.0656
#1	50400.	48613.
#2	50293.	48977.
#3	50351.	47957.

Approved: March 30, 2011

Sample Name: L1103089306S Acquired: 3/29/2011 12:14:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20582**	**373.94**	**4.9938**	**.94865**	**3.8381**	**.04312**	**43.038**
Stddev	.00088	.22	.0136	.00837	.0131	.00009	.106
%RSD	.42692	.05991	.27280	.88250	.34055	.21646	.24582
#1	.20681	374.19	5.0084	.94606	3.8364	.04322	43.018
#2	.20552	373.87	4.9916	.94188	3.8519	.04309	43.152
#3	.20513	373.76	4.9814	.95801	3.8260	.04304	42.943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12021**	**.35908**	**2.3463**	**.41406**	**648.29**	**31.694**	**.69000**
Stddev	.00039	.00107	.0069	.00298	14.02	.021	.00394
%RSD	.32409	.29705	.29478	.72037	2.1627	.06728	.57089
#1	.11992	.36025	2.3520	.41643	642.13	31.669	.69089
#2	.12006	.35881	2.3483	.41505	638.40	31.704	.69342
#3	.12065	.35817	2.3386	.41071	664.33	31.708	.68569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.950**	**62.893**	**.44974**	**23.117**	**.45397**	**9.8666**	**.72720**
Stddev	.115	.867	.00018	.061	.00158	.0262	.00272
%RSD	.67933	1.3786	.04004	.26342	.34764	.26563	.37386
#1	16.930	61.894	.44953	23.146	.45563	9.8861	.72673
#2	16.845	63.332	.44984	23.159	.45380	9.8770	.73012
#3	17.073	63.452	.44984	23.047	.45249	9.8368	.72474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089306S Acquired: 3/29/2011 12:14:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-47.562**	F **112.05**	F **-20584.**	**.52361**	**.19504**	**7.6778**	**.43723**
Stddev	123.99	.53	13.	.00127	.00017	.0530	.00035
%RSD	260.70	.46903	.06123	.24347	.08593	.69037	.07931
#1	93.977	112.58	-20569.	.52217	.19522	7.7085	.43744
#2	-137.02	112.05	-20593.	.52411	.19490	7.7083	.43683
#3	-99.648	111.53	-20589.	.52457	.19500	7.6166	.43742
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.63738**	**1.3230**	**.22922**	**2.0280**	**1.7868**	**.26586**
Stddev	.00351	.0045	.00156	.0035	.0044	.00113
%RSD	.55051	.33646	.67908	.17120	.24695	.42552
#1	.63999	1.3281	.23014	2.0319	1.7896	.26662
#2	.63877	1.3212	.23010	2.0268	1.7891	.26456
#3	.63339	1.3197	.22743	2.0253	1.7817	.26639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49179.**	**46250.**
Stddev	83.	639.
%RSD	.16892	1.3814
#1	49085.	46254.
#2	49243.	46886.
#3	49209.	45609.

Approved: March 30, 2011

Sample Name: L1103089307SD Acquired: 3/29/2011 12:18:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19844**	**382.44**	**5.2231**	**.93558**	**3.8072**	**.04191**	**43.352**
Stddev	.00018	2.53	.0155	.00655	.0152	.00014	.226
%RSD	.08909	.66028	.29710	.69984	.39872	.32282	.52206
#1	.19830	383.17	5.2091	.92822	3.8238	.04176	43.555
#2	.19839	384.51	5.2398	.94075	3.8039	.04196	43.395
#3	.19864	379.63	5.2204	.93778	3.7940	.04202	43.108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12413**	**.35422**	**1.8864**	**.39747**	**630.41**	**32.215**	**.69905**
Stddev	.00045	.00081	.0051	.00217	6.13	.092	.00066
%RSD	.36530	.22814	.27009	.54501	.97195	.28630	.09443
#1	.12450	.35357	1.8807	.39649	623.46	32.310	.69976
#2	.12427	.35513	1.8905	.39996	635.02	32.210	.69892
#3	.12363	.35397	1.8880	.39597	632.77	32.125	.69846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.543**	**59.374**	**.44282**	**22.874**	**.45168**	**9.5311**	**.73881**
Stddev	.070	.127	.00075	.138	.00152	.0049	.00078
%RSD	.39885	.21406	.16830	.60361	.33746	.05157	.10593
#1	17.606	59.375	.44346	22.990	.45200	9.5341	.73793
#2	17.468	59.501	.44302	22.911	.45301	9.5338	.73908
#3	17.555	59.247	.44200	22.721	.45002	9.5254	.73942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089307SD Acquired: 3/29/2011 12:18:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.835**	F **109.78**	F **-20046.**	**.50895**	**.19228**	**8.3655**	**.42461**
Stddev	48.458	.44	39.	.00189	.00292	.0783	.00092
%RSD	79.654	.40135	.19650	.37068	1.5199	.93596	.21680
#1	-115.17	109.41	-20023.	.51019	.19202	8.4021	.42376
#2	-45.251	110.27	-20092.	.50988	.19533	8.4188	.42559
#3	-22.088	109.66	-20024.	.50678	.18950	8.2756	.42448
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.64841**	**1.2427**	**.22131**	**2.0155**	**1.7840**	**.25976**
Stddev	.00367	.0043	.00150	.0040	.0034	.00018
%RSD	.56597	.34442	.67898	.19760	.18913	.06817
#1	.65126	1.2469	.22002	2.0111	1.7808	.25956
#2	.64971	1.2428	.22094	2.0164	1.7875	.25989
#3	.64427	1.2383	.22296	2.0189	1.7839	.25983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50054.**	**46678.**
Stddev	87.	561.
%RSD	.17356	1.2018
#1	49985.	46041.
#2	50024.	46896.
#3	50151.	47097.

Approved: March 30, 2011

Sample Name: L1103089301 Acquired: 3/29/2011 12:21:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02809**	**280.40**	**.33042**	**.58141**	**.59795**	**.00893**	**38.120**
Stddev	.00061	.48	.00237	.00832	.00345	.00005	.194
%RSD	2.1809	.16961	.71609	1.4315	.57765	.58111	.50764
#1	.02738	280.90	.32888	.57302	.59931	.00891	38.183
#2	.02848	279.95	.32923	.58155	.60051	.00899	38.275
#3	.02840	280.35	.33314	.58966	.59402	.00890	37.903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01127**	**.12712**	**2.6436**	**.22196**	F **1156.0**	**3.8265**	**.12474**
Stddev	.00005	.00049	.0120	.00028	14.1	.0292	.00138
%RSD	.47973	.38296	.45346	.12608	1.2212	.76322	1.1057
#1	.01122	.12704	2.6361	.22163	1141.2	3.8582	.12477
#2	.01133	.12668	2.6373	.22212	1157.6	3.8206	.12611
#3	.01125	.12765	2.6574	.22212	1169.3	3.8007	.12335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					900.00		
Low Limit					-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.3144**	**11.612**	**.02848**	**.16807**	**.11785**	**6.4795**	**.40214**
Stddev	.0111	.033	.00018	.00370	.00114	.0157	.00145
%RSD	.20945	.28601	.61595	2.2006	.96595	.24261	.35972
#1	5.3264	11.624	.02829	.16552	.11830	6.4794	.40071
#2	5.3044	11.637	.02850	.16638	.11656	6.4638	.40209
#3	5.3125	11.574	.02864	.17231	.11870	6.4953	.40361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089301 Acquired: 3/29/2011 12:21:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-59.311**	F **77.583**	F **-12419.**	**.02000**	**.00816**	**3.4478**	**.03968**
Stddev	16.439	.292	13.	.00077	.00312	.0121	.00016
%RSD	27.716	.37698	.10534	3.8512	38.269	.35208	.39696
#1	-65.311	77.325	-12419.	.02043	.01008	3.4556	.03951
#2	-40.715	77.523	-12433.	.01911	.00456	3.4539	.03982
#3	-71.908	77.900	-12406.	.02045	.00984	3.4338	.03971
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12754**	**.79572**	**.07761**	**2.6928**	**1.0152**	**.51088**
Stddev	.00072	.00281	.00284	.0053	.0028	.00117
%RSD	.56785	.35289	3.6643	.19850	.27467	.22956
#1	.12784	.79681	.07445	2.6871	1.0144	.50988
#2	.12806	.79783	.07995	2.6936	1.0129	.51059
#3	.12671	.79254	.07844	2.6977	1.0183	.51217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46830.**	**43995.**
Stddev	32.	317.
%RSD	.06839	.72056
#1	46814.	43858.
#2	46867.	44358.
#3	46809.	43770.

Approved: March 30, 2011

Sample Name: L1103089301PS Acquired: 3/29/2011 12:25:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360207-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21594**	**260.76**	**.48167**	**1.4363**	**1.0189**	**.03236**	**39.323**
Stddev	.00105	1.70	.00431	.0137	.0019	.00014	.224
%RSD	.48698	.65013	.89385	.95380	.18821	.42283	.56876
#1	.21481	258.85	.47863	1.4209	1.0177	.03220	39.071
#2	.21689	261.37	.47978	1.4405	1.0211	.03240	39.497
#3	.21611	262.07	.48659	1.4473	1.0179	.03247	39.402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03404**	**.20856**	**2.6420**	**.42182**	F **1040.4**	**27.045**	**.58972**
Stddev	.00036	.00105	.0134	.00528	17.8	.114	.00147
%RSD	1.0511	.50178	.50696	1.2522	1.7111	.42187	.24976
#1	.03369	.20738	2.6329	.41727	1019.9	26.913	.59092
#2	.03401	.20896	2.6358	.42057	1051.1	27.115	.59017
#3	.03441	.20935	2.6574	.42761	1050.3	27.106	.58808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					900.00		
Low Limit					-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2967**	**10.741**	**.51295**	**23.945**	**.34003**	**5.9279**	**.58888**
Stddev	.0757	.076	.00138	.154	.00155	.0102	.00290
%RSD	.81473	.70870	.26827	.64237	.45536	.17247	.49307
#1	9.2111	10.654	.51173	23.771	.34040	5.9232	.58719
#2	9.3551	10.792	.51267	24.061	.33833	5.9208	.58721
#3	9.3237	10.778	.51444	24.003	.34136	5.9396	.59223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089301PS Acquired: 3/29/2011 12:25:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360207-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **26.564**	F **75.073**	F **-11344.**	**.58829**	**.19302**	**5.5720**	**.51806**
Stddev	29.775	.555	56.	.00109	.00094	.0175	.00250
%RSD	112.09	.73957	.49432	.18548	.48503	.31447	.48226
#1	-3.1919	74.504	-11289.	.58929	.19198	5.5518	.51539
#2	56.359	75.100	-11342.	.58846	.19378	5.5834	.51845
#3	26.524	75.614	-11401.	.58713	.19331	5.5807	.52034
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.59000**	**1.1894**	**.29267**	**2.9229**	**1.3876**	**.46340**
Stddev	.00322	.0028	.00275	.0132	.0096	.00285
%RSD	.54610	.23574	.93871	.45156	.69297	.61550
#1	.58666	1.1865	.28957	2.9134	1.3796	.46069
#2	.59308	1.1921	.29367	2.9173	1.3848	.46312
#3	.59028	1.1896	.29479	2.9380	1.3982	.46638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46491.**	**43486.**
Stddev	175.	267.
%RSD	.37646	.61349
#1	46623.	43771.
#2	46558.	43443.
#3	46293.	43242.

Approved: March 30, 2011

Sample Name: L1103089301SDL Acquired: 3/29/2011 12:29:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360207-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00588**	**57.675**	**.07037**	**.13278**	**.12211**	**.00162**	**7.8122**
Stddev	.00034	.303	.00016	.00082	.00010	.00002	.0261
%RSD	5.8352	.52605	.22091	.61866	.08523	.96101	.33436
#1	.00621	57.356	.07036	.13362	.12219	.00161	7.8207
#2	.00591	57.708	.07053	.13272	.12214	.00164	7.8330
#3	.00553	57.960	.07021	.13199	.12199	.00162	7.7829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00231**	**.02727**	**.53619**	**.04568**	**255.90**	**.87384**	**.02172**
Stddev	.00005	.00028	.00110	.00212	.35	.02164	.00044
%RSD	2.3395	1.0103	.20607	4.6479	.13581	2.4767	2.0467
#1	.00227	.02701	.53532	.04391	256.01	.89107	.02161
#2	.00230	.02724	.53580	.04508	256.19	.88091	.02221
#3	.00237	.02755	.53743	.04803	255.51	.84955	.02134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1682**	**2.4648**	**.00546**	**.02582**	**.02577**	**1.4159**	**.09028**
Stddev	.0177	.0056	.00017	.00405	.00034	.0098	.00166
%RSD	1.5161	.22630	3.0498	15.664	1.3189	.69354	1.8440
#1	1.1499	2.4667	.00565	.03010	.02601	1.4055	.08991
#2	1.1852	2.4692	.00540	.02531	.02593	1.4172	.08883
#3	1.1695	2.4585	.00534	.02206	.02538	1.4250	.09209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089301SDL Acquired: 3/29/2011 12:29:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360207-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **97.398**	F **17.133**	F **-2687.3**	**.00184**	**.00083**	**.72927**	**.00821**
Stddev	33.496	.205	26.7	.00228	.00147	.00330	.00013
%RSD	34.390	1.1972	.99203	123.90	176.43	.45218	1.6095
#1	106.38	17.059	-2668.2	.00099	-.00083	.72571	.00831
#2	125.49	16.974	-2676.1	.00011	.00197	.72989	.00826
#3	60.328	17.364	-2717.8	.00442	.00136	.73221	.00806
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02606**	**.16585**	**.01743**	**.53533**	**.22588**	**.10024**
Stddev	.00010	.00067	.00097	.00184	.00153	.00044
%RSD	.39429	.40553	5.5478	.34399	.67673	.44215
#1	.02611	.16510	.01680	.53436	.22457	.09977
#2	.02613	.16604	.01854	.53417	.22551	.10065
#3	.02594	.16641	.01694	.53745	.22756	.10030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49858.**	**43254.**
Stddev	270.	484.
%RSD	.54149	1.1191
#1	50096.	43774.
#2	49913.	42816.
#3	49565.	43173.

Approved: March 30, 2011

Sample Name: L1103089301SDL Acquired: 3/29/2011 12:32:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360207-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**11.509**	**.01658**	**.02708**	**.02463**	**.00033**	**1.5659**
Stddev	.00023	.057	.00056	.00057	.00015	.00002	.0124
%RSD	25.984	.49860	3.3485	2.1123	.59564	5.7314	.79297
#1	.00065	11.563	.01681	.02644	.02450	.00033	1.5552
#2	.00091	11.449	.01699	.02729	.02459	.00031	1.5630
#3	.00111	11.516	.01595	.02752	.02479	.00034	1.5795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00589**	**.10939**	**.00984**	**52.020**	**.25097**	**-.00078**
Stddev	.00005	.00013	.00061	.00005	.211	.01962	.00167
%RSD	21.481	2.2022	.55941	.53152	.40544	7.8189	212.66
#1	.00027	.00595	.10989	.00990	51.805	.23014	-.00268
#2	.00019	.00598	.10871	.00983	52.028	.26911	.00045
#3	.00018	.00574	.10956	.00980	52.227	.25366	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22134**	**.50311**	**.00098**	**-.01599**	**.00550**	**.31014**	**.01898**
Stddev	.00775	.00455	.00009	.00737	.00039	.00216	.00086
%RSD	3.4992	.90510	8.9640	46.102	7.1137	.69488	4.5534
#1	.22458	.49826	.00105	-.00830	.00524	.31028	.01908
#2	.22694	.50380	.00088	-.02300	.00595	.30791	.01807
#3	.21250	.50729	.00101	-.01666	.00530	.31222	.01979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089301SDL Acquired: 3/29/2011 12:32:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360207-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **88.048**	**3.6251**	F **-579.67**	**-.00082**	**-.00249**	**.14967**	**.00128**
Stddev	30.871	.0333	14.22	.00063	.00105	.00233	.00019
%RSD	35.061	.91914	2.4533	77.028	42.235	1.5590	15.151
#1	67.512	3.6130	-593.42	-.00155	-.00186	.15118	.00128
#2	73.084	3.5995	-565.02	-.00049	-.00370	.15085	.00147
#3	123.55	3.6628	-580.58	-.00042	-.00190	.14698	.00109
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**.03227**	**.00373**	**.11018**	**.05060**	**.01813**
Stddev	.00003	.00023	.00095	.00035	.00037	.00026
%RSD	.64842	.71663	25.438	.31859	.74102	1.4256
#1	.00524	.03207	.00384	.11008	.05070	.01830
#2	.00517	.03222	.00462	.11057	.05018	.01826
#3	.00520	.03252	.00273	.10989	.05090	.01783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49862.**	**42168.**
Stddev	191.	279.
%RSD	.38308	.66134
#1	49660.	42248.
#2	50040.	41858.
#3	49887.	42398.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 12:36:18 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40000**	**9.8087**	**.39639**	**.50032**	**.98368**	**.04998**	**9.6932**
Stddev	.00259	.0250	.00143	.00158	.00116	.00026	.0272
%RSD	.64737	.25447	.36140	.31523	.11842	.51530	.28050
#1	.39712	9.7801	.39477	.49855	.98421	.04969	9.6624
#2	.40213	9.8265	.39688	.50080	.98448	.05006	9.7034
#3	.40075	9.8194	.39751	.50160	.98234	.05018	9.7139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05043**	**.20219**	**.50539**	**.50629**	**3.9229**	**48.944**	**.98779**
Stddev	.00029	.00078	.00181	.00207	.0056	.115	.00092
%RSD	.56757	.38736	.35840	.40817	.14391	.23445	.09356
#1	.05040	.20170	.50416	.50545	3.9220	48.822	.98682
#2	.05016	.20177	.50455	.50477	3.9290	49.050	.98788
#3	.05073	.20309	.50747	.50864	3.9178	48.959	.98866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7016**	**.48162**	**1.0026**	**48.984**	**.50524**	**9.9069**	**.50453**
Stddev	.0303	.00205	.0021	.190	.00164	.0370	.00307
%RSD	.31275	.42628	.21000	.38827	.32513	.37367	.60925
#1	9.6670	.47925	1.0019	48.771	.50505	9.9004	.50163
#2	9.7140	.48285	1.0010	49.044	.50370	9.8735	.50422
#3	9.7238	.48277	1.0050	49.136	.50697	9.9467	.50775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 12:36:18 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **78.749**	**10.045**	F **24.332**	**1.1918**	**.39652**	**4.9938**	**.99895**
Stddev	40.864	.019	4.151	.0050	.00129	.0200	.00269
%RSD	51.892	.18914	17.060	.41740	.32632	.39983	.26974
#1	82.440	10.046	20.339	1.1920	.39765	4.9791	.99766
#2	36.165	10.025	24.032	1.1868	.39511	4.9857	.99714
#3	117.64	10.063	28.625	1.1967	.39680	5.0165	1.0020
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96887**	**.97690**	**.50497**	**.99681**	**1.0051**	**.98954**
Stddev	.00237	.00292	.00286	.00504	.0024	.00271
%RSD	.24482	.29866	.56725	.50574	.24065	.27357
#1	.96623	.97423	.50427	.99106	1.0043	.98642
#2	.96956	.98001	.50252	.99888	1.0032	.99093
#3	.97082	.97646	.50812	1.0005	1.0079	.99126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47877.**	**42007.**
Stddev	55.	204.
%RSD	.11476	.48681
#1	47832.	42184.
#2	47939.	41783.
#3	47862.	42053.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 12:39:40 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00496**	**.00015**	**.00137**	**.00022**	**.00001**	**.00023**
Stddev	.00066	.00062	.00112	.00036	.00009	.00003	.01007
%RSD	392.59	12.474	774.43	26.182	40.033	311.45	4303.6
#1	-.00018	.00564	-.00115	.00134	.00014	.00004	-.00895
#2	-.00082	.00484	.00078	.00175	.00021	-.00001	-.00134
#3	.00050	.00442	.00081	.00103	.00031	.00000	.01100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00012**	**-.00019**	**-.00005**	**.00337**	**.09760**	**-.00449**
Stddev	.00009	.00011	.00054	.00018	.00325	.01060	.00107
%RSD	58.819	89.563	280.66	352.44	96.370	10.860	23.834
#1	-.00006	-.00012	-.00077	-.00018	.00683	.10956	-.00330
#2	-.00024	-.00001	.00031	.00016	.00290	.08936	-.00481
#3	-.00014	-.00023	-.00013	-.00014	.00038	.09389	-.00536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01328**	**-.00001**	**-.00017**	**-.01532**	**-.00014**	**.00161**	**.00011**
Stddev	.01127	.00037	.00010	.00166	.00013	.00350	.00037
%RSD	84.865	7406.2	57.145	10.870	91.900	217.92	336.22
#1	-.02556	.00041	-.00022	-.01713	-.00005	.00184	.00048
#2	-.01083	-.00014	-.00006	-.01385	-.00029	-.00200	.00012
#3	-.00343	-.00029	-.00023	-.01497	-.00009	.00498	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 12:39:40 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **168.71**	**-.01150**	F **10.247**	**-.00015**	**-.00235**	**.00025**	**-.00050**
Stddev	62.71	.03798	7.420	.00068	.00151	.00034	.00037
%RSD	37.171	330.44	72.416	461.64	64.364	137.46	75.319
#1	142.20	.02856	6.4538	.00048	-.00069	.00027	-.00076
#2	123.61	-.04699	18.797	-.00087	-.00365	-.00010	-.00067
#3	240.33	-.01605	5.4896	-.00005	-.00269	.00058	-.00007
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00035**	**.00000**	**.00004**	**.00030**	**.00002**
Stddev	.00000	.00066	.0010	.00011	.00028	.00008
%RSD	17.782	187.45	30160.	268.56	94.135	327.28
#1	.00002	-.00007	-.00086	.00014	.00034	.00000
#2	.00002	.00111	-.00023	-.00007	.00000	-.00004
#3	.00002	.00001	.00108	.00005	.00055	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48196.**	**41418.**
Stddev	79.	670.
%RSD	.16302	1.6175
#1	48113.	41891.
#2	48270.	41712.
#3	48206.	40651.

Approved: March 30, 2011

Sample Name: L1103089302 Acquired: 3/29/2011 12:43:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01698**	**321.97**	**1.0151**	**.41589**	**1.0228**	**.01252**	**25.421**
Stddev	.00038	6.35	.0362	.00386	.0070	.00025	.183
%RSD	2.2649	1.9722	3.5633	.92847	.68710	2.0255	.72095
#1	.01741	329.19	1.0553	.41144	1.0200	.01280	25.295
#2	.01688	319.42	1.0049	.41837	1.0308	.01243	25.631
#3	.01666	317.29	.98516	.41786	1.0176	.01232	25.336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02375**	**.14312**	**1.9817**	**.20067**	**825.15**	**8.9713**	**.21599**
Stddev	.00037	.00485	.0302	.01020	2.99	.0738	.00156
%RSD	1.5450	3.3918	1.5258	5.0817	.36275	.82223	.72357
#1	.02415	.14852	2.0166	.21195	822.84	8.8909	.21592
#2	.02369	.14174	1.9633	.19796	828.53	9.0358	.21759
#3	.02342	.13910	1.9653	.19210	824.08	8.9872	.21447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.6378**	**12.125**	**.02794**	**.78328**	**.17287**	**6.4618**	**.38151**
Stddev	.1133	.093	.00091	.00485	.00591	.2454	.01425
%RSD	1.3111	.76547	3.2520	.61884	3.4186	3.7975	3.7345
#1	8.5110	12.060	.02874	.78037	.17952	6.7358	.39692
#2	8.6734	12.231	.02813	.78887	.17085	6.3871	.37882
#3	8.7290	12.084	.02695	.78059	.16824	6.2624	.36881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089302 Acquired: 3/29/2011 12:43:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **96.380**	F **98.712**	F **-22353.**	**.02459**	**.01041**	**3.1681**	**.02724**
Stddev	19.395	3.855	714.	.00506	.00401	.1049	.00119
%RSD	20.124	3.9050	3.1925	20.580	38.547	3.3097	4.3606
#1	81.653	103.10	-23157.	.03037	.00582	3.2818	.02826
#2	118.36	97.155	-22110.	.02100	.01213	3.1473	.02753
#3	89.131	95.879	-21793.	.02239	.01328	3.0752	.02594
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14429**	**.43530**	**.05593**	**2.0177**	**1.1969**	**.35816**
Stddev	.00099	.00410	.00107	.0388	.0359	.00444
%RSD	.68945	.94224	1.9151	1.9220	2.9972	1.2385
#1	.14378	.43145	.05671	2.0618	1.2362	.36328
#2	.14544	.43962	.05471	2.0021	1.1885	.35533
#3	.14366	.43484	.05638	1.9891	1.1660	.35589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46610.**	**43667.**
Stddev	1095.	164.
%RSD	2.3502	.37644
#1	45416.	43856.
#2	46845.	43578.
#3	47568.	43565.

Approved: March 30, 2011

Sample Name: L1103089303 Acquired: 3/29/2011 12:47:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02159**	**349.52**	**.81873**	**.54886**	**.79163**	**.01328**	**22.575**
Stddev	.00058	1.95	.00582	.00791	.00139	.00004	.112
%RSD	2.6685	.55904	.71050	1.4407	.17549	.32744	.49511
#1	.02162	350.37	.81740	.55664	.79009	.01327	22.481
#2	.02100	347.28	.81369	.54083	.79280	.01332	22.545
#3	.02215	350.90	.82509	.54911	.79198	.01324	22.698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02072**	**.10712**	**2.6777**	**.22906**	F **1076.8**	**7.8988**	**.22491**
Stddev	.00024	.00025	.0104	.00215	11.1	.0259	.00034
%RSD	1.1544	.23367	.39001	.93899	1.0296	.32830	.15126
#1	.02098	.10684	2.6724	.22659	1085.8	7.8849	.22470
#2	.02067	.10719	2.6897	.23052	1064.4	7.8827	.22474
#3	.02051	.10732	2.6709	.23006	1080.1	7.9287	.22531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					900.00		
Low Limit					-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.1017**	**7.0014**	**.03168**	**.47291**	**.15755**	**6.3626**	**.37691**
Stddev	.0628	.0400	.00026	.00304	.00044	.0132	.00287
%RSD	.77486	.57098	.81468	.64236	.27784	.20670	.76100
#1	8.0979	6.9751	.03155	.47405	.15742	6.3478	.37373
#2	8.0409	6.9816	.03197	.46947	.15804	6.3669	.37931
#3	8.1663	7.0474	.03151	.47522	.15719	6.3731	.37767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089303 Acquired: 3/29/2011 12:47:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **42.260**	F **96.405**	F **-22822.**	**.02556**	**.00596**	**3.3214**	**.03632**
Stddev	89.281	.482	100.	.00298	.00232	.0061	.00024
%RSD	211.27	.49950	.43835	11.654	38.942	.18450	.65550
#1	45.252	96.079	-22812.	.02515	.00329	3.3157	.03605
#2	-48.480	96.178	-22726.	.02872	.00745	3.3206	.03648
#3	130.01	96.958	-22926.	.02280	.00714	3.3279	.03644
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15488**	**.49819**	**.07436**	**2.5507**	**1.2375**	**.46267**
Stddev	.00080	.00100	.00127	.0078	.0060	.00196
%RSD	.51799	.20167	1.7144	.30775	.48303	.42373
#1	.15415	.49703	.07575	2.5465	1.2386	.46380
#2	.15474	.49879	.07324	2.5597	1.2429	.46380
#3	.15574	.49874	.07409	2.5458	1.2311	.46040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47163.**	**42777.**
Stddev	164.	282.
%RSD	.34762	.65822
#1	47093.	42648.
#2	47045.	43100.
#3	47350.	42583.

Approved: March 30, 2011

Sample Name: L1103089304 Acquired: 3/29/2011 12:50:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00906**	**335.83**	**.56668**	**.21475**	**1.8389**	**.01457**	**19.898**
Stddev	.00024	2.44	.00440	.00367	.0118	.00006	.058
%RSD	2.6727	.72650	.77583	1.7081	.64076	.39260	.29245
#1	.00898	338.21	.57097	.21166	1.8356	.01462	19.845
#2	.00934	335.94	.56690	.21378	1.8519	.01457	19.960
#3	.00887	333.33	.56218	.21880	1.8290	.01451	19.888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01373**	**.18206**	**1.1216**	**.16381**	**402.04**	**11.138**	**.24139**
Stddev	.00017	.00131	.0038	.00254	5.69	.047	.00086
%RSD	1.2029	.72230	.33699	1.5527	1.4163	.42545	.35605
#1	.01354	.18318	1.1252	.16575	397.85	11.084	.24149
#2	.01385	.18237	1.1219	.16474	399.76	11.170	.24219
#3	.01380	.18061	1.1177	.16093	408.52	11.161	.24048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.999**	**20.344**	**.01373**	**.63811**	**.20363**	**5.1919**	**.48521**
Stddev	.068	.069	.00035	.00293	.00071	.0458	.00272
%RSD	.56416	.33911	2.5180	.45849	.34854	.88197	.56066
#1	11.923	20.279	.01409	.64057	.20420	5.2205	.48833
#2	12.020	20.416	.01369	.63887	.20387	5.2161	.48390
#3	12.054	20.337	.01341	.63487	.20284	5.1391	.48339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089304 Acquired: 3/29/2011 12:50:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-66.219**	F **89.356**	F **-20521.**	**.01346**	**.01706**	**2.0782**	**.01862**
Stddev	34.449	.817	117.	.00256	.00238	.0274	.00029
%RSD	52.022	.91463	.57065	19.058	13.947	1.3203	1.5394
#1	-73.174	89.942	-20623.	.01563	.01646	2.0959	.01890
#2	-96.660	89.702	-20547.	.01411	.01968	2.0921	.01832
#3	-28.824	88.422	-20393.	.01063	.01504	2.0466	.01863
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15171**	**.70633**	**.01900**	**.97918**	**1.1570**	**.22977**
Stddev	.00082	.00254	.00125	.00266	.0047	.00077
%RSD	.53747	.35980	6.5581	.27176	.40940	.33563
#1	.15078	.70353	.02016	.98183	1.1621	.22959
#2	.15232	.70850	.01914	.97922	1.1528	.23061
#3	.15202	.70695	.01768	.97651	1.1560	.22910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50322.**	**47448.**
Stddev	147.	110.
%RSD	.29139	.23172
#1	50158.	47407.
#2	50370.	47573.
#3	50439.	47365.

Approved: March 30, 2011

Sample Name: LRC Acquired: 3/29/2011 12:54:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01529**	**.01682**	F **99.721**	**.00053**	**.00025**	**.00044**	**-.00052**
Stddev	.00080	.00343	.994	.00057	.00005	.00002	.00349
%RSD	5.2025	20.412	.99684	109.16	21.487	5.5033	666.77
#1	.01455	.02007	100.83	.00044	.00027	.00046	.00332
#2	.01613	.01715	98.923	.00114	.00030	.00043	-.00138
#3	.01518	.01323	99.405	.00000	.00019	.00042	-.00351
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000				
Low Limit			-.01000				

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9417**	**-.00028**	**-.00031**	**.00120**	**.03980**	**.11688**	**-.00835**
Stddev	.0186	.00017	.00042	.00036	.00949	.03928	.00197
%RSD	.95787	60.061	137.90	30.096	23.830	33.603	23.646
#1	1.9626	-.00023	.00004	.00161	.05017	.07174	-.00937
#2	1.9269	-.00014	-.00019	.00108	.03767	.14326	-.00607
#3	1.9357	-.00046	-.00078	.00091	.03157	.13563	-.00960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01692**	**.00207**	**-.00018**	**-.02771**	**.00049**	**.02711**	**.00085**
Stddev	.01785	.00044	.00013	.00352	.00028	.00183	.00096
%RSD	105.52	20.995	73.433	12.687	56.603	6.7448	112.63
#1	-.03567	.00256	-.00003	-.03131	.00078	.02901	.00152
#2	-.00013	.00192	-.00023	-.02754	.00023	.02697	.00129
#3	-.01494	.00174	-.00029	-.02428	.00046	.02536	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: LRC Acquired: 3/29/2011 12:54:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **183.44**	**.24004**	F **-52.546**	**-.00260**	**-.00056**	**.00003**	**-.00003**
Stddev	72.89	.03874	5.196	.00033	.00240	.00232	.00014
%RSD	39.738	16.137	9.8877	12.831	427.20	8958.3	421.26
#1	128.69	.26719	-57.683	-.00293	-.00089	.00271	-.00015
#2	155.44	.25726	-47.294	-.00262	-.00278	-.00126	-.00008
#3	266.18	.19569	-52.660	-.00226	.00198	-.00137	.00013
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**-.00119**	**.00143**	**.00023**	**.00912**	**.00010**
Stddev	.00006	.00102	.00173	.00025	.00208	.00014
%RSD	20.197	85.577	120.80	107.25	22.789	138.50
#1	.00023	-.00006	-.00049	.00008	.01151	-.00002
#2	.00034	-.00148	.00286	.00052	.00770	.00025
#3	.00031	-.00204	.00192	.00010	.00816	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49748.**	**41998.**
Stddev	382.	137.
%RSD	.76877	.32715
#1	49328.	42152.
#2	50076.	41889.
#3	49841.	41952.

Approved: March 30, 2011

Sample Name: L1103069332 Acquired: 3/29/2011 12:58:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00542**	**298.13**	**.11452**	**.21251**	**2.5878**	**.01623**	**31.054**
Stddev	.00082	.74	.00082	.00159	.0133	.00008	.154
%RSD	15.146	.24824	.71364	.74713	.51249	.49643	.49599
#1	.00454	297.88	.11472	.21090	2.5785	.01627	30.877
#2	.00616	297.55	.11363	.21407	2.6030	.01614	31.131
#3	.00556	298.97	.11522	.21256	2.5819	.01629	31.155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00624**	**.33615**	**.36970**	**.17284**	**351.95**	**22.967**	**.19935**
Stddev	.00007	.00112	.00121	.00162	1.82	.140	.00171
%RSD	1.1266	.33222	.32621	.93869	.51632	.61143	.85857
#1	.00622	.33727	.36933	.17336	350.14	22.805	.19741
#2	.00632	.33616	.36872	.17414	353.77	23.050	.20065
#3	.00618	.33503	.37104	.17102	351.94	23.047	.20000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**35.355**	**15.776**	**.00821**	**13.723**	**.23339**	**2.4314**	**.49814**
Stddev	.282	.077	.00016	.095	.00060	.0124	.00205
%RSD	.79667	.48679	1.9636	.69495	.25651	.51027	.41180
#1	35.030	15.690	.00803	13.613	.23361	2.4450	.50006
#2	35.499	15.836	.00828	13.776	.23385	2.4286	.49598
#3	35.535	15.804	.00833	13.781	.23272	2.4207	.49838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069332 Acquired: 3/29/2011 12:58:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.598**	F **113.14**	F **-24507.**	**.00112**	**.01128**	**2.4894**	**.01497**
Stddev	48.628	.62	54.	.00130	.00198	.0080	.00062
%RSD	419.27	.54743	.22123	115.68	17.527	.32156	4.1342
#1	67.727	113.65	-24549.	.00262	.00904	2.4978	.01521
#2	-15.088	113.33	-24446.	.00053	.01277	2.4885	.01544
#3	-17.844	112.45	-24525.	.00023	.01203	2.4818	.01427
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.32483**	**.70226**	**.00851**	**.59956**	**.67581**	**.17827**
Stddev	.00171	.00330	.00016	.00271	.00149	.00061
%RSD	.52522	.46983	1.9373	.45238	.22026	.33974
#1	.32288	.69851	.00867	.60066	.67695	.17758
#2	.32559	.70472	.00853	.59647	.67413	.17855
#3	.32603	.70356	.00834	.60154	.67637	.17868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47374.**	**42863.**
Stddev	157.	74.
%RSD	.33231	.17300
#1	47197.	42777.
#2	47423.	42908.
#3	47501.	42902.

Approved: March 30, 2011

Sample Name: L1103069333 Acquired: 3/29/2011 13:01:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00552**	**234.45**	**.13972**	**.24828**	**2.0797**	**.01533**	**60.139**
Stddev	.00068	1.03	.00314	.00153	.0168	.00003	.564
%RSD	12.358	.43789	2.2444	.61752	.80759	.20831	.93728
#1	.00629	233.58	.13610	.24664	2.0623	.01536	59.564
#2	.00525	234.20	.14149	.24850	2.0810	.01532	60.162
#3	.00501	235.58	.14157	.24968	2.0958	.01530	60.690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01044**	**.20820**	**.38384**	**.17440**	**398.20**	**21.989**	**.16560**
Stddev	.00010	.00100	.00075	.00069	2.38	.144	.00179
%RSD	1.0036	.48075	.19484	.39328	.59757	.65271	1.0825
#1	.01056	.20792	.38470	.17376	395.87	21.832	.16415
#2	.01038	.20736	.38343	.17432	398.09	22.020	.16505
#3	.01038	.20931	.38339	.17512	400.63	22.114	.16760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.557**	**11.610**	**.01252**	**1.3030**	**.20789**	**6.1157**	**.69242**
Stddev	.141	.118	.00025	.0113	.00058	.0238	.00233
%RSD	.46046	1.0194	1.9956	.86799	.27990	.38957	.33655
#1	30.463	11.484	.01280	1.2918	.20813	6.1079	.69471
#2	30.490	11.626	.01232	1.3028	.20722	6.0967	.69005
#3	30.719	11.719	.01244	1.3144	.20831	6.1424	.69249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069333 Acquired: 3/29/2011 13:01:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **63.696**	F **185.21**	F **-39550.**	**.00102**	**.01367**	**2.8008**	**.01527**
Stddev	26.235	1.16	23.	.00146	.00139	.0037	.00008
%RSD	41.188	.62430	.05734	142.62	10.152	.13100	.53809
#1	86.622	184.30	-39554.	-.00059	.01526	2.7983	.01525
#2	69.380	184.81	-39525.	.00140	.01303	2.7990	.01536
#3	35.084	186.51	-39570.	.00225	.01271	2.8050	.01520
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43817**	**.43359**	**.01052**	**.61172**	**1.2187**	**.13607**
Stddev	.00384	.00202	.00215	.00267	.0048	.00044
%RSD	.87548	.46573	20.394	.43574	.39239	.32263
#1	.43396	.43215	.00916	.61479	1.2234	.13582
#2	.43912	.43273	.01300	.60994	1.2139	.13582
#3	.44145	.43590	.00941	.61044	1.2188	.13658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47006.**	**43162.**
Stddev	108.	234.
%RSD	.22912	.54150
#1	46896.	42924.
#2	47111.	43391.
#3	47010.	43171.

Approved: March 30, 2011

Sample Name: L1103069337 Acquired: 3/29/2011 13:05:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00589**	**222.67**	**.13087**	**.25920**	**2.3429**	**.01087**	**139.77**
Stddev	.00050	2.21	.00190	.00094	.0072	.00005	.10
%RSD	8.4770	.99109	1.4521	.36415	.30751	.48682	.06914
#1	.00645	220.31	.13288	.25896	2.3513	.01093	139.88
#2	.00548	223.04	.13064	.26024	2.3390	.01083	139.71
#3	.00574	224.68	.12910	.25840	2.3386	.01085	139.72
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01768**	**.11705**	**.41993**	**.33312**	**369.95**	**26.372**	**.18246**
Stddev	.00006	.00043	.00207	.00146	.58	.020	.00030
%RSD	.32886	.36446	.49350	.43915	.15689	.07681	.16595
#1	.01768	.11666	.42210	.33144	370.58	26.395	.18251
#2	.01775	.11751	.41971	.33413	369.45	26.366	.18213
#3	.01763	.11700	.41798	.33379	369.81	26.356	.18272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.866**	**9.6958**	**.01342**	**1.6806**	**.24562**	**7.7255**	**1.3873**
Stddev	.102	.0066	.00027	.0060	.00054	.0104	.0032
%RSD	.34128	.06847	2.0428	.35743	.22123	.13454	.22964
#1	29.934	9.7029	.01373	1.6783	.24587	7.7203	1.3883
#2	29.749	9.6898	.01320	1.6761	.24600	7.7375	1.3898
#3	29.915	9.6947	.01333	1.6874	.24500	7.7188	1.3837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069337 Acquired: 3/29/2011 13:05:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.056**	F **278.46**	F **-43707.**	**.00754**	**.01182**	**1.8847**	**.05547**
Stddev	3.112	.20	52.	.00085	.00256	.0077	.00060
%RSD	30.945	.07222	.11985	11.269	21.691	.41013	1.0748
#1	13.620	278.24	-43651.	.00843	.01167	1.8886	.05512
#2	7.8816	278.64	-43755.	.00674	.00933	1.8897	.05514
#3	8.6652	278.50	-43714.	.00745	.01445	1.8758	.05616
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.64978**	**.50948**	**.00834**	**.44704**	**3.6352**	**.09501**
Stddev	.00090	.00136	.00100	.00159	.0067	.00011
%RSD	.13838	.26723	11.943	.35541	.18366	.11135
#1	.65079	.51103	.00934	.44823	3.6426	.09513
#2	.64949	.50896	.00834	.44523	3.6296	.09493
#3	.64906	.50845	.00735	.44765	3.6334	.09497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46830.**	**44137.**
Stddev	150.	102.
%RSD	.32125	.23171
#1	46727.	44024.
#2	46761.	44164.
#3	47003.	44223.

Approved: March 30, 2011

Sample Name: L1103069338 Acquired: 3/29/2011 13:08:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00459**	**226.76**	**.12792**	**.21547**	**2.4359**	**.01119**	**138.17**
Stddev	.00039	2.23	.00063	.00066	.0080	.00000	.32
%RSD	8.5677	.98471	.49369	.30808	.32911	.02253	.22873
#1	.00488	224.37	.12848	.21610	2.4278	.01119	137.81
#2	.00415	228.80	.12723	.21478	2.4361	.01119	138.36
#3	.00475	227.09	.12805	.21552	2.4438	.01119	138.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01554**	**.13489**	**.32067**	**.31956**	**341.73**	**22.861**	**.17281**
Stddev	.00003	.00056	.00045	.00003	.96	.034	.00036
%RSD	.19057	.41588	.14113	.01094	.28231	.14943	.21049
#1	.01551	.13438	.32094	.31955	340.67	22.827	.17274
#2	.01555	.13549	.32091	.31959	341.98	22.860	.17248
#3	.01556	.13481	.32014	.31952	342.56	22.895	.17320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.698**	**10.446**	**.01346**	**1.3020**	**.23953**	**6.2833**	**1.3285**
Stddev	.061	.035	.00017	.0055	.00062	.0139	.0021
%RSD	.22197	.33801	1.2856	.41953	.26081	.22186	.15972
#1	27.640	10.407	.01356	1.2968	.24016	6.2697	1.3306
#2	27.692	10.456	.01356	1.3077	.23952	6.2826	1.3264
#3	27.762	10.475	.01326	1.3015	.23891	6.2976	1.3285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069338 Acquired: 3/29/2011 13:08:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-19.776**	F **238.14**	F **-31833.**	**.00938**	**.01048**	**2.5947**	**.06214**
Stddev	54.174	.78	49.	.00070	.00145	.0082	.00013
%RSD	273.94	.32630	.15471	7.4419	13.860	.31704	.20421
#1	-46.724	237.25	-31867.	.00858	.01041	2.5858	.06202
#2	-55.191	238.69	-31856.	.00964	.00906	2.6021	.06214
#3	42.588	238.48	-31777.	.00990	.01197	2.5962	.06227
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.81804**	**.40017**	**.00660**	**.44029**	**3.1023**	**.10142**
Stddev	.00130	.00177	.00043	.00103	.0024	.00023
%RSD	.15833	.44238	6.4609	.23421	.07574	.22935
#1	.81721	.39869	.00613	.43913	3.0997	.10165
#2	.81953	.40213	.00669	.44063	3.1030	.10119
#3	.81737	.39969	.00697	.44110	3.1042	.10142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46930.**	**44986.**
Stddev	10.	183.
%RSD	.02194	.40693
#1	46932.	44874.
#2	46919.	44888.
#3	46939.	45198.

Approved: March 30, 2011

Sample Name: L1103069339 Acquired: 3/29/2011 13:12:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00400**	**235.48**	**.12897**	**.21522**	**2.1497**	**.01586**	**40.648**
Stddev	.00016	1.64	.00126	.00143	.0044	.00007	.229
%RSD	4.0048	.69587	.97461	.66429	.20474	.43353	.56283
#1	.00414	233.62	.12830	.21685	2.1548	.01580	40.815
#2	.00403	236.68	.13042	.21459	2.1474	.01584	40.742
#3	.00382	236.16	.12818	.21421	2.1470	.01594	40.387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00790**	**.16376**	**.38244**	**.16298**	**371.69**	**21.601**	**.16348**
Stddev	.00010	.00051	.00344	.00161	1.72	.089	.00123
%RSD	1.2099	.31049	.89963	.98979	.46316	.41231	.75361
#1	.00779	.16349	.38131	.16224	373.15	21.676	.16374
#2	.00795	.16343	.37970	.16186	372.12	21.624	.16214
#3	.00795	.16434	.38630	.16483	369.79	21.502	.16456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.141**	**9.2631**	**.01057**	**1.7203**	**.21099**	**5.0525**	**.45748**
Stddev	.213	.0497	.00028	.0127	.00103	.0300	.00286
%RSD	.70807	.53677	2.6695	.73974	.48708	.59417	.62566
#1	30.247	9.3063	.01083	1.7272	.21024	5.0372	.45488
#2	30.281	9.2742	.01027	1.7280	.21058	5.0332	.45701
#3	29.895	9.2087	.01060	1.7056	.21216	5.0871	.46055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069339 Acquired: 3/29/2011 13:12:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-54.482**	F **155.03**	F **-35015.**	**.00414**	**.01146**	**2.5650**	**.01325**
Stddev	71.546	.68	152.	.00091	.00075	.0102	.00004
%RSD	131.32	.43897	.43340	21.916	6.5017	.39881	.30091
#1	17.170	154.72	-34948.	.00385	.01065	2.5698	.01330
#2	-54.694	154.55	-34908.	.00340	.01211	2.5532	.01323
#3	-125.92	155.81	-35189.	.00515	.01162	2.5720	.01323
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29723**	**.41877**	**.01106**	**.58204**	**.84821**	**.14972**
Stddev	.00148	.00210	.00217	.00349	.00270	.00060
%RSD	.49696	.50214	19.670	.60047	.31884	.40383
#1	.29825	.42092	.00948	.57934	.84675	.14986
#2	.29789	.41868	.01354	.58079	.84655	.14906
#3	.29553	.41672	.01015	.58599	.85133	.15024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47795.**	**45808.**
Stddev	85.	516.
%RSD	.17866	1.1256
#1	47829.	45452.
#2	47858.	45572.
#3	47698.	46399.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 13:16:06 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41081**	**10.010**	**.40169**	**.50650**	**.97908**	**.05038**	**9.7481**
Stddev	.00474	.046	.00093	.00461	.00269	.00045	.0388
%RSD	1.1534	.46410	.23176	.91093	.27449	.88708	.39766
#1	.40801	9.9925	.40166	.50287	.97973	.04995	9.7035
#2	.40815	9.9751	.40077	.50492	.98139	.05035	9.7670
#3	.41629	10.063	.40263	.51169	.97613	.05084	9.7738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05071**	**.20419**	**.50701**	**.50927**	**3.8498**	**49.142**	**.98045**
Stddev	.00032	.00079	.00381	.00216	.0198	.170	.00310
%RSD	.63372	.38536	.75224	.42472	.51526	.34554	.31579
#1	.05037	.20329	.50290	.50740	3.8423	49.011	.98189
#2	.05074	.20452	.50768	.50877	3.8723	49.334	.98256
#3	.05101	.20476	.51044	.51164	3.8349	49.081	.97689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5444**	**.47956**	**1.0025**	**49.494**	**.50696**	**9.9728**	**.50475**
Stddev	.0279	.00149	.0037	.177	.00182	.0378	.00302
%RSD	.29225	.30973	.37129	.35814	.35921	.37887	.59896
#1	9.5311	.47789	.99845	49.296	.50506	9.9350	.50218
#2	9.5765	.48005	1.0033	49.639	.50712	9.9728	.50808
#3	9.5257	.48074	1.0058	49.545	.50869	10.011	.50399
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 13:16:06 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **165.87**	**10.234**	F **-2.9280**	**1.2133**	**.40200**	**5.0630**	**1.0079**
Stddev	76.87	.045	3.6834	.0045	.00192	.0256	.0082
%RSD	46.345	.43624	125.80	.37312	.47784	.50568	.80963
#1	196.90	10.195	-5.3026	1.2081	.39986	5.0380	.99911
#2	78.331	10.225	1.3151	1.2162	.40258	5.0619	1.0152
#3	222.37	10.283	-4.7965	1.2157	.40357	5.0891	1.0094
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97651**	**.97178**	**.51425**	**1.0135**	**.99610**	**1.0048**
Stddev	.00330	.00134	.00261	.0077	.00371	.0060
%RSD	.33768	.13791	.50794	.76236	.37229	.59730
#1	.97295	.97060	.51128	1.0080	.99183	1.0010
#2	.97946	.97324	.51529	1.0102	.99806	1.0016
#3	.97711	.97150	.51618	1.0223	.99842	1.0117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48982.**	**44476.**
Stddev	218.	309.
%RSD	.44461	.69398
#1	49190.	44774.
#2	48999.	44497.
#3	48756.	44157.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 13:19:30 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.01160**	**.00033**	**.00210**	**-.00013**	**.00001**	**.00863**
Stddev	.00013	.00074	.00053	.00055	.00008	.00001	.00671
%RSD	30.274	6.3799	160.96	26.228	62.984	58.671	77.817
#1	-.00041	.01085	-.00005	.00272	-.00022	.00002	.01406
#2	-.00031	.01164	.00011	.00191	-.00005	.00002	.00112
#3	-.00056	.01233	.00093	.00167	-.00012	.00000	.01071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00004**	**-.00030**	**.00024**	**.00114**	**.14185**	**-.00679**
Stddev	.00006	.00027	.00017	.00036	.00147	.01430	.00093
%RSD	228.74	599.17	57.602	147.48	129.67	10.082	13.738
#1	.00003	-.00022	-.00049	-.00001	.00233	.14358	-.00591
#2	-.00002	.00004	-.00014	.00009	-.00051	.15521	-.00777
#3	-.00008	.00032	-.00028	.00066	.00159	.12677	-.00671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01194**	**-.00027**	**-.00003**	**-.00633**	**-.00004**	**.00009**	**-.00128**
Stddev	.01078	.00046	.00012	.01062	.00025	.00211	.00047
%RSD	90.304	169.49	368.53	167.61	552.87	2382.5	36.941
#1	-.01277	.00014	.00001	.00274	.00014	.00001	-.00074
#2	-.00077	-.00076	.00006	-.01801	-.00033	.00224	-.00160
#3	-.02228	-.00019	-.00017	-.00373	.00005	-.00198	-.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 13:19:30 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **110.06**	**-.00229**	F **1.3505**	**-.00020**	**.00050**	**.00048**	**-.00006**
Stddev	102.71	.04655	8.6202	.00046	.00261	.00117	.00014
%RSD	93.320	2036.8	638.32	235.04	524.84	242.43	240.45
#1	-8.5326	.00239	-5.4975	-.00045	.00138	-.00060	-.00022
#2	168.50	-.05100	-1.4816	-.00048	-.00243	.00173	.00005
#3	170.22	.04175	11.030	.00034	.00255	.00032	-.00001
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00051**	**-.00033**	**.00013**	**.00052**	**.00019**
Stddev	.00009	.00092	.00034	.00011	.00063	.00018
%RSD	254.61	178.56	102.47	82.414	119.95	94.129
#1	.00000	.00124	-.00048	.00025	.00016	.00033
#2	.00003	.00082	-.00057	.00010	.00016	.00026
#3	-.00014	-.00052	.00006	.00004	.00125	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48725.**	**43750.**
Stddev	82.	367.
%RSD	.16801	.83974
#1	48769.	44114.
#2	48776.	43380.
#3	48631.	43756.

Approved: March 30, 2011

Sample Name: LLCCV Acquired: 3/29/2011 13:23:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01913**	**.46383**	**.01989**	**.02492**	**.04612**	**.00236**	**.46706**
Stddev	.00064	.00070	.00125	.00052	.00017	.00001	.00200
%RSD	3.3426	.15087	6.2920	2.1030	.37090	.62521	.42720
#1	.01846	.46315	.01856	.02431	.04606	.00234	.46708
#2	.01973	.46455	.02104	.02526	.04599	.00237	.46905
#3	.01921	.46379	.02009	.02518	.04632	.00237	.46506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00231**	**.00976**	**.02375**	**.02478**	**.18183**	**2.4478**	**.03985**
Stddev	.00005	.00014	.00029	.00035	.00119	.0281	.00093
%RSD	2.1418	1.4246	1.2376	1.4107	.65510	1.1481	2.3322
#1	.00237	.00992	.02345	.02512	.18050	2.4154	.04066
#2	.00228	.00968	.02404	.02442	.18281	2.4640	.03884
#3	.00229	.00967	.02376	.02480	.18217	2.4641	.04004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44520**	**.02305**	**.04753**	**2.2853**	**.02486**	**.46956**	**.02476**
Stddev	.01464	.00036	.00035	.0101	.00025	.00399	.00045
%RSD	3.2878	1.5782	.72946	.44147	1.0214	.85028	1.8080
#1	.44078	.02264	.04719	2.2739	.02482	.46574	.02425
#2	.46153	.02333	.04754	2.2886	.02514	.47371	.02506
#3	.43328	.02319	.04788	2.2932	.02464	.46923	.02498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: LLCCV Acquired: 3/29/2011 13:23:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **90.343**	**.54907**	F **-8.1236**	**.05683**	**.01877**	**.24068**	**.04749**
Stddev	101.64	.01221	9.4550	.00121	.00085	.00083	.00027
%RSD	112.51	2.2237	116.39	2.1361	4.5306	.34501	.57045
#1	8.5063	.54464	-6.6687	.05650	.01860	.23975	.04720
#2	204.12	.56288	-18.222	.05817	.01801	.24136	.04773
#3	58.402	.53970	.5197	.05581	.01969	.24091	.04753
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04587**	**.04735**	**.02476**	**.04785**	**.05063**	**.04699**
Stddev	.00032	.00028	.00062	.00035	.00060	.00038
%RSD	.70358	.58501	2.4939	.73452	1.1856	.81307
#1	.04550	.04750	.02406	.04770	.05124	.04723
#2	.04607	.04752	.02519	.04759	.05004	.04720
#3	.04605	.04703	.02505	.04825	.05061	.04655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48906.**	**43233.**
Stddev	82.	170.
%RSD	.16721	.39374
#1	48898.	43085.
#2	48991.	43196.
#3	48828.	43419.

Approved: March 30, 2011

Sample Name: L1103069340 Acquired: 3/29/2011 13:26:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00433**	**245.19**	**.13786**	**.22817**	**2.6536**	**.01921**	**25.091**
Stddev	.00025	1.40	.00063	.00150	.0137	.00004	.143
%RSD	5.7590	.57134	.45583	.65926	.51699	.22274	.57015
#1	.00459	243.77	.13767	.22741	2.6385	.01921	24.962
#2	.00410	245.25	.13857	.22990	2.6568	.01918	25.066
#3	.00430	246.57	.13736	.22719	2.6654	.01926	25.245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00585**	**.33342**	**.45404**	**.12658**	**428.64**	**15.678**	**.16185**
Stddev	.00010	.00042	.00179	.00052	1.32	.059	.00248
%RSD	1.6549	.12596	.39497	.41079	.30887	.37463	1.5323
#1	.00593	.33367	.45349	.12702	428.02	15.629	.15918
#2	.00587	.33366	.45258	.12673	430.16	15.662	.16229
#3	.00574	.33294	.45604	.12601	427.74	15.743	.16409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.333**	**16.443**	**.01002**	**2.7936**	**.20813**	**2.7638**	**.43752**
Stddev	.105	.111	.00033	.0121	.00093	.0154	.00623
%RSD	.43342	.67481	3.3323	.43163	.44712	.55592	1.4243
#1	24.437	16.361	.01016	2.7800	.20809	2.7598	.43456
#2	24.226	16.397	.01027	2.7978	.20908	2.7808	.44468
#3	24.336	16.569	.00964	2.8029	.20722	2.7509	.43333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069340 Acquired: 3/29/2011 13:26:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-103.01**	F **86.498**	F **-18791.**	**-.00015**	**.01419**	**2.1951**	**.01246**
Stddev	76.21	.225	104.	.00124	.00190	.0234	.00028
%RSD	73.984	.26041	.55253	851.71	13.413	1.0681	2.2495
#1	-29.422	86.293	-18745.	.00120	.01438	2.2115	.01279
#2	-98.013	86.739	-18910.	-.00037	.01220	2.2057	.01231
#3	-181.60	86.463	-18717.	-.00126	.01599	2.1683	.01229
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25875**	**.38504**	**.00973**	**.66893**	**.44428**	**.16608**
Stddev	.00163	.00116	.00054	.00226	.00026	.00022
%RSD	.62993	.30225	5.5716	.33814	.05920	.13306
#1	.25701	.38393	.01036	.66724	.44436	.16598
#2	.25900	.38494	.00937	.66806	.44450	.16633
#3	.26024	.38626	.00947	.67150	.44399	.16592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48249.**	**47010.**
Stddev	112.	624.
%RSD	.23169	1.3270
#1	48120.	46318.
#2	48308.	47529.
#3	48319.	47183.

Approved: March 30, 2011

Sample Name: L1103069341 Acquired: 3/29/2011 13:30:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00740**	**278.54**	**.13932**	**.24051**	**2.4779**	**.01465**	**62.397**
Stddev	.00007	.73	.00066	.00154	.0026	.00002	.174
%RSD	.97062	.26248	.47034	.64080	.10458	.12759	.27880
#1	.00748	279.30	.13949	.24081	2.4805	.01463	62.598
#2	.00739	278.48	.13860	.24188	2.4778	.01467	62.293
#3	.00733	277.84	.13987	.23884	2.4754	.01466	62.300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01463**	**.17327**	**.41031**	**.21550**	**350.53**	**31.813**	**.20179**
Stddev	.00013	.00011	.00120	.00068	.87	.017	.00119
%RSD	.92056	.06626	.29225	.31537	.24780	.05265	.58921
#1	.01473	.17327	.41002	.21505	351.53	31.832	.20239
#2	.01448	.17316	.41163	.21517	350.00	31.809	.20043
#3	.01469	.17339	.40929	.21628	350.05	31.799	.20257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**31.001**	**11.131**	**.01398**	**1.7591**	**.22204**	**10.201**	**1.1621**
Stddev	.103	.052	.00009	.0138	.00102	.014	.0032
%RSD	.33166	.46569	.66527	.78519	.46055	.14045	.27606
#1	31.114	11.190	.01407	1.7745	.22321	10.216	1.1592
#2	30.975	11.092	.01388	1.7480	.22159	10.188	1.1616
#3	30.913	11.110	.01400	1.7547	.22131	10.199	1.1656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069341 Acquired: 3/29/2011 13:30:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-107.14**	F **222.83**	F **-49854.**	**.00642**	**.01688**	**2.5660**	**.02378**
Stddev	28.45	.76	77.	.00183	.00211	.0054	.00030
%RSD	26.556	.34260	.15493	28.555	12.520	.20993	1.2819
#1	-139.33	222.01	-49927.	.00834	.01884	2.5696	.02413
#2	-96.713	222.97	-49773.	.00468	.01464	2.5687	.02357
#3	-85.366	223.52	-49861.	.00625	.01717	2.5598	.02363
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50808**	**.79052**	**.01177**	**.62125**	**1.8259**	**.13011**
Stddev	.00116	.00109	.00177	.00182	.0022	.00067
%RSD	.22739	.13761	15.014	.29333	.12254	.51658
#1	.50935	.79077	.01338	.62170	1.8237	.13016
#2	.50710	.78932	.00988	.62280	1.8258	.13075
#3	.50779	.79146	.01204	.61924	1.8282	.12941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47749.**	**46738.**
Stddev	66.	326.
%RSD	.13878	.69706
#1	47700.	46364.
#2	47723.	46888.
#3	47825.	46961.

Approved: March 30, 2011

Sample Name: L1103069342 Acquired: 3/29/2011 13:34:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00549**	**190.56**	**.12876**	**.19218**	**1.9856**	**.01526**	**25.080**
Stddev	.00022	1.14	.00157	.00127	.0044	.00003	.124
%RSD	3.9448	.59713	1.2164	.66031	.22372	.18856	.49549
#1	.00560	189.66	.12729	.19087	1.9805	.01527	24.948
#2	.00524	191.84	.12857	.19341	1.9882	.01528	25.098
#3	.00563	190.17	.13041	.19227	1.9881	.01522	25.194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01115**	**.20490**	**.37387**	**.16576**	**351.34**	**18.494**	**.12026**
Stddev	.00012	.00016	.00143	.00119	1.39	.088	.00159
%RSD	1.0764	.07750	.38211	.71970	.39656	.47457	1.3203
#1	.01102	.20495	.37247	.16469	349.73	18.427	.11935
#2	.01119	.20503	.37532	.16705	352.19	18.463	.12210
#3	.01125	.20472	.37381	.16554	352.09	18.594	.11934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.438**	**12.841**	**.01382**	**1.6855**	**.17011**	**9.8842**	**.76781**
Stddev	.122	.079	.00029	.0090	.00147	.0231	.00042
%RSD	.56962	.61753	2.0680	.53469	.86610	.23372	.05429
#1	21.300	12.753	.01372	1.6753	.16922	9.9062	.76748
#2	21.485	12.864	.01414	1.6889	.17181	9.8861	.76828
#3	21.530	12.906	.01360	1.6923	.16931	9.8602	.76767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069342 Acquired: 3/29/2011 13:34:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.7234**	F **97.890**	F **-22732.**	**.00666**	**.01515**	**2.4641**	**.01997**
Stddev	68.672	.353	53.	.00153	.00091	.0156	.00022
%RSD	3984.7	.36074	.23194	22.944	6.0218	.63291	1.0977
#1	24.618	97.819	-22681.	.00814	.01613	2.4461	.01994
#2	-79.667	98.274	-22786.	.00509	.01433	2.4723	.01976
#3	49.878	97.579	-22729.	.00674	.01499	2.4737	.02020
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24303**	**.35096**	**.00830**	**.55298**	**1.5953**	**.11425**
Stddev	.00099	.00064	.00102	.00208	.0081	.00078
%RSD	.40744	.18225	12.301	.37618	.50861	.68599
#1	.24193	.35032	.00917	.55069	1.6043	.11334
#2	.24331	.35160	.00854	.55475	1.5932	.11467
#3	.24385	.35094	.00717	.55350	1.5885	.11473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48171.**	**46644.**
Stddev	204.	109.
%RSD	.42370	.23264
#1	48295.	46763.
#2	47936.	46551.
#3	48283.	46618.

Approved: March 30, 2011

Sample Name: L1103085101 Acquired: 3/29/2011 13:37:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00400**	**282.50**	**.25158**	**.39225**	**3.2388**	**.02514**	**97.341**
Stddev	.00069	1.43	.00268	.00852	.0108	.00007	.347
%RSD	17.200	.50711	1.0657	2.1718	.33469	.27769	.35663
#1	.00423	282.25	.24849	.39877	3.2504	.02509	97.710
#2	.00454	281.21	.25296	.38261	3.2370	.02522	97.021
#3	.00323	284.04	.25330	.39535	3.2289	.02510	97.290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01029**	**.33532**	**.42019**	**.60323**	**729.92**	**31.486**	**.41747**
Stddev	.00004	.00171	.00351	.00444	12.45	.123	.00153
%RSD	.34475	.51000	.83607	.73618	1.7058	.39042	.36568
#1	.01031	.33335	.41672	.59825	735.76	31.600	.41916
#2	.01025	.33638	.42375	.60466	715.63	31.355	.41620
#3	.01031	.33623	.42009	.60678	738.38	31.502	.41704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**58.065**	**17.383**	**.02860**	**6.6320**	**.71830**	**13.110**	**.35013**
Stddev	.574	.106	.00007	.0215	.00380	.060	.00248
%RSD	.98777	.61209	.24202	.32440	.52881	.45686	.70703
#1	58.286	17.477	.02852	6.6453	.71394	13.041	.34747
#2	57.414	17.267	.02865	6.6072	.72007	13.151	.35237
#3	58.496	17.403	.02862	6.6435	.72090	13.137	.35055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103085101 Acquired: 3/29/2011 13:37:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-69.099**	F **129.46**	F **-11790.**	**-.00329**	**.00823**	**2.1721**	**.01800**
Stddev	30.475	.67	30.	.00275	.00132	.0061	.00053
%RSD	44.104	.51906	.25305	83.372	16.032	.28086	2.9622
#1	-63.602	128.69	-11756.	-.00602	.00742	2.1662	.01819
#2	-101.95	129.79	-11802.	-.00053	.00975	2.1717	.01842
#3	-41.746	129.91	-11811.	-.00334	.00752	2.1784	.01740
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4102**	**.24260**	**.00918**	**.45210**	**1.5087**	**.18374**
Stddev	.0042	.00147	.00061	.00240	.0046	.00059
%RSD	.29423	.60426	6.6825	.53003	.30716	.32370
#1	1.4148	.24425	.00870	.44934	1.5036	.18414
#2	1.4067	.24145	.00897	.45342	1.5127	.18403
#3	1.4090	.24210	.00987	.45355	1.5098	.18306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48978.**	**48020.**
Stddev	17.	771.
%RSD	.03401	1.6061
#1	48987.	47358.
#2	48959.	48867.
#3	48988.	47835.

Approved: March 30, 2011

Sample Name: L1103085102 Acquired: 3/29/2011 13:41:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00859**	**320.77**	**.20840**	**.32116**	**2.9835**	**.02259**	**43.858**
Stddev	.00076	3.30	.00199	.00617	.0020	.00016	.104
%RSD	8.8221	1.0279	.95453	1.9205	.06697	.68908	.23733
#1	.00862	321.06	.20618	.31501	2.9842	.02250	43.747
#2	.00781	323.91	.21002	.32735	2.9850	.02277	43.873
#3	.00932	317.33	.20900	.32112	2.9812	.02251	43.953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01359**	**.36381**	**.38406**	**.36803**	**579.73**	**33.869**	**.37945**
Stddev	.00023	.00529	.00319	.00570	10.37	.060	.00112
%RSD	1.6953	1.4548	.83115	1.5476	1.7887	.17777	.29648
#1	.01335	.35959	.38210	.36386	568.83	33.819	.37841
#2	.01381	.36975	.38775	.37452	589.47	33.851	.37929
#3	.01360	.36208	.38235	.36572	580.90	33.936	.38064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**37.500**	**27.552**	**.07493**	**.83119**	**.45968**	**10.658**	**.52994**
Stddev	.132	.064	.00110	.00256	.00747	.142	.00775
%RSD	.35273	.23350	1.4680	.30818	1.6253	1.3322	1.4631
#1	37.444	27.496	.07434	.83059	.45440	10.564	.52343
#2	37.404	27.538	.07620	.82897	.46823	10.822	.53852
#3	37.651	27.622	.07425	.83399	.45641	10.590	.52788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103085102 Acquired: 3/29/2011 13:41:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-57.060**	F **176.21**	F **-40639.**	**-.00054**	**.02771**	**2.8751**	**.02412**
Stddev	21.214	2.88	558.	.00189	.00143	.0418	.00022
%RSD	37.179	1.6340	1.3728	347.82	5.1550	1.4550	.89417
#1	-44.792	173.85	-40244.	-.00244	.02692	2.8499	.02388
#2	-81.556	179.42	-41277.	.00135	.02936	2.9234	.02429
#3	-44.832	175.37	-40395.	-.00054	.02686	2.8520	.02420
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44356**	**.39116**	**.00846**	**.56062**	**1.6689**	**.12043**
Stddev	.00104	.00088	.00114	.00459	.0229	.00131
%RSD	.23376	.22403	13.521	.81911	1.3712	1.0918
#1	.44244	.39218	.00974	.55838	1.6512	.11921
#2	.44374	.39062	.00753	.56590	1.6948	.12182
#3	.44449	.39070	.00812	.55757	1.6608	.12026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48478.**	**48958.**
Stddev	408.	55.
%RSD	.84259	.11183
#1	48728.	48922.
#2	48007.	49021.
#3	48699.	48931.

Approved: March 30, 2011

Sample Name: L1103085103 Acquired: 3/29/2011 13:45:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00698**	**352.22**	**.23148**	**.28086**	**3.2390**	**.02186**	**310.97**
Stddev	.00040	1.71	.00231	.00313	.0367	.00008	2.69
%RSD	5.7890	.48577	.99699	1.1135	1.1325	.37586	.86610
#1	.00733	353.54	.23342	.28051	3.2781	.02180	313.62
#2	.00654	350.28	.23208	.28415	3.2336	.02196	311.07
#3	.00707	352.83	.22892	.27792	3.2053	.02183	308.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01007**	**.28832**	**.44461**	**.51523**	**460.70**	**61.644**	**.46964**
Stddev	.00010	.00110	.00138	.00273	5.51	.545	.00525
%RSD	.94576	.38033	.31135	.52997	1.1964	.88413	1.1169
#1	.01014	.28907	.44503	.51655	459.83	62.220	.47527
#2	.01011	.28883	.44573	.51704	466.60	61.576	.46876
#3	.00996	.28706	.44306	.51209	455.68	61.136	.46490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**59.448**	**22.896**	**.02463**	**2.3998**	**.57876**	**16.274**	**.29037**
Stddev	.371	.160	.00016	.0218	.00078	.028	.00105
%RSD	.62451	.69761	.66745	.90835	.13507	.17360	.36242
#1	59.789	23.027	.02478	2.4116	.57893	16.299	.28920
#2	59.502	22.944	.02466	2.4132	.57945	16.279	.29124
#3	59.052	22.718	.02445	2.3747	.57791	16.243	.29066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103085103 Acquired: 3/29/2011 13:45:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-134.53**	F **427.70**	F **-41770.**	**.00276**	**.01409**	**2.6925**	**.01832**
Stddev	33.89	1.10	66.	.00289	.00162	.0145	.00031
%RSD	25.195	.25764	.15870	104.64	11.509	.53834	1.6862
#1	-143.51	428.31	-41819.	.00349	.01257	2.6992	.01847
#2	-163.02	428.37	-41797.	-.00042	.01390	2.7024	.01852
#3	-97.045	426.43	-41695.	.00522	.01580	2.6758	.01796
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.3281**	**.28797**	**.00336**	**.46371**	**1.2980**	**.17047**
Stddev	.0235	.00306	.00156	.00148	.0020	.00037
%RSD	1.0079	1.0629	46.398	.31835	.15299	.21856
#1	2.3513	.29065	.00195	.46290	1.2993	.17006
#2	2.3288	.28863	.00503	.46542	1.2991	.17080
#3	2.3044	.28463	.00309	.46282	1.2958	.17054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47894.**	**48871.**
Stddev	51.	228.
%RSD	.10605	.46615
#1	47885.	48752.
#2	47849.	48728.
#3	47949.	49134.

Approved: March 30, 2011

Sample Name: L1103085104 Acquired: 3/29/2011 13:48:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00310**	**398.17**	**.24090**	**.39301**	**2.2654**	**.02481**	**72.231**
Stddev	.00031	3.71	.00278	.00499	.0007	.00005	.219
%RSD	9.9489	.93254	1.1543	1.2699	.03060	.19166	.30299
#1	.00307	393.90	.23800	.38906	2.2650	.02479	71.982
#2	.00281	400.65	.24114	.39136	2.2650	.02477	72.317
#3	.00342	399.95	.24354	.39862	2.2662	.02486	72.393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00928**	**.31737**	**.47579**	**.65624**	**757.97**	**41.751**	**.30049**
Stddev	.00009	.00055	.00101	.00087	6.82	.168	.00053
%RSD	.99500	.17479	.21274	.13332	.89952	.40253	.17631
#1	.00920	.31714	.47577	.65724	751.89	41.557	.30071
#2	.00938	.31698	.47478	.65586	756.69	41.848	.29988
#3	.00926	.31801	.47681	.65562	765.34	41.848	.30087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.172**	**13.001**	**.04012**	**.83487**	**.62261**	**15.447**	**.38223**
Stddev	.304	.047	.00053	.00618	.00107	.003	.00164
%RSD	.61806	.35799	1.3330	.74012	.17237	.02024	.42862
#1	48.822	12.948	.04070	.82775	.62196	15.449	.38186
#2	49.337	13.027	.04001	.83794	.62202	15.443	.38081
#3	49.359	13.030	.03965	.83891	.62385	15.448	.38402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103085104 Acquired: 3/29/2011 13:48:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-72.288**	F **142.53**	F **-22214.**	**.00149**	**.01189**	**2.4410**	**.02137**
Stddev	31.110	.24	52.	.00237	.00117	.0041	.00039
%RSD	43.036	.16544	.23452	159.02	9.8289	.16683	1.8089
#1	-36.994	142.35	-22209.	.00231	.01225	2.4457	.02176
#2	-95.728	142.44	-22164.	-.00118	.01058	2.4383	.02098
#3	-84.141	142.80	-22268.	.00335	.01283	2.4390	.02138
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50032**	**.18672**	**.01214**	**.57339**	**1.5456**	**.21184**
Stddev	.00153	.00025	.00513	.00096	.0057	.00103
%RSD	.30642	.13428	42.231	.16789	.37004	.48513
#1	.49858	.18701	.01664	.57431	1.5435	.21203
#2	.50149	.18654	.00656	.57239	1.5411	.21073
#3	.50089	.18662	.01322	.57349	1.5520	.21275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47155.**	**48011.**
Stddev	49.	166.
%RSD	.10389	.34658
#1	47132.	48201.
#2	47211.	47941.
#3	47122.	47892.

Approved: March 30, 2011

Sample Name: L1103087401 Acquired: 3/29/2011 13:52:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02776**	**110.35**	**.17112**	**.30357**	**1.4040**	**.00078**
Stddev	.00099	.40	.00126	.00035	.0012	.00002
%RSD	3.5693	.36065	.73895	.11515	.08511	3.0205
#1	.02799	109.90	.17010	.30360	1.4050	.00076
#2	.02667	110.66	.17253	.30321	1.4027	.00081
#3	.02861	110.48	.17071	.30390	1.4044	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1263.9**	**.01411**	**.09279**	**.27196**	**.32699**	**248.89**
Stddev	24.5	.00002	.00070	.00089	.00397	.92
%RSD	1.9373	.14532	.75369	.32682	1.2132	.36976
#1	1278.0	.01410	.09246	.27094	.32365	248.99
#2	1235.6	.01413	.09359	.27248	.33137	247.93
#3	1278.0	.01410	.09232	.27247	.32594	249.76
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.286**	**.16306**	**54.658**	**6.7832**	**.04276**	**5.5097**
Stddev	.037	.00086	.437	.0181	.00033	.0188
%RSD	.19166	.52712	.80040	.26674	.77355	.34048
#1	19.294	.16356	54.666	6.7827	.04277	5.5116
#2	19.246	.16207	54.216	6.7653	.04309	5.4901
#3	19.318	.16355	55.091	6.8015	.04243	5.5275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103087401 Acquired: 3/29/2011 13:52:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24509**	**4.4184**	**.13088**	F **81.438**	F **1904.1**	F **-203250.**
Stddev	.00125	.0316	.00234	34.590	10.9	530.
%RSD	.51012	.71564	1.7904	42.474	.57250	.26075
#1	.24411	4.3928	.12878	41.729	1891.7	-202770.
#2	.24650	4.4537	.13341	97.563	1912.3	-203820.
#3	.24466	4.4086	.13044	105.02	1908.3	-203170.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00980**	**.00887**	**27.634**	**.02219**	**2.7038**	**3.5950**
Stddev	.00160	.00059	1.015	.00044	.0190	.0110
%RSD	16.359	6.6194	3.6730	1.9804	.70170	.30621
#1	.01043	.00927	28.190	.02171	2.7165	3.5961
#2	.00797	.00915	28.249	.02228	2.6820	3.5835
#3	.01099	.00820	26.463	.02258	2.7130	3.6054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.00972**	**.26201**	**5.1224**	**.24439**
Stddev	.00166	.00194	.0097	.00088
%RSD	17.059	.74215	.18842	.36093
#1	.01097	.25976	5.1139	.24537
#2	.00784	.26321	5.1329	.24415
#3	.01034	.26304	5.1205	.24366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: March 30, 2011

Sample Name: L1103087401 Acquired: 3/29/2011 13:52:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**43947.**	**45453.**
Stddev	73.	345.
%RSD	.16611	.75951
#1	43984.	45253.
#2	43862.	45852.
#3	43993.	45255.

Approved: March 30, 2011

Sample Name: L1103087402 Acquired: 3/29/2011 13:56:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04325**	**167.50**	**.15264**	**.30549**	**1.6086**	^ *****
Stddev	.00043	.78	.00057	.00106	.0056	-----
%RSD	1.0008	.46530	.37425	.34811	.34968	-----
#1	.04375	167.05	.15330	.30638	1.6150	^ -----
#2	.04299	168.40	.15226	.30579	1.6065	^ -----
#3	.04300	167.05	.15237	.30432	1.6043	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1367.2**	**.02107**	**.11526**	**.25696**	**.19615**	**186.85**
Stddev	30.5	.00012	.00069	.00116	.00169	.31
%RSD	2.2305	.58754	.59564	.45085	.85957	.16610
#1	1332.1	.02110	.11471	.25772	.19530	186.95
#2	1387.3	.02094	.11504	.25752	.19505	186.50
#3	1382.1	.02118	.11603	.25562	.19809	187.10
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.824**	**.22460**	**63.233**	**4.8026**	**.03616**	**2.2877**
Stddev	.060	.00087	.351	.0251	.00016	.0138
%RSD	.55005	.38710	.55512	.52184	.45180	.60210
#1	10.790	.22387	63.019	4.8001	.03599	2.2896
#2	10.789	.22437	63.042	4.7789	.03631	2.2731
#3	10.893	.22556	63.638	4.8288	.03618	2.3004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103087402 Acquired: 3/29/2011 13:56:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24982**	**5.0954**	**.10568**	F **30.542**	F **2398.6**	F **-307920.**
Stddev	.00073	.0381	.00145	61.487	3.5	417.
%RSD	.29390	.74829	1.3711	201.32	.14394	.13538
#1	.24947	5.0796	.10706	-38.930	2397.8	-307480.
#2	.24932	5.0677	.10417	52.597	2395.6	-308310.
#3	.25066	5.1389	.10580	77.961	2402.4	-307980.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00999**	**.01111**	**12.850**	**.02157**	**2.6257**	**6.1106**
Stddev	.00165	.00189	.402	.00031	.0136	.0117
%RSD	16.553	16.969	3.1267	1.4282	.51817	.19206
#1	.01189	.00916	13.085	.02189	2.6227	6.1161
#2	.00910	.01125	13.079	.02128	2.6138	6.0971
#3	.00896	.01293	12.386	.02154	2.6405	6.1185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.01606**	**.37232**	**.79123**	**.36351**
Stddev	.00032	.00068	.00049	.00072
%RSD	1.9782	.18204	.06255	.19714
#1	.01589	.37244	.79169	.36320
#2	.01587	.37292	.79130	.36433
#3	.01643	.37158	.79071	.36299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: March 30, 2011

Sample Name: L1103087402 Acquired: 3/29/2011 13:56:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44266.**	**46193.**
Stddev	34.	147.
%RSD	.07691	.31754
#1	44236.	46199.
#2	44258.	46336.
#3	44303.	46043.

Approved: March 30, 2011

Sample Name: L1103046028 Acquired: 3/29/2011 13:59:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00334**	**29.974**	**.04141**	**.02820**	**.54237**	**.00350**	F **1195.7**
Stddev	.00045	.034	.00126	.00032	.00171	.00001	9.2
%RSD	13.469	.11445	3.0460	1.1214	.31537	.30398	.76923
#1	.00330	30.012	.03997	.02857	.54216	.00350	1202.2
#2	.00380	29.963	.04232	.02801	.54417	.00349	1199.7
#3	.00291	29.946	.04195	.02803	.54077	.00350	1185.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00554**	**.02694**	**.03309**	**.14035**	**19.103**	**3.1341**	**.04747**
Stddev	.00010	.00026	.00040	.00066	.083	.0104	.00186
%RSD	1.7631	.96621	1.2099	.47210	.43599	.33235	3.9191
#1	.00544	.02664	.03354	.13963	19.112	3.1426	.04660
#2	.00554	.02708	.03298	.14049	19.182	3.1371	.04960
#3	.00563	.02710	.03276	.14094	19.016	3.1224	.04620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.4353**	**4.8408**	**.00106**	**.21005**	**.03726**	**4.1417**	**.24863**
Stddev	.0544	.0279	.00003	.00518	.00024	.0092	.00079
%RSD	.84587	.57560	2.5733	2.4649	.63451	.22171	.31601
#1	6.4282	4.8497	.00109	.20416	.03705	4.1314	.24933
#2	6.4929	4.8632	.00105	.21389	.03721	4.1490	.24778
#3	6.3847	4.8096	.00104	.21210	.03752	4.1446	.24878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103046028 Acquired: 3/29/2011 13:59:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **50.091**	F **1261.3**	F **-20036.**	**.00469**	**.00668**	**3.7933**	**.00219**
Stddev	97.879	3.2	89.	.00155	.00056	.0205	.00025
%RSD	195.40	.25705	.44482	33.013	8.4420	.53937	11.300
#1	42.649	1258.4	-20007.	.00465	.00604	3.7705	.00214
#2	-43.856	1260.7	-20136.	.00316	.00712	3.7994	.00245
#3	151.48	1264.8	-19965.	.00626	.00686	3.8100	.00197
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27890**	**.27586**	**.00065**	**.08550**	**.08802**	**.01774**
Stddev	.00123	.00118	.00059	.00015	.00027	.00003
%RSD	.44112	.42714	90.645	.16980	.31167	.17257
#1	.27854	.27587	.00012	.08534	.08829	.01777
#2	.28027	.27704	.00128	.08556	.08774	.01771
#3	.27789	.27468	.00055	.08561	.08805	.01774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45962.**	**45416.**
Stddev	150.	355.
%RSD	.32737	.78168
#1	46118.	45324.
#2	45952.	45117.
#3	45817.	45808.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 14:03:43 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41913**	**9.9991**	**.40713**	**.51158**	**.98187**	**.05110**	**9.5552**
Stddev	.00186	.0293	.00115	.00070	.00268	.00018	.0227
%RSD	.44321	.29277	.28175	.13720	.27276	.35689	.23798
#1	.42076	10.014	.40796	.51229	.98426	.05121	9.5304
#2	.41711	10.018	.40582	.51089	.97897	.05089	9.5750
#3	.41954	9.9654	.40760	.51155	.98236	.05120	9.5604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05136**	**.20507**	**.50994**	**.51403**	**3.7948**	**48.485**	**.99009**
Stddev	.00017	.00060	.00198	.00034	.0056	.040	.00104
%RSD	.32301	.29102	.38903	.06530	.14854	.08232	.10521
#1	.05135	.20575	.51135	.51441	3.8011	48.458	.99120
#2	.05153	.20486	.50767	.51393	3.7930	48.531	.98913
#3	.05120	.20461	.51080	.51376	3.7902	48.465	.98995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2213**	**.46100**	**1.0060**	**48.859**	**.50965**	**10.050**	**.50581**
Stddev	.0345	.00163	.0018	.214	.00061	.020	.00147
%RSD	.37402	.35456	.18155	.43795	.12036	.19775	.29153
#1	9.2140	.45934	1.0075	48.704	.50928	10.073	.50547
#2	9.2588	.46261	1.0065	49.103	.50930	10.038	.50742
#3	9.1910	.46106	1.0040	48.770	.51036	10.040	.50453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 14:03:43 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **117.48**	**10.107**	F **25.197**	**1.2363**	**.40730**	**5.1260**	**1.0069**
Stddev	13.76	.026	17.954	.0006	.00170	.0029	.0049
%RSD	11.708	.25728	71.253	.04867	.41622	.05551	.48127
#1	124.08	10.137	5.2528	1.2356	.40904	5.1286	1.0046
#2	126.69	10.091	30.270	1.2365	.40723	5.1265	1.0125
#3	101.67	10.093	40.068	1.2368	.40565	5.1229	1.0037
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96455**	**.96784**	**.51796**	**1.0224**	**.99283**	**1.0029**
Stddev	.00267	.00187	.00062	.0026	.00302	.0015
%RSD	.27701	.19341	.11895	.25460	.30458	.15308
#1	.96203	.96671	.51820	1.0245	.99628	1.0041
#2	.96735	.97000	.51842	1.0195	.99062	1.0034
#3	.96427	.96681	.51726	1.0232	.99160	1.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48760.**	**45959.**
Stddev	87.	47.
%RSD	.17897	.10300
#1	48659.	45962.
#2	48818.	45911.
#3	48801.	46005.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 14:07:06 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00928**	**.00049**	**.00210**	**-.00031**	**.00000**	**.00660**
Stddev	.00044	.00189	.00106	.00012	.00009	.0000	.00110
%RSD	155.80	20.337	216.44	5.6602	29.999	753.09	16.598
#1	.00069	.00975	.00060	.00198	-.00041	.00000	.00568
#2	.00032	.00721	-.00062	.00221	-.00023	.00001	.00781
#3	-.00018	.01089	.00148	.00211	-.00030	-.00001	.00632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00010**	**-.00063**	**.00026**	**-.00217**	**.16246**	**-.00726**
Stddev	.00006	.00017	.00032	.00019	.00208	.01589	.00039
%RSD	74.126	169.14	50.363	72.901	95.809	9.7835	5.3742
#1	-.00005	-.00009	-.00026	.00008	-.00014	.17696	-.00706
#2	-.00016	.00026	-.00082	.00046	-.00208	.14547	-.00771
#3	-.00005	.00014	-.00079	.00023	-.00430	.16495	-.00702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01838**	**-.00011**	**-.00001**	**.00438**	**.00130**	**-.00133**	**.00058**
Stddev	.01097	.00017	.00005	.00500	.00095	.00339	.00009
%RSD	59.682	155.22	337.55	114.01	72.950	254.82	15.564
#1	-.02011	-.00015	.00004	.00863	.00054	-.00501	.00056
#2	-.00665	.00008	-.00003	-.00112	.00100	.00166	.00049
#3	-.02838	-.00024	-.00005	.00565	.00237	-.00063	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 14:07:06 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **75.859**	**-.00256**	F **15.113**	**-.00029**	**.00012**	**.00053**	**-.00031**
Stddev	54.919	.02063	6.785	.00105	.00061	.00039	.00015
%RSD	72.396	806.26	44.896	362.66	514.80	73.515	48.301
#1	128.14	-.02282	14.266	-.00093	.00078	.00086	-.00042
#2	80.806	.01843	22.282	-.00087	-.00043	.00010	-.00038
#3	18.633	-.00329	8.7908	.00093	.00000	.00061	-.00014
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00070**	**.00058**	**.00006**	**.00667**	**.00022**
Stddev	.00000	.00072	.00010	.00021	.00635	.00009
%RSD	5.8397	103.52	18.040	374.91	95.272	40.085
#1	-.00006	.00133	.00069	-.00005	.00286	.00020
#2	-.00006	.00086	.00048	.00030	.00314	.00015
#3	-.00006	-.00009	.00056	-.00008	.01400	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49212.**	**45241.**
Stddev	90.	241.
%RSD	.18389	.53282
#1	49214.	45500.
#2	49301.	45023.
#3	49120.	45201.

Approved: March 30, 2011

Sample Name: L1103092605 Acquired: 3/29/2011 14:10:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03657**	**476.93**	**.04511**	**.38307**	**.84284**	**.00125**	**5.5075**
Stddev	.00075	1.26	.00084	.00928	.00189	.00003	.0317
%RSD	2.0534	.26391	1.8531	2.4214	.22471	2.5575	.57546
#1	.03687	475.50	.04589	.38394	.84298	.00127	5.5171
#2	.03571	477.42	.04521	.37340	.84088	.00121	5.4721
#3	.03712	477.87	.04423	.39189	.84466	.00126	5.5332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00928**	**.10377**	**.47223**	**.33014**	**758.13**	**20.064**	**.22723**
Stddev	.00011	.00023	.00128	.00126	15.44	.088	.00094
%RSD	1.1895	.22478	.27082	.38189	2.0369	.44035	.41565
#1	.00920	.10401	.47187	.33145	758.32	20.053	.22782
#2	.00924	.10355	.47365	.33002	742.59	19.981	.22774
#3	.00941	.10376	.47117	.32894	773.47	20.157	.22614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.992**	**4.6991**	**.00821**	**2.5173**	**.19306**	**7.7741**	**.23627**
Stddev	.179	.0274	.00021	.0138	.00107	.0272	.00031
%RSD	.99501	.58379	2.5653	.54825	.55191	.35043	.13097
#1	17.844	4.6810	.00832	2.5136	.19379	7.8001	.23661
#2	17.942	4.6858	.00797	2.5058	.19354	7.7764	.23620
#3	18.191	4.7307	.00834	2.5326	.19183	7.7458	.23601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092605 Acquired: 3/29/2011 14:10:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-86.940**	F **67.625**	F **-18289.**	**.06849**	**.00858**	**1.8295**	**.03147**
Stddev	69.202	.402	41.	.00220	.00235	.0086	.00046
%RSD	79.597	.59429	.22242	3.2127	27.386	.47255	1.4591
#1	-68.762	67.974	-18335.	.06935	.00669	1.8363	.03200
#2	-163.42	67.185	-18272.	.07013	.00783	1.8324	.03116
#3	-28.643	67.716	-18259.	.06599	.01121	1.8198	.03125
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04636**	**5.0929**	**.04535**	**1.4391**	**.85849**	**.16262**
Stddev	.00019	.0118	.00086	.0006	.00138	.00079
%RSD	.41822	.23203	1.9043	.04094	.16078	.48413
#1	.04649	5.0911	.04537	1.4396	.85707	.16240
#2	.04613	5.0820	.04620	1.4392	.85855	.16197
#3	.04645	5.1055	.04448	1.4384	.85983	.16350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46849.**	**48019.**
Stddev	131.	178.
%RSD	.27928	.37148
#1	46698.	48192.
#2	46927.	48028.
#3	46922.	47836.

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 14:14:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04469**	**626.34**	**.04724**	**.37842**	**.96027**	^ *****	**.83714**
Stddev	.00041	4.31	.00072	.00421	.00296	-----	.00499
%RSD	.92605	.68842	1.5282	1.1118	.30852	-----	.59579
#1	.04512	626.01	.04764	.38020	.96086	^ -----	.84287
#2	.04429	622.20	.04640	.38144	.96289	^ -----	.83375
#3	.04467	630.80	.04767	.37362	.95706	^ -----	.83480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00453**	**.11365**	**.42711**	**.37723**	**759.08**	**29.177**	**.27354**
Stddev	.00020	.00070	.00389	.00299	4.62	.101	.00054
%RSD	4.4815	.61954	.90973	.79199	.60820	.34580	.19843
#1	.00465	.11357	.42496	.37783	761.43	29.289	.27295
#2	.00464	.11300	.42477	.37400	762.04	29.150	.27403
#3	.00429	.11440	.43159	.37988	753.76	29.092	.27363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.685**	**3.4542**	**.00642**	**.41653**	**.24693**	**6.4053**	**.28812**
Stddev	.097	.0205	.00033	.00525	.00118	.0450	.00119
%RSD	.39447	.59408	5.1574	1.2601	.47629	.70264	.41200
#1	24.777	3.4778	.00604	.42244	.24695	6.3981	.28946
#2	24.694	3.4446	.00654	.41240	.24574	6.3644	.28768
#3	24.583	3.4402	.00667	.41476	.24809	6.4535	.28722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 14:14:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-94.826**	F **36.119**	F **-10108.**	**-.00410**	**-.00062**	**2.4679**	**.03626**
Stddev	53.268	.310	46.	.00019	.00139	.0059	.00060
%RSD	56.174	.85884	.45300	4.6404	225.89	.23739	1.6526
#1	-79.763	36.159	-10071.	-.00412	-.00155	2.4658	.03575
#2	-154.00	35.791	-10093.	-.00429	.00098	2.4633	.03692
#3	-50.713	36.407	-10159.	-.00391	-.00128	2.4745	.03610
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05859**	**6.5703**	**.05152**	**1.5862**	**.85007**	**.17961**
Stddev	.00023	.0141	.00134	.0089	.00594	.00083
%RSD	.39280	.21423	2.6020	.55787	.69866	.46145
#1	.05885	6.5857	.05071	1.5798	.85021	.17869
#2	.05846	6.5674	.05079	1.5824	.84406	.17982
#3	.05844	6.5580	.05307	1.5963	.85594	.18031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46947.**	**48566.**
Stddev	242.	526.
%RSD	.51537	1.0833
#1	46989.	47979.
#2	47165.	48723.
#3	46687.	48996.

Approved: March 30, 2011

Sample Name: L1103092605 Acquired: 3/29/2011 14:18:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**4.9534**	**.00244**	**.00469**	**.00839**	**.00001**	**.07197**
Stddev	.00090	.0142	.00059	.00073	.00002	.00001	.00579
%RSD	135.49	.28641	24.118	15.596	.27487	191.73	8.0447
#1	.00119	4.9670	.00177	.00528	.00841	.00001	.07790
#2	-.00037	4.9545	.00269	.00491	.00839	-.00001	.06633
#3	.00117	4.9387	.00286	.00387	.00837	.00002	.07168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00130**	**.00418**	**.00393**	**8.6494**	**.39476**	**-.00636**
Stddev	.00001	.00013	.00010	.00034	.0301	.03823	.00136
%RSD	3.7660	9.8631	2.5113	8.7779	.34817	9.6843	21.375
#1	-.00021	.00116	.00426	.00364	8.6148	.38078	-.00548
#2	-.00020	.00141	.00422	.00383	8.6692	.36549	-.00792
#3	-.00021	.00133	.00406	.00431	8.6644	.43801	-.00568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20404**	**.05250**	**-.00014**	**.01192**	**.00224**	**.09658**	**.00394**
Stddev	.01306	.00099	.00008	.00929	.00027	.00258	.00037
%RSD	6.4008	1.8875	60.645	77.951	11.846	2.6689	9.3009
#1	.21842	.05149	-.00023	.02107	.00241	.09520	.00374
#2	.20079	.05254	-.00010	.00249	.00238	.09498	.00372
#3	.19291	.05347	-.00008	.01220	.00194	.09955	.00437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092605 Acquired: 3/29/2011 14:18:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **164.49**	**.85806**	F **-227.59**	**-.00089**	**.00021**	**.01475**	**-.00014**
Stddev	10.82	.03079	1.89	.00134	.00147	.00079	.00018
%RSD	6.5778	3.5883	.82862	151.12	695.73	5.3660	130.03
#1	153.01	.82395	-227.45	.00016	-.00132	.01558	.00006
#2	165.96	.88380	-229.55	-.00043	.00161	.01468	-.00031
#3	174.50	.86642	-225.78	-.00239	.00035	.01400	-.00017
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.05371**	**.00210**	**.01476**	**.01578**	**.00176**
Stddev	.00007	.00084	.00054	.00011	.00018	.00002
%RSD	18.228	1.5640	25.643	.74876	1.1504	.93342
#1	.00036	.05372	.00179	.01488	.01576	.00176
#2	.00031	.05286	.00179	.01475	.01597	.00178
#3	.00045	.05454	.00272	.01466	.01561	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50882.**	**46041.**
Stddev	174.	1013.
%RSD	.34260	2.1992
#1	51083.	47208.
#2	50793.	45396.
#3	50770.	45519.

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 14:21:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**6.7209**	**.00397**	**.00449**	**.01004**	**-.00001**	**.01064**
Stddev	.00049	.0047	.00067	.00025	.00043	.00001	.00695
%RSD	459.43	.06947	17.002	5.5451	4.2734	116.07	65.301
#1	-.00064	6.7261	.00458	.00459	.01054	.00000	.01497
#2	.00030	6.7197	.00408	.00420	.00986	-.00001	.01433
#3	.00003	6.7170	.00324	.00467	.00974	-.00002	.00263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00150**	**.00374**	**.00481**	**9.0639**	**.49947**	**-.00606**
Stddev	.00002	.00012	.00009	.00030	.3485	.00529	.00089
%RSD	9.0010	8.2273	2.3084	6.1754	3.8452	1.0584	14.653
#1	-.00015	.00139	.00364	.00452	9.4517	.50540	-.00632
#2	-.00019	.00163	.00378	.00481	8.9632	.49776	-.00680
#3	-.00017	.00146	.00380	.00511	8.7768	.49526	-.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27894**	**.04036**	**-.00023**	**-.01076**	**.00353**	**.08253**	**.00344**
Stddev	.01369	.00180	.00005	.00346	.00087	.00324	.00047
%RSD	4.9093	4.4698	21.688	32.165	24.720	3.9238	13.711
#1	.29309	.04233	-.00018	-.01475	.00288	.07962	.00393
#2	.27799	.03994	-.00028	-.00849	.00320	.08602	.00300
#3	.26575	.03880	-.00024	-.00905	.00452	.08195	.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 14:21:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **82.643**	**.37121**	F **-116.49**	**-.00222**	**-.00078**	**.02217**	**.00016**
Stddev	93.688	.03501	15.98	.00091	.00047	.00031	.00026
%RSD	113.36	9.4303	13.717	41.205	59.891	1.3796	161.21
#1	188.80	.33089	-115.95	-.00177	-.00047	.02202	.00046
#2	11.509	.38895	-132.73	-.00327	-.00132	.02252	-.00002
#3	47.624	.39379	-100.78	-.00161	-.00055	.02197	.00004
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.07358**	**.00330**	**.01610**	**.01641**	**.00160**
Stddev	.00004	.00244	.00037	.00009	.00630	.00007
%RSD	6.8866	3.3168	11.174	.55959	38.398	4.0995
#1	.00056	.07616	.00353	.01614	.01247	.00162
#2	.00049	.07327	.00348	.01600	.01307	.00165
#3	.00050	.07130	.00287	.01617	.02367	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50301.**	**45631.**
Stddev	125.	1770.
%RSD	.24841	3.8798
#1	50438.	43682.
#2	50194.	46070.
#3	50270.	47140.

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 14:21:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**6.7209**	**.00397**	**.00449**	**.01004**	**-.00001**	**.01064**
Stddev	.00049	.0047	.00067	.00025	.00043	.00001	.00695
%RSD	459.43	.06947	17.002	5.5451	4.2734	116.07	65.301
#1	-.00064	6.7261	.00458	.00459	.01054	.00000	.01497
#2	.00030	6.7197	.00408	.00420	.00986	-.00001	.01433
#3	.00003	6.7170	.00324	.00467	.00974	-.00002	.00263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00150**	**.00374**	**.00481**	**9.0639**	**.49947**	**-.00606**
Stddev	.00002	.00012	.00009	.00030	.3485	.00529	.00089
%RSD	9.0010	8.2273	2.3084	6.1754	3.8452	1.0584	14.653
#1	-.00015	.00139	.00364	.00452	9.4517	.50540	-.00632
#2	-.00019	.00163	.00378	.00481	8.9632	.49776	-.00680
#3	-.00017	.00146	.00380	.00511	8.7768	.49526	-.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27894**	**.04036**	**-.00023**	**-.01076**	**.00353**	**.08253**	**.00344**
Stddev	.01369	.00180	.00005	.00346	.00087	.00324	.00047
%RSD	4.9093	4.4698	21.688	32.165	24.720	3.9238	13.711
#1	.29309	.04233	-.00018	-.01475	.00288	.07962	.00393
#2	.27799	.03994	-.00028	-.00849	.00320	.08602	.00300
#3	.26575	.03880	-.00024	-.00905	.00452	.08195	.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 14:21:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **82.643**	**.37121**	F **-116.49**	**-.00222**	**-.00078**	**.02217**	**.00016**
Stddev	93.688	.03501	15.98	.00091	.00047	.00031	.00026
%RSD	113.36	9.4303	13.717	41.205	59.891	1.3796	161.21
#1	188.80	.33089	-115.95	-.00177	-.00047	.02202	.00046
#2	11.509	.38895	-132.73	-.00327	-.00132	.02252	-.00002
#3	47.624	.39379	-100.78	-.00161	-.00055	.02197	.00004
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.07358**	**.00330**	**.01610**	**.01641**	**.00160**
Stddev	.00004	.00244	.00037	.00009	.00630	.00007
%RSD	6.8866	3.3168	11.174	.55959	38.398	4.0995
#1	.00056	.07616	.00353	.01614	.01247	.00162
#2	.00049	.07327	.00348	.01600	.01307	.00165
#3	.00050	.07130	.00287	.01617	.02367	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50301.**	**45631.**
Stddev	125.	1770.
%RSD	.24841	3.8798
#1	50438.	43682.
#2	50194.	46070.
#3	50270.	47140.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 14:25:25 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41857**	**10.039**	**.40687**	**.51214**	**.97856**	**.05091**	**9.5572**
Stddev	.00114	.051	.00084	.00225	.00164	.00011	.0203
%RSD	.27209	.51130	.20601	.43997	.16718	.21794	.21209
#1	.41969	10.020	.40696	.51164	.97752	.05092	9.5460
#2	.41742	10.000	.40766	.51018	.97772	.05080	9.5450
#3	.41861	10.097	.40599	.51460	.98045	.05102	9.5806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05102**	**.20475**	**.50834**	**.51182**	**3.7647**	**48.451**	**.98652**
Stddev	.00035	.00056	.00248	.00154	.0268	.133	.00231
%RSD	.68382	.27176	.48831	.30101	.71237	.27410	.23453
#1	.05090	.20492	.50880	.51228	3.7439	48.325	.98831
#2	.05074	.20412	.50566	.51010	3.7552	48.437	.98391
#3	.05141	.20520	.51057	.51307	3.7950	48.590	.98734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2052**	**.45965**	**1.0037**	**48.914**	**.50862**	**10.047**	**.50601**
Stddev	.0385	.00281	.0012	.084	.00096	.013	.00071
%RSD	.41787	.61045	.11872	.17182	.18798	.12560	.13996
#1	9.1807	.45693	1.0024	48.861	.50934	10.051	.50545
#2	9.1853	.45950	1.0039	48.871	.50753	10.033	.50576
#3	9.2495	.46254	1.0047	49.011	.50899	10.057	.50680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 14:25:25 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **111.38**	**10.082**	F **31.648**	**1.2287**	**.40614**	**5.1032**	**1.0032**
Stddev	27.64	.043	9.257	.0011	.00136	.0047	.0012
%RSD	24.811	.42398	29.250	.08744	.33494	.09268	.12131
#1	103.66	10.114	36.549	1.2293	.40490	5.0978	1.0027
#2	142.06	10.099	20.971	1.2274	.40760	5.1061	1.0023
#3	88.435	10.033	37.425	1.2293	.40591	5.1058	1.0046
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96464**	**.96365**	**.51746**	**1.0240**	**.99559**	**1.0095**
Stddev	.00090	.00188	.00140	.0025	.00232	.0047
%RSD	.09371	.19491	.26991	.24747	.23296	.46867
#1	.96395	.96462	.51771	1.0252	.99442	1.0092
#2	.96432	.96149	.51596	1.0211	.99408	1.0050
#3	.96567	.96485	.51872	1.0257	.99826	1.0144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47764.**	**44711.**
Stddev	109.	126.
%RSD	.22850	.28233
#1	47823.	44836.
#2	47831.	44713.
#3	47638.	44583.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 14:28:48 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.01039**	**.00060**	**.00215**	**-.00021**	**-.00001**	**.00384**
Stddev	.00027	.00091	.00094	.00035	.00009	.00002	.00208
%RSD	71.155	8.7417	155.18	16.439	44.554	317.41	54.067
#1	-.00038	.00965	.00166	.00183	-.00029	.00001	.00368
#2	-.00063	.01012	.00028	.00253	-.00011	-.00003	.00185
#3	-.00010	.01141	-.00013	.00210	-.00024	-.00001	.00599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00004**	**-.00024**	**.00038**	**-.00013**	**.14437**	**-.00730**
Stddev	.00005	.00012	.00031	.00017	.00265	.02032	.00153
%RSD	182.73	272.06	129.68	44.249	2048.5	14.075	20.904
#1	.00002	-.00008	-.00028	.00023	-.00192	.12104	-.00894
#2	-.00002	.00015	.00009	.00056	-.00137	.15824	-.00592
#3	-.00007	.00005	-.00053	.00035	.00291	.15381	-.00705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01144**	**-.00015**	**-.00002**	**-.00525**	**.00073**	**.00156**	**-.00055**
Stddev	.00827	.00014	.00010	.00479	.00016	.00012	.00108
%RSD	72.314	93.519	659.61	91.236	22.323	7.9644	194.94
#1	-.02082	-.00015	.00009	-.00171	.00082	.00159	.00019
#2	-.00519	-.00029	-.00004	-.01071	.00084	.00167	-.00179
#3	-.00831	-.00001	-.00010	-.00334	.00055	.00142	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 14:28:48 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **138.85**	F **.03732**	F **3.7262**	**-.00056**	**-.00179**	**.00095**	**-.00024**
Stddev	4.51	.02519	8.6073	.00137	.00060	.00072	.00020
%RSD	3.2492	67.488	230.99	244.39	33.388	76.062	81.305
#1	133.74	.02696	-4.3643	.00008	-.00213	.00179	-.00030
#2	142.31	.06603	12.771	-.00213	-.00110	.00056	-.00002
#3	140.49	.01897	2.7721	.00037	-.00214	.00051	-.00040
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00041**	**.00126**	**-.00001**	**.00439**	**.00014**
Stddev	.00005	.00060	.00057	.00018	.00027	.00004
%RSD	133.63	145.90	44.737	1732.0	6.1738	25.618
#1	-.00003	-.00025	.00134	-.00004	.00408	.00018
#2	-.00009	.00056	.00066	.00018	.00455	.00010
#3	.00001	.00093	.00179	-.00018	.00455	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48224.**	**43764.**
Stddev	191.	123.
%RSD	.39587	.28104
#1	48220.	43700.
#2	48418.	43687.
#3	48036.	43906.

Approved: March 30, 2011

Sample Name: L1103082327 Acquired: 3/29/2011 14:32:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00226**	**226.24**	**.10166**	**.15614**	**2.0994**	**.01553**	**30.063**
Stddev	.00057	1.93	.00037	.00094	.0021	.00016	.126
%RSD	25.316	.85514	.35978	.59989	.09934	1.0339	.41919
#1	.00246	224.65	.10193	.15555	2.1009	.01540	29.990
#2	.00271	225.67	.10181	.15564	2.0970	.01571	29.990
#3	.00162	228.39	.10125	.15722	2.1002	.01548	30.208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00423**	**.14491**	**.32910**	**.09672**	**286.25**	**18.139**	**.14353**
Stddev	.00004	.00028	.00074	.00070	.64	.064	.00026
%RSD	.89119	.19157	.22546	.71918	.22328	.35239	.17949
#1	.00425	.14469	.32825	.09752	285.83	18.101	.14348
#2	.00418	.14522	.32956	.09625	285.93	18.104	.14330
#3	.00425	.14481	.32950	.09638	286.98	18.213	.14380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.012**	**6.8996**	**.01069**	**3.5281**	**.12645**	**3.7077**	**.28087**
Stddev	.119	.0381	.00005	.0224	.00033	.0072	.00069
%RSD	.66228	.55277	.42978	.63531	.26063	.19346	.24560
#1	17.899	6.8748	.01073	3.5056	.12627	3.7098	.28164
#2	17.999	6.8806	.01064	3.5281	.12683	3.7136	.28066
#3	18.137	6.9435	.01071	3.5505	.12625	3.6997	.28031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082327 Acquired: 3/29/2011 14:32:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-89.923**	F **128.07**	F **-29449.**	**.00352**	**.01336**	**1.9856**	**.01173**
Stddev	36.613	.61	40.	.00045	.00147	.0036	.00020
%RSD	40.716	.47603	.13534	12.849	10.989	.18106	1.7004
#1	-49.860	128.73	-29470.	.00316	.01455	1.9881	.01189
#2	-121.65	127.94	-29474.	.00402	.01381	1.9871	.01180
#3	-98.260	127.53	-29403.	.00336	.01172	1.9814	.01151
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24828**	**.27697**	**.01252**	**.57920**	**.36470**	**.16379**
Stddev	.00080	.00146	.00091	.00208	.00048	.00009
%RSD	.32111	.52677	7.2430	.35965	.13282	.05772
#1	.24766	.27637	.01153	.57763	.36516	.16371
#2	.24801	.27591	.01275	.58156	.36474	.16376
#3	.24918	.27864	.01330	.57840	.36419	.16390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47961.**	**47527.**
Stddev	109.	200.
%RSD	.22710	.42094
#1	47875.	47543.
#2	47925.	47719.
#3	48084.	47320.

Approved: March 30, 2011

Sample Name: L1103082328 Acquired: 3/29/2011 14:36:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00301**	**120.51**	**.07330**	**.11693**	**1.2098**	**.00792**	**52.204**
Stddev	.00049	.93	.00066	.00036	.0031	.00001	.244
%RSD	16.151	.77294	.90436	.30545	.25222	.18826	.46766
#1	.00285	119.71	.07293	.11700	1.2081	.00792	51.979
#2	.00355	121.53	.07406	.11654	1.2134	.00794	52.463
#3	.00261	120.27	.07290	.11724	1.2080	.00791	52.168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00557**	**.08716**	**.23747**	**.10849**	**173.46**	**19.725**	**.08635**
Stddev	.00004	.00013	.00092	.00071	.53	.061	.00149
%RSD	.65083	.15397	.38859	.65551	.30367	.30894	1.7212
#1	.00555	.08702	.23768	.10775	173.02	19.654	.08776
#2	.00555	.08729	.23646	.10917	174.04	19.756	.08649
#3	.00562	.08716	.23827	.10856	173.30	19.764	.08480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.314**	**5.9688**	**.00886**	**.97666**	**.09056**	**13.363**	**.22644**
Stddev	.047	.0387	.00027	.00492	.00067	.021	.00089
%RSD	.32803	.64788	3.0469	.50353	.73995	.15457	.39509
#1	14.301	5.9394	.00862	.98057	.08982	13.349	.22653
#2	14.366	6.0126	.00882	.97114	.09112	13.386	.22550
#3	14.274	5.9545	.00916	.97827	.09075	13.352	.22728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082328 Acquired: 3/29/2011 14:36:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-72.100**	F **175.52**	F **-37370.**	**.00350**	**.01008**	**2.0485**	**.00848**
Stddev	62.569	.62	108.	.00209	.00123	.0071	.00028
%RSD	86.781	.35184	.28819	59.866	12.201	.34485	3.2421
#1	-139.09	175.01	-37299.	.00546	.01140	2.0419	.00856
#2	-62.030	176.20	-37317.	.00129	.00987	2.0559	.00818
#3	-15.177	175.34	-37494.	.00374	.00897	2.0476	.00871
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29510**	**.43025**	**.00690**	**.39264**	**.65210**	**.09822**
Stddev	.00130	.00107	.00042	.00061	.00030	.00054
%RSD	.44050	.24856	6.1460	.15643	.04605	.54775
#1	.29411	.43011	.00736	.39228	.65189	.09760
#2	.29657	.43138	.00653	.39228	.65244	.09857
#3	.29462	.42925	.00680	.39334	.65197	.09848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47319.**	**47054.**
Stddev	66.	270.
%RSD	.13906	.57299
#1	47292.	46933.
#2	47272.	46865.
#3	47394.	47362.

Approved: March 30, 2011

Sample Name: L1103082329 Acquired: 3/29/2011 14:39:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00252**	**174.35**	**.08347**	**.12048**	**1.7901**	**.01185**	**23.327**
Stddev	.00111	.61	.00191	.00149	.0042	.00005	.092
%RSD	44.099	.35185	2.2893	1.2338	.23166	.43511	.39430
#1	.00380	174.58	.08128	.11879	1.7858	.01191	23.266
#2	.00188	174.82	.08478	.12111	1.7904	.01180	23.282
#3	.00187	173.66	.08436	.12156	1.7941	.01184	23.433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00444**	**.09163**	**.28008**	**.10343**	**216.29**	**15.950**	**.11786**
Stddev	.00006	.00006	.00131	.00041	.97	.044	.00173
%RSD	1.4201	.06459	.46777	.39843	.44992	.27536	1.4647
#1	.00438	.09169	.28148	.10390	215.17	15.906	.11899
#2	.00442	.09162	.27888	.10317	216.97	15.950	.11588
#3	.00450	.09157	.27989	.10321	216.73	15.994	.11873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.871**	**6.4381**	**.00996**	**1.0314**	**.10732**	**3.7901**	**.22981**
Stddev	.049	.0401	.00012	.0095	.00044	.0090	.00144
%RSD	.33251	.62346	1.2387	.91863	.41231	.23816	.62559
#1	14.833	6.3956	.01004	1.0207	.10733	3.7863	.22843
#2	14.927	6.4433	.00982	1.0348	.10686	3.8004	.22970
#3	14.853	6.4754	.01002	1.0387	.10775	3.7835	.23130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082329 Acquired: 3/29/2011 14:39:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.245**	F **96.943**	F **-21758.**	**.00313**	**.01183**	**2.0061**	**.01039**
Stddev	70.169	.354	64.	.00079	.00099	.0077	.00010
%RSD	116.47	.36510	.29571	25.146	8.4082	.38446	.91897
#1	-104.82	97.132	-21733.	.00380	.01277	2.0123	.01033
#2	20.639	97.162	-21831.	.00331	.01192	2.0085	.01034
#3	-96.550	96.534	-21710.	.00226	.01079	1.9975	.01050
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20134**	**.35907**	**.00849**	**.46379**	**.41108**	**.13366**
Stddev	.00058	.00050	.00088	.00264	.00224	.00039
%RSD	.28773	.14011	10.408	.56894	.54531	.29406
#1	.20096	.35850	.00832	.46632	.41296	.13406
#2	.20105	.35942	.00944	.46105	.40860	.13366
#3	.20201	.35931	.00770	.46398	.41167	.13327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47996.**	**47070.**
Stddev	155.	240.
%RSD	.32335	.50926
#1	47829.	47235.
#2	48020.	46795.
#3	48137.	47179.

Approved: March 30, 2011

Sample Name: L1103082330 Acquired: 3/29/2011 14:43:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**175.33**	**.11684**	**.16949**	**1.8700**	**.01368**	**43.306**
Stddev	.00092	1.31	.00076	.00096	.0036	.00004	.063
%RSD	17.658	.74697	.65185	.56347	.19135	.29815	.14635
#1	.00490	176.72	.11659	.16843	1.8736	.01368	43.325
#2	.00623	174.12	.11770	.17028	1.8701	.01363	43.235
#3	.00447	175.15	.11624	.16976	1.8664	.01371	43.357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00627**	**.19469**	**.33647**	**.11996**	**309.45**	**14.392**	**.10046**
Stddev	.00003	.00113	.00239	.00085	.98	.028	.00203
%RSD	.48398	.57909	.71090	.70856	.31586	.19738	2.0190
#1	.00629	.19576	.33487	.12089	310.58	14.415	.09830
#2	.00624	.19479	.33922	.11978	308.86	14.360	.10076
#3	.00629	.19352	.33533	.11922	308.92	14.401	.10233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.902**	**11.133**	**.01490**	**1.1221**	**.12309**	**6.2471**	**.35709**
Stddev	.059	.015	.00026	.0068	.00059	.0187	.00091
%RSD	.37093	.13329	1.7504	.60610	.48197	.29952	.25541
#1	15.938	11.149	.01517	1.1144	.12354	6.2603	.35771
#2	15.834	11.120	.01487	1.1248	.12331	6.2553	.35752
#3	15.934	11.131	.01465	1.1271	.12242	6.2257	.35604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082330 Acquired: 3/29/2011 14:43:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.717**	F **143.59**	F **-29919.**	**.00507**	**.01674**	**2.1678**	**.01188**
Stddev	29.149	1.01	176.	.00109	.00021	.0130	.00045
%RSD	71.589	.70379	.58956	21.421	1.2519	.59963	3.7896
#1	-25.300	144.47	-30085.	.00589	.01651	2.1795	.01214
#2	-74.337	143.82	-29937.	.00548	.01680	2.1703	.01136
#3	-22.514	142.49	-29734.	.00384	.01692	2.1538	.01213
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27919**	**.34402**	**.01198**	**.59688**	**.54703**	**.12456**
Stddev	.00052	.00062	.00119	.00169	.00135	.00013
%RSD	.18539	.17974	9.9142	.28245	.24642	.10677
#1	.27909	.34412	.01139	.59881	.54733	.12443
#2	.27874	.34459	.01335	.59611	.54821	.12456
#3	.27976	.34336	.01121	.59571	.54556	.12469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47522.**	**47680.**
Stddev	158.	308.
%RSD	.33300	.64521
#1	47406.	47330.
#2	47458.	47906.
#3	47702.	47805.

Approved: March 30, 2011

Sample Name: L1103082331 Acquired: 3/29/2011 14:46:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00587**	**268.65**	**.12972**	**.20532**	**1.8841**	**.01674**	**26.049**
Stddev	.00028	.62	.00060	.00072	.0045	.00005	.063
%RSD	4.7456	.22908	.46244	.34925	.23914	.29245	.24029
#1	.00612	268.06	.12982	.20607	1.8818	.01668	25.976
#2	.00592	268.61	.13025	.20523	1.8893	.01678	26.087
#3	.00557	269.29	.12907	.20465	1.8812	.01674	26.083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00506**	**.27240**	**.44292**	**.11281**	**376.44**	**15.873**	**.17297**
Stddev	.00003	.00125	.00219	.00122	.57	.038	.00118
%RSD	.62271	.45776	.49524	1.0810	.15092	.24057	.68438
#1	.00502	.27096	.44101	.11152	376.22	15.865	.17222
#2	.00508	.27312	.44531	.11296	377.08	15.915	.17434
#3	.00507	.27312	.44242	.11395	376.01	15.840	.17235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.451**	**11.414**	**.01631**	**3.0049**	**.15088**	**3.8642**	**.36567**
Stddev	.020	.043	.00023	.0097	.00151	.0243	.00317
%RSD	.09662	.37878	1.3794	.32163	1.0032	.62973	.86744
#1	20.463	11.364	.01656	2.9941	.14932	3.8495	.36260
#2	20.461	11.432	.01625	3.0080	.15098	3.8509	.36548
#3	20.428	11.445	.01613	3.0126	.15234	3.8923	.36893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082331 Acquired: 3/29/2011 14:46:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-88.958**	F **107.99**	F **-24097.**	**.00356**	**.01513**	**2.3659**	**.01354**
Stddev	35.351	1.09	140.	.00180	.00044	.0028	.00057
%RSD	39.739	1.0110	.58046	50.567	2.9258	.11820	4.2425
#1	-50.276	106.82	-24000.	.00188	.01549	2.3644	.01378
#2	-97.007	108.17	-24033.	.00334	.01525	2.3692	.01395
#3	-119.59	108.99	-24257.	.00547	.01464	2.3642	.01288
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22970**	**.48458**	**.01454**	**.72597**	**.40547**	**.17872**
Stddev	.00053	.00131	.00053	.00346	.00412	.00081
%RSD	.23264	.26944	3.6231	.47717	1.0165	.45542
#1	.22909	.48338	.01492	.72201	.40135	.17787
#2	.22998	.48597	.01476	.72845	.40547	.17949
#3	.23004	.48438	.01394	.72745	.40960	.17879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48089.**	**47463.**
Stddev	107.	229.
%RSD	.22249	.48237
#1	48213.	47238.
#2	48028.	47456.
#3	48027.	47695.

Approved: March 30, 2011

Sample Name: L1103082332 Acquired: 3/29/2011 14:50:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00683**	**242.20**	**.13254**	**.20612**	**1.9398**	**.01420**	**35.123**
Stddev	.00062	1.42	.00101	.00234	.0107	.00004	.169
%RSD	9.1363	.58827	.76548	1.1377	.54878	.25079	.48000
#1	.00751	240.56	.13289	.20878	1.9518	.01418	35.294
#2	.00670	243.13	.13334	.20436	1.9313	.01424	34.957
#3	.00628	242.92	.13140	.20522	1.9364	.01417	35.116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00692**	**.31335**	**.44847**	**.12039**	**357.61**	**18.462**	**.17101**
Stddev	.00014	.00057	.00067	.00073	2.74	.095	.00089
%RSD	1.9552	.18055	.14868	.60228	.76582	.51580	.52286
#1	.00686	.31330	.44919	.11956	360.41	18.552	.17146
#2	.00683	.31281	.44787	.12073	354.94	18.362	.17158
#3	.00708	.31394	.44835	.12089	357.48	18.472	.16998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.930**	**15.696**	**.01723**	**1.8119**	**.16014**	**4.9557**	**.50065**
Stddev	.117	.144	.00023	.0035	.00051	.0475	.00143
%RSD	.61971	.91779	1.3127	.19467	.31755	.95909	.28631
#1	19.010	15.837	.01698	1.8098	.16040	4.9344	.49942
#2	18.796	15.549	.01741	1.8099	.15955	4.9225	.50031
#3	18.985	15.702	.01730	1.8160	.16045	5.0101	.50222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082332 Acquired: 3/29/2011 14:50:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-135.29**	F **106.40**	F **-20822.**	**.00793**	**.01727**	**2.5822**	**.01392**
Stddev	27.37	.15	34.	.00205	.00146	.0042	.00026
%RSD	20.233	.14276	.16100	25.808	8.4715	.16298	1.8568
#1	-109.05	106.47	-20860.	.00725	.01810	2.5870	.01394
#2	-163.67	106.22	-20796.	.00631	.01814	2.5792	.01416
#3	-133.15	106.50	-20809.	.01023	.01558	2.5804	.01365
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27339**	**.65930**	**.01295**	**.72008**	**.66354**	**.14743**
Stddev	.00053	.00196	.00158	.00195	.00231	.00042
%RSD	.19269	.29758	12.235	.27096	.34773	.28646
#1	.27365	.66105	.01465	.72221	.66383	.14782
#2	.27278	.65718	.01270	.71967	.66111	.14698
#3	.27373	.65968	.01151	.71838	.66569	.14750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47562.**	**46892.**
Stddev	42.	601.
%RSD	.08762	1.2812
#1	47517.	46321.
#2	47600.	47519.
#3	47569.	46836.

Approved: March 30, 2011

Sample Name: L1103082333 Acquired: 3/29/2011 14:54:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00639**	**271.72**	**.18027**	**.24700**	**1.7948**	**.01964**	**25.317**
Stddev	.00051	1.61	.00100	.00047	.0045	.00008	.185
%RSD	8.0312	.59316	.55312	.19174	.24911	.41834	.73020
#1	.00584	273.54	.18041	.24751	1.7968	.01955	25.346
#2	.00686	270.47	.17921	.24691	1.7897	.01969	25.119
#3	.00647	271.16	.18119	.24658	1.7980	.01969	25.485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00596**	**.36620**	**.48140**	**.11856**	**474.91**	**12.563**	**.15820**
Stddev	.00008	.00019	.00100	.00016	1.48	.071	.00139
%RSD	1.3004	.05089	.20759	.13855	.31138	.56472	.87588
#1	.00595	.36608	.48033	.11840	473.52	12.600	.15660
#2	.00589	.36611	.48231	.11873	474.74	12.482	.15890
#3	.00605	.36641	.48156	.11856	476.47	12.609	.15909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.301**	**14.930**	**.02156**	**3.7383**	**.17106**	**3.4457**	**.55302**
Stddev	.080	.116	.00015	.0329	.00041	.0020	.00100
%RSD	.39267	.77407	.68077	.88066	.23742	.05863	.18043
#1	20.367	14.956	.02150	3.7424	.17151	3.4436	.55417
#2	20.212	14.803	.02172	3.7035	.17095	3.4476	.55255
#3	20.324	15.030	.02145	3.7690	.17072	3.4460	.55235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082333 Acquired: 3/29/2011 14:54:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-32.824**	F **118.38**	F **-27580.**	**.00404**	**.01929**	**2.2885**	**.01420**
Stddev	6.267	.23	67.	.00103	.00232	.0059	.00059
%RSD	19.092	.19243	.24140	25.477	12.050	.25685	4.1915
#1	-36.125	118.47	-27579.	.00444	.01951	2.2909	.01477
#2	-25.597	118.12	-27648.	.00482	.01686	2.2929	.01424
#3	-36.750	118.55	-27515.	.00287	.02149	2.2818	.01358
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22114**	**.34853**	**.01756**	**.85751**	**.41678**	**.18556**
Stddev	.00110	.00167	.00099	.00512	.00064	.00060
%RSD	.49544	.47832	5.6609	.59756	.15293	.32118
#1	.22148	.34917	.01712	.85206	.41736	.18586
#2	.21991	.34664	.01870	.86223	.41610	.18594
#3	.22202	.34979	.01687	.85823	.41689	.18487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47739.**	**47676.**
Stddev	44.	400.
%RSD	.09282	.83811
#1	47721.	47317.
#2	47707.	48107.
#3	47790.	47604.

Approved: March 30, 2011

Sample Name: L1103082334 Acquired: 3/29/2011 14:57:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00438**	**153.80**	**.09850**	**.14703**	**1.1854**	**.01047**	**187.55**
Stddev	.00004	1.53	.00150	.00051	.0029	.00005	.30
%RSD	1.0180	.99600	1.5201	.34374	.24126	.47897	.15933
#1	.00438	155.43	.09844	.14701	1.1880	.01052	187.39
#2	.00442	153.58	.09704	.14654	1.1823	.01042	187.36
#3	.00434	152.39	.10003	.14755	1.1860	.01049	187.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00589**	**.17443**	**.26705**	**.30331**	**239.95**	**14.841**	**.08721**
Stddev	.00006	.00040	.00098	.00176	.32	.020	.00171
%RSD	1.0314	.22853	.36652	.58007	.13397	.13383	1.9576
#1	.00585	.17484	.26593	.30520	240.00	14.848	.08816
#2	.00596	.17443	.26771	.30172	239.61	14.818	.08523
#3	.00585	.17404	.26752	.30300	240.24	14.856	.08822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.609**	**8.3711**	**.01616**	**.77157**	**.11897**	**7.6624**	**.34529**
Stddev	.077	.0150	.00016	.00455	.00036	.0177	.00201
%RSD	.41334	.17957	.99171	.58917	.30488	.23078	.58182
#1	18.522	8.3591	.01602	.77276	.11926	7.6750	.34355
#2	18.641	8.3662	.01633	.76655	.11857	7.6700	.34483
#3	18.666	8.3880	.01613	.77540	.11910	7.6422	.34749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082334 Acquired: 3/29/2011 14:57:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.954**	F **365.61**	F **-54951.**	**.00560**	**.01896**	**1.9911**	**.01162**
Stddev	42.842	.71	7.	.00178	.00176	.0021	.00016
%RSD	286.49	.19441	.01350	31.774	9.2934	.10741	1.3618
#1	28.166	366.25	-54943.	.00455	.01948	1.9933	.01171
#2	-32.937	364.85	-54958.	.00766	.02041	1.9908	.01144
#3	49.633	365.74	-54952.	.00460	.01700	1.9891	.01171
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94846**	**.30630**	**.00766**	**.46867**	**.79651**	**.11173**
Stddev	.00107	.00059	.00160	.00056	.00079	.00012
%RSD	.11239	.19140	20.832	.11991	.09958	.11150
#1	.94746	.30578	.00624	.46838	.79732	.11163
#2	.94835	.30619	.00939	.46932	.79649	.11170
#3	.94958	.30694	.00735	.46831	.79573	.11187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46589.**	**46363.**
Stddev	84.	151.
%RSD	.18046	.32522
#1	46501.	46422.
#2	46597.	46475.
#3	46668.	46192.

Approved: March 30, 2011

Sample Name: L1103082335 Acquired: 3/29/2011 15:01:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00627**	**209.24**	**.13521**	**.19707**	**1.5833**	**.01536**	**47.092**
Stddev	.00047	3.50	.00217	.00156	.0024	.00017	.265
%RSD	7.5010	1.6746	1.6034	.79084	.15503	1.1092	.56240
#1	.00575	205.20	.13444	.19871	1.5843	.01518	47.104
#2	.00668	211.37	.13353	.19560	1.5805	.01552	46.822
#3	.00636	211.16	.13766	.19690	1.5850	.01537	47.351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00650**	**.26589**	**.41922**	**.10298**	**372.23**	**9.9536**	**.11911**
Stddev	.00005	.00367	.00584	.00129	2.21	.0457	.00020
%RSD	.84078	1.3810	1.3923	1.2543	.59258	.45908	.16429
#1	.00649	.26196	.41257	.10162	372.97	9.9316	.11897
#2	.00657	.26646	.42158	.10315	369.75	9.9230	.11903
#3	.00646	.26924	.42350	.10418	373.97	10.006	.11933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.253**	**15.154**	**.01711**	**1.5289**	**.12579**	**3.4928**	**.52759**
Stddev	.136	.132	.00040	.0100	.00236	.0522	.00619
%RSD	.78794	.87072	2.3178	.65647	1.8745	1.4958	1.1725
#1	17.264	15.166	.01711	1.5254	.12309	3.4344	.52059
#2	17.112	15.016	.01671	1.5211	.12682	3.5088	.52988
#3	17.383	15.279	.01751	1.5402	.12745	3.5351	.53231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082335 Acquired: 3/29/2011 15:01:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-6.5108**	F **103.42**	F **-16648.**	**.00358**	**.01970**	**2.5644**	**.01265**
Stddev	73.120	1.20	256.	.00114	.00292	.0352	.00035
%RSD	1123.1	1.1628	1.5401	31.974	14.816	1.3721	2.8030
#1	43.070	102.07	-16359.	.00490	.02074	2.5240	.01229
#2	-90.486	103.81	-16737.	.00293	.01640	2.5805	.01267
#3	27.883	104.38	-16848.	.00291	.02195	2.5886	.01300
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.32137**	**.36516**	**.01234**	**.72166**	**.54037**	**.15586**
Stddev	.00142	.00060	.00197	.00752	.00661	.00058
%RSD	.44080	.16462	15.950	1.0417	1.2229	.37118
#1	.32110	.36491	.01404	.71337	.53332	.15562
#2	.32011	.36472	.01279	.72359	.54137	.15543
#3	.32290	.36584	.01019	.72803	.54642	.15651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48556.**	**47170.**
Stddev	374.	692.
%RSD	.77083	1.4666
#1	48976.	46683.
#2	48433.	47962.
#3	48258.	46864.

Approved: March 30, 2011

Sample Name: L1103092101 Acquired: 3/29/2011 15:04:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00476**	**37.038**	**.07092**	**.18645**	**4.4340**	**.00188**
Stddev	.00089	.218	.00139	.00088	.0265	.00003
%RSD	18.736	.58798	1.9557	.46955	.59682	1.5469
#1	.00388	36.919	.07241	.18579	4.4134	.00190
#2	.00475	36.905	.07070	.18612	4.4639	.00185
#3	.00566	37.289	.06966	.18744	4.4248	.00189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1509.1**	**.03134**	**.17245**	**.07036**	**.14075**	**109.33**
Stddev	5.5	.00034	.00185	.00051	.00295	.25
%RSD	.36217	1.0732	1.0730	.72194	2.0946	.22910
#1	1511.5	.03172	.17346	.07022	.14371	109.24
#2	1502.8	.03120	.17358	.06994	.14074	109.62
#3	1513.0	.03110	.17032	.07093	.13781	109.15
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.5978**	**.25634**	**289.41**	**3.2617**	**.01432**	**3.7373**
Stddev	.0257	.00212	.65	.0092	.00023	.0190
%RSD	.55831	.82595	.22530	.28225	1.6131	.50948
#1	4.5786	.25393	288.73	3.2568	.01423	3.7243
#2	4.5880	.25791	289.48	3.2723	.01458	3.7591
#3	4.6270	.25718	290.03	3.2560	.01414	3.7284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103092101 Acquired: 3/29/2011 15:04:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09693**	**58.063**	**7.1063**	F **41.753**	F **19063.**	F **-6191e3**
Stddev	.00116	.518	.0506	22.808	135.	30024.
%RSD	1.1928	.89293	.71227	54.628	.70757	.48492
#1	.09789	58.538	7.1495	50.288	19021.	-6184e3
#2	.09726	58.141	7.1187	15.908	18954.	-6166e3
#3	.09564	57.510	7.0506	59.062	19214.	-6225e3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00743**	**.00289**	**3.3815**	**.01250**	F **13.392**	**.97215**
Stddev	.00194	.00232	.0349	.00030	.117	.00757
%RSD	26.131	80.434	1.0315	2.4098	.87662	.77896
#1	.00963	.00511	3.4111	.01270	13.344	.96444
#2	.00594	.00308	3.3903	.01265	13.526	.97958
#3	.00672	.00048	3.3431	.01216	13.306	.97244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					4.5000	
Low Limit					-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**-.00276**	**.08809**	F **65.220**	**.03660**
Stddev	.00180	.00072	.070	.00020
%RSD	65.147	.81317	.10684	.55217
#1	-.00362	.08871	65.294	.03639
#2	-.00070	.08731	65.155	.03660
#3	-.00398	.08826	65.211	.03680
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit			45.000	
Low Limit			-.01000	

Approved: March 30, 2011

Sample Name: L1103092101 Acquired: 3/29/2011 15:04:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44449.**	**46704.**
Stddev	179.	296.
%RSD	.40300	.63351
#1	44407.	46391.
#2	44646.	46979.
#3	44295.	46742.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 15:09:05 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42589**	**10.140**	**.40894**	**.51706**	**.98372**	**.05137**	**9.6574**
Stddev	.00153	.043	.00230	.00161	.00078	.00020	.0131
%RSD	.36020	.42372	.56133	.31100	.07926	.38470	.13589
#1	.42765	10.187	.41052	.51713	.98362	.05155	9.6613
#2	.42483	10.129	.41000	.51863	.98454	.05141	9.6682
#3	.42518	10.103	.40631	.51541	.98300	.05116	9.6428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05164**	**.20695**	**.51191**	**.51848**	**3.8033**	**48.995**	**.99036**
Stddev	.00021	.00062	.00301	.00226	.0069	.045	.00250
%RSD	.40912	.30143	.58710	.43501	.18074	.09264	.25244
#1	.05173	.20676	.51290	.52023	3.7990	49.020	.98810
#2	.05180	.20765	.51430	.51929	3.8112	49.021	.99304
#3	.05140	.20645	.50854	.51594	3.7996	48.942	.98994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3598**	**.46280**	**1.0046**	**49.342**	**.51251**	**10.077**	**.50722**
Stddev	.0313	.00229	.0002	.101	.00156	.024	.00147
%RSD	.33437	.49555	.01551	.20467	.30342	.23584	.28961
#1	9.3273	.46177	1.0047	49.329	.51424	10.082	.50892
#2	9.3898	.46543	1.0044	49.449	.51204	10.099	.50634
#3	9.3622	.46121	1.0046	49.248	.51124	10.052	.50640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 15:09:05 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **150.64**	**10.447**	F **-55.442**	**1.2387**	**.40328**	**5.1368**	**1.0079**
Stddev	25.83	.062	20.414	.0035	.00153	.0098	.0030
%RSD	17.146	.59576	36.821	.28103	.38001	.19006	.29547
#1	132.92	10.503	-65.668	1.2421	.40151	5.1413	1.0085
#2	180.28	10.457	-68.723	1.2389	.40408	5.1435	1.0105
#3	138.73	10.380	-31.936	1.2352	.40424	5.1256	1.0046
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96446**	**.96528**	**.52365**	**1.0351**	**.99871**	**1.0113**
Stddev	.00209	.00273	.00269	.0036	.00368	.0052
%RSD	.21705	.28248	.51321	.34671	.36863	.51852
#1	.96407	.96455	.52332	1.0384	1.0018	1.0166
#2	.96672	.96830	.52649	1.0355	.99975	1.0111
#3	.96259	.96300	.52115	1.0313	.99462	1.0061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48800.**	**45185.**
Stddev	90.	35.
%RSD	.18498	.07813
#1	48732.	45145.
#2	48765.	45206.
#3	48902.	45206.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 15:12:26 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.01400**	**-.00002**	**.00130**	**-.00034**	**.00001**	**.00465**
Stddev	.00087	.00049	.00120	.00027	.00009	.00001	.00348
%RSD	5875.4	3.5119	7474.1	20.400	28.035	153.98	74.914
#1	-.00040	.01438	-.00112	.00137	-.00041	.00000	.00859
#2	-.00063	.01345	.00125	.00153	-.00023	.00000	.00201
#3	.00098	.01419	-.00018	.00101	-.00037	.00001	.00333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00009**	**-.00029**	**-.00022**	**.00070**	**.20013**	**-.00876**
Stddev	.00011	.00009	.00019	.00013	.00145	.01260	.00236
%RSD	103.53	99.007	66.303	58.399	208.38	6.2935	26.925
#1	-.00015	.00012	-.00050	-.00017	.00223	.21444	-.00712
#2	.00002	-.00001	-.00011	-.00036	-.00066	.19072	-.00771
#3	-.00019	.00015	-.00027	-.00012	.00052	.19524	-.01147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01456**	**-.00020**	**.00001**	**-.00060**	**.00081**	**-.00052**	**.00071**
Stddev	.01576	.00017	.00005	.00764	.00035	.00176	.00035
%RSD	108.24	82.704	475.56	1281.8	42.522	339.25	49.809
#1	-.03153	-.00016	-.00004	.00024	.00041	.00142	.00107
#2	-.00036	-.00039	.00007	-.00863	.00100	-.00200	.00069
#3	-.01181	-.00006	.00001	.00659	.00103	-.00097	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 15:12:26 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **143.31**	**.18062**	F **-38.218**	**-.00031**	**-.00105**	**-.00069**	**-.00010**
Stddev	15.50	.03479	10.423	.00060	.00303	.00029	.00030
%RSD	10.814	19.261	27.272	192.35	287.71	42.630	294.81
#1	160.89	.17815	-26.856	-.00003	-.00452	-.00061	-.00044
#2	131.65	.21658	-40.463	.00009	.00032	-.00101	.00015
#3	137.37	.14714	-47.336	-.00101	.00105	-.00044	-.00002
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00067**	**.00024**	**-.00018**	**.00374**	**.00014**
Stddev	.00005	.00079	.00095	.00012	.00023	.00009
%RSD	301.13	116.97	395.32	67.563	6.2117	66.718
#1	.00002	-.00022	.00132	-.00032	.00400	.00009
#2	.00000	.00099	-.00045	-.00011	.00357	.00008
#3	-.00008	.00125	-.00015	-.00011	.00365	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49026.**	**45642.**
Stddev	67.	272.
%RSD	.13578	.59485
#1	49072.	45433.
#2	48950.	45949.
#3	49056.	45544.

Approved: March 30, 2011

Sample Name: L1103092605 Acquired: 3/29/2011 15:16:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**2.6129**	**.00285**	**.00232**	**.00405**	**.00001**	**.02668**
Stddev	.00028	.0184	.00052	.00011	.00005	.00002	.00613
%RSD	194.11	.70422	18.100	4.6079	1.2100	393.64	22.987
#1	-.00045	2.5929	.00341	.00240	.00411	-.00001	.02855
#2	.00011	2.6166	.00240	.00220	.00404	.00003	.03165
#3	-.00009	2.6291	.00274	.00237	.00401	-.00001	.01982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00087**	**.00177**	**.00215**	**4.3875**	**.24663**	**-.00499**
Stddev	.00005	.00009	.00019	.00017	.0430	.01672	.00029
%RSD	17.015	10.503	10.543	7.7104	.98046	6.7796	5.8642
#1	-.00023	.00094	.00156	.00224	4.3612	.23313	-.00525
#2	-.00032	.00090	.00185	.00225	4.3641	.24143	-.00467
#3	-.00028	.00076	.00191	.00196	4.4371	.26534	-.00503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10006**	**.02657**	**-.00007**	**.07491**	**.00175**	**.05671**	**.00174**
Stddev	.00447	.00040	.00008	.00596	.00019	.00259	.00047
%RSD	4.4699	1.5153	111.29	7.9547	10.828	4.5626	26.849
#1	.09489	.02653	-.00012	.07622	.00186	.05472	.00147
#2	.10264	.02619	-.00011	.08011	.00187	.05578	.00228
#3	.10264	.02699	.00002	.06841	.00154	.05964	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092605 Acquired: 3/29/2011 15:16:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.8489**	**.45314**	F **-128.81**	**-.00093**	**-.00034**	**.00634**	**-.00022**
Stddev	42.693	.04319	2.81	.00046	.00215	.00029	.00007
%RSD	482.47	9.5307	2.1853	49.570	623.84	4.6374	31.249
#1	55.152	.41457	-125.56	-.00070	-.00038	.00609	-.00024
#2	.34839	.49980	-130.60	-.00063	-.00248	.00627	-.00027
#3	-28.954	.44507	-130.26	-.00147	.00183	.00666	-.00014
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000				
Low Limit			-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.02839**	**.00231**	**.00774**	**.01069**	**.00080**
Stddev	.00005	.00052	.00103	.00008	.00012	.00005
%RSD	28.809	1.8385	44.591	1.0924	1.0848	6.2753
#1	.00025	.02778	.00244	.00765	.01056	.00075
#2	.00017	.02872	.00122	.00779	.01074	.00081
#3	.00015	.02865	.00327	.00780	.01078	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50716.**	**45977.**
Stddev	42.	325.
%RSD	.08354	.70669
#1	50764.	45916.
#2	50700.	46329.
#3	50684.	45688.

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 15:19:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**3.5064**	**.00325**	**.00280**	**.00473**	**-.00003**	**.00418**
Stddev	.00043	.0146	.00104	.00014	.00008	.00001	.00276
%RSD	1094.6	.41503	31.834	4.8694	1.6325	31.950	66.024
#1	-.00017	3.5182	.00206	.00266	.00465	-.00002	.00099
#2	-.00025	3.5108	.00393	.00292	.00481	-.00003	.00582
#3	.00054	3.4901	.00377	.00283	.00472	-.00003	.00573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00087**	**.00175**	**.00260**	**4.4987**	**.30233**	**-.00725**
Stddev	.00010	.00013	.00012	.00014	.0180	.00486	.00158
%RSD	30.225	15.363	6.6192	5.1955	.39993	1.6083	21.788
#1	-.00036	.00079	.00188	.00250	4.5192	.30458	-.00809
#2	-.00039	.00102	.00172	.00275	4.4916	.29676	-.00543
#3	-.00021	.00079	.00166	.00254	4.4853	.30567	-.00822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13387**	**.01969**	**-.00018**	**-.00091**	**.00186**	**.04605**	**.00137**
Stddev	.00779	.00025	.00007	.00487	.00009	.00210	.00119
%RSD	5.8179	1.2752	41.700	535.51	5.0554	4.5679	86.750
#1	.13171	.01971	-.00023	.00435	.00175	.04481	.00001
#2	.12739	.01942	-.00009	-.00527	.00193	.04485	.00223
#3	.14251	.01992	-.00022	-.00181	.00189	.04848	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 15:19:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.010**	**.25334**	F **-59.816**	**-.00172**	**-.00053**	**.00951**	**-.00017**
Stddev	86.575	.03718	.293	.00128	.00132	.00032	.00010
%RSD	127.30	14.677	.48943	74.394	247.95	3.3716	60.758
#1	150.72	.29587	-60.109	-.00126	.00079	.00945	-.00029
#2	-21.974	.23721	-59.523	-.00073	-.00054	.00923	-.00009
#3	75.288	.22695	-59.817	-.00316	-.00185	.00986	-.00014
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.03667**	**.00284**	**.00825**	**.01060**	**.00078**
Stddev	.00003	.00045	.00116	.00007	.00031	.00014
%RSD	18.522	1.2363	40.765	.80954	2.8843	17.976
#1	.00020	.03664	.00401	.00825	.01068	.00066
#2	.00014	.03714	.00169	.00831	.01026	.00076
#3	.00020	.03624	.00282	.00818	.01085	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50052.**	**46490.**
Stddev	150.	204.
%RSD	.29933	.43881
#1	49904.	46257.
#2	50048.	46637.
#3	50204.	46575.

Approved: March 30, 2011

Sample Name: L1103068624 Acquired: 3/29/2011 15:23:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**123.39**	**.14014**	**.17203**	**1.6627**	**.01521**	**61.092**
Stddev	.00024	.30	.00061	.00094	.0011	.00004	.217
%RSD	4.6185	.24134	.43290	.54818	.06452	.26775	.35583
#1	.00493	123.11	.14019	.17104	1.6628	.01520	60.871
#2	.00527	123.36	.14072	.17292	1.6617	.01519	61.099
#3	.00540	123.71	.13951	.17211	1.6638	.01526	61.305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00767**	**.16276**	**.52654**	**.15671**	**324.05**	**8.0094**	**.04631**
Stddev	.00009	.00118	.00080	.00037	1.43	.0239	.00206
%RSD	1.2100	.72571	.15129	.23501	.44070	.29849	4.4514
#1	.00765	.16218	.52630	.15668	322.51	7.9818	.04693
#2	.00776	.16411	.52589	.15710	324.29	8.0221	.04799
#3	.00758	.16197	.52743	.15636	325.34	8.0243	.04401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.174**	**10.058**	**.01709**	**.63225**	**.11043**	**6.8848**	**.49130**
Stddev	.138	.068	.00012	.00312	.00096	.0039	.00131
%RSD	.97486	.67465	.71973	.49422	.86587	.05699	.26603
#1	14.041	9.9844	.01715	.62864	.11149	6.8869	.49007
#2	14.165	10.073	.01695	.63398	.11017	6.8871	.49115
#3	14.317	10.118	.01717	.63412	.10963	6.8802	.49267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068624 Acquired: 3/29/2011 15:23:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-50.286**	F **199.82**	F **-41497.**	**.00710**	**.01572**	**2.1458**	**.01163**
Stddev	52.299	.75	90.	.00067	.00105	.0162	.00017
%RSD	104.00	.37356	.21804	9.4725	6.6582	.75339	1.4517
#1	-24.625	199.21	-41600.	.00699	.01470	2.1557	.01162
#2	-15.775	200.66	-41461.	.00649	.01680	2.1545	.01180
#3	-110.46	199.60	-41430.	.00782	.01567	2.1271	.01146
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38495**	**.22820**	**.01196**	**.62384**	**.89871**	**.09749**
Stddev	.00167	.00109	.00029	.00143	.00146	.00021
%RSD	.43457	.47879	2.4299	.22864	.16216	.21941
#1	.38303	.22698	.01169	.62240	.89810	.09746
#2	.38572	.22911	.01194	.62525	.89765	.09772
#3	.38610	.22850	.01227	.62387	.90037	.09729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46623.**	**46436.**
Stddev	135.	205.
%RSD	.28863	.44251
#1	46472.	46624.
#2	46671.	46467.
#3	46728.	46216.

Approved: March 30, 2011

Sample Name: L1103068625 Acquired: 3/29/2011 15:27:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00616**	**104.40**	**.10887**	**.14084**	**1.6580**	**.01221**	**45.361**
Stddev	.00057	.41	.00168	.00085	.0078	.00007	.293
%RSD	9.2491	.38915	1.5430	.60040	.47326	.56535	.64532
#1	.00669	104.06	.11052	.14140	1.6670	.01221	45.688
#2	.00556	104.30	.10716	.14126	1.6528	.01215	45.269
#3	.00621	104.85	.10892	.13987	1.6543	.01229	45.125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00608**	**.25276**	**.25768**	**.11871**	**267.61**	**5.5369**	**.04445**
Stddev	.00008	.00098	.00059	.00074	.31	.0265	.00134
%RSD	1.2419	.38870	.23063	.62583	.11675	.47772	3.0161
#1	.00614	.25176	.25795	.11842	267.97	5.5462	.04375
#2	.00599	.25279	.25700	.11816	267.47	5.5574	.04360
#3	.00610	.25372	.25810	.11956	267.40	5.5070	.04600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.003**	**13.310**	**.01299**	**.66248**	**.09162**	**4.0964**	**.41619**
Stddev	.031	.079	.00006	.00825	.00083	.0015	.00141
%RSD	.27728	.59702	.48557	1.2454	.90801	.03756	.33969
#1	10.969	13.398	.01302	.67033	.09141	4.0979	.41455
#2	11.028	13.291	.01292	.66324	.09092	4.0964	.41695
#3	11.011	13.242	.01304	.65388	.09254	4.0948	.41705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068625 Acquired: 3/29/2011 15:27:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.1926**	F **143.49**	F **-29437.**	**.00721**	**.01987**	**2.0912**	**.00921**
Stddev	53.914	.64	27.	.00319	.00212	.0073	.00030
%RSD	4520.8	.44541	.09267	44.252	10.687	.35136	3.2235
#1	-58.513	143.02	-29448.	.00407	.01881	2.0968	.00922
#2	48.504	143.25	-29406.	.01045	.01849	2.0828	.00950
#3	6.4306	144.22	-29457.	.00710	.02232	2.0939	.00891
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31147**	**.23462**	**.00871**	**.51809**	**.55380**	**.09923**
Stddev	.00216	.00032	.00018	.00271	.00098	.00052
%RSD	.69305	.13487	2.0806	.52233	.17684	.52277
#1	.31371	.23491	.00863	.51751	.55301	.09957
#2	.31128	.23428	.00857	.51573	.55490	.09949
#3	.30941	.23465	.00891	.52104	.55350	.09864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46998.**	**45754.**
Stddev	30.	259.
%RSD	.06461	.56522
#1	47009.	45565.
#2	46963.	45648.
#3	47021.	46049.

Approved: March 30, 2011

Sample Name: L1103068626 Acquired: 3/29/2011 15:30:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**46.687**	**.05412**	**.08050**	**.66509**	**.00349**	F **4806.6**
Stddev	.00149	.232	.00157	.00192	.00552	.00003	67.9
%RSD	175.32	.49589	2.9100	2.3868	.83010	.91087	1.4122
#1	.00114	46.825	.05559	.07970	.66278	.00348	4738.9
#2	-.00077	46.420	.05430	.08270	.67139	.00346	4806.1
#3	.00217	46.816	.05246	.07911	.66109	.00352	4874.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00932**	**.05626**	**.10041**	**.13591**	**129.88**	**5.5596**	**.34816**
Stddev	.00023	.00083	.00079	.00092	1.05	.0423	.00156
%RSD	2.4510	1.4683	.78248	.67750	.80978	.76097	.44676
#1	.00930	.05667	.09951	.13681	129.22	5.5232	.34650
#2	.00910	.05531	.10093	.13497	131.10	5.6060	.34838
#3	.00956	.05680	.10080	.13596	129.33	5.5495	.34959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**176.58**	**6.3252**	**.01050**	**2.2477**	**.15418**	**7.7511**	**.16125**
Stddev	1.07	.0797	.00028	.0047	.00044	.0224	.00250
%RSD	.60737	1.2607	2.6609	.21102	.28446	.28928	1.5496
#1	175.49	6.2623	.01080	2.2450	.15369	7.7769	.16303
#2	177.63	6.4149	.01025	2.2532	.15452	7.7372	.16232
#3	176.61	6.2985	.01044	2.2449	.15434	7.7391	.15839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068626 Acquired: 3/29/2011 15:30:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **179.12**	F **5862.7**	F **-80217.**	**.00744**	**.01763**	**3.4924**	**.00355**
Stddev	19.79	19.6	83.	.00168	.00075	.0145	.00039
%RSD	11.047	.33374	.10372	22.567	4.2604	.41614	11.081
#1	156.95	5873.4	-80313.	.00564	.01755	3.5067	.00400
#2	195.01	5840.1	-80166.	.00896	.01842	3.4930	.00337
#3	185.39	5874.6	-80171.	.00771	.01692	3.4776	.00328
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **25.175**	**.12456**	**-.00407**	**.16660**	**.62421**	**.05079**
Stddev	.068	.00174	.00078	.00068	.00088	.00015
%RSD	.27135	1.3961	19.203	.40519	.14101	.29686
#1	25.174	.12640	-.00456	.16584	.62405	.05080
#2	25.244	.12434	-.00448	.16684	.62342	.05064
#3	25.107	.12294	-.00317	.16713	.62516	.05094
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**38284.**	**41623.**
Stddev	87.	329.
%RSD	.22631	.79141
#1	38248.	41910.
#2	38383.	41263.
#3	38221.	41696.

Approved: March 30, 2011

Sample Name: L1103068627 Acquired: 3/29/2011 15:34:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00565**	**103.59**	**.11586**	**.15587**	**1.5896**	**.01291**	**96.012**
Stddev	.00091	.37	.00149	.00140	.0114	.00005	.403
%RSD	16.199	.35510	1.2821	.90077	.71532	.38746	.42012
#1	.00468	103.90	.11431	.15439	1.5779	.01294	95.663
#2	.00649	103.67	.11728	.15605	1.5902	.01294	95.919
#3	.00577	103.18	.11598	.15718	1.6006	.01285	96.453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00747**	**.16394**	**.27665**	**.11180**	**298.52**	**4.6512**	**.04326**
Stddev	.00010	.00164	.00091	.00112	1.27	.0021	.00147
%RSD	1.3053	.99855	.32749	1.0049	.42550	.04523	3.3958
#1	.00740	.16276	.27727	.11053	297.30	4.6528	.04179
#2	.00758	.16326	.27707	.11220	298.43	4.6521	.04326
#3	.00743	.16581	.27561	.11266	299.84	4.6488	.04473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.300**	**7.9019**	**.01333**	**3.7274**	**.09534**	**3.4035**	**.45303**
Stddev	.036	.0459	.00013	.0109	.00079	.0063	.00133
%RSD	.26875	.58023	.96769	.29110	.82942	.18493	.29286
#1	13.315	7.8621	.01331	3.7189	.09449	3.3962	.45166
#2	13.259	7.8917	.01322	3.7237	.09547	3.4065	.45431
#3	13.325	7.9521	.01347	3.7396	.09606	3.4077	.45313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068627 Acquired: 3/29/2011 15:34:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-2.4005**	F **203.51**	F **-32943.**	**.00604**	**.01275**	**2.3479**	**.00982**
Stddev	71.717	1.33	31.	.00224	.00198	.0127	.00034
%RSD	2987.6	.65153	.09296	37.052	15.532	.54022	3.4722
#1	69.570	202.01	-32939.	.00346	.01490	2.3333	.00989
#2	-2.9093	203.98	-32914.	.00744	.01101	2.3551	.00945
#3	-73.862	204.53	-32975.	.00721	.01233	2.3554	.01012
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58394**	**.25290**	**.01194**	**.54306**	**.64783**	**.10835**
Stddev	.00194	.00051	.00047	.00153	.00103	.00050
%RSD	.33138	.20082	3.8952	.28246	.15970	.45716
#1	.58286	.25231	.01149	.54459	.64753	.10821
#2	.58278	.25325	.01242	.54308	.64698	.10890
#3	.58617	.25313	.01192	.54152	.64898	.10794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47416.**	**46744.**
Stddev	119.	317.
%RSD	.25068	.67887
#1	47390.	46380.
#2	47312.	46962.
#3	47546.	46891.

Approved: March 30, 2011

Sample Name: L1103068628 Acquired: 3/29/2011 15:38:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00487**	**85.294**	**.09594**	**.11222**	**1.0812**	**.01091**	**179.49**
Stddev	.00044	.896	.00025	.00065	.0047	.00002	.47
%RSD	8.9617	1.0506	.26000	.58342	.43650	.22339	.26039
#1	.00534	84.301	.09576	.11166	1.0826	.01090	179.37
#2	.00448	85.539	.09583	.11294	1.0852	.01090	180.00
#3	.00479	86.042	.09622	.11207	1.0760	.01094	179.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00661**	**.12144**	**.22296**	**.08687**	**212.79**	**4.6625**	**.03823**
Stddev	.00005	.00063	.00044	.00108	.76	.0121	.00048
%RSD	.73056	.51693	.19800	1.2445	.35794	.25958	1.2556
#1	.00655	.12090	.22247	.08632	212.67	4.6689	.03786
#2	.00664	.12128	.22306	.08618	213.61	4.6700	.03806
#3	.00663	.12213	.22334	.08812	212.10	4.6485	.03878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.036**	**7.2692**	**.01261**	**2.1704**	**.07852**	**3.1795**	**.36756**
Stddev	.033	.0248	.00009	.0027	.00066	.0106	.00318
%RSD	.23745	.34045	.69879	.12582	.83765	.33436	.86454
#1	13.998	7.2540	.01270	2.1725	.07791	3.1716	.36997
#2	14.060	7.2978	.01259	2.1714	.07845	3.1753	.36396
#3	14.050	7.2559	.01253	2.1673	.07922	3.1916	.36875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068628 Acquired: 3/29/2011 15:38:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-28.101**	F **256.67**	F **-22890.**	**.00702**	**.01225**	**2.0995**	**.00805**
Stddev	43.628	1.14	59.	.00132	.00029	.0050	.00014
%RSD	155.26	.44460	.25670	18.785	2.3692	.23576	1.6979
#1	-52.436	255.86	-22831.	.00849	.01220	2.0946	.00813
#2	22.267	256.17	-22892.	.00659	.01199	2.0993	.00813
#3	-54.133	257.98	-22948.	.00597	.01256	2.1045	.00789
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.81214**	**.22716**	**.00816**	**.45565**	**.49994**	**.08916**
Stddev	.00104	.00122	.00048	.00055	.00169	.00018
%RSD	.12775	.53599	5.8880	.12032	.33779	.20299
#1	.81203	.22683	.00858	.45502	.50170	.08918
#2	.81323	.22851	.00764	.45603	.49833	.08897
#3	.81116	.22614	.00828	.45590	.49980	.08933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46653.**	**47480.**
Stddev	45.	134.
%RSD	.09714	.28294
#1	46659.	47447.
#2	46696.	47366.
#3	46606.	47628.

Approved: March 30, 2011

Sample Name: L1103068629 Acquired: 3/29/2011 15:41:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00428**	**107.25**	**.10591**	**.13925**	**1.5242**	**.01242**	**80.614**
Stddev	.00088	.38	.00085	.00040	.0023	.00003	.135
%RSD	20.498	.35347	.79825	.28864	.15214	.27074	.16722
#1	.00352	107.69	.10618	.13916	1.5223	.01244	80.564
#2	.00524	107.08	.10659	.13890	1.5268	.01245	80.767
#3	.00409	106.99	.10497	.13969	1.5236	.01239	80.512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00688**	**.10661**	**.59493**	**.14082**	**249.56**	**7.8848**	**.04501**
Stddev	.00005	.00061	.00212	.00094	.60	.0104	.00048
%RSD	.75822	.57556	.35562	.66437	.23844	.13121	1.0695
#1	.00692	.10620	.59705	.14095	249.34	7.8781	.04445
#2	.00682	.10731	.59491	.14169	250.24	7.8967	.04525
#3	.00690	.10631	.59282	.13983	249.11	7.8796	.04532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.943**	**6.3493**	**.01210**	**.62431**	**.09880**	**7.8814**	**.36882**
Stddev	.075	.0156	.00018	.00528	.00016	.0264	.00308
%RSD	.58253	.24540	1.4983	.84633	.15961	.33446	.83531
#1	12.955	6.3468	.01215	.62389	.09896	7.8547	.36579
#2	13.011	6.3660	.01191	.62980	.09879	7.9075	.37195
#3	12.862	6.3352	.01226	.61925	.09864	7.8820	.36873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068629 Acquired: 3/29/2011 15:41:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-41.897**	F **229.95**	F **-44493.**	**.00917**	**.01324**	**2.0180**	**.01034**
Stddev	63.961	1.02	72.	.00091	.00406	.0035	.00024
%RSD	152.66	.44350	.16196	9.9555	30.645	.17361	2.2881
#1	22.788	229.70	-44418.	.00930	.01661	2.0151	.01027
#2	-105.11	231.07	-44561.	.01001	.01437	2.0219	.01060
#3	-43.370	229.07	-44499.	.00819	.00874	2.0170	.01015
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47840**	**.20538**	**.00943**	**.47226**	**1.0244**	**.08521**
Stddev	.00057	.00075	.00145	.00161	.0037	.00046
%RSD	.11983	.36370	15.385	.34152	.36184	.54236
#1	.47857	.20492	.00828	.47158	1.0204	.08548
#2	.47886	.20624	.01106	.47410	1.0276	.08547
#3	.47776	.20498	.00895	.47110	1.0254	.08468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47171.**	**47143.**
Stddev	117.	372.
%RSD	.24740	.78928
#1	47205.	46937.
#2	47041.	46919.
#3	47267.	47572.

Approved: March 30, 2011

Sample Name: L1103068630 Acquired: 3/29/2011 15:45:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00391**	**101.01**	**.10464**	**.15098**	**1.2910**	**.01129**	**70.365**
Stddev	.00087	.37	.00104	.00301	.0185	.00007	1.244
%RSD	22.369	.36733	.99161	1.9935	1.4314	.57956	1.7679
#1	.00406	101.38	.10427	.15403	1.3123	.01136	71.777
#2	.00470	100.63	.10581	.14802	1.2787	.01123	69.430
#3	.00297	101.02	.10384	.15090	1.2821	.01127	69.889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00708**	**.09252**	**.25276**	**.12430**	**240.94**	**6.0986**	**.05224**
Stddev	.00003	.00015	.00201	.00040	2.67	.0931	.00120
%RSD	.39855	.16315	.79655	.31780	1.1086	1.5262	2.2873
#1	.00710	.09235	.25279	.12393	243.95	6.2059	.05358
#2	.00705	.09265	.25073	.12471	238.83	6.0498	.05128
#3	.00710	.09255	.25476	.12426	240.05	6.0400	.05188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.609**	**4.8108**	**.01064**	**1.4224**	**.08945**	**6.3876**	**.33306**
Stddev	.119	.0688	.00028	.0285	.00014	.0174	.00378
%RSD	1.0253	1.4294	2.6476	2.0038	.15323	.27179	1.1350
#1	11.726	4.8870	.01096	1.4548	.08951	6.3833	.33137
#2	11.488	4.7532	.01043	1.4014	.08954	6.4067	.33739
#3	11.613	4.7923	.01053	1.4109	.08929	6.3727	.33043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068630 Acquired: 3/29/2011 15:45:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-86.264**	F **239.51**	F **-50300.**	**.00608**	**.01361**	**2.2990**	**.01402**
Stddev	75.150	.33	144.	.00147	.00192	.0209	.00034
%RSD	87.116	.13982	.28671	24.230	14.142	.91056	2.4485
#1	-6.3862	239.22	-50386.	.00471	.01326	2.3227	.01434
#2	-96.842	239.88	-50382.	.00764	.01569	2.2915	.01366
#3	-155.57	239.43	-50134.	.00589	.01189	2.2829	.01405
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43773**	**.22185**	**.01039**	**.45881**	**.64322**	**.08736**
Stddev	.00855	.00379	.00172	.00100	.00069	.00006
%RSD	1.9532	1.7069	16.568	.21821	.10719	.07015
#1	.44750	.22620	.00936	.45773	.64243	.08741
#2	.43160	.22004	.01238	.45971	.64349	.08729
#3	.43410	.21930	.00944	.45899	.64373	.08737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47120.**	**46271.**
Stddev	25.	395.
%RSD	.05375	.85359
#1	47094.	45852.
#2	47145.	46637.
#3	47121.	46325.

Approved: March 30, 2011

Sample Name: L1103068631 Acquired: 3/29/2011 15:48:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00613**	**92.262**	**.12848**	**.13969**	**1.7215**	**.01165**	**36.399**
Stddev	.00071	.439	.00186	.00086	.0064	.00003	.058
%RSD	11.505	.47561	1.4466	.61877	.37367	.29825	.15937
#1	.00683	92.248	.12659	.13869	1.7273	.01162	36.337
#2	.00542	92.708	.12854	.14023	1.7227	.01164	36.452
#3	.00614	91.831	.13031	.14015	1.7146	.01169	36.409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00586**	**.18367**	**.31131**	**.10688**	**272.07**	**6.9594**	**.03269**
Stddev	.00005	.00058	.00075	.00097	.47	.0200	.00120
%RSD	.91385	.31514	.24032	.90348	.17434	.28716	3.6662
#1	.00589	.18434	.31192	.10779	271.52	6.9641	.03401
#2	.00580	.18333	.31048	.10697	272.32	6.9766	.03242
#3	.00590	.18335	.31154	.10586	272.36	6.9374	.03166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3995**	**12.421**	**.01517**	**1.4738**	**.08454**	**10.756**	**.39160**
Stddev	.0715	.044	.00006	.0027	.00030	.021	.00212
%RSD	.76088	.35066	.41658	.18012	.35554	.19422	.54206
#1	9.3178	12.372	.01517	1.4719	.08488	10.780	.39020
#2	9.4301	12.455	.01524	1.4726	.08430	10.747	.39404
#3	9.4506	12.435	.01511	1.4768	.08445	10.741	.39057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068631 Acquired: 3/29/2011 15:48:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-9.9663**	F **199.88**	F **-47825.**	**.00474**	**.02158**	**1.9935**	**.00969**
Stddev	45.441	1.19	105.	.00224	.00120	.0099	.00009
%RSD	455.94	.59285	.22025	47.281	5.5573	.49567	.97674
#1	-59.493	201.11	-47944.	.00378	.02296	2.0045	.00973
#2	29.805	198.75	-47743.	.00314	.02075	1.9909	.00958
#3	-.2114	199.78	-47788.	.00730	.02104	1.9853	.00975
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21223**	**.30776**	**.01131**	**.60619**	**.81486**	**.08499**
Stddev	.00024	.00057	.00091	.00116	.00015	.00049
%RSD	.11121	.18392	8.0277	.19108	.01836	.58151
#1	.21230	.30745	.01231	.60498	.81501	.08452
#2	.21242	.30743	.01053	.60631	.81487	.08495
#3	.21197	.30842	.01111	.60729	.81471	.08551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47196.**	**46567.**
Stddev	59.	153.
%RSD	.12412	.32896
#1	47133.	46737.
#2	47206.	46524.
#3	47248.	46439.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 15:52:34 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43279**	**10.193**	**.41064**	**.52167**	**.97950**	**.05243**	**9.5428**
Stddev	.00027	.021	.00095	.00091	.00301	.00010	.0152
%RSD	.06168	.20802	.23119	.17484	.30756	.18276	.15954
#1	.43256	10.213	.41097	.52228	.98282	.05250	9.5587
#2	.43308	10.194	.40957	.52062	.97876	.05232	9.5412
#3	.43274	10.171	.41137	.52211	.97693	.05246	9.5284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05190**	**.20818**	**.52106**	**.52089**	**3.7555**	**48.606**	**.99010**
Stddev	.00020	.00058	.00181	.00144	.0182	.091	.00312
%RSD	.38211	.27926	.34739	.27647	.48410	.18791	.31543
#1	.05196	.20802	.52243	.52106	3.7669	48.712	.99313
#2	.05168	.20769	.51900	.51937	3.7345	48.551	.99029
#3	.05207	.20882	.52174	.52223	3.7650	48.556	.98689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2540**	**.45862**	**1.0132**	**49.030**	**.51580**	**10.152**	**.51237**
Stddev	.0622	.00117	.0009	.065	.00135	.019	.00158
%RSD	.67248	.25596	.08657	.13214	.26188	.18430	.30804
#1	9.3254	.45991	1.0142	49.089	.51615	10.147	.51202
#2	9.2255	.45763	1.0126	49.039	.51431	10.136	.51099
#3	9.2111	.45831	1.0129	48.961	.51694	10.172	.51409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 15:52:34 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **76.604**	**10.286**	F **2.3628**	**1.2467**	**.40809**	**5.1605**	**1.0161**
Stddev	59.583	.038	5.5384	.0014	.00226	.0123	.0021
%RSD	77.780	.37171	234.40	.11030	.55431	.23735	.20880
#1	141.81	10.304	-1.2549	1.2483	.41046	5.1617	1.0161
#2	62.993	10.243	-.39538	1.2460	.40787	5.1477	1.0140
#3	25.004	10.313	8.7387	1.2457	.40595	5.1721	1.0183
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95796**	**.95705**	**.52486**	**1.0509**	**1.0070**	**1.0200**
Stddev	.00141	.00143	.00020	.0021	.0010	.0009
%RSD	.14739	.14970	.03876	.20268	.09965	.08822
#1	.95915	.95868	.52464	1.0532	1.0080	1.0210
#2	.95832	.95647	.52504	1.0490	1.0060	1.0192
#3	.95640	.95599	.52489	1.0505	1.0069	1.0198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48819.**	**45540.**
Stddev	105.	287.
%RSD	.21606	.62976
#1	48911.	45437.
#2	48842.	45864.
#3	48704.	45319.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 15:55:55 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00921**	**.00050**	**.00134**	**-.00041**	**.00001**	**.00455**
Stddev	.00005	.00143	.00115	.00089	.00011	.00001	.00463
%RSD	56.379	15.524	228.00	66.664	27.709	119.59	101.77
#1	-.00004	.01075	.00174	.00235	-.00036	.00002	.00641
#2	-.00013	.00894	.00030	.00101	-.00032	.00000	.00796
#3	-.00008	.00793	-.00053	.00066	-.00053	.00001	-.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00000**	**-.00049**	**-.00016**	**-.00168**	**.16759**	**-.00588**
Stddev	.00011	.0001	.00011	.00023	.00108	.00826	.00115
%RSD	107.23	13686.	22.864	144.26	64.239	4.9301	19.626
#1	-.00011	-.00003	-.00036	-.00014	-.00149	.17629	-.00579
#2	-.00020	.00013	-.00053	-.00040	-.00285	.15985	-.00478
#3	.00001	-.00010	-.00057	.00006	-.00071	.16664	-.00708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01867**	**-.00028**	**.00010**	**-.00045**	**.00069**	**-.00068**	**-.00027**
Stddev	.00741	.00007	.00005	.00478	.00021	.00036	.00126
%RSD	39.692	23.373	51.889	1056.8	30.695	53.069	469.54
#1	-.01147	-.00035	.00011	-.00150	.00045	-.00100	-.00047
#2	-.01826	-.00022	.00004	-.00462	.00083	-.00077	-.00141
#3	-.02627	-.00027	.00014	.00477	.00080	-.00029	.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 15:55:55 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **117.91**	**.02090**	F **11.461**	**-.00126**	**.00072**	**-.00163**	**-.00027**
Stddev	48.82	.02360	4.398	.00059	.00025	.00047	.00020
%RSD	41.407	112.91	38.373	47.190	34.269	28.983	73.141
#1	62.520	-.00608	9.8016	-.00137	.00095	-.00126	-.00036
#2	154.70	.03111	8.1342	-.00062	.00077	-.00216	-.00042
#3	136.50	.03768	16.447	-.00179	.00046	-.00146	-.00004
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00150**	**-.00004**	**-.00026**	**.00379**	**.00033**
Stddev	.00003	.00056	.00030	.00025	.00033	.00012
%RSD	33.365	37.475	793.89	99.090	8.6683	35.973
#1	-.00012	.00168	-.00034	-.00052	.00356	.00044
#2	-.00006	.00195	.00026	-.00001	.00364	.00034
#3	-.00009	.00087	-.00003	-.00023	.00416	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49311.**	**44994.**
Stddev	55.	86.
%RSD	.11126	.19128
#1	49328.	45063.
#2	49355.	45021.
#3	49249.	44898.

Approved: March 30, 2011

Sample Name: L1103068632S Acquired: 3/29/2011 15:59:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20489**	**90.887**	**.31211**	**.14733**	**1.8002**	**.01198**	**39.481**
Stddev	.00152	.432	.00216	.00079	.0062	.00004	.256
%RSD	.74341	.47551	.69087	.53546	.34483	.32289	.64964
#1	.20572	90.682	.31116	.14699	1.8074	.01201	39.769
#2	.20313	90.595	.31060	.14676	1.7965	.01194	39.395
#3	.20582	91.383	.31458	.14823	1.7968	.01199	39.278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03051**	**.46335**	**.26855**	**.36111**	**285.54**	**7.0811**	**.03241**
Stddev	.00019	.00268	.00124	.00204	.83	.0296	.00079
%RSD	.62809	.57915	.46041	.56576	.29175	.41734	2.4402
#1	.03032	.46115	.26736	.36005	285.32	7.1152	.03295
#2	.03051	.46256	.26846	.35981	284.84	7.0653	.03277
#3	.03070	.46634	.26982	.36346	286.46	7.0629	.03150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6536**	**22.577**	**.01703**	**1.5500**	**.10885**	**13.096**	**.71566**
Stddev	.0473	.127	.00003	.0127	.00117	.021	.00658
%RSD	.49039	.56316	.15121	.82256	1.0757	.15660	.91935
#1	9.6200	22.721	.01702	1.5632	.10750	13.085	.70815
#2	9.6331	22.480	.01701	1.5489	.10957	13.083	.71839
#3	9.7077	22.531	.01706	1.5378	.10948	13.119	.72043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068632S Acquired: 3/29/2011 15:59:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-39.953**	F **218.01**	F **-52488.**	**.00442**	**.02830**	**2.2396**	**.00936**
Stddev	28.494	1.67	80.	.00055	.00178	.0043	.00027
%RSD	71.319	.76783	.15209	12.499	6.2869	.19423	2.9117
#1	-61.306	216.68	-52558.	.00398	.03035	2.2411	.00938
#2	-50.956	217.46	-52401.	.00504	.02741	2.2346	.00962
#3	-7.5981	219.89	-52505.	.00423	.02714	2.2429	.00908
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23070**	**.32789**	**.00833**	**.59247**	**.90270**	**.08363**
Stddev	.00151	.00130	.00116	.00269	.00323	.00023
%RSD	.65462	.39798	13.874	.45400	.35783	.27602
#1	.23231	.32930	.00868	.59442	.89936	.08352
#2	.23049	.32764	.00704	.58940	.90293	.08347
#3	.22931	.32673	.00927	.59359	.90581	.08389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46936.**	**46725.**
Stddev	58.	225.
%RSD	.12455	.48132
#1	46871.	46559.
#2	46985.	46981.
#3	46951.	46635.

Approved: March 30, 2011

Sample Name: L1103068633SD Acquired: 3/29/2011 16:03:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19422**	**93.732**	**.29821**	**.13195**	**1.3558**	**.01048**	**36.198**
Stddev	.00087	.404	.00156	.00073	.0082	.00004	.179
%RSD	.44608	.43134	.52380	.55123	.60375	.38877	.49370
#1	.19472	94.193	.29958	.13255	1.3652	.01049	36.391
#2	.19472	93.564	.29651	.13217	1.3522	.01043	36.039
#3	.19322	93.439	.29854	.13114	1.3500	.01051	36.162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02993**	**.08663**	**.28661**	**.34567**	**248.39**	**7.1571**	**.03461**
Stddev	.00013	.00020	.00247	.00156	.57	.0273	.00093
%RSD	.43410	.22679	.86296	.45004	.22961	.38187	2.6728
#1	.03007	.08677	.28750	.34708	248.97	7.1844	.03568
#2	.02982	.08641	.28382	.34400	247.83	7.1297	.03416
#3	.02989	.08672	.28852	.34593	248.38	7.1572	.03401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7750**	**4.6481**	**.01436**	**1.4906**	**.07679**	**10.163**	**.53834**
Stddev	.0184	.0195	.00015	.0064	.00079	.016	.00155
%RSD	.18816	.41997	1.0160	.43016	1.0234	.15893	.28726
#1	9.7735	4.6660	.01422	1.4907	.07768	10.181	.53961
#2	9.7574	4.6273	.01451	1.4841	.07647	10.156	.53662
#3	9.7941	4.6512	.01434	1.4970	.07621	10.151	.53879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068633SD Acquired: 3/29/2011 16:03:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.459**	F **194.45**	F **-46489.**	**.00637**	**.02024**	**2.3426**	**.00924**
Stddev	14.927	.76	87.	.00163	.00229	.0126	.00016
%RSD	26.916	.39155	.18655	25.606	11.323	.53659	1.7253
#1	-59.302	195.06	-46587.	.00451	.02066	2.3445	.00942
#2	-38.986	193.60	-46423.	.00706	.02229	2.3541	.00912
#3	-68.089	194.70	-46457.	.00755	.01776	2.3292	.00917
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21502**	**.34916**	**.01185**	**.54095**	**.76497**	**.08688**
Stddev	.00095	.00040	.00057	.00053	.00132	.00015
%RSD	.44334	.11379	4.8023	.09798	.17320	.16754
#1	.21610	.34934	.01133	.54090	.76344	.08678
#2	.21430	.34944	.01177	.54045	.76573	.08705
#3	.21467	.34871	.01246	.54150	.76573	.08681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47348.**	**46468.**
Stddev	80.	108.
%RSD	.16964	.23317
#1	47276.	46408.
#2	47332.	46593.
#3	47435.	46403.

Approved: March 30, 2011

Sample Name: L1103068634 Acquired: 3/29/2011 16:06:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00816**	**94.202**	**.13997**	**.15185**	**1.6134**	**.01328**	**22.736**
Stddev	.00046	.381	.00175	.00086	.0054	.00006	.108
%RSD	5.6828	.40439	1.2518	.56311	.33454	.43888	.47654
#1	.00831	93.783	.13812	.15133	1.6163	.01330	22.798
#2	.00854	94.293	.14161	.15284	1.6168	.01332	22.799
#3	.00764	94.528	.14019	.15138	1.6072	.01321	22.611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00570**	**.33294**	**.28951**	**.07992**	**307.71**	**4.5438**	**.02974**
Stddev	.00005	.00169	.00169	.00083	.85	.0306	.00096
%RSD	.79104	.50759	.58504	1.0395	.27732	.67358	3.2348
#1	.00565	.33113	.28974	.07898	307.78	4.5665	.02899
#2	.00574	.33323	.29107	.08025	308.52	4.5559	.02940
#3	.00570	.33447	.28771	.08054	306.82	4.5090	.03082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.9948**	**15.701**	**.01680**	**3.4181**	**.08736**	**4.4882**	**.49588**
Stddev	.0305	.072	.00018	.0120	.00042	.0156	.00186
%RSD	.33958	.45992	1.0944	.35055	.47685	.34759	.37436
#1	8.9875	15.723	.01685	3.4121	.08780	4.4715	.49432
#2	9.0284	15.759	.01660	3.4319	.08731	4.4905	.49538
#3	8.9686	15.620	.01695	3.4103	.08697	4.5025	.49793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068634 Acquired: 3/29/2011 16:06:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-4.1434**	F **92.640**	F **-19899.**	**.00486**	**.02245**	**1.4436**	**.00832**
Stddev	22.049	.734	100.	.00098	.00086	.0042	.00062
%RSD	532.16	.79191	.50043	20.056	3.8466	.28854	7.4331
#1	-27.507	91.836	-19828.	.00597	.02306	1.4392	.00880
#2	-1.2250	92.808	-19856.	.00413	.02283	1.4475	.00762
#3	16.302	93.274	-20013.	.00449	.02147	1.4441	.00855
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17551**	**.22072**	**.01323**	**.68476**	**.40774**	**.09151**
Stddev	.00054	.00082	.00123	.00174	.00087	.00014
%RSD	.30870	.37290	9.2750	.25417	.21250	.15794
#1	.17560	.22016	.01463	.68292	.40675	.09143
#2	.17601	.22166	.01275	.68498	.40820	.09142
#3	.17493	.22032	.01232	.68638	.40829	.09168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47625.**	**47333.**
Stddev	49.	417.
%RSD	.10328	.88047
#1	47667.	47032.
#2	47571.	47159.
#3	47638.	47809.

Approved: March 30, 2011

Sample Name: L1103068635 Acquired: 3/29/2011 16:10:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**110.65**	**.10934**	**.12257**	**1.8338**	**.01078**	**459.53**
Stddev	.00020	.19	.00081	.00051	.0008	.00003	3.65
%RSD	4.8208	.16831	.74305	.41900	.04283	.31538	.79466
#1	.00442	110.65	.10897	.12272	1.8329	.01074	461.91
#2	.00409	110.47	.11027	.12300	1.8342	.01078	461.36
#3	.00405	110.84	.10878	.12200	1.8342	.01081	455.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00623**	**.11959**	**.23391**	**.16317**	**222.21**	**12.248**	**.06041**
Stddev	.00008	.00040	.00034	.00092	.63	.018	.00115
%RSD	1.3500	.33717	.14683	.56184	.28501	.14379	1.8994
#1	.00625	.11927	.23423	.16263	221.70	12.235	.05920
#2	.00615	.11946	.23394	.16264	222.00	12.268	.06057
#3	.00631	.12004	.23355	.16422	222.92	12.241	.06147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.034**	**6.7938**	**.01384**	**1.2977**	**.10960**	**20.088**	**.29670**
Stddev	.119	.0190	.00029	.0134	.00048	.041	.00129
%RSD	.47543	.27969	2.0834	1.0309	.43379	.20509	.43449
#1	25.007	6.7729	.01351	1.2894	.10954	20.049	.29534
#2	24.930	6.7983	.01405	1.3131	.11010	20.085	.29687
#3	25.164	6.8101	.01395	1.2905	.10915	20.131	.29790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068635 Acquired: 3/29/2011 16:10:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-58.358**	F **726.34**	F **-82141.**	**.00611**	**.02120**	**1.9491**	**.01010**
Stddev	24.868	1.67	61.	.00176	.00392	.0052	.00017
%RSD	42.612	.23057	.07423	28.857	18.487	.26706	1.6804
#1	-86.341	724.98	-82086.	.00642	.01947	1.9493	.01028
#2	-49.946	725.82	-82132.	.00769	.01845	1.9542	.01008
#3	-38.788	728.21	-82206.	.00421	.02569	1.9438	.00994
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6692**	**.24947**	**.01028**	**.47227**	**1.5287**	**.08645**
Stddev	.0034	.00078	.00137	.00114	.0049	.00022
%RSD	.20238	.31168	13.311	.24188	.31835	.25307
#1	1.6696	.24995	.01041	.47104	1.5337	.08651
#2	1.6723	.24857	.01158	.47247	1.5240	.08664
#3	1.6656	.24989	.00885	.47330	1.5284	.08621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45679.**	**46533.**
Stddev	73.	180.
%RSD	.16010	.38604
#1	45616.	46515.
#2	45759.	46721.
#3	45662.	46363.

Approved: March 30, 2011

Sample Name: L1103068636 Acquired: 3/29/2011 16:14:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00388**	**116.42**	**.11627**	**.13108**	**1.8953**	**.01259**	**50.107**
Stddev	.00032	.94	.00183	.00106	.0022	.00002	.099
%RSD	8.2938	.80987	1.5751	.80485	.11456	.14904	.19811
#1	.00425	116.50	.11420	.13158	1.8973	.01257	50.206
#2	.00367	115.44	.11768	.13180	1.8956	.01259	50.007
#3	.00372	117.32	.11694	.12987	1.8929	.01260	50.107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00585**	**.07591**	**.28180**	**.14587**	**252.48**	**8.6835**	**.04386**
Stddev	.00011	.00051	.00087	.00170	.30	.0301	.00057
%RSD	1.8602	.66594	.31020	1.1684	.11975	.34669	1.2955
#1	.00582	.07646	.28170	.14774	252.80	8.7158	.04321
#2	.00598	.07579	.28273	.14545	252.44	8.6562	.04411
#3	.00576	.07547	.28099	.14441	252.19	8.6785	.04426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.967**	**4.7012**	**.01357**	**1.2970**	**.09447**	**15.116**	**.28355**
Stddev	.017	.0098	.00027	.0079	.00027	.082	.00234
%RSD	.14260	.20733	2.0021	.60710	.28495	.54106	.82353
#1	11.956	4.7124	.01336	1.3029	.09474	15.193	.28582
#2	11.959	4.6948	.01387	1.2881	.09446	15.125	.28368
#3	11.987	4.6964	.01346	1.3001	.09420	15.030	.28115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068636 Acquired: 3/29/2011 16:14:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-2.5016**	F **182.71**	F **-39146.**	**.00453**	**.01512**	**2.0569**	**.01007**
Stddev	48.585	1.62	239.	.00238	.00202	.0158	.00036
%RSD	1942.2	.88514	.61126	52.506	13.391	.76884	3.5969
#1	53.591	184.30	-39309.	.00599	.01494	2.0722	.01037
#2	-31.417	182.78	-39258.	.00178	.01723	2.0577	.01017
#3	-29.679	181.06	-38871.	.00581	.01319	2.0406	.00967
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27267**	**.26702**	**.01313**	**.55809**	**1.1511**	**.09379**
Stddev	.00084	.00100	.00051	.00215	.0041	.00021
%RSD	.30782	.37584	3.8928	.38512	.35472	.22093
#1	.27324	.26705	.01266	.55565	1.1542	.09399
#2	.27171	.26600	.01307	.55969	1.1527	.09357
#3	.27306	.26800	.01367	.55894	1.1465	.09382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48039.**	**47344.**
Stddev	223.	378.
%RSD	.46465	.79768
#1	47807.	46920.
#2	48056.	47466.
#3	48253.	47645.

Approved: March 30, 2011

Sample Name: L1103068640 Acquired: 3/29/2011 16:17:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00385**	**129.90**	**.11051**	**.14009**	**2.4080**	**.01473**	**47.950**
Stddev	.00048	3.26	.00019	.00120	.0138	.00006	.361
%RSD	12.553	2.5075	.17225	.85661	.57333	.38418	.75287
#1	.00334	126.54	.11060	.14122	2.4211	.01466	48.326
#2	.00391	133.04	.11030	.14020	2.4094	.01477	47.917
#3	.00429	130.12	.11064	.13883	2.3936	.01474	47.606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00548**	**.10338**	**.29399**	**.10350**	**276.75**	**5.4397**	**.04457**
Stddev	.00006	.00046	.00194	.00047	1.64	.0514	.00046
%RSD	1.0361	.44926	.65911	.45026	.59421	.94406	1.0426
#1	.00550	.10284	.29528	.10314	278.20	5.4950	.04508
#2	.00552	.10368	.29492	.10403	277.08	5.4307	.04416
#3	.00541	.10362	.29176	.10333	274.96	5.3935	.04447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.586**	**4.9635**	**.01413**	**1.9460**	**.10618**	**2.3982**	**.26348**
Stddev	.101	.0497	.00002	.0137	.00067	.0020	.00258
%RSD	.64944	1.0015	.10675	.70540	.63037	.08207	.97908
#1	15.703	5.0123	.01415	1.9619	.10689	2.3990	.26584
#2	15.532	4.9654	.01412	1.9371	.10609	2.3996	.26072
#3	15.523	4.9129	.01413	1.9392	.10556	2.3959	.26387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068640 Acquired: 3/29/2011 16:17:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-31.762**	F **114.75**	F **-19226.**	**.00446**	**.01305**	**2.0303**	**.01006**
Stddev	19.375	.10	39.	.00060	.00060	.0086	.00050
%RSD	61.000	.08821	.20419	13.520	4.6223	.42387	4.9239
#1	-43.216	114.63	-19193.	.00512	.01239	2.0205	.00949
#2	-9.3920	114.82	-19217.	.00433	.01357	2.0368	.01032
#3	-42.678	114.79	-19269.	.00394	.01319	2.0336	.01037
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.35418**	**.18169**	**.01215**	**.57836**	**.33083**	**.12307**
Stddev	.00226	.00113	.00114	.00126	.00452	.00035
%RSD	.63697	.61940	9.3438	.21857	1.3675	.28842
#1	.35658	.18293	.01135	.57797	.33603	.12346
#2	.35386	.18142	.01165	.57978	.32779	.12299
#3	.35211	.18073	.01345	.57734	.32868	.12276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48079.**	**46459.**
Stddev	133.	589.
%RSD	.27696	1.2687
#1	48157.	45851.
#2	47925.	46497.
#3	48154.	47028.

Approved: March 30, 2011

Sample Name: L1103068641 Acquired: 3/29/2011 16:21:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00421**	**126.12**	**.13599**	**.14116**	**1.9091**	**.01269**	**43.841**
Stddev	.00085	.95	.00195	.00036	.0086	.00001	.176
%RSD	20.228	.75702	1.4364	.25342	.45192	.06879	.40221
#1	.00347	127.23	.13375	.14139	1.9003	.01269	43.650
#2	.00514	125.61	.13685	.14075	1.9094	.01270	43.874
#3	.00402	125.53	.13735	.14135	1.9175	.01269	43.998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00690**	**.07861**	**.30747**	**.11291**	**266.92**	**8.1872**	**.05459**
Stddev	.00006	.00035	.00146	.00060	1.32	.0497	.00148
%RSD	.82450	.44130	.47412	.53326	.49357	.60722	2.7180
#1	.00691	.07901	.30662	.11321	265.78	8.1567	.05365
#2	.00696	.07837	.30915	.11330	266.63	8.1602	.05382
#3	.00684	.07845	.30663	.11222	268.37	8.2445	.05630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.109**	**4.4494**	**.01344**	**.64157**	**.09526**	**5.2208**	**.32976**
Stddev	.055	.0267	.00014	.00527	.00026	.0065	.00104
%RSD	.41844	.60050	1.0294	.82169	.27374	.12508	.31567
#1	13.121	4.4215	.01360	.64720	.09496	5.2159	.32963
#2	13.049	4.4518	.01335	.63675	.09543	5.2282	.33086
#3	13.157	4.4748	.01338	.64076	.09539	5.2183	.32879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068641 Acquired: 3/29/2011 16:21:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-43.023**	F **183.17**	F **-40018.**	**.00554**	**.01434**	**2.1797**	**.01031**
Stddev	30.480	.05	306.	.00133	.00119	.0047	.00016
%RSD	70.845	.02624	.76384	24.049	8.2741	.21671	1.5705
#1	-66.059	183.12	-39666.	.00701	.01359	2.1782	.01019
#2	-8.4611	183.17	-40221.	.00522	.01571	2.1850	.01025
#3	-54.549	183.21	-40167.	.00440	.01373	2.1759	.01050
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30384**	**.26857**	**.01264**	**.58310**	**.57991**	**.11457**
Stddev	.00107	.00073	.00198	.00121	.00170	.00025
%RSD	.35239	.27056	15.639	.20737	.29295	.22115
#1	.30263	.26821	.01424	.58175	.57796	.11435
#2	.30423	.26808	.01043	.58407	.58112	.11452
#3	.30467	.26940	.01324	.58350	.58063	.11485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47905.**	**48815.**
Stddev	80.	243.
%RSD	.16602	.49840
#1	47845.	48649.
#2	47874.	49094.
#3	47995.	48702.

Approved: March 30, 2011

Sample Name: L1103068642 Acquired: 3/29/2011 16:25:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**121.88**	**.12299**	**.13458**	**2.1555**	**.01317**	**42.318**
Stddev	.00019	.73	.00136	.00080	.0089	.00005	.327
%RSD	4.8584	.59946	1.1086	.59535	.41233	.40797	.77177
#1	.00362	121.71	.12151	.13395	2.1461	.01311	42.040
#2	.00398	122.68	.12329	.13432	2.1565	.01319	42.236
#3	.00389	121.25	.12418	.13548	2.1638	.01322	42.678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00642**	**.08390**	**.26189**	**.10749**	**259.46**	**6.2439**	**.04731**
Stddev	.00004	.00047	.00171	.00109	1.51	.0371	.00122
%RSD	.65804	.55948	.65184	1.0186	.58229	.59472	2.5874
#1	.00643	.08338	.25998	.10627	258.00	6.2016	.04802
#2	.00645	.08402	.26326	.10837	259.36	6.2587	.04801
#3	.00637	.08430	.26244	.10785	261.02	6.2713	.04590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.636**	**4.3730**	**.01330**	**1.1472**	**.09664**	**3.4830**	**.31623**
Stddev	.115	.0447	.00013	.0072	.00055	.0121	.00255
%RSD	.84656	1.0218	.95539	.63080	.56626	.34819	.80590
#1	13.529	4.3342	.01332	1.1393	.09603	3.4692	.31463
#2	13.621	4.3629	.01316	1.1536	.09678	3.4880	.31489
#3	13.759	4.4219	.01341	1.1486	.09710	3.4919	.31917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068642 Acquired: 3/29/2011 16:25:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-14.398**	F **133.56**	F **-26546.**	**.00576**	**.01420**	**1.8792**	**.01051**
Stddev	45.219	1.18	42.	.00140	.00104	.0038	.00017
%RSD	314.05	.88567	.15841	24.283	7.3317	.20221	1.6277
#1	34.309	132.20	-26514.	.00486	.01515	1.8751	.01040
#2	-22.461	134.13	-26593.	.00737	.01437	1.8826	.01070
#3	-55.043	134.35	-26530.	.00505	.01309	1.8798	.01042
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31297**	**.22569**	**.01300**	**.54446**	**.47218**	**.11359**
Stddev	.00195	.00161	.00303	.00196	.00196	.00072
%RSD	.62156	.71176	23.328	.35991	.41540	.63620
#1	.31117	.22439	.01338	.54227	.47001	.11276
#2	.31269	.22519	.00979	.54509	.47270	.11391
#3	.31503	.22749	.01582	.54603	.47382	.11409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48136.**	**47459.**
Stddev	90.	241.
%RSD	.18717	.50695
#1	48236.	47596.
#2	48062.	47599.
#3	48109.	47181.

Approved: March 30, 2011

Sample Name: L1103068643 Acquired: 3/29/2011 16:28:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00472**	**79.049**	**.29158**	**.12362**	**1.4617**	**.01013**	**243.18**
Stddev	.00080	.539	.00139	.00033	.0039	.00006	.85
%RSD	16.923	.68200	.47525	.26408	.26908	.55654	.34888
#1	.00519	79.594	.29312	.12324	1.4591	.01007	242.99
#2	.00380	79.037	.29117	.12374	1.4662	.01015	244.11
#3	.00517	78.516	.29044	.12386	1.4597	.01017	242.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00929**	**.12688**	**.24824**	**.10680**	**221.68**	**8.1567**	**.03377**
Stddev	.00011	.00036	.00090	.00016	.42	.0025	.00090
%RSD	1.1722	.28758	.36272	.15347	.18993	.03047	2.6740
#1	.00932	.12704	.24898	.10693	221.64	8.1547	.03348
#2	.00938	.12714	.24724	.10661	222.11	8.1559	.03478
#3	.00917	.12647	.24850	.10684	221.27	8.1595	.03305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.222**	**6.8309**	**.01366**	**.70172**	**.08177**	**6.3476**	**.38954**
Stddev	.038	.0321	.00009	.00443	.00036	.0047	.00197
%RSD	.30719	.46952	.67672	.63189	.43923	.07420	.50600
#1	12.195	6.8268	.01355	.70409	.08176	6.3438	.38754
#2	12.206	6.8648	.01371	.70447	.08141	6.3529	.39148
#3	12.265	6.8011	.01372	.69661	.08213	6.3462	.38959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068643 Acquired: 3/29/2011 16:28:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-14.451**	F **437.10**	F **-54087.**	**.00864**	**.01538**	**2.3239**	**.01091**
Stddev	38.560	.76	100.	.00052	.00227	.0104	.00010
%RSD	266.83	.17495	.18400	6.0054	14.740	.44778	.93525
#1	-24.243	437.96	-54138.	.00821	.01406	2.3139	.01083
#2	28.061	436.85	-54151.	.00850	.01409	2.3231	.01087
#3	-47.171	436.50	-53973.	.00922	.01800	2.3347	.01102
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.82919**	**.28329**	**.01008**	**.51198**	**.62102**	**.08314**
Stddev	.00299	.00092	.00124	.00210	.00144	.00021
%RSD	.36034	.32625	12.310	.41002	.23220	.24903
#1	.82783	.28347	.00971	.50972	.62234	.08290
#2	.83261	.28411	.00907	.51387	.62124	.08324
#3	.82712	.28229	.01147	.51234	.61948	.08327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46144.**	**47235.**
Stddev	84.	212.
%RSD	.18275	.44893
#1	46053.	47011.
#2	46161.	47262.
#3	46219.	47432.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 16:32:15 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43247**	**10.159**	**.41639**	**.52005**	**.98620**	**.05235**	**9.5459**
Stddev	.00219	.011	.00232	.00019	.00015	.00020	.0329
%RSD	.50549	.11242	.55752	.03571	.01494	.37815	.34458
#1	.43291	10.162	.41907	.52007	.98624	.05255	9.5535
#2	.43010	10.168	.41499	.52022	.98633	.05216	9.5098
#3	.43440	10.146	.41510	.51985	.98604	.05232	9.5743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05221**	**.20994**	**.51949**	**.52593**	**3.7592**	**48.841**	**.99905**
Stddev	.00021	.00022	.00153	.00078	.0045	.222	.00146
%RSD	.39507	.10319	.29440	.14770	.12020	.45533	.14588
#1	.05239	.21013	.52123	.52682	3.7540	48.969	1.0005
#2	.05199	.20999	.51838	.52544	3.7612	48.584	.99761
#3	.05225	.20970	.51885	.52552	3.7624	48.969	.99902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2861**	**.45527**	**1.0072**	**49.226**	**.51732**	**10.168**	**.51154**
Stddev	.0524	.00119	.0014	.270	.00131	.013	.00118
%RSD	.56398	.26030	.13757	.54881	.25404	.12421	.23081
#1	9.2989	.45568	1.0067	49.330	.51627	10.155	.51030
#2	9.2285	.45393	1.0061	48.919	.51879	10.179	.51265
#3	9.3308	.45619	1.0087	49.428	.51689	10.171	.51167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 16:32:15 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **106.36**	**10.441**	F **1.4294**	**1.2509**	**.40503**	**5.1779**	**1.0194**
Stddev	49.28	.061	5.1161	.0030	.00190	.0063	.0015
%RSD	46.329	.58141	357.93	.24225	.47027	.12083	.15150
#1	162.77	10.381	7.3027	1.2513	.40627	5.1707	1.0211
#2	71.720	10.441	-.95735	1.2476	.40284	5.1806	1.0190
#3	84.588	10.502	-2.0573	1.2537	.40598	5.1823	1.0180
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96098**	**.96621**	**.52740**	**1.0499**	**1.0094**	**1.0159**
Stddev	.00466	.00389	.00213	.0024	.0007	.0023
%RSD	.48459	.40273	.40308	.22772	.06839	.22270
#1	.96154	.96726	.52829	1.0524	1.0096	1.0160
#2	.95607	.96190	.52497	1.0477	1.0099	1.0181
#3	.96533	.96947	.52894	1.0495	1.0086	1.0136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48766.**	**45751.**
Stddev	90.	388.
%RSD	.18399	.84699
#1	48837.	45683.
#2	48796.	46168.
#3	48665.	45402.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 16:35:38 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.01411**	**.00101**	**.00141**	**-.00028**	**-.00001**	**.01188**
Stddev	.00044	.00032	.00239	.00064	.00028	.00001	.00367
%RSD	516.93	2.2881	236.82	45.616	98.822	89.651	30.899
#1	.00052	.01411	.00375	.00122	.00004	-.00001	.01315
#2	-.00036	.01443	-.00008	.00213	-.00040	.00000	.00774
#3	.00009	.01378	-.00065	.00088	-.00047	-.00002	.01475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00006**	**-.00056**	**-.00019**	**.00694**	**.19872**	**-.00752**
Stddev	.00004	.00010	.00008	.00039	.00427	.02246	.00067
%RSD	54.216	173.10	14.321	203.99	61.492	11.304	8.8629
#1	-.00003	.00003	-.00065	-.00057	.01115	.19880	-.00676
#2	-.00010	-.00004	-.00052	-.00021	.00708	.17621	-.00780
#3	-.00009	-.00016	-.00050	.00021	.00261	.22114	-.00800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02246**	**-.00001**	**.00005**	**.00946**	**.00066**	**-.00046**	**-.00014**
Stddev	.00342	.00007	.00005	.00675	.00042	.00063	.00106
%RSD	15.240	538.45	101.96	71.334	63.963	136.50	778.35
#1	-.02588	.00003	.00005	.00861	.00039	-.00086	.00017
#2	-.02246	-.00009	.00011	.01660	.00114	.00027	.00074
#3	-.01903	.00003	.00000	.00318	.00044	-.00080	-.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 16:35:38 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **144.59**	**.01470**	F **4.1147**	**-.00109**	**-.00038**	**.00246**	**-.00018**
Stddev	47.73	.01835	5.9097	.00151	.00172	.00285	.00038
%RSD	33.010	124.84	143.62	138.48	451.56	116.20	216.82
#1	99.547	-.00613	10.815	-.00239	-.00224	.00117	-.00014
#2	139.62	.02848	-.35383	.00056	-.00008	.00047	.00019
#3	194.62	.02173	1.8826	-.00144	.00117	.00573	-.00057
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00053**	**.00046**	**-.00017**	**.00358**	**.00033**
Stddev	.00005	.00028	.00173	.00012	.00015	.00015
%RSD	210.91	52.167	371.67	66.487	4.2111	43.789
#1	.00004	.00076	.00155	-.00031	.00341	.00017
#2	.00007	.00061	.00137	-.00010	.00364	.00046
#3	-.00003	.00022	-.00153	-.00011	.00369	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49046.**	**45572.**
Stddev	30.	140.
%RSD	.06113	.30787
#1	49077.	45502.
#2	49042.	45481.
#3	49018.	45734.

Approved: March 30, 2011

Sample Name: PBS 15 Acquired: 3/29/2011 16:39:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.02203**	**-.00290**	**.00046**	**-.00029**	**-.00003**	**.06804**
Stddev	.00019	.00157	.00054	.00027	.00000	.00003	.00047
%RSD	131.40	7.1182	18.597	57.552	1.6757	133.42	.68756
#1	.00000	.02276	-.00327	.00077	-.00030	.00000	.06850
#2	-.00035	.02310	-.00228	.00026	-.00029	-.00006	.06805
#3	-.00008	.02023	-.00314	.00036	-.00029	-.00001	.06757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00038**	**.00019**	**-.00034**	**.00676**	**.41451**	**-.00886**
Stddev	.00011	.00008	.00024	.00052	.00105	.03033	.00125
%RSD	63.742	21.917	122.68	152.81	15.576	7.3175	14.078
#1	.00025	-.00030	.00021	.00011	.00700	.37949	-.00978
#2	.00005	-.00047	-.00005	-.00022	.00561	.43259	-.00744
#3	.00023	-.00036	.00043	-.00090	.00767	.43144	-.00935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02882**	**-.00007**	**.00019**	**.06220**	**.00208**	F **-.01604**	**.00074**
Stddev	.00540	.00010	.00009	.00450	.00048	.00146	.00109
%RSD	18.749	146.98	50.709	7.2269	22.946	9.1218	145.92
#1	.02319	-.00017	.00027	.05943	.00212	-.01738	.00200
#2	.02932	.00003	.00020	.06739	.00253	-.01625	.00021
#3	.03396	-.00007	.00009	.05979	.00158	-.01448	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: PBS 15 Acquired: 3/29/2011 16:39:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **54.391**	**5.3888**	F **-1521.3**	**.00216**	**.00257**	**.01575**	**-.00029**
Stddev	45.280	.0296	5.9	.00121	.00056	.00148	.00016
%RSD	83.250	.54953	.38873	55.836	21.702	9.4172	56.094
#1	7.8582	5.3762	-1528.1	.00349	.00234	.01481	-.00011
#2	57.009	5.4226	-1517.6	.00186	.00216	.01746	-.00042
#3	98.305	5.3675	-1518.1	.00113	.00320	.01499	-.00034
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00089**	**-.00225**	**-.00022**	**.00659**	**.00033**
Stddev	.00005	.00086	.00053	.00023	.00461	.00016
%RSD	19.784	96.300	23.398	103.98	69.965	49.241
#1	.00031	.00024	-.00279	-.00048	.00455	.00023
#2	.00022	.00057	-.00222	-.00009	.01187	.00051
#3	.00023	.00187	-.00174	-.00008	.00335	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47219.**	**46111.**
Stddev	126.	477.
%RSD	.26608	1.0337
#1	47081.	46147.
#2	47248.	46569.
#3	47327.	45618.

Approved: March 30, 2011

Sample Name: LCSS 15 Acquired: 3/29/2011 16:43:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21421**	**.02257**	**.20917**	**.00059**	**-.00036**	**-.00001**	**.03884**
Stddev	.00484	.00375	.00778	.00066	.00006	.00003	.00337
%RSD	2.2587	16.628	3.7171	112.02	17.749	275.31	8.6893
#1	.21913	.02689	.21815	.00134	-.00037	-.00005	.04266
#2	.20946	.02013	.20472	.00032	-.00029	.00002	.03626
#3	.21403	.02068	.20464	.00011	-.00042	-.00002	.03760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02736**	**-.00031**	**.00044**	**.27831**	**.11439**	**.32621**	**-.00898**
Stddev	.00109	.00023	.00019	.01032	.00119	.01832	.00097
%RSD	3.9981	73.725	42.620	3.7073	1.0408	5.6159	10.762
#1	.02862	-.00057	.00055	.29022	.11557	.34700	-.01010
#2	.02676	-.00014	.00022	.27272	.11319	.31920	-.00842
#3	.02669	-.00022	.00055	.27199	.11442	.31244	-.00843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01479**	**.23853**	**.00012**	**.01731**	**.00166**	F **-.01798**	**.26939**
Stddev	.00626	.00324	.00010	.00372	.00016	.00111	.01118
%RSD	42.366	1.3571	84.687	21.512	9.9150	6.1628	4.1488
#1	.01641	.23546	.00008	.01764	.00183	-.01791	.28224
#2	.00787	.23821	.00004	.01343	.00151	-.01912	.26195
#3	.02008	.24191	.00024	.02085	.00163	-.01690	.26398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: LCSS 15 Acquired: 3/29/2011 16:43:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **137.66**	**3.1330**	F **-865.03**	**.00232**	**.00258**	**.01196**	**-.00015**
Stddev	26.03	.1573	37.31	.00083	.00122	.00177	.00021
%RSD	18.911	5.0217	4.3126	35.816	47.355	14.770	137.54
#1	129.55	3.3147	-907.34	.00189	.00365	.01346	-.00040
#2	166.78	3.0399	-850.89	.00327	.00125	.01241	-.00003
#3	116.64	3.0444	-836.86	.00179	.00284	.01001	-.00003
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00122**	**-.00175**	**.00003**	**.00403**	**.00028**
Stddev	.00004	.00047	.00157	.00012	.00058	.00004
%RSD	74.353	38.708	89.979	371.71	14.313	14.199
#1	.00001	.00136	-.00334	.00002	.00470	.00033
#2	.00007	.00069	-.00170	-.00008	.00371	.00028
#3	.00007	.00160	-.00020	.00016	.00368	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46349.**	**45110.**
Stddev	1321.	152.
%RSD	2.8490	.33648
#1	44824.	44995.
#2	47132.	45282.
#3	47090.	45053.

Approved: March 30, 2011

Sample Name: L1103041807 Acquired: 3/29/2011 16:46:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00461**	**118.57**	**.10281**	**.15565**	**1.9132**	**.01177**	**44.772**
Stddev	.00011	.31	.00131	.00071	.0066	.00004	.210
%RSD	2.3963	.26028	1.2757	.45548	.34267	.30768	.46810
#1	.00449	118.79	.10139	.15524	1.9193	.01180	44.740
#2	.00462	118.71	.10307	.15647	1.9139	.01179	44.996
#3	.00471	118.22	.10398	.15525	1.9063	.01173	44.581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00731**	**.11946**	**.22465**	**.14186**	**276.83**	**6.0928**	**.05834**
Stddev	.00008	.00049	.00046	.00068	.81	.0185	.00028
%RSD	1.0535	.40708	.20330	.48264	.29257	.30328	.48003
#1	.00736	.11913	.22413	.14221	277.06	6.0991	.05864
#2	.00722	.11924	.22498	.14108	277.50	6.1073	.05808
#3	.00735	.12002	.22483	.14231	275.93	6.0720	.05829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.530**	**5.2198**	**.00899**	**3.4489**	**.15280**	**3.3543**	**.35109**
Stddev	.114	.0365	.00005	.0136	.00070	.0157	.00186
%RSD	.64900	.69916	.51464	.39366	.45528	.46908	.52837
#1	17.483	5.2057	.00896	3.4430	.15360	3.3675	.35113
#2	17.660	5.2612	.00905	3.4644	.15236	3.3586	.34922
#3	17.447	5.1924	.00897	3.4393	.15243	3.3369	.35293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041807 Acquired: 3/29/2011 16:46:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.285**	F **119.54**	F **-21732.**	**.00331**	**.00759**	**2.3615**	**.00883**
Stddev	45.528	.16	55.	.00022	.00285	.0023	.00038
%RSD	318.72	.13150	.25389	6.5905	37.543	.09700	4.2840
#1	-34.984	119.50	-21793.	.00322	.00518	2.3609	.00864
#2	23.038	119.72	-21715.	.00316	.01073	2.3596	.00926
#3	54.800	119.41	-21687.	.00356	.00685	2.3640	.00858
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58408**	**.20285**	**.00800**	**.37508**	**.68017**	**.09704**
Stddev	.00282	.00091	.00033	.00055	.00150	.00024
%RSD	.48301	.44842	4.1513	.14705	.22103	.24572
#1	.58230	.20185	.00805	.37482	.67844	.09679
#2	.58734	.20364	.00764	.37470	.68094	.09706
#3	.58262	.20307	.00830	.37571	.68113	.09727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47862.**	**46984.**
Stddev	41.	450.
%RSD	.08613	.95675
#1	47909.	46962.
#2	47830.	46545.
#3	47849.	47444.

Approved: March 30, 2011

Sample Name: L1103041808 Acquired: 3/29/2011 16:50:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00628**	**101.58**	**.10594**	**.13664**	**1.8223**	**.01129**	**44.213**
Stddev	.00014	.52	.00164	.00086	.0094	.00004	.295
%RSD	2.2421	.51556	1.5486	.62834	.51374	.31086	.66617
#1	.00642	101.41	.10594	.13761	1.8325	.01129	44.540
#2	.00628	102.17	.10758	.13599	1.8140	.01133	43.969
#3	.00614	101.17	.10430	.13631	1.8206	.01126	44.130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01814**	**.13678**	**.21987**	**.19933**	**238.39**	**9.7407**	**.05565**
Stddev	.00006	.00021	.00154	.00018	1.19	.0653	.00046
%RSD	.34864	.15238	.70031	.09117	.49968	.67059	.83532
#1	.01822	.13681	.22041	.19929	239.76	9.8032	.05595
#2	.01811	.13698	.22107	.19953	237.66	9.6729	.05589
#3	.01810	.13656	.21814	.19918	237.74	9.7460	.05512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.862**	**6.6619**	**.01154**	**.99489**	**.15764**	**6.2022**	**.69199**
Stddev	.076	.0591	.00003	.00610	.00107	.0123	.00418
%RSD	.47807	.88731	.27346	.61327	.67752	.19898	.60437
#1	15.948	6.7291	.01156	.99487	.15792	6.2157	.69532
#2	15.829	6.6182	.01155	.98879	.15855	6.1993	.68730
#3	15.807	6.6383	.01150	1.0010	.15646	6.1915	.69336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041808 Acquired: 3/29/2011 16:50:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **36.712**	F **182.77**	F **-40464.**	**.00689**	**.01191**	**2.3145**	**.01467**
Stddev	53.335	.49	354.	.00089	.00068	.0087	.00013
%RSD	145.28	.26986	.87429	12.948	5.7323	.37409	.89148
#1	88.692	183.32	-40663.	.00728	.01127	2.3212	.01456
#2	-17.882	182.58	-40673.	.00752	.01263	2.3174	.01482
#3	39.325	182.39	-40055.	.00587	.01183	2.3047	.01464
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29582**	**.25643**	**.00499**	**.33907**	**4.6923**	**.08014**
Stddev	.00148	.00107	.00062	.00044	.0053	.00010
%RSD	.49901	.41672	12.356	.12877	.11265	.12766
#1	.29749	.25689	.00531	.33955	4.6944	.08008
#2	.29468	.25719	.00537	.33870	4.6863	.08026
#3	.29528	.25520	.00428	.33897	4.6962	.08009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46933.**	**46985.**
Stddev	131.	563.
%RSD	.27871	1.1990
#1	46801.	46346.
#2	46935.	47199.
#3	47063.	47411.

Approved: March 30, 2011

Sample Name: L1103041809 Acquired: 3/29/2011 16:53:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00920**	**161.75**	**.11391**	**.25755**	**4.4905**	**.01368**	**117.60**
Stddev	.00071	1.48	.00119	.00185	.0048	.00003	.24
%RSD	7.7372	.91417	1.0457	.71739	.10628	.21833	.20233
#1	.00887	161.59	.11527	.25940	4.4959	.01367	117.86
#2	.00871	163.30	.11302	.25571	4.4887	.01366	117.40
#3	.01001	160.36	.11345	.25754	4.4870	.01372	117.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01091**	**.16843**	**.23175**	**.22893**	**288.90**	**8.1100**	**.08409**
Stddev	.00006	.00067	.00079	.00128	.30	.0157	.00115
%RSD	.58435	.39512	.34094	.55698	.10350	.19365	1.3725
#1	.01085	.16845	.23247	.23019	289.02	8.1280	.08408
#2	.01098	.16908	.23091	.22764	289.13	8.0992	.08294
#3	.01089	.16775	.23186	.22897	288.57	8.1027	.08525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.143**	**8.0029**	**.01349**	**6.8095**	**.18579**	**5.8608**	**.54015**
Stddev	.099	.0128	.00015	.0229	.00009	.0233	.00064
%RSD	.40800	.15958	1.1033	.33640	.05079	.39772	.11917
#1	24.186	8.0176	.01362	6.8347	.18574	5.8818	.53999
#2	24.214	7.9967	.01333	6.7900	.18590	5.8357	.54086
#3	24.031	7.9943	.01353	6.8038	.18573	5.8649	.53960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041809 Acquired: 3/29/2011 16:53:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **41.013**	F **238.80**	F **-35238.**	**.00474**	**.01221**	**5.1929**	**.01071**
Stddev	65.905	1.18	61.	.00182	.00148	.0259	.00012
%RSD	160.69	.49433	.17420	38.393	12.142	.49833	1.1176
#1	-16.255	239.80	-35279.	.00452	.01066	5.2156	.01083
#2	26.245	237.49	-35167.	.00305	.01235	5.1648	.01072
#3	113.05	239.09	-35267.	.00667	.01361	5.1985	.01059
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8051**	**.66121**	**.00898**	**.50092**	**1.5542**	**.13729**
Stddev	.0069	.00116	.00063	.00111	.0014	.00040
%RSD	.38169	.17587	6.9936	.22202	.09245	.28811
#1	1.8127	.66254	.00969	.49967	1.5533	.13761
#2	1.7994	.66071	.00850	.50130	1.5559	.13684
#3	1.8031	.66039	.00875	.50180	1.5534	.13740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46600.**	**47227.**
Stddev	62.	291.
%RSD	.13334	.61587
#1	46528.	46950.
#2	46641.	47201.
#3	46630.	47530.

Approved: March 30, 2011

Sample Name: L1103041810 Acquired: 3/29/2011 16:57:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00822**	**116.68**	**.12687**	**.14413**	**1.8486**	**.01231**	**43.179**
Stddev	.00039	1.74	.00105	.00089	.0036	.00002	.218
%RSD	4.7572	1.4941	.83105	.61947	.19258	.17386	.50585
#1	.00808	117.32	.12580	.14312	1.8446	.01230	42.936
#2	.00865	118.02	.12690	.14448	1.8497	.01230	43.358
#3	.00791	114.71	.12791	.14480	1.8515	.01234	43.244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01665**	**.17589**	**.26636**	**.19031**	**265.14**	**12.392**	**.06022**
Stddev	.00008	.00071	.00031	.00073	1.30	.038	.00032
%RSD	.45749	.40115	.11799	.38127	.48899	.30410	.53093
#1	.01658	.17508	.26604	.18997	263.65	12.352	.06030
#2	.01663	.17633	.26667	.19115	265.81	12.426	.05987
#3	.01673	.17627	.26638	.18982	265.98	12.400	.06050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.257**	**9.3354**	**.01215**	**.46626**	**.16952**	**6.0069**	**.75460**
Stddev	.134	.0814	.00035	.00407	.00014	.0260	.00265
%RSD	.77903	.87140	2.9003	.87389	.08033	.43259	.35161
#1	17.104	9.2416	.01228	.46628	.16957	5.9911	.75438
#2	17.355	9.3780	.01242	.47033	.16963	6.0369	.75735
#3	17.313	9.3866	.01175	.46218	.16937	5.9927	.75206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041810 Acquired: 3/29/2011 16:57:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-68.069**	F **232.56**	F **-55014.**	**.00741**	**.01604**	**2.4747**	**.01580**
Stddev	48.452	1.34	84.	.00077	.00237	.0069	.00020
%RSD	71.180	.57416	.15225	10.367	14.801	.27775	1.2646
#1	-13.929	231.07	-54974.	.00667	.01414	2.4716	.01567
#2	-107.35	233.65	-55110.	.00735	.01870	2.4826	.01571
#3	-82.928	232.96	-54957.	.00821	.01528	2.4700	.01603
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28139**	**.28913**	**.00405**	**.38184**	**1.7212**	**.08764**
Stddev	.00069	.00098	.00073	.00138	.0064	.00011
%RSD	.24488	.34000	18.104	.36109	.37122	.12898
#1	.28075	.28852	.00329	.38076	1.7140	.08751
#2	.28212	.29026	.00475	.38339	1.7263	.08772
#3	.28128	.28860	.00412	.38136	1.7232	.08770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47168.**	**47458.**
Stddev	74.	269.
%RSD	.15586	.56601
#1	47180.	47756.
#2	47089.	47233.
#3	47235.	47385.

Approved: March 30, 2011

Sample Name: L1103041811 Acquired: 3/29/2011 17:00:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00344**	**50.836**	**.05940**	**.06749**	**.76699**	**.00611**	**14.099**
Stddev	.00049	.118	.00309	.00062	.00244	.00002	.066
%RSD	14.235	.23237	5.2040	.91526	.31827	.31343	.46637
#1	.00398	50.742	.05590	.06763	.76863	.00612	14.149
#2	.00303	50.969	.06053	.06803	.76817	.00609	14.122
#3	.00330	50.798	.06176	.06682	.76419	.00612	14.024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00528**	**.08233**	**.11285**	**.06942**	**132.77**	**2.5996**	**.01873**
Stddev	.00005	.00013	.00031	.00067	.55	.0196	.00037
%RSD	.98848	.15339	.27848	.97119	.41784	.75210	1.9717
#1	.00522	.08240	.11309	.06918	132.62	2.5822	.01913
#2	.00530	.08219	.11250	.06891	133.39	2.5960	.01864
#3	.00531	.08241	.11298	.07019	132.31	2.6208	.01840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.1513**	**3.8861**	**.00498**	**.49003**	**.07496**	**1.4563**	**.27608**
Stddev	.0642	.0162	.00012	.00828	.00012	.0063	.00096
%RSD	.89823	.41572	2.3491	1.6902	.15614	.43296	.34594
#1	7.1589	3.8954	.00510	.49919	.07509	1.4541	.27638
#2	7.2113	3.8954	.00486	.48782	.07488	1.4514	.27501
#3	7.0835	3.8674	.00497	.48307	.07490	1.4634	.27685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041811 Acquired: 3/29/2011 17:00:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-22.927**	F **57.617**	F **-12138.**	**.00192**	**.00447**	**1.1115**	**.00442**
Stddev	53.176	.192	44.	.00028	.00038	.0036	.00019
%RSD	231.94	.33358	.36135	14.754	8.5613	.32311	4.3527
#1	37.031	57.702	-12101.	.00197	.00405	1.1115	.00460
#2	-64.375	57.397	-12127.	.00162	.00457	1.1080	.00445
#3	-41.437	57.752	-12187.	.00218	.00479	1.1152	.00421
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10384**	**.12261**	**.00307**	**.18477**	**.49675**	**.03613**
Stddev	.00047	.00081	.00090	.00058	.00080	.00019
%RSD	.45235	.66041	29.348	.31155	.16113	.52659
#1	.10419	.12355	.00399	.18424	.49621	.03613
#2	.10403	.12214	.00219	.18469	.49638	.03632
#3	.10331	.12215	.00304	.18538	.49767	.03594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49277.**	**47936.**
Stddev	110.	261.
%RSD	.22347	.54443
#1	49385.	48055.
#2	49281.	47637.
#3	49165.	48116.

Approved: March 30, 2011

Sample Name: L1103041811PS Acquired: 3/29/2011 17:04:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment: WG359748-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21731**	**56.674**	**.26570**	**1.0778**	**1.2643**	**.03170**	**18.945**
Stddev	.00087	.114	.00141	.0010	.0062	.00003	.117
%RSD	.39892	.20031	.52909	.09649	.48606	.09959	.61937
#1	.21829	56.764	.26407	1.0780	1.2581	.03171	18.826
#2	.21663	56.546	.26654	1.0767	1.2644	.03173	18.949
#3	.21702	56.712	.26648	1.0787	1.2703	.03167	19.060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03128**	**.18512**	**.36599**	**.32658**	**134.07**	**26.427**	**.52166**
Stddev	.00017	.00039	.00059	.00096	.48	.147	.00185
%RSD	.55109	.21319	.16171	.29490	.35652	.55765	.35460
#1	.03108	.18493	.36540	.32554	133.78	26.306	.51978
#2	.03138	.18486	.36598	.32745	133.80	26.384	.52172
#3	.03139	.18557	.36659	.32676	134.62	26.591	.52347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.441**	**4.1011**	**.51111**	**24.916**	**.32991**	**1.4555**	**.52182**
Stddev	.046	.0237	.00119	.150	.00212	.0115	.00229
%RSD	.40032	.57800	.23368	.60251	.64355	.79181	.43923
#1	11.418	4.0812	.50976	24.777	.32811	1.4496	.51918
#2	11.412	4.0948	.51202	24.896	.33225	1.4688	.52297
#3	11.494	4.1273	.51155	25.075	.32938	1.4481	.52330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041811PS Acquired: 3/29/2011 17:04:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment: WG359748-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.8370**	F **62.461**	F **-12295.**	**.62568**	**.20542**	**3.7533**	**.00530**
Stddev	87.294	.145	52.	.00394	.00245	.0109	.00028
%RSD	4752.0	.23164	.42046	.63004	1.1915	.29066	5.2606
#1	-96.076	62.314	-12255.	.62347	.20645	3.7451	.00501
#2	14.308	62.603	-12353.	.63024	.20718	3.7492	.00533
#3	76.258	62.467	-12277.	.62335	.20262	3.7657	.00556
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58404**	**.59628**	**.26274**	**.70654**	**.98430**	**.03634**
Stddev	.00373	.00305	.00056	.00121	.00301	.00009
%RSD	.63864	.51187	.21475	.17177	.30606	.24371
#1	.58067	.59340	.26215	.70760	.98170	.03625
#2	.58341	.59597	.26327	.70522	.98361	.03643
#3	.58805	.59948	.26279	.70679	.98760	.03635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48567.**	**47518.**
Stddev	15.	209.
%RSD	.03166	.44086
#1	48581.	47355.
#2	48551.	47755.
#3	48570.	47445.

Approved: March 30, 2011

Sample Name: L1103041811SDL Acquired: 3/29/2011 17:07:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 10 Custom ID2: Custom ID3:
Comment: WG359748-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**10.067**	**.01467**	**.01542**	**.15294**	**.00122**	**2.8690**
Stddev	.00063	.061	.00061	.00084	.00085	.00001	.0198
%RSD	66.944	.60281	4.1315	5.4148	.55470	.53442	.68949
#1	.00122	10.034	.01433	.01633	.15198	.00122	2.8484
#2	.00022	10.137	.01431	.01524	.15326	.00122	2.8707
#3	.00139	10.029	.01537	.01469	.15359	.00121	2.8879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**.01667**	**.02203**	**.01410**	**27.048**	**.61517**	**-.00061**
Stddev	.00008	.00012	.00013	.00033	.105	.01853	.00053
%RSD	8.6726	.74199	.58743	2.3579	.38874	3.0128	87.825
#1	.00084	.01673	.02218	.01430	26.928	.63604	-.00007
#2	.00082	.01653	.02196	.01428	27.095	.60063	-.00114
#3	.00096	.01676	.02196	.01372	27.122	.60883	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4896**	**.80198**	**.00078**	**.09807**	**.01595**	**.31094**	**.05760**
Stddev	.0153	.00650	.00016	.00488	.00006	.00271	.00066
%RSD	1.0297	.81003	20.508	4.9809	.37708	.87106	1.1416
#1	1.4935	.79548	.00060	.10164	.01596	.30903	.05695
#2	1.5025	.80199	.00086	.09250	.01588	.30975	.05826
#3	1.4726	.80848	.00089	.10006	.01600	.31404	.05760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041811SDL Acquired: 3/29/2011 17:07:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 10 Custom ID2: Custom ID3:
Comment: WG359748-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **70.385**	F **11.979**	F **-2556.0**	**-.00149**	**-.00002**	**.22393**	**.00042**
Stddev	61.123	.037	3.6	.00071	.00165	.00092	.00026
%RSD	86.841	.30835	.14238	47.795	8210.4	.41043	61.707
#1	9.2813	11.936	-2560.2	-.00166	.00104	.22499	.00067
#2	70.347	12.003	-2553.7	-.00210	.00082	.22336	.00015
#3	131.53	11.998	-2554.2	-.00071	-.00192	.22345	.00043
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02111**	**.02481**	**.00206**	**.03642**	**.11008**	**.00703**
Stddev	.00009	.00045	.00085	.00040	.00033	.00014
%RSD	.43489	1.7966	41.507	1.1057	.29977	1.9418
#1	.02101	.02441	.00107	.03654	.11045	.00718
#2	.02113	.02529	.00249	.03675	.10994	.00699
#3	.02119	.02472	.00261	.03597	.10984	.00692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50394.**	**47030.**
Stddev	102.	181.
%RSD	.20161	.38483
#1	50464.	47229.
#2	50278.	46985.
#3	50441.	46876.

Approved: March 30, 2011

Sample Name: L1103041811SDL Acquired: 3/29/2011 17:11:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG359748-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**1.9854**	**.00513**	**.00329**	**.03037**	**.00025**	**.57544**
Stddev	.00027	.0344	.00120	.00087	.00012	.00001	.00763
%RSD	132.19	1.7310	23.403	26.580	.39503	3.9330	1.3265
#1	.00044	2.0211	.00415	.00255	.03034	.00026	.57180
#2	.00025	1.9824	.00477	.00425	.03027	.00024	.57030
#3	-.00009	1.9526	.00647	.00307	.03050	.00024	.58421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00358**	**.00400**	**.00310**	**5.4546**	**.19913**	**-.00357**
Stddev	.00002	.00014	.00011	.00032	.0288	.00584	.00187
%RSD	197.58	3.9866	2.7255	10.189	.52775	2.9325	52.490
#1	-.00001	.00366	.00388	.00287	5.4214	.20577	-.00144
#2	.00002	.00341	.00405	.00297	5.4703	.19480	-.00431
#3	.00003	.00366	.00408	.00346	5.4721	.19681	-.00496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28760**	**.16193**	**-.00002**	**.01672**	**.00370**	**.06840**	**.01144**
Stddev	.00460	.00039	.00006	.00462	.00043	.00102	.00157
%RSD	1.5994	.24003	401.46	27.603	11.569	1.4853	13.697
#1	.28631	.16155	.00004	.02009	.00400	.06854	.01281
#2	.28378	.16191	-.00001	.01146	.00390	.06935	.00973
#3	.29271	.16232	-.00008	.01861	.00321	.06733	.01176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041811SDL Acquired: 3/29/2011 17:11:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG359748-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-6.8823**	**2.4414**	F **-518.17**	**-.00158**	**-.00084**	**.04202**	**-.00025**
Stddev	28.043	.0186	4.27	.00034	.00084	.00085	.00005
%RSD	407.46	.76132	.82416	21.588	100.63	2.0121	18.658
#1	-13.200	2.4584	-516.64	-.00139	-.00156	.04223	-.00030
#2	23.780	2.4216	-514.89	-.00138	-.00105	.04109	-.00020
#3	-31.227	2.4443	-523.00	-.00198	.00009	.04274	-.00025
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00410**	**.00553**	**.00242**	**.00731**	**.02681**	**.00137**
Stddev	.00001	.00048	.00104	.00024	.00040	.00010
%RSD	.28504	8.7148	42.967	3.2728	1.5020	7.5180
#1	.00408	.00556	.00239	.00717	.02653	.00147
#2	.00410	.00600	.00347	.00717	.02664	.00138
#3	.00411	.00504	.00139	.00758	.02727	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49934.**	**45806.**
Stddev	47.	746.
%RSD	.09400	1.6289
#1	49919.	46524.
#2	49986.	45035.
#3	49896.	45860.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 17:15:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42505**	**10.378**	**.42262**	**.52226**	**1.0225**	**.05148**	**9.8187**
Stddev	.00256	.019	.00371	.00150	.0023	.00017	.0441
%RSD	.60321	.17933	.87849	.28681	.22064	.33411	.44877
#1	.42212	10.356	.42408	.52069	1.0244	.05130	9.8603
#2	.42609	10.390	.42538	.52367	1.0200	.05164	9.7725
#3	.42692	10.388	.41840	.52243	1.0230	.05151	9.8234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05287**	**.21137**	**.51745**	**.53072**	**3.7969**	**49.897**	**1.0323**
Stddev	.00022	.00092	.00038	.00024	.0080	.175	.0027
%RSD	.41169	.43601	.07421	.04449	.21152	.35009	.26688
#1	.05294	.21176	.51702	.53048	3.8007	50.032	1.0353
#2	.05304	.21204	.51759	.53072	3.7877	49.700	1.0300
#3	.05263	.21032	.51774	.53096	3.8024	49.959	1.0315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.1288**	**.46352**	**1.0040**	**49.569**	**.51820**	F **-.00203**	**.52239**
Stddev	.0257	.00193	.0011	.286	.00164	.00265	.00103
%RSD	.28104	.41655	.10783	.57611	.31604	130.47	.19733
#1	9.1021	.46569	1.0051	49.838	.51842	.00080	.52272
#2	9.1311	.46200	1.0029	49.269	.51972	-.00243	.52123
#3	9.1533	.46286	1.0040	49.599	.51646	-.00445	.52322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 17:15:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **47.398**	**10.238**	F **42.446**	**1.3112**	**.41569**	F **.00180**	**1.0410**
Stddev	47.045	.071	3.449	.0071	.00321	.00060	.0026
%RSD	99.254	.69147	8.1251	.54432	.77133	33.606	.24882
#1	65.342	10.203	40.805	1.3145	.41243	.00208	1.0407
#2	-5.9778	10.320	40.125	1.3161	.41884	.00110	1.0437
#3	82.830	10.193	46.409	1.3030	.41581	.00221	1.0386
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99596**	**.99675**	**.53560**	**1.0346**	**.99131**	F **.00076**
Stddev	.00577	.00319	.00150	.0036	.00172	.00010
%RSD	.57945	.31959	.27956	.34780	.17323	13.102
#1	1.0018	.99975	.53582	1.0305	.99003	.00064
#2	.99024	.99341	.53697	1.0372	.99326	.00082
#3	.99586	.99708	.53400	1.0362	.99064	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48014.**	**45153.**
Stddev	138.	124.
%RSD	.28810	.27562
#1	47913.	45023.
#2	47957.	45271.
#3	48171.	45166.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 17:18:32 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.01510**	**.00049**	**.00172**	**-.00041**	**.00000**	**.00853**
Stddev	.00076	.00115	.00081	.00092	.00012	.0000	.00671
%RSD	100.55	7.6225	163.23	53.293	29.397	646.31	78.692
#1	-.00130	.01476	.00131	.00207	-.00030	-.00003	.00078
#2	.00011	.01417	.00047	.00241	-.00039	.00001	.01247
#3	-.00107	.01639	-.00030	.00068	-.00053	.00001	.01235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00004**	**-.00038**	**-.00029**	**.00412**	**.13572**	**-.00436**
Stddev	.00002	.00018	.00036	.00015	.00078	.00666	.00085
%RSD	221.96	413.02	93.563	51.451	18.949	4.9084	19.406
#1	-.00001	-.00005	-.00046	-.00035	.00326	.13969	-.00352
#2	.00001	.00025	-.00070	-.00040	.00479	.13945	-.00521
#3	-.00002	-.00007	.00001	-.00012	.00432	.12803	-.00434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00317**	**-.00016**	**-.00001**	**.00623**	**.00102**	**-.00055**	**-.00027**
Stddev	.01470	.00026	.00011	.00117	.00059	.00132	.00090
%RSD	463.84	161.75	1021.9	18.839	57.897	241.44	339.17
#1	-.00237	-.00008	.00000	.00647	.00159	.00098	-.00101
#2	.01112	-.00045	-.00012	.00726	.00042	-.00132	.00073
#3	-.01826	.00005	.00009	.00495	.00104	-.00130	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 17:18:32 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **45.334**	**-.00973**	F **23.426**	**-.00128**	**-.00055**	**-.00085**	**-.00018**
Stddev	67.525	.03307	3.149	.00097	.00127	.00046	.00019
%RSD	148.95	339.99	13.444	75.568	230.26	53.806	105.67
#1	75.543	-.02546	26.443	-.00044	.00030	-.00071	-.00024
#2	-32.021	-.03200	23.675	-.00234	.00005	-.00135	.00003
#3	92.480	.02828	20.159	-.00107	-.00201	-.00047	-.00033
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000		.01000				
Low Limit	-.01000		-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00039**	**-.00008**	**-.00018**	**.00423**	**.00012**
Stddev	.00004	.00078	.00097	.00002	.00011	.00012
%RSD	34.296	201.63	1274.5	12.600	2.5197	97.908
#1	-.00015	-.00045	.00055	-.00021	.00427	.00000
#2	-.00015	.00053	.00042	-.00019	.00411	.00012
#3	-.00008	.00108	-.00120	-.00016	.00431	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48568.**	**45286.**
Stddev	62.	166.
%RSD	.12760	.36689
#1	48582.	45111.
#2	48501.	45303.
#3	48623.	45442.

Approved: March 30, 2011

Sample Name: L1103041812 Acquired: 3/29/2011 17:22:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00813**	**133.79**	**.11353**	**.16088**	**3.5501**	**.01165**	**101.28**
Stddev	.00061	.49	.00059	.00049	.0135	.00006	.22
%RSD	7.5485	.36581	.52370	.30614	.38076	.54509	.21959
#1	.00884	133.80	.11400	.16103	3.5492	.01165	101.41
#2	.00777	133.30	.11373	.16033	3.5640	.01159	101.41
#3	.00778	134.27	.11286	.16128	3.5371	.01171	101.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01889**	**.08654**	**.22056**	**.26361**	**224.61**	**8.8969**	**.07300**
Stddev	.00014	.00008	.00135	.00115	.35	.0098	.00021
%RSD	.71643	.08699	.61382	.43518	.15547	.11077	.28948
#1	.01897	.08658	.21900	.26275	224.25	8.9006	.07295
#2	.01896	.08658	.22130	.26491	224.95	8.9043	.07282
#3	.01873	.08645	.22138	.26316	224.62	8.8857	.07324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.429**	**4.4414**	**.01372**	**4.2324**	**.18046**	**6.5032**	**1.0343**
Stddev	.089	.0085	.00009	.0163	.00067	.0191	.0012
%RSD	.43472	.19096	.62502	.38425	.36911	.29429	.11519
#1	20.345	4.4389	.01364	4.2512	.18122	6.5000	1.0343
#2	20.420	4.4508	.01382	4.2223	.18013	6.5238	1.0355
#3	20.522	4.4343	.01371	4.2237	.18002	6.4860	1.0331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041812 Acquired: 3/29/2011 17:22:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-102.40**	F **277.84**	F **-52693.**	**.00925**	**.01399**	**4.1797**	**.01700**
Stddev	80.80	1.34	211.	.00115	.00136	.0177	.00010
%RSD	78.901	.48329	.40082	12.413	9.7301	.42398	.56749
#1	-17.348	277.41	-52810.	.01041	.01510	4.1890	.01707
#2	-178.13	279.35	-52819.	.00812	.01440	4.1909	.01704
#3	-111.73	276.77	-52449.	.00921	.01247	4.1593	.01689
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3180**	**.41546**	**.00810**	**.40438**	**1.7603**	**.11319**
Stddev	.0046	.00116	.00149	.00027	.0034	.00045
%RSD	.34638	.27870	18.437	.06653	.19470	.39418
#1	1.3227	.41636	.00834	.40410	1.7564	.11304
#2	1.3177	.41415	.00945	.40438	1.7625	.11369
#3	1.3136	.41586	.00650	.40464	1.7621	.11283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46161.**	**46791.**
Stddev	185.	291.
%RSD	.39975	.62151
#1	46021.	46461.
#2	46092.	47010.
#3	46370.	46901.

Approved: March 30, 2011

Sample Name: L1103041813 Acquired: 3/29/2011 17:25:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00704**	**149.28**	**.13039**	**.17701**	**2.9561**	**.01419**	**71.910**
Stddev	.00031	1.63	.00095	.00063	.0055	.00003	.237
%RSD	4.4589	1.0950	.73069	.35806	.18684	.20298	.32997
#1	.00734	147.44	.13125	.17774	2.9619	.01421	72.070
#2	.00671	150.57	.13055	.17675	2.9555	.01420	72.022
#3	.00707	149.82	.12937	.17655	2.9509	.01415	71.637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01087**	**.14248**	**.27746**	**.18439**	**312.70**	**6.4371**	**.07561**
Stddev	.00011	.00040	.00132	.00188	.86	.0081	.00081
%RSD	1.0361	.27897	.47454	1.0170	.27500	.12654	1.0652
#1	.01080	.14251	.27884	.18581	313.21	6.4324	.07480
#2	.01081	.14287	.27733	.18509	313.18	6.4466	.07641
#3	.01100	.14207	.27621	.18226	311.71	6.4325	.07563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.723**	**6.7008**	**.01210**	**3.5133**	**.17981**	**3.9216**	**.52128**
Stddev	.060	.0254	.00007	.0124	.00061	.0046	.00049
%RSD	.29050	.37940	.58945	.35211	.34186	.11632	.09344
#1	20.747	6.7103	.01201	3.5182	.18052	3.9207	.52073
#2	20.769	6.7201	.01213	3.5224	.17942	3.9266	.52149
#3	20.655	6.6720	.01214	3.4992	.17949	3.9176	.52164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041813 Acquired: 3/29/2011 17:25:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.451**	F **168.12**	F **-28368.**	**.00726**	**.01177**	**3.6834**	**.01048**
Stddev	83.405	.52	10.	.00060	.00292	.0144	.00032
%RSD	187.63	.31181	.03610	8.2138	24.796	.39168	3.0185
#1	-105.25	168.46	-28356.	.00783	.01236	3.6884	.01072
#2	50.632	168.39	-28375.	.00731	.01436	3.6947	.01012
#3	-78.733	167.52	-28372.	.00664	.00861	3.6671	.01059
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.92939**	**.34190**	**.01094**	**.49173**	**.93934**	**.13092**
Stddev	.00180	.00056	.00252	.00065	.00080	.00018
%RSD	.19345	.16243	23.063	.13187	.08499	.14095
#1	.92995	.34127	.01182	.49125	.93893	.13101
#2	.93084	.34231	.00809	.49147	.94026	.13105
#3	.92738	.34211	.01290	.49247	.93884	.13071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46532.**	**47839.**
Stddev	122.	325.
%RSD	.26153	.68027
#1	46432.	47646.
#2	46496.	47655.
#3	46667.	48214.

Approved: March 30, 2011

Sample Name: L1103041814 Acquired: 3/29/2011 17:29:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00708**	**107.20**	**.11452**	**.12052**	**1.8334**	**.01135**	**35.360**
Stddev	.00083	.86	.00287	.00058	.0060	.00006	.149
%RSD	11.733	.80108	2.5094	.47785	.32742	.55763	.42038
#1	.00634	108.14	.11577	.11986	1.8278	.01133	35.207
#2	.00692	106.99	.11656	.12077	1.8397	.01131	35.504
#3	.00798	106.46	.11123	.12093	1.8327	.01142	35.369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01169**	**.07937**	**.22945**	**.16162**	**223.78**	**7.5543**	**.05743**
Stddev	.00005	.00050	.00008	.00101	1.02	.0308	.00077
%RSD	.44489	.63616	.03383	.62669	.45564	.40752	1.3493
#1	.01170	.07972	.22946	.16186	222.61	7.5243	.05812
#2	.01173	.07961	.22937	.16249	224.44	7.5858	.05758
#3	.01163	.07879	.22952	.16050	224.30	7.5527	.05659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.801**	**4.3017**	**.00947**	**.48255**	**.14570**	**4.7123**	**.63878**
Stddev	.153	.0275	.00016	.00469	.00133	.0306	.00438
%RSD	.96955	.63846	1.6681	.97135	.91443	.64910	.68553
#1	15.639	4.2730	.00953	.47726	.14699	4.7368	.63911
#2	15.818	4.3277	.00929	.48621	.14580	4.7222	.64298
#3	15.944	4.3045	.00959	.48416	.14433	4.6780	.63424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041814 Acquired: 3/29/2011 17:29:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-80.849**	F **189.62**	F **-45402.**	**.00792**	**.01161**	**2.5741**	**.01349**
Stddev	9.109	1.15	631.	.00195	.00125	.0301	.00065
%RSD	11.267	.60897	1.3905	24.581	10.740	1.1701	4.8248
#1	-87.818	190.35	-46126.	.00929	.01030	2.6076	.01366
#2	-70.542	190.22	-45112.	.00877	.01174	2.5655	.01403
#3	-84.187	188.29	-44967.	.00569	.01278	2.5493	.01277
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25124**	**.29926**	**.00683**	**.35552**	**1.5446**	**.08941**
Stddev	.00073	.00094	.00080	.00067	.0065	.00024
%RSD	.29154	.31330	11.755	.18876	.41973	.26484
#1	.25045	.29841	.00647	.35494	1.5480	.08967
#2	.25189	.29909	.00628	.35625	1.5487	.08937
#3	.25137	.30026	.00775	.35535	1.5372	.08920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46969.**	**47328.**
Stddev	186.	106.
%RSD	.39670	.22372
#1	46799.	47431.
#2	46941.	47220.
#3	47168.	47333.

Approved: March 30, 2011

Sample Name: L1103041815 Acquired: 3/29/2011 17:33:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00653**	**117.17**	**.10817**	**.13484**	**2.0122**	**.01353**	**29.614**
Stddev	.00045	.33	.00148	.00111	.0104	.00003	.116
%RSD	6.8720	.27985	1.3689	.82662	.51855	.21588	.39042
#1	.00692	117.16	.10655	.13584	2.0242	.01352	29.748
#2	.00663	117.50	.10853	.13364	2.0073	.01357	29.557
#3	.00604	116.84	.10945	.13503	2.0051	.01351	29.539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00797**	**.20625**	**.25892**	**.12188**	**267.71**	**5.0071**	**.06043**
Stddev	.00012	.00068	.00101	.00021	.91	.0068	.00108
%RSD	1.5318	.32824	.38957	.16966	.34133	.13559	1.7856
#1	.00809	.20588	.25854	.12200	268.77	5.0006	.05958
#2	.00784	.20703	.26006	.12164	267.13	5.0141	.06005
#3	.00796	.20583	.25815	.12200	267.24	5.0066	.06164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.584**	**9.9132**	**.00851**	**1.8676**	**.17087**	**2.5800**	**.45185**
Stddev	.031	.0568	.00013	.0040	.00201	.0241	.00471
%RSD	.18426	.57336	1.5036	.21544	1.1748	.93472	1.0417
#1	16.601	9.9787	.00863	1.8716	.17268	2.6010	.45347
#2	16.602	9.8776	.00852	1.8635	.16871	2.5537	.44655
#3	16.549	9.8832	.00838	1.8676	.17122	2.5853	.45554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041815 Acquired: 3/29/2011 17:33:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.511**	F **114.68**	F **-24815.**	**.00458**	**.01346**	**2.2450**	**.00911**
Stddev	88.263	.40	205.	.00091	.00268	.0125	.00021
%RSD	145.86	.34764	.82621	19.854	19.900	.55556	2.3596
#1	39.734	114.85	-24954.	.00391	.01436	2.2486	.00925
#2	-94.704	114.23	-24579.	.00562	.01045	2.2312	.00886
#3	-126.56	114.97	-24911.	.00421	.01557	2.2554	.00922
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23590**	**.25669**	**.00771**	**.40636**	**.73753**	**.09568**
Stddev	.00062	.00117	.00056	.00018	.00302	.00034
%RSD	.26149	.45724	7.2388	.04422	.41000	.35895
#1	.23658	.25585	.00754	.40616	.74102	.09597
#2	.23573	.25803	.00833	.40642	.73597	.09577
#3	.23538	.25618	.00725	.40651	.73562	.09530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47380.**	**47329.**
Stddev	55.	332.
%RSD	.11573	.70097
#1	47347.	46999.
#2	47350.	47325.
#3	47444.	47663.

Approved: March 30, 2011

Sample Name: L1103041816 Acquired: 3/29/2011 17:36:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00740**	**114.20**	**.11084**	**.13601**	**3.0480**	**.01110**	**71.353**
Stddev	.00058	.84	.00040	.00258	.0152	.00005	.096
%RSD	7.8667	.73788	.36126	1.8958	.49811	.48139	.13482
#1	.00796	113.36	.11070	.13609	3.0492	.01105	71.458
#2	.00680	114.21	.11129	.13339	3.0322	.01116	71.269
#3	.00746	115.04	.11053	.13855	3.0625	.01110	71.332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01001**	**.09476**	**.21203**	**.18384**	**219.96**	**6.3786**	**.06007**
Stddev	.00009	.00013	.00092	.00044	1.07	.0266	.00035
%RSD	.93407	.13338	.43369	.24033	.48606	.41631	.58911
#1	.01010	.09462	.21306	.18414	220.19	6.3695	.06042
#2	.01003	.09480	.21174	.18406	218.80	6.3578	.06008
#3	.00991	.09486	.21130	.18333	220.90	6.4085	.05971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.412**	**4.6823**	**.00982**	**3.1789**	**.13599**	**4.0660**	**.62333**
Stddev	.029	.0134	.00004	.0027	.00052	.0106	.00194
%RSD	.15888	.28528	.42376	.08481	.38459	.26019	.31049
#1	18.446	4.6944	.00986	3.1816	.13546	4.0578	.62372
#2	18.394	4.6680	.00978	3.1790	.13651	4.0622	.62123
#3	18.397	4.6844	.00981	3.1762	.13598	4.0780	.62505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041816 Acquired: 3/29/2011 17:36:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-59.870**	F **181.99**	F **-33609.**	**.00844**	**.01065**	**3.9735**	**.01130**
Stddev	79.934	.17	156.	.00132	.00128	.0033	.00025
%RSD	133.51	.09251	.46289	15.677	11.970	.08414	2.1875
#1	-151.47	182.14	-33519.	.00736	.01034	3.9754	.01145
#2	-4.242	182.02	-33519.	.00803	.01206	3.9696	.01101
#3	-23.898	181.81	-33789.	.00991	.00957	3.9754	.01143
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99438**	**.38239**	**.00858**	**.39896**	**1.5063**	**.10101**
Stddev	.00205	.00026	.00047	.00156	.0006	.00021
%RSD	.20586	.06797	5.4751	.39025	.04099	.20463
#1	.99310	.38252	.00842	.39913	1.5062	.10091
#2	.99674	.38209	.00911	.40042	1.5070	.10087
#3	.99330	.38255	.00822	.39732	1.5058	.10125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47451.**	**47710.**
Stddev	77.	361.
%RSD	.16198	.75662
#1	47368.	47293.
#2	47465.	47933.
#3	47520.	47903.

Approved: March 30, 2011

Sample Name: L1103041817 Acquired: 3/29/2011 17:40:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00630**	**165.13**	**.11994**	**.22084**	**3.9931**	**.01491**	**115.33**
Stddev	.00068	.57	.00129	.00051	.0120	.00005	.48
%RSD	10.781	.34741	1.0763	.23191	.29941	.33623	.41750
#1	.00697	164.99	.11845	.22124	4.0069	.01490	115.85
#2	.00632	165.76	.12061	.22102	3.9857	.01488	114.91
#3	.00561	164.64	.12076	.22027	3.9866	.01497	115.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00782**	**.14116**	**.23193**	**.19490**	**272.73**	**5.9494**	**.08422**
Stddev	.00004	.00130	.00140	.00225	.72	.0325	.00085
%RSD	.54501	.92105	.60279	1.1527	.26497	.54571	1.0117
#1	.00778	.13978	.23104	.19261	273.56	5.9857	.08483
#2	.00781	.14134	.23120	.19501	272.29	5.9395	.08325
#3	.00786	.14236	.23354	.19709	272.33	5.9231	.08458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.872**	**5.6156**	**.01330**	**6.8469**	**.17272**	**4.8512**	**.34917**
Stddev	.063	.0314	.00010	.0260	.00113	.0320	.00334
%RSD	.26434	.55881	.73077	.37959	.65584	.66004	.95685
#1	23.869	5.6496	.01341	6.8753	.17147	4.8166	.34553
#2	23.936	5.5877	.01322	6.8244	.17304	4.8572	.34988
#3	23.810	5.6094	.01327	6.8410	.17366	4.8799	.35209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041817 Acquired: 3/29/2011 17:40:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-57.315**	F **208.79**	F **-28135.**	**.00597**	**.01156**	**4.1023**	**.00884**
Stddev	52.940	1.45	105.	.00089	.00107	.0113	.00017
%RSD	92.366	.69663	.37155	14.949	9.2955	.27602	1.9317
#1	-38.805	207.39	-28034.	.00631	.01038	4.1014	.00869
#2	-16.115	208.70	-28128.	.00665	.01182	4.0914	.00882
#3	-117.02	210.30	-28242.	.00496	.01248	4.1140	.00903
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.7228**	**.37815**	**.01160**	**.51607**	**.77857**	**.12587**
Stddev	.0050	.00060	.00043	.00076	.00198	.00039
%RSD	.28800	.15813	3.7377	.14750	.25482	.31092
#1	1.7279	.37872	.01151	.51690	.77681	.12547
#2	1.7180	.37752	.01207	.51589	.77817	.12590
#3	1.7226	.37820	.01122	.51541	.78072	.12625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47203.**	**48240.**
Stddev	15.	392.
%RSD	.03080	.81155
#1	47189.	47817.
#2	47218.	48313.
#3	47204.	48590.

Approved: March 30, 2011

Sample Name: L1103041818 Acquired: 3/29/2011 17:43:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00663**	**104.16**	**.10957**	**.12132**	**1.8847**	**.01131**	**35.579**
Stddev	.00048	.66	.00097	.00064	.0022	.00005	.060
%RSD	7.2372	.63527	.88916	.52657	.11784	.41262	.16982
#1	.00716	103.80	.11030	.12166	1.8871	.01132	35.644
#2	.00623	103.75	.10994	.12059	1.8841	.01135	35.567
#3	.00650	104.92	.10846	.12172	1.8828	.01126	35.525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01080**	**.12769**	**.28458**	**.13940**	**227.26**	**6.5148**	**.05666**
Stddev	.00006	.00012	.00174	.00043	.32	.0249	.00088
%RSD	.57398	.09522	.60976	.31099	.13863	.38270	1.5608
#1	.01073	.12756	.28268	.13920	227.59	6.5436	.05702
#2	.01082	.12772	.28496	.13911	226.96	6.4992	.05565
#3	.01085	.12779	.28609	.13990	227.24	6.5017	.05730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.683**	**6.3400**	**.00887**	**.77326**	**.13421**	**3.7827**	**.59843**
Stddev	.046	.0114	.00016	.00457	.00018	.0085	.00351
%RSD	.31031	.18001	1.7517	.59070	.13669	.22386	.58640
#1	14.637	6.3530	.00885	.77756	.13404	3.7777	.59439
#2	14.728	6.3316	.00904	.76846	.13420	3.7779	.60071
#3	14.682	6.3355	.00873	.77376	.13440	3.7925	.60019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041818 Acquired: 3/29/2011 17:43:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-46.590**	F **156.23**	F **-35877.**	**.00561**	**.01193**	**2.3590**	**.01029**
Stddev	65.614	.14	66.	.00288	.00101	.0049	.00029
%RSD	140.84	.08660	.18389	51.373	8.4301	.20681	2.7819
#1	29.151	156.26	-35847.	.00772	.01115	2.3625	.01033
#2	-82.778	156.08	-35831.	.00678	.01306	2.3534	.00999
#3	-86.141	156.35	-35953.	.00233	.01156	2.3610	.01056
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27355**	**.28615**	**.00617**	**.39938**	**1.3686**	**.09756**
Stddev	.00067	.00094	.00104	.00008	.0014	.00080
%RSD	.24488	.32797	16.893	.02018	.10371	.81782
#1	.27432	.28671	.00722	.39946	1.3681	.09678
#2	.27322	.28507	.00514	.39938	1.3675	.09753
#3	.27311	.28668	.00615	.39930	1.3702	.09838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47757.**	**48682.**
Stddev	74.	327.
%RSD	.15521	.67146
#1	47753.	48308.
#2	47833.	48825.
#3	47685.	48913.

Approved: March 30, 2011

Sample Name: L1103041819 Acquired: 3/29/2011 17:47:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00539**	**105.22**	**.10144**	**.12047**	**1.8188**	**.01202**	**29.817**
Stddev	.00067	.71	.00137	.00052	.0037	.00007	.114
%RSD	12.449	.67106	1.3477	.43027	.20629	.59965	.38302
#1	.00614	105.12	.10062	.12086	1.8154	.01194	29.691
#2	.00517	104.56	.10067	.12067	1.8228	.01208	29.844
#3	.00486	105.97	.10301	.11988	1.8181	.01203	29.915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00729**	**.15140**	**.24496**	**.11428**	**231.42**	**5.1291**	**.05601**
Stddev	.00003	.00046	.00281	.00047	.70	.0045	.00104
%RSD	.43002	.30252	1.1465	.41158	.30435	.08728	1.8481
#1	.00729	.15093	.24260	.11374	230.68	5.1313	.05493
#2	.00726	.15142	.24807	.11454	231.50	5.1321	.05611
#3	.00732	.15184	.24422	.11457	232.09	5.1240	.05700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.000**	**5.8384**	**.00872**	**1.7587**	**.14065**	**2.3513**	**.36617**
Stddev	.063	.0369	.00023	.0100	.00016	.0061	.00115
%RSD	.42162	.63147	2.6134	.56951	.11137	.25936	.31508
#1	14.967	5.7976	.00851	1.7488	.14070	2.3540	.36750
#2	14.960	5.8484	.00896	1.7584	.14047	2.3443	.36538
#3	15.072	5.8692	.00869	1.7688	.14077	2.3555	.36564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041819 Acquired: 3/29/2011 17:47:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-78.939**	F **104.53**	F **-21382.**	**.00456**	**.00997**	**2.7907**	**.00839**
Stddev	48.848	.28	33.	.00100	.00100	.0326	.00017
%RSD	61.881	.26693	.15636	21.987	10.070	1.1680	2.0380
#1	-74.734	104.21	-21386.	.00559	.01083	2.7872	.00821
#2	-32.330	104.68	-21346.	.00448	.01022	2.8249	.00856
#3	-129.75	104.71	-21413.	.00360	.00887	2.7600	.00839
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24558**	**.31132**	**.00770**	**.39663**	**.67853**	**.10695**
Stddev	.00082	.00111	.00114	.00265	.00207	.00043
%RSD	.33192	.35805	14.746	.66928	.30561	.40050
#1	.24469	.31004	.00901	.39363	.67625	.10660
#2	.24576	.31203	.00708	.39759	.67903	.10743
#3	.24629	.31190	.00701	.39867	.68030	.10683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47627.**	**47926.**
Stddev	89.	68.
%RSD	.18771	.14203
#1	47722.	47853.
#2	47544.	47986.
#3	47614.	47941.

Approved: March 30, 2011

Sample Name: L1103041820 Acquired: 3/29/2011 17:50:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15101**	**756.81**	**.15912**	**3.7135**	**36.188**	^ *****
Stddev	.00017	8.25	.00235	.0629	.256	-----
%RSD	.11246	1.0907	1.4792	1.6935	.70603	-----
#1	.15121	748.65	.15730	3.6572	36.437	^ -----
#2	.15090	765.15	.16178	3.7814	36.200	^ -----
#3	.15093	756.63	.15827	3.7019	35.927	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1274.3**	**.01907**	**.19552**	**.44255**	**1.2883**	**313.21**
Stddev	7.9	.00013	.00132	.00730	.0089	.84
%RSD	.61668	.70234	.67699	1.6492	.68849	.26774
#1	1281.2	.01901	.19569	.43548	1.2888	313.10
#2	1275.9	.01922	.19675	.45005	1.2970	314.10
#3	1265.8	.01897	.19412	.44210	1.2792	312.43
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.374**	**.44731**	**155.37**	**1.6194**	**.06023**	**67.876**
Stddev	.040	.00162	.14	.0062	.00059	.179
%RSD	.24616	.36319	.09276	.38050	.98779	.26328
#1	16.370	.44893	155.38	1.6216	.06066	68.070
#2	16.416	.44568	155.52	1.6241	.06048	67.840
#3	16.336	.44732	155.23	1.6124	.05955	67.718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103041820 Acquired: 3/29/2011 17:50:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47803**	**38.983**	**.17551**	F **-127.68**	F **1833.6**	F **-163490.**
Stddev	.04192	.210	.00479	24.61	11.1	2237.
%RSD	8.7696	.53813	2.7306	19.277	.60592	1.3681
#1	.45475	39.069	.18026	-129.81	1831.5	-162330.
#2	.52642	39.136	.17559	-102.07	1845.7	-166060.
#3	.45290	38.744	.17068	-151.16	1823.7	-162070.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01541**	**.03752**	F **97.334**	**.05458**	F **20.601**	**21.633**
Stddev	.00102	.00486	5.056	.00005	.163	.019
%RSD	6.6054	12.943	5.1943	.09873	.78917	.08629
#1	.01499	.03209	100.69	.05459	20.421	21.652
#2	.01657	.04144	99.787	.05463	20.646	21.631
#3	.01467	.03904	91.519	.05452	20.736	21.615
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit			90.000		4.5000	
Low Limit			-1.0000		-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.08106**	**2.2254**	**1.0140**	**1.1341**
Stddev	.00458	.0389	.0699	.0181
%RSD	5.6445	1.7465	6.8897	1.5949
#1	.08012	2.1893	.97942	1.1186
#2	.07702	2.2666	1.0944	1.1539
#3	.08603	2.2202	.96809	1.1296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: March 30, 2011

Sample Name: L1103041820 Acquired: 3/29/2011 17:50:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46007.**	**52301.**
Stddev	715.	253.
%RSD	1.5545	.48375
#1	46644.	52063.
#2	45233.	52272.
#3	46144.	52567.

Approved: March 30, 2011

Sample Name: L1103041821 Acquired: 3/29/2011 17:54:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02287**	**181.56**	**.13941**	**.55197**	**6.4625**	**.01242**	**203.62**
Stddev	.00022	1.66	.00261	.00094	.0906	.00001	.42
%RSD	.95332	.91545	1.8695	.17052	1.4015	.10460	.20868
#1	.02261	179.75	.13946	.55306	6.5670	.01243	204.01
#2	.02301	183.02	.14199	.55145	6.4144	.01242	203.68
#3	.02297	181.91	.13678	.55141	6.4061	.01241	203.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01777**	**.14035**	**.27472**	**.35647**	**310.16**	**9.4952**	**.09245**
Stddev	.00013	.00110	.00009	.00320	.97	.0192	.00039
%RSD	.71919	.78093	.03347	.89668	.31186	.20257	.41841
#1	.01785	.14076	.27482	.35925	311.16	9.4732	.09207
#2	.01784	.14118	.27464	.35718	309.24	9.5091	.09243
#3	.01762	.13911	.27470	.35298	310.07	9.5032	.09284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.600**	**6.4377**	**.02788**	**10.181**	**.20501**	**11.606**	**.58573**
Stddev	.116	.0243	.00040	.027	.00148	.062	.00350
%RSD	.33505	.37682	1.4490	.26695	.72273	.53321	.59758
#1	34.709	6.4654	.02772	10.198	.20538	11.671	.58841
#2	34.612	6.4201	.02834	10.195	.20627	11.598	.58701
#3	34.478	6.4275	.02757	10.150	.20338	11.548	.58177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041821 Acquired: 3/29/2011 17:54:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-100.87**	F **428.57**	F **-66523.**	**.00814**	**.02312**	**16.127**	**.02588**
Stddev	62.17	3.13	257.	.00025	.00275	.099	.00013
%RSD	61.638	.72954	.38623	3.0289	11.909	.61680	.51914
#1	-81.806	432.13	-66795.	.00841	.02142	16.232	.02603
#2	-170.34	427.32	-66491.	.00794	.02629	16.116	.02581
#3	-50.457	426.27	-66284.	.00807	.02164	16.034	.02579
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1705**	**1.8339**	**.01657**	**.60814**	**1.5158**	**.16429**
Stddev	.0232	.0035	.00060	.00066	.0025	.00032
%RSD	.73302	.18957	3.6431	.10929	.16287	.19458
#1	3.1946	1.8370	.01681	.60742	1.5181	.16459
#2	3.1483	1.8302	.01702	.60873	1.5160	.16433
#3	3.1685	1.8344	.01589	.60826	1.5132	.16396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46715.**	**48139.**
Stddev	97.	577.
%RSD	.20735	1.1976
#1	46604.	47502.
#2	46782.	48288.
#3	46758.	48626.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 17:58:50 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42933**	**10.450**	**.42503**	**.52775**	**1.0198**	**.05267**	**9.8762**
Stddev	.00098	.025	.00171	.00089	.0060	.00008	.0221
%RSD	.22806	.24256	.40166	.16910	.58658	.16031	.22325
#1	.42838	10.421	.42492	.52695	1.0261	.05259	9.8994
#2	.42929	10.466	.42338	.52871	1.0191	.05267	9.8738
#3	.43033	10.464	.42679	.52760	1.0142	.05276	9.8555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05341**	**.21439**	**.52960**	**.53895**	**3.9010**	**50.509**	**1.0239**
Stddev	.00018	.00090	.00055	.00135	.0177	.163	.0053
%RSD	.33497	.42115	.10362	.25119	.45433	.32335	.51785
#1	.05325	.21366	.52899	.53765	3.9210	50.653	1.0297
#2	.05338	.21412	.53004	.54036	3.8945	50.544	1.0224
#3	.05361	.21540	.52977	.53885	3.8874	50.332	1.0194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5537**	**.46720**	**1.0060**	**49.647**	**.52363**	F **-.00267**	**.52831**
Stddev	.0339	.00184	.0003	.088	.00066	.00339	.00077
%RSD	.35444	.39297	.02786	.17640	.12695	127.09	.14648
#1	9.5383	.46927	1.0057	49.723	.52286	-.00504	.52808
#2	9.5303	.46655	1.0063	49.666	.52398	.00122	.52768
#3	9.5925	.46577	1.0059	49.551	.52404	-.00418	.52917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 17:58:50 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **92.123**	**10.495**	F **24.684**	**1.3066**	**.41424**	F **.00570**	**1.0562**
Stddev	64.907	.023	13.129	.0036	.00297	.00036	.0050
%RSD	70.457	.21855	53.189	.27887	.71660	6.3533	.47821
#1	29.373	10.489	12.941	1.3068	.41473	.00607	1.0521
#2	158.99	10.475	22.252	1.3102	.41694	.00535	1.0619
#3	88.004	10.520	38.860	1.3029	.41106	.00567	1.0547
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98659**	**1.0017**	**.53836**	**1.0522**	**1.0129**	F **.00087**
Stddev	.00164	.0022	.00102	.0007	.0011	.00010
%RSD	.16617	.21536	.19029	.06596	.10952	11.610
#1	.98848	1.0023	.53743	1.0515	1.0138	.00082
#2	.98554	1.0035	.53820	1.0529	1.0133	.00081
#3	.98574	.99931	.53946	1.0523	1.0117	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48491.**	**44451.**
Stddev	56.	258.
%RSD	.11480	.58122
#1	48545.	44645.
#2	48495.	44550.
#3	48434.	44158.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 18:02:16 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.02011**	**.00117**	**.00350**	**.00002**	**-.00001**	**.01518**
Stddev	.00041	.00114	.00051	.00031	.00006	.00001	.00669
%RSD	521.35	5.6867	43.724	8.9929	319.18	67.089	44.055
#1	.00003	.02031	.00058	.00356	.00008	.00000	.02285
#2	-.00053	.02114	.00146	.00378	-.00001	-.00001	.01209
#3	.00027	.01888	.00148	.00316	-.00002	-.00001	.01060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00016**	**-.00049**	**-.00023**	**.00705**	**.15159**	**-.00652**
Stddev	.00003	.00009	.00013	.00010	.00400	.01111	.00047
%RSD	41.221	59.280	26.145	43.196	56.734	7.3319	7.1444
#1	-.00008	.00008	-.00058	-.00024	.00906	.15069	-.00636
#2	-.00004	.00026	-.00035	-.00033	.00244	.16312	-.00616
#3	-.00009	.00014	-.00056	-.00013	.00963	.14095	-.00705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00731**	**-.00016**	**.00015**	**.00115**	**.00065**	**-.00116**	**-.00091**
Stddev	.00413	.00033	.00020	.00291	.00046	.00299	.00088
%RSD	56.528	209.38	128.99	253.34	70.311	257.43	96.623
#1	-.00590	-.00053	.00023	-.00192	.00084	.00174	-.00035
#2	-.01196	.00010	.00030	.00387	.00099	-.00100	-.00192
#3	-.00407	-.00004	-.00007	.00149	.00013	-.00423	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 18:02:16 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **82.276**	F **.02586**	F **9.0879**	**-.00074**	**.00026**	**.00056**	**-.00037**
Stddev	56.240	.01163	8.6349	.00049	.00098	.00081	.00022
%RSD	68.356	44.976	95.015	65.852	376.56	144.97	58.356
#1	66.118	.02557	.88111	-.00069	.00091	.00110	-.00049
#2	144.83	.01438	8.2875	-.00125	-.00086	.00095	-.00012
#3	35.883	.03764	18.095	-.00028	.00073	-.00037	-.00050
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00170**	**-.00005**	**-.00015**	**.00253**	**.00015**
Stddev	.00005	.00057	.00068	.00015	.00033	.00002
%RSD	49.067	33.727	1427.3	106.17	12.856	10.844
#1	.00014	.00138	.00007	-.00013	.00247	.00017
#2	.00004	.00236	-.00078	-.00031	.00224	.00015
#3	.00011	.00135	.00056	.00000	.00288	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48678.**	**44620.**
Stddev	88.	164.
%RSD	.18108	.36678
#1	48587.	44571.
#2	48683.	44803.
#3	48763.	44487.

Approved: March 30, 2011

Sample Name: L1103041822 Acquired: 3/29/2011 18:06:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12248**	**670.11**	**.16503**	**2.7984**	**35.284**	^ *****
Stddev	.00626	4.26	.00411	.0185	1.624	-----
%RSD	5.1135	.63512	2.4894	.66214	4.6023	-----
#1	.11926	666.50	.16386	2.7827	34.334	^ -----
#2	.12970	669.04	.16163	2.8189	37.159	^ -----
#3	.11848	674.80	.16959	2.7937	34.359	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1093.6**	**.02503**	**.20723**	**.45955**	**1.2206**	**354.49**
Stddev	50.9	.00047	.00100	.00041	.0048	20.06
%RSD	4.6586	1.8800	.48198	.08967	.39363	5.6575
#1	1063.6	.02468	.20733	.45937	1.2151	341.53
#2	1152.4	.02556	.20619	.46002	1.2240	377.59
#3	1064.8	.02484	.20818	.45926	1.2228	344.36
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.633**	**.40740**	**132.71**	**3.4799**	**.05798**	**60.941**
Stddev	.971	.02088	7.80	.1920	.00034	3.107
%RSD	5.2110	5.1254	5.8807	5.5168	.58210	5.0990
#1	18.033	.39593	127.51	3.3505	.05782	59.088
#2	19.753	.43150	141.68	3.7005	.05836	64.529
#3	18.113	.39477	128.93	3.3888	.05774	59.207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103041822 Acquired: 3/29/2011 18:06:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45775**	**36.568**	**.39731**	F **-109.19**	F **1541.6**	F **-149820.**
Stddev	.00057	.073	.00294	35.85	8.2	205.
%RSD	.12413	.20074	.73974	32.831	.53031	.13683
#1	.45780	36.515	.39668	-94.630	1532.2	-149770.
#2	.45716	36.652	.40051	-150.02	1545.3	-150040.
#3	.45830	36.537	.39473	-82.906	1547.3	-149640.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01804**	**.04987**	**63.650**	**.05318**	F **18.418**	**17.303**
Stddev	.00076	.00131	2.281	.00164	.445	.930
%RSD	4.2208	2.6222	3.5829	3.0804	2.4162	5.3725
#1	.01881	.04877	65.206	.05188	18.197	16.750
#2	.01802	.04953	64.712	.05502	18.930	18.376
#3	.01728	.05131	61.032	.05263	18.126	16.782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					4.5000	
Low Limit					-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.06700**	**1.9058**	**1.8495**	**.89926**
Stddev	.00409	.0075	.0070	.00371
%RSD	6.1027	.39252	.38123	.41310
#1	.06228	1.9008	1.8432	.89504
#2	.06922	1.9144	1.8571	.90066
#3	.06950	1.9021	1.8482	.90206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: March 30, 2011

Sample Name: L1103041822 Acquired: 3/29/2011 18:06:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45719.**	**49665.**
Stddev	7.	2314.
%RSD	.01463	4.6584
#1	45726.	51055.
#2	45717.	46995.
#3	45714.	50947.

Approved: March 30, 2011

Sample Name: L1103041823 Acquired: 3/29/2011 18:09:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01799**	**283.75**	**.14287**	**.55289**	**10.100**	**.01714**	**269.10**
Stddev	.00121	1.11	.00085	.00047	.094	.00010	1.80
%RSD	6.7101	.39239	.59413	.08449	.93556	.55806	.66885
#1	.01711	282.48	.14271	.55236	9.9920	.01707	267.63
#2	.01749	284.56	.14211	.55323	10.140	.01725	268.55
#3	.01936	284.21	.14379	.55308	10.168	.01710	271.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01692**	**.21207**	**.31325**	**.44605**	**369.74**	**11.057**	**.16096**
Stddev	.00004	.00129	.00120	.00336	2.32	.085	.00088
%RSD	.23302	.60930	.38166	.75230	.62875	.76588	.54895
#1	.01688	.21225	.31240	.44616	368.27	11.014	.15995
#2	.01695	.21326	.31462	.44934	368.53	11.003	.16158
#3	.01694	.21070	.31274	.44264	372.42	11.155	.16135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**47.857**	**8.5760**	**.02512**	**14.700**	**.28334**	**11.710**	**.53625**
Stddev	.208	.0876	.00037	.078	.00078	.059	.00255
%RSD	.43367	1.0212	1.4850	.53161	.27437	.50618	.47466
#1	47.714	8.5121	.02538	14.635	.28246	11.728	.53332
#2	47.763	8.5401	.02529	14.678	.28360	11.758	.53789
#3	48.095	8.6759	.02469	14.786	.28395	11.644	.53754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041823 Acquired: 3/29/2011 18:09:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.166**	F **498.23**	F **-69300.**	**.00860**	**.02038**	**14.843**	**.01860**
Stddev	30.426	1.78	212.	.00071	.00685	.090	.00063
%RSD	55.153	.35686	.30546	8.2508	33.593	.60439	3.3726
#1	-20.632	498.21	-69285.	.00899	.02828	14.850	.01835
#2	-66.841	500.03	-69519.	.00903	.01609	14.929	.01932
#3	-78.026	496.47	-69096.	.00778	.01677	14.750	.01814
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.5929**	**1.7808**	**.01792**	**.73566**	**1.5308**	**.24905**
Stddev	.0929	.0046	.00243	.00351	.0042	.00054
%RSD	2.0223	.25625	13.581	.47680	.27322	.21616
#1	4.5163	1.7768	.01598	.73370	1.5330	.24924
#2	4.5661	1.7798	.01714	.73971	1.5335	.24946
#3	4.6962	1.7857	.02065	.73357	1.5260	.24844
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46016.**	**48337.**
Stddev	133.	274.
%RSD	.28991	.56666
#1	46051.	48426.
#2	45869.	48555.
#3	46129.	48030.

Approved: March 30, 2011

Sample Name: L1103041824 Acquired: 3/29/2011 18:13:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02371**	**350.06**	**.12035**	**.74272**	**15.803**	**.01737**	**470.81**
Stddev	.00051	1.98	.00301	.00133	.109	.00007	3.95
%RSD	2.1414	.56504	2.4988	.17843	.68722	.39909	.83805
#1	.02384	352.28	.12278	.74210	15.698	.01742	466.35
#2	.02414	348.49	.12127	.74424	15.915	.01741	472.26
#3	.02315	349.40	.11699	.74181	15.796	.01729	473.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01608**	**.12602**	**.23607**	**.55142**	**275.38**	**12.341**	**.20910**
Stddev	.00011	.00064	.00070	.00338	1.35	.065	.00006
%RSD	.70826	.50883	.29475	.61250	.49191	.52278	.02722
#1	.01615	.12665	.23644	.55296	274.51	12.279	.20909
#2	.01614	.12605	.23650	.55375	274.70	12.337	.20917
#3	.01595	.12536	.23527	.54754	276.95	12.408	.20906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**58.798**	**3.4673**	**.02879**	**30.673**	**.27815**	**15.077**	**.74741**
Stddev	.355	.0177	.00069	.198	.00149	.084	.00273
%RSD	.60392	.50955	2.3956	.64579	.53717	.56004	.36504
#1	58.388	3.4554	.02922	30.446	.27979	15.128	.74669
#2	59.000	3.4588	.02915	30.808	.27779	15.124	.75043
#3	59.006	3.4876	.02799	30.766	.27686	14.980	.74512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041824 Acquired: 3/29/2011 18:13:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-61.337**	F **736.24**	F **-83657.**	**.00753**	**.01164**	**18.551**	**.01627**
Stddev	17.585	3.48	232.	.00065	.00090	.053	.00037
%RSD	28.670	.47290	.27786	8.6448	7.7582	.28494	2.2514
#1	-78.782	738.12	-83845.	.00806	.01060	18.598	.01594
#2	-43.615	738.38	-83728.	.00680	.01223	18.559	.01620
#3	-61.613	732.23	-83397.	.00774	.01210	18.494	.01667
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.0944**	**2.6472**	**.02541**	**.97369**	**1.4513**	**.37152**
Stddev	.0778	.0089	.00207	.00378	.0103	.00047
%RSD	.96067	.33516	8.1543	.38835	.71047	.12625
#1	8.0272	2.6370	.02426	.97458	1.4557	.37098
#2	8.0764	2.6521	.02418	.97695	1.4586	.37175
#3	8.1796	2.6526	.02781	.96954	1.4395	.37183
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46014.**	**48504.**
Stddev	57.	125.
%RSD	.12347	.25760
#1	45953.	48645.
#2	46025.	48461.
#3	46065.	48407.

Approved: March 30, 2011

Sample Name: L1103041825 Acquired: 3/29/2011 18:17:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00966**	**218.27**	**.13757**	**.28251**	**6.1317**	**.01743**	**163.28**
Stddev	.00111	1.12	.00192	.00226	.1032	.00007	1.01
%RSD	11.479	.51106	1.3934	.80147	1.6829	.42122	.61924
#1	.00934	219.24	.13975	.28091	6.0661	.01736	162.83
#2	.00875	217.05	.13679	.28510	6.2506	.01742	164.44
#3	.01090	218.51	.13616	.28152	6.0783	.01751	162.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00912**	**.21205**	**.30021**	**.26041**	**379.12**	**6.7043**	**.11149**
Stddev	.00007	.00087	.00131	.00268	1.61	.0280	.00098
%RSD	.81276	.41129	.43472	1.0303	.42372	.41762	.88210
#1	.00904	.21175	.30028	.26142	377.85	6.6886	.11070
#2	.00917	.21303	.29887	.26245	380.93	6.7366	.11259
#3	.00916	.21137	.30148	.25737	378.59	6.6876	.11117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.989**	**8.3398**	**.01662**	**9.5976**	**.23041**	**6.1727**	**.42912**
Stddev	.211	.0556	.00009	.0478	.00129	.0139	.00636
%RSD	.63910	.66690	.56462	.49829	.56161	.22475	1.4822
#1	32.783	8.2998	.01669	9.5685	.23054	6.1771	.43114
#2	32.980	8.4033	.01667	9.6528	.23163	6.1839	.43421
#3	33.204	8.3164	.01652	9.5715	.22905	6.1572	.42199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041825 Acquired: 3/29/2011 18:17:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.5492**	F **264.92**	F **-30939.**	**.00616**	**.01317**	**7.8074**	**.01051**
Stddev	14.353	.75	213.	.00192	.00126	.0189	.00014
%RSD	150.30	.28319	.68856	31.116	9.5305	.24201	1.3658
#1	1.1224	264.68	-31072.	.00445	.01353	7.8056	.01035
#2	26.122	265.76	-31052.	.00824	.01178	7.8272	.01061
#3	1.4037	264.32	-30693.	.00580	.01422	7.7895	.01057
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.6765**	**.66125**	**.01324**	**.63114**	**.71964**	**.21039**
Stddev	.0283	.00187	.00201	.00017	.00076	.00049
%RSD	1.0556	.28277	15.201	.02703	.10616	.23446
#1	2.6557	.65933	.01259	.63102	.71884	.20992
#2	2.7086	.66307	.01164	.63106	.71973	.21090
#3	2.6651	.66134	.01550	.63134	.72036	.21033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46617.**	**47134.**
Stddev	114.	222.
%RSD	.24366	.47184
#1	46561.	47389.
#2	46542.	47028.
#3	46748.	46984.

Approved: March 30, 2011

Sample Name: L1103041829 Acquired: 3/29/2011 18:21:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00353**	**77.761**	**.08880**	**.07938**	**1.2157**	**.00769**	F **2271.7**
Stddev	.00010	.057	.00162	.00059	.0037	.00006	27.5
%RSD	2.9249	.07388	1.8290	.73800	.30628	.76531	1.2084
#1	.00345	77.699	.08780	.07906	1.2175	.00768	2280.2
#2	.00350	77.813	.09068	.07902	1.2183	.00763	2293.9
#3	.00365	77.772	.08794	.08005	1.2114	.00775	2241.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01453**	**.08261**	**.13350**	**.12848**	**151.90**	**5.5539**	**.15751**
Stddev	.00006	.00061	.00027	.00133	.42	.0388	.00058
%RSD	.39582	.73863	.20591	1.0347	.27905	.69882	.36685
#1	.01447	.08237	.13322	.12801	152.38	5.5301	.15718
#2	.01457	.08331	.13352	.12998	151.76	5.5986	.15718
#3	.01455	.08217	.13377	.12744	151.57	5.5329	.15818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.822**	**4.5373**	**.01577**	**4.7401**	**.13326**	**3.4677**	**.55308**
Stddev	.164	.0157	.00008	.0172	.00109	.0263	.00370
%RSD	.33608	.34485	.50929	.36223	.81589	.75815	.66904
#1	49.003	4.5505	.01576	4.7523	.13302	3.4770	.55497
#2	48.685	4.5414	.01586	4.7474	.13445	3.4881	.55546
#3	48.776	4.5200	.01570	4.7204	.13232	3.4380	.54882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041829 Acquired: 3/29/2011 18:21:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.2674**	F **2471.8**	F **-37901.**	**.01015**	**.01096**	**2.9667**	**.00603**
Stddev	33.903	2.4	185.	.00091	.00266	.0107	.00052
%RSD	643.63	.09826	.48691	9.0039	24.265	.36072	8.6292
#1	7.8516	2472.0	-37985.	.00926	.00872	2.9783	.00663
#2	-29.853	2469.3	-38029.	.01010	.01026	2.9644	.00574
#3	37.804	2474.1	-37690.	.01109	.01390	2.9573	.00572
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.2635**	**.18453**	**.00349**	**.23414**	**1.1964**	**.07063**
Stddev	.1115	.00105	.00107	.00070	.0006	.00005
%RSD	1.2036	.56653	30.619	.30092	.05045	.07429
#1	9.1670	.18420	.00226	.23387	1.1958	.07060
#2	9.2378	.18570	.00411	.23361	1.1963	.07069
#3	9.3855	.18368	.00411	.23494	1.1970	.07060
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**42235.**	**45453.**
Stddev	71.	335.
%RSD	.16888	.73708
#1	42241.	45068.
#2	42302.	45612.
#3	42160.	45679.

Approved: March 30, 2011

Sample Name: L1103041830S Acquired: 3/29/2011 18:25:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23706**	**71.811**	**.30533**	**.08954**	**1.1970**	**.00810**	F **2285.8**
Stddev	.00028	.231	.00193	.00049	.0072	.00001	14.2
%RSD	.11871	.32160	.63248	.54930	.59884	.13627	.61922
#1	.23681	72.076	.30522	.08946	1.1894	.00810	2293.7
#2	.23737	71.700	.30345	.08910	1.1979	.00808	2294.3
#3	.23702	71.656	.30731	.09007	1.2037	.00810	2269.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04266**	**.09397**	**.15069**	**.36414**	**176.86**	**5.1849**	**.15434**
Stddev	.00047	.00026	.00063	.00174	.81	.0482	.00155
%RSD	1.0910	.27348	.41799	.47900	.46009	.93035	1.0034
#1	.04299	.09379	.15117	.36595	176.11	5.1327	.15256
#2	.04287	.09427	.14998	.36400	176.76	5.1940	.15540
#3	.04213	.09387	.15093	.36247	177.72	5.2279	.15505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**53.753**	**5.7143**	**.01609**	**4.6462**	**.13025**	**3.3160**	**.77332**
Stddev	.173	.0529	.00030	.0100	.00089	.0130	.00622
%RSD	.32225	.92580	1.8864	.21499	.67957	.39060	.80471
#1	53.649	5.6601	.01611	4.6430	.13114	3.3071	.77086
#2	53.658	5.7171	.01638	4.6381	.13025	3.3101	.76870
#3	53.953	5.7658	.01577	4.6573	.12937	3.3308	.78040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041830S Acquired: 3/29/2011 18:25:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3980**	F **2482.8**	F **-29845.**	**.01146**	**.01321**	**3.2525**	**.00650**
Stddev	43.096	3.9	115.	.00152	.00180	.0192	.00014
%RSD	3082.8	.15680	.38617	13.260	13.636	.59029	2.2280
#1	51.137	2487.2	-29777.	.01150	.01442	3.2648	.00653
#2	-22.121	2479.6	-29780.	.00993	.01114	3.2624	.00663
#3	-24.822	2481.7	-29978.	.01297	.01408	3.2304	.00635
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.1627**	**.20349**	**.00379**	**.28322**	**1.1815**	**.06812**
Stddev	.1080	.00045	.00159	.00026	.0004	.00007
%RSD	1.1782	.22018	42.057	.09096	.03449	.09584
#1	9.1017	.20385	.00462	.28297	1.1813	.06817
#2	9.0991	.20299	.00195	.28349	1.1813	.06805
#3	9.2873	.20364	.00479	.28320	1.1820	.06815
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**41928.**	**45097.**
Stddev	85.	155.
%RSD	.20244	.34351
#1	41832.	44977.
#2	41958.	45272.
#3	41994.	45042.

Approved: March 30, 2011

Sample Name: L1103041831SD Acquired: 3/29/2011 18:29:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22501**	**67.416**	**.29254**	**.08221**	**1.1583**	**.00806**	F **1926.4**
Stddev	.00173	.191	.00011	.00045	.0012	.00002	42.2
%RSD	.76703	.28322	.03925	.54842	.10708	.24760	2.1929
#1	.22684	67.373	.29241	.08169	1.1575	.00808	1883.4
#2	.22479	67.625	.29262	.08246	1.1597	.00804	1927.9
#3	.22340	67.250	.29258	.08247	1.1577	.00806	1967.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04069**	**.07915**	**.15069**	**.36689**	**159.87**	**4.5655**	**.12637**
Stddev	.00007	.00022	.00055	.00058	.10	.0298	.00045
%RSD	.17306	.27628	.36607	.15823	.06400	.65174	.35972
#1	.04076	.07896	.15056	.36624	159.82	4.5333	.12584
#2	.04069	.07910	.15130	.36736	159.80	4.5712	.12663
#3	.04062	.07939	.15022	.36708	159.99	4.5920	.12663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**43.413**	**4.0996**	**.01390**	**4.6959**	**.12051**	**2.9542**	**.76739**
Stddev	.087	.0147	.00031	.0280	.00037	.0139	.00244
%RSD	.20137	.35985	2.2127	.59697	.30589	.46938	.31770
#1	43.404	4.0839	.01424	4.6647	.12023	2.9614	.76930
#2	43.331	4.1132	.01364	4.7040	.12093	2.9630	.76821
#3	43.505	4.1016	.01382	4.7190	.12039	2.9382	.76464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041831SD Acquired: 3/29/2011 18:29:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.460**	F **2053.6**	F **-28336.**	**.01114**	**.01114**	**2.8993**	**.00638**
Stddev	54.509	3.6	205.	.00050	.00150	.0288	.00013
%RSD	134.72	.17669	.72354	4.5259	13.419	.99284	1.9723
#1	-24.949	2050.6	-28438.	.01066	.01031	2.8870	.00624
#2	-101.04	2052.6	-28469.	.01167	.01025	2.9322	.00643
#3	4.611	2057.6	-28099.	.01110	.01287	2.8787	.00647
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **7.7218**	**.20433**	**.00427**	**.25796**	**1.1878**	**.06049**
Stddev	.1396	.00067	.00099	.00040	.0057	.00013
%RSD	1.8077	.32585	23.199	.15386	.48102	.20921
#1	7.7369	.20357	.00525	.25802	1.1842	.06035
#2	7.8532	.20465	.00327	.25832	1.1848	.06058
#3	7.5753	.20478	.00430	.25753	1.1944	.06055
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**42760.**	**45091.**
Stddev	81.	122.
%RSD	.18983	.27084
#1	42756.	44951.
#2	42681.	45146.
#3	42843.	45175.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 18:32:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43658**	**10.380**	**.43134**	**.52839**	**.99886**	**.05326**	**9.9726**
Stddev	.00212	.038	.00125	.00185	.00173	.00017	.0802
%RSD	.48526	.36471	.29055	.35090	.17315	.32509	.80443
#1	.43623	10.371	.43279	.52880	.99932	.05329	10.065
#2	.43465	10.347	.43063	.52637	.99695	.05307	9.9285
#3	.43885	10.421	.43061	.53001	1.0003	.05341	9.9241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05391**	**.21785**	**.53018**	**.54804**	**3.8204**	**49.907**	**1.0094**
Stddev	.00006	.00031	.00169	.00054	.0127	.026	.0015
%RSD	.10451	.14075	.31960	.09785	.33325	.05310	.14939
#1	.05397	.21750	.53057	.54865	3.8304	49.926	1.0110
#2	.05385	.21806	.52833	.54766	3.8060	49.877	1.0081
#3	.05392	.21798	.53166	.54781	3.8247	49.918	1.0090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.4575**	**.45684**	**1.0044**	**49.168**	**.52831**	F **-.00062**	**.53244**
Stddev	.0440	.00248	.0009	.125	.00024	.00019	.00237
%RSD	.46552	.54180	.09382	.25385	.04544	31.117	.44473
#1	9.5048	.45827	1.0037	49.214	.52819	-.00047	.53470
#2	9.4177	.45398	1.0054	49.027	.52815	-.00055	.52998
#3	9.4500	.45826	1.0039	49.264	.52858	-.00084	.53266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 18:32:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **112.23**	**10.838**	F **36.791**	**1.3172**	**.41056**	F **.00527**	**1.0683**
Stddev	41.65	.057	4.698	.0070	.00226	.00109	.0074
%RSD	37.110	.52693	12.771	.53543	.55128	20.734	.69540
#1	160.18	10.904	40.512	1.3148	.41008	.00406	1.0643
#2	91.432	10.805	31.511	1.3117	.40857	.00618	1.0636
#3	85.071	10.806	38.349	1.3252	.41302	.00556	1.0768
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96979**	**.98555**	**.54747**	**1.0591**	**1.0263**	F **.00072**
Stddev	.00302	.00287	.00460	.0049	.0014	.00005
%RSD	.31165	.29120	.84057	.45854	.13528	6.5334
#1	.97200	.98861	.54809	1.0586	1.0254	.00068
#2	.96635	.98292	.54259	1.0545	1.0256	.00072
#3	.97103	.98512	.55173	1.0642	1.0279	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48417.**	**44749.**
Stddev	116.	289.
%RSD	.23947	.64632
#1	48518.	44452.
#2	48443.	45030.
#3	48290.	44764.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 18:36:12 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.01617**	**.00079**	**.00146**	**-.00037**	**.00001**	**.03523**
Stddev	.00045	.00203	.00065	.00021	.00010	.00001	.02066
%RSD	256.77	12.574	81.784	14.236	25.651	196.47	58.644
#1	-.00062	.01506	.00077	.00136	-.00045	.00001	.01393
#2	-.00019	.01851	.00015	.00169	-.00027	.00001	.03657
#3	.00028	.01493	.00145	.00131	-.00041	-.00001	.05519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00004**	**-.00041**	**-.00029**	**.00028**	**.13261**	**-.00607**
Stddev	.00006	.00004	.00025	.00002	.00286	.01716	.00016
%RSD	32.759	106.60	60.326	8.6835	1005.2	12.936	2.6256
#1	-.00021	.00006	-.00037	-.00027	-.00208	.15030	-.00624
#2	-.00011	.00006	-.00018	-.00032	-.00053	.13149	-.00593
#3	-.00022	-.00001	-.00067	-.00027	.00347	.11604	-.00604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02160**	**-.00019**	**.00005**	**-.00583**	**.00090**	**-.00060**	**.00105**
Stddev	.01036	.00014	.00007	.00306	.00016	.00261	.00054
%RSD	47.977	74.080	146.10	52.500	18.075	437.05	51.256
#1	-.03303	-.00015	-.00003	-.00239	.00078	-.00156	.00153
#2	-.01281	-.00035	.00007	-.00826	.00109	.00236	.00113
#3	-.01897	-.00007	.00011	-.00685	.00083	-.00259	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 18:36:12 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **139.31**	**.00205**	F **24.821**	**-.00178**	**-.00002**	**.00003**	**-.00033**
Stddev	89.66	.02213	10.264	.00192	.00082	.00063	.00032
%RSD	64.357	1079.8	41.352	107.58	4537.2	2386.1	98.454
#1	207.47	-.01586	13.361	-.00063	.00051	-.00013	-.00063
#2	172.72	.02679	33.169	-.00073	-.00096	.00072	-.00037
#3	37.747	-.00478	27.931	-.00400	.00040	-.00051	.00001
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000		.01000				
Low Limit	-.01000		-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00018**	**-.00019**	**.00006**	**.00351**	**.00009**
Stddev	.00010	.00043	.00033	.00010	.00002	.00005
%RSD	17243.	243.50	174.40	158.32	.67227	55.211
#1	-.00010	.00062	.00010	-.00005	.00349	.00004
#2	.00001	-.00024	-.00013	.00012	.00352	.00014
#3	.00009	.00015	-.00055	.00012	.00354	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49110.**	**44753.**
Stddev	111.	160.
%RSD	.22624	.35845
#1	49025.	44568.
#2	49070.	44860.
#3	49236.	44830.

Approved: March 30, 2011

Sample Name: PBS 11 Acquired: 3/29/2011 18:39:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.02556**	**-.00343**	**.00166**	**.00093**	**-.00002**	**.11475**
Stddev	.00115	.00228	.00071	.00036	.00002	.00002	.00264
%RSD	824.43	8.9286	20.704	21.803	2.6808	88.068	2.2979
#1	-.00119	.02790	-.00281	.00199	.00095	-.00004	.11691
#2	.00076	.02545	-.00421	.00173	.00091	.00000	.11555
#3	.00084	.02334	-.00328	.00127	.00092	-.00002	.11181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00053**	**.00026**	**.00012**	**.01816**	**.48674**	**-.00583**
Stddev	.00010	.00021	.00011	.00002	.00178	.01827	.00040
%RSD	44.697	40.125	41.869	17.553	9.7982	3.7527	6.8126
#1	.00032	-.00037	.00014	.00014	.01993	.50679	-.00611
#2	.00019	-.00045	.00035	.00010	.01638	.47105	-.00600
#3	.00013	-.00077	.00027	.00011	.01817	.48237	-.00537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03522**	**-.00008**	**.00019**	**.04075**	**.00196**	F **-.01779**	**.00065**
Stddev	.00723	.00023	.00005	.00570	.00034	.00375	.00040
%RSD	20.530	289.79	26.643	13.995	17.097	21.064	62.544
#1	.02771	.00008	.00015	.04049	.00199	-.01373	.00101
#2	.04214	.00003	.00024	.04659	.00161	-.01852	.00021
#3	.03582	-.00035	.00017	.03519	.00228	-.02112	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: PBS 11 Acquired: 3/29/2011 18:39:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **26.067**	**5.5533**	F **-1563.9**	**.00012**	**.00388**	**.01886**	**.00019**
Stddev	34.129	.1104	16.3	.00109	.00102	.00098	.00003
%RSD	130.93	1.9881	1.0421	879.28	26.264	5.1947	16.539
#1	5.5683	5.4877	-1582.5	-.00109	.00370	.01777	.00017
#2	7.1678	5.6807	-1556.8	.00043	.00498	.01914	.00023
#3	65.466	5.4914	-1552.3	.00103	.00296	.01967	.00018
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00122**	**-.00200**	**-.00025**	**.00562**	**.00012**
Stddev	.00003	.00057	.00123	.00004	.00029	.00009
%RSD	7.1788	47.218	61.344	15.411	5.1867	70.660
#1	.00038	.00185	-.00163	-.00028	.00536	.00022
#2	.00042	.00105	-.00100	-.00026	.00556	.00010
#3	.00044	.00074	-.00338	-.00021	.00594	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47028.**	**44683.**
Stddev	183.	365.
%RSD	.38936	.81635
#1	46878.	45096.
#2	46974.	44547.
#3	47232.	44406.

Approved: March 30, 2011

Sample Name: LCSS 11 Acquired: 3/29/2011 18:43:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20649**	**.02055**	**.20606**	**.00161**	**.00369**	**-.00002**	**.06038**
Stddev	.00027	.00112	.00150	.00068	.00019	.00002	.00589
%RSD	.13189	5.4713	.72699	42.471	5.0713	63.777	9.7570
#1	.20679	.02165	.20464	.00098	.00349	-.00003	.06602
#2	.20644	.01941	.20762	.00233	.00373	-.00003	.05427
#3	.20625	.02058	.20591	.00151	.00385	-.00001	.06084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02689**	**-.00048**	**.00130**	**.27310**	**.02762**	**.14736**	**-.00674**
Stddev	.00012	.00004	.00023	.00036	.00139	.02271	.00112
%RSD	.45839	8.4647	17.687	.13196	5.0443	15.408	16.600
#1	.02696	-.00052	.00142	.27304	.02811	.14136	-.00758
#2	.02697	-.00049	.00146	.27348	.02869	.12826	-.00547
#3	.02675	-.00044	.00104	.27277	.02604	.17246	-.00717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.23631**	**.00031**	**.03097**	**.00226**	F **-.01766**	**.26600**
Stddev	.00599	.00078	.00008	.00422	.00069	.00169	.00105
%RSD	789.50	.32969	27.426	13.615	30.538	9.5597	.39525
#1	-.00351	.23545	.00039	.02809	.00303	-.01793	.26486
#2	.00611	.23650	.00031	.03581	.00205	-.01920	.26693
#3	-.00488	.23698	.00022	.02900	.00170	-.01586	.26620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: LCSS 11 Acquired: 3/29/2011 18:43:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **34.855**	**.37811**	F **-66.735**	**.00087**	**.00386**	**.02141**	**.00070**
Stddev	49.733	.00088	3.487	.00111	.00102	.00083	.00017
%RSD	142.69	.23357	5.2245	128.02	26.346	3.8811	23.644
#1	66.937	.37900	-62.966	-.00035	.00500	.02184	.00064
#2	-22.435	.37723	-69.846	.00113	.00307	.02045	.00089
#3	60.063	.37809	-67.392	.00183	.00351	.02194	.00057
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00134**	**-.00248**	**-.00006**	**.00673**	**.00015**
Stddev	.00002	.00028	.00063	.00004	.00189	.00000
%RSD	35.472	20.722	25.432	78.867	28.084	2.1345
#1	.00009	.00105	-.00175	-.00001	.00890	.00015
#2	.00007	.00137	-.00289	-.00008	.00581	.00014
#3	.00004	.00160	-.00279	-.00008	.00548	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47402.**	**44507.**
Stddev	103.	335.
%RSD	.21644	.75355
#1	47327.	44784.
#2	47360.	44134.
#3	47519.	44603.

Approved: March 30, 2011

Sample Name: L1103068545 Acquired: 3/29/2011 18:47:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00607**	**303.66**	**.12904**	**.30632**	**2.2437**	**.02156**	**32.834**
Stddev	.00035	1.55	.00174	.00578	.0040	.00007	.041
%RSD	5.6841	.51022	1.3466	1.8870	.17689	.31315	.12565
#1	.00613	305.32	.13103	.31296	2.2399	.02151	32.844
#2	.00570	303.41	.12784	.30354	2.2478	.02154	32.788
#3	.00638	302.25	.12824	.30244	2.2432	.02164	32.869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00720**	**.23537**	**.46277**	**.18406**	**592.82**	**18.352**	**.23513**
Stddev	.00015	.00061	.00265	.00107	10.90	.045	.00050
%RSD	2.0941	.25991	.57360	.58220	1.8378	.24671	.21258
#1	.00734	.23517	.46217	.18356	605.29	18.304	.23509
#2	.00722	.23489	.46046	.18333	588.02	18.357	.23465
#3	.00704	.23606	.46567	.18529	585.14	18.394	.23565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.992**	**10.595**	**.01267**	**1.8193**	**.24376**	**3.9993**	**.41234**
Stddev	.075	.018	.00018	.0113	.00011	.0093	.00217
%RSD	.24847	.17018	1.4223	.62340	.04589	.23215	.52668
#1	30.051	10.616	.01248	1.8208	.24388	3.9928	.41129
#2	30.017	10.581	.01284	1.8073	.24368	3.9952	.41089
#3	29.909	10.590	.01269	1.8298	.24370	4.0099	.41484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068545 Acquired: 3/29/2011 18:47:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-113.61**	F **105.40**	F **-21056.**	**.00160**	**.01285**	**2.5227**	**.01643**
Stddev	32.61	.22	31.	.00334	.00149	.0043	.00015
%RSD	28.705	.21159	.14618	208.69	11.556	.16885	.91657
#1	-132.71	105.47	-21043.	-.00225	.01410	2.5273	.01656
#2	-75.957	105.15	-21035.	.00369	.01324	2.5190	.01627
#3	-132.17	105.58	-21092.	.00336	.01121	2.5217	.01646
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30867**	**.46288**	**.01729**	**.73436**	**.78012**	**.19719**
Stddev	.00038	.00038	.00166	.00175	.00179	.00005
%RSD	.12169	.08123	9.5769	.23860	.22911	.02704
#1	.30885	.46266	.01669	.73423	.77923	.19712
#2	.30824	.46332	.01602	.73268	.77896	.19722
#3	.30892	.46267	.01917	.73618	.78218	.19721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47366.**	**47445.**
Stddev	63.	369.
%RSD	.13295	.77777
#1	47320.	47059.
#2	47438.	47481.
#3	47340.	47795.

Approved: March 30, 2011

Sample Name: L1103068546 Acquired: 3/29/2011 18:50:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00411**	**217.59**	**.11149**	**.16782**	**2.0475**	**.01434**	**35.150**
Stddev	.00091	1.49	.00184	.00044	.0050	.00007	.161
%RSD	22.129	.68339	1.6542	.25992	.24513	.48458	.45803
#1	.00444	216.07	.11359	.16797	2.0485	.01426	35.192
#2	.00309	219.04	.11075	.16816	2.0421	.01440	34.972
#3	.00482	217.67	.11013	.16733	2.0520	.01435	35.286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00890**	**.14925**	**.33418**	**.17008**	**303.83**	**14.711**	**.15254**
Stddev	.00004	.00052	.00076	.00100	.91	.081	.00075
%RSD	.43057	.35080	.22697	.58666	.30078	.55067	.49482
#1	.00891	.14936	.33386	.17101	304.76	14.766	.15259
#2	.00885	.14970	.33505	.17021	302.93	14.618	.15177
#3	.00893	.14867	.33363	.16902	303.81	14.748	.15327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.672**	**7.6755**	**.01223**	**2.3458**	**.15698**	**5.3412**	**.41028**
Stddev	.076	.0420	.00031	.0100	.00101	.0222	.00039
%RSD	.34918	.54708	2.5206	.42665	.64056	.41559	.09446
#1	21.753	7.6934	.01239	2.3524	.15683	5.3668	.41042
#2	21.602	7.6275	.01187	2.3343	.15805	5.3276	.41058
#3	21.662	7.7055	.01242	2.3507	.15605	5.3292	.40984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068546 Acquired: 3/29/2011 18:50:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-98.744**	F **181.43**	F **-42072.**	**.00641**	**.01299**	**2.2980**	**.01508**
Stddev	42.777	.18	227.	.00103	.00034	.0156	.00023
%RSD	43.321	.10139	.53907	16.083	2.6514	.67731	1.4987
#1	-55.240	181.26	-42333.	.00676	.01336	2.3026	.01486
#2	-140.76	181.41	-41949.	.00524	.01268	2.3107	.01531
#3	-100.24	181.63	-41933.	.00721	.01293	2.2807	.01505
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29267**	**.47700**	**.01209**	**.58034**	**.97022**	**.15292**
Stddev	.00133	.00117	.00225	.00072	.00098	.00021
%RSD	.45294	.24593	18.616	.12443	.10100	.13863
#1	.29263	.47773	.00989	.58059	.96916	.15268
#2	.29137	.47564	.01200	.58090	.97110	.15301
#3	.29402	.47761	.01438	.57953	.97039	.15307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46924.**	**45972.**
Stddev	55.	402.
%RSD	.11720	.87513
#1	46874.	45511.
#2	46915.	46254.
#3	46983.	46152.

Approved: March 30, 2011

Sample Name: L1103068547 Acquired: 3/29/2011 18:54:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00707**	**263.67**	**.15075**	**.21639**	**2.9392**	**.02010**	**29.539**
Stddev	.00050	3.19	.00205	.00184	.0096	.00003	.008
%RSD	7.0160	1.2108	1.3566	.85171	.32813	.13361	.02737
#1	.00703	260.26	.14863	.21429	2.9295	.02011	29.546
#2	.00758	266.59	.15092	.21771	2.9488	.02012	29.540
#3	.00660	264.17	.15271	.21718	2.9393	.02007	29.530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00995**	**.33187**	**.40690**	**.17341**	**412.01**	**13.594**	**.16577**
Stddev	.00006	.00113	.00073	.00109	4.54	.016	.00168
%RSD	.61191	.33996	.17928	.63078	1.1014	.11768	1.0122
#1	.00992	.33092	.40756	.17222	407.11	13.579	.16770
#2	.00990	.33312	.40612	.17437	416.07	13.611	.16462
#3	.01001	.33157	.40703	.17365	412.85	13.594	.16501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.518**	**18.077**	**.01685**	**5.7587**	**.18478**	**3.3547**	**.58283**
Stddev	.117	.060	.00012	.0086	.00078	.0068	.00125
%RSD	.51783	.33189	.71006	.14907	.41949	.20209	.21388
#1	22.466	18.016	.01676	5.7639	.18566	3.3508	.58406
#2	22.651	18.136	.01698	5.7488	.18421	3.3625	.58157
#3	22.435	18.079	.01680	5.7634	.18446	3.3508	.58286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068547 Acquired: 3/29/2011 18:54:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-52.799**	F **132.85**	F **-29579.**	**.00405**	**.01716**	**2.7009**	**.01514**
Stddev	55.437	.78	21.	.00009	.00033	.0077	.00035
%RSD	105.00	.58611	.07039	2.1984	1.9080	.28620	2.3321
#1	-95.324	132.06	-29583.	.00415	.01753	2.6943	.01515
#2	9.8999	133.62	-29598.	.00401	.01692	2.7094	.01478
#3	-72.972	132.85	-29557.	.00398	.01704	2.6990	.01549
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28062**	**.39719**	**.01433**	**.76187**	**.97037**	**.20509**
Stddev	.00067	.00104	.00023	.00186	.00196	.00020
%RSD	.23859	.26169	1.6280	.24357	.20200	.09541
#1	.28131	.39603	.01407	.75973	.96812	.20517
#2	.27997	.39747	.01448	.76291	.97126	.20487
#3	.28057	.39806	.01446	.76298	.97173	.20523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47632.**	**46394.**
Stddev	94.	405.
%RSD	.19804	.87282
#1	47651.	46320.
#2	47530.	46031.
#3	47715.	46831.

Approved: March 30, 2011

Sample Name: L1103068548 Acquired: 3/29/2011 18:57:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00278**	**100.57**	**.07959**	**.11751**	**.85069**	**.00563**
Stddev	.00068	.27	.00120	.00188	.01700	.00001
%RSD	24.600	.27035	1.5061	1.5973	1.9987	.12776
#1	.00304	100.86	.08078	.11945	.87032	.00564
#2	.00329	100.32	.07838	.11738	.84042	.00563
#3	.00200	100.53	.07961	.11570	.84134	.00562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **3784.6**	**.05429**	**.07776**	**.18407**	**.21470**	**139.77**
Stddev	114.3	.00019	.00016	.00163	.00113	3.55
%RSD	3.0210	.35041	.20521	.88805	.52523	2.5426
#1	3913.8	.05444	.07758	.18224	.21513	143.86
#2	3743.6	.05407	.07783	.18457	.21342	137.46
#3	3696.5	.05435	.07788	.18539	.21555	137.98
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.304**	**.31268**	**78.702**	**5.3095**	**.01543**	**1.6185**
Stddev	.281	.00734	2.337	.1383	.00015	.0389
%RSD	2.1096	2.3466	2.9690	2.6052	.97704	2.4064
#1	13.628	.32114	81.396	5.4691	.01546	1.6616
#2	13.141	.30819	77.225	5.2252	.01527	1.6079
#3	13.142	.30869	77.486	5.2340	.01557	1.5859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103068548 Acquired: 3/29/2011 18:57:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23193**	**9.5201**	**.81958**	F **24.132**	F **4842.3**	F **-169880.**
Stddev	.00073	.0055	.00724	62.243	17.4	320.
%RSD	.31638	.05763	.88324	257.93	.36033	.18825
#1	.23243	9.5210	.82610	73.495	4832.1	-170180.
#2	.23109	9.5251	.81179	-45.790	4862.4	-169920.
#3	.23227	9.5142	.82086	44.692	4832.3	-169550.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00838**	**.01928**	**3.1594**	**.00925**	F **17.810**	**.30218**
Stddev	.00271	.00452	.0114	.00049	.442	.00630
%RSD	32.377	23.458	.35948	5.3477	2.4823	2.0852
#1	.00558	.01613	3.1654	.00976	18.258	.30946
#2	.00855	.02446	3.1665	.00924	17.799	.29836
#3	.01100	.01725	3.1463	.00877	17.374	.29874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					4.5000	
Low Limit					-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.00535**	**.35898**	**7.1454**	**.06657**
Stddev	.00078	.00120	.0264	.00009
%RSD	14.550	.33352	.36916	.13042
#1	.00613	.35875	7.1379	.06660
#2	.00534	.35792	7.1747	.06663
#3	.00458	.36028	7.1236	.06647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: March 30, 2011

Sample Name: L1103068548 Acquired: 3/29/2011 18:57:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**40240.**	**42948.**
Stddev	23.	1398.
%RSD	.05679	3.2561
#1	40266.	41336.
#2	40230.	43839.
#3	40224.	43669.

Approved: March 30, 2011

Sample Name: L1103068601 Acquired: 3/29/2011 19:01:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00478**	**152.15**	**.09691**	**.18670**	**1.1396**	**.00889**	F **1322.5**
Stddev	.00036	2.29	.00082	.00065	.0024	.00007	11.6
%RSD	7.5611	1.5056	.84315	.34648	.20782	.84219	.87344
#1	.00454	150.62	.09601	.18742	1.1419	.00881	1332.1
#2	.00519	154.78	.09761	.18616	1.1371	.00896	1309.7
#3	.00459	151.04	.09711	.18653	1.1398	.00889	1325.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02222**	**.09609**	**.27599**	**.18223**	**319.62**	**13.130**	**.17606**
Stddev	.00025	.00092	.00217	.00250	1.35	.058	.00085
%RSD	1.1254	.96164	.78538	1.3738	.42220	.44271	.48088
#1	.02225	.09616	.27393	.18377	319.27	13.163	.17593
#2	.02246	.09698	.27825	.18357	318.48	13.063	.17696
#3	.02196	.09514	.27577	.17934	321.11	13.163	.17528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.822**	**4.3968**	**.01474**	**.99208**	**.17095**	**6.0900**	**1.3431**
Stddev	.215	.0219	.00021	.00777	.00243	.0362	.0111
%RSD	.65435	.49826	1.4412	.78350	1.4200	.59508	.82257
#1	32.773	4.4000	.01477	.99894	.17241	6.0865	1.3466
#2	32.636	4.3734	.01493	.98364	.17230	6.1279	1.3520
#3	33.057	4.4169	.01451	.99365	.16815	6.0556	1.3307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068601 Acquired: 3/29/2011 19:01:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-31.803**	F **1621.3**	F **-82724.**	**.00501**	**.01301**	**2.5238**	**.01179**
Stddev	43.385	7.3	261.	.00323	.00102	.0189	.00070
%RSD	136.42	.45279	.31600	64.445	7.8048	.74847	5.9700
#1	18.064	1617.8	-82809.	.00300	.01283	2.5358	.01143
#2	-60.884	1629.7	-82932.	.00873	.01411	2.5336	.01261
#3	-52.590	1616.3	-82431.	.00329	.01210	2.5020	.01135
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.9962**	**.50963**	**.01005**	**.44097**	**29.178**	**.08988**
Stddev	.0680	.00123	.00102	.00092	.041	.00037
%RSD	1.3602	.24226	10.158	.20772	.13961	.41345
#1	5.0396	.50821	.00959	.44005	29.225	.08946
#2	4.9178	.51033	.01122	.44099	29.162	.09013
#3	5.0311	.51035	.00934	.44188	29.148	.09006
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**43405.**	**45665.**
Stddev	85.	448.
%RSD	.19684	.98000
#1	43426.	45400.
#2	43311.	46182.
#3	43478.	45413.

Approved: March 30, 2011

Sample Name: L1103068601PS Acquired: 3/29/2011 19:05:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360208-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23838**	**142.29**	**.29873**	**1.2239**	**1.5329**	**.03494**	F **1201.2**
Stddev	.00069	1.38	.00240	.0027	.0091	.00014	18.7
%RSD	.28788	.96685	.80404	.21987	.59321	.40946	1.5573
#1	.23822	141.72	.29884	1.2233	1.5411	.03480	1200.2
#2	.23913	143.86	.30108	1.2269	1.5345	.03509	1220.3
#3	.23779	141.29	.29628	1.2216	1.5231	.03493	1183.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04679**	**.18523**	**.50222**	**.41185**	**293.66**	**36.904**	**.68817**
Stddev	.00009	.00083	.00142	.00188	1.15	.140	.00384
%RSD	.18260	.44809	.28202	.45661	.39123	.37898	.55773
#1	.04682	.18558	.50077	.41294	294.92	37.065	.69169
#2	.04670	.18584	.50360	.41292	293.40	36.830	.68874
#3	.04686	.18429	.50228	.40967	292.66	36.817	.68408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.074**	**4.2484**	**.51709**	**26.500**	**.39492**	**5.4614**	**1.4330**
Stddev	.096	.0319	.00390	.186	.00279	.0235	.0052
%RSD	.28302	.75153	.75396	.70051	.70741	.43066	.36515
#1	34.168	4.2851	.52005	26.697	.39682	5.4691	1.4362
#2	33.975	4.2269	.51855	26.329	.39622	5.4800	1.4359
#3	34.081	4.2332	.51268	26.474	.39171	5.4350	1.4270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068601PS Acquired: 3/29/2011 19:05:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360208-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-57.098**	F **1466.4**	F **-74386.**	**.64819**	**.21627**	**5.0668**	**.01094**
Stddev	29.734	6.4	132.	.00084	.00190	.0134	.00053
%RSD	52.075	.43730	.17712	.12906	.87974	.26406	4.8340
#1	-58.096	1468.0	-74502.	.64914	.21407	5.0766	.01093
#2	-86.320	1471.8	-74413.	.64789	.21732	5.0722	.01148
#3	-26.878	1459.3	-74243.	.64755	.21742	5.0515	.01042
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.9863**	**.93248**	**.24228**	**.93331**	**27.130**	**.08092**
Stddev	.0570	.00363	.00137	.00351	.090	.00036
%RSD	1.1430	.38897	.56516	.37613	.33275	.45012
#1	5.0225	.93661	.24267	.93007	27.050	.08130
#2	4.9206	.93103	.24341	.93704	27.228	.08087
#3	5.0158	.92981	.24076	.93282	27.112	.08058
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**43927.**	**45286.**
Stddev	59.	458.
%RSD	.13410	1.0117
#1	43979.	44760.
#2	43863.	45493.
#3	43939.	45603.

Approved: March 30, 2011

Sample Name: L1103068601SDL Acquired: 3/29/2011 19:09:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360208-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**29.388**	**.02143**	**.04149**	**.22347**	**.00174**	**273.97**
Stddev	.00050	.055	.00178	.00081	.00063	.00004	1.72
%RSD	49.924	.18803	8.3086	1.9640	.28085	2.0577	.62808
#1	.00079	29.336	.02206	.04243	.22414	.00171	275.95
#2	.00064	29.446	.02281	.04110	.22289	.00178	273.07
#3	.00157	29.382	.01942	.04095	.22339	.00175	272.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00436**	**.02045**	**.05504**	**.03898**	**67.071**	**2.7298**	**.02654**
Stddev	.00007	.00015	.00075	.00038	.298	.0455	.00079
%RSD	1.6414	.71615	1.3592	.96351	.44485	1.6655	2.9617
#1	.00441	.02050	.05579	.03892	67.415	2.7802	.02564
#2	.00428	.02056	.05429	.03864	66.892	2.6920	.02705
#3	.00439	.02028	.05505	.03938	66.904	2.7171	.02694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.0532**	**.92082**	**.00254**	**.19245**	**.03696**	**1.2812**	**.29761**
Stddev	.0242	.00822	.00010	.00583	.00031	.0035	.00094
%RSD	.34325	.89314	4.0495	3.0309	.83269	.27352	.31673
#1	7.0807	.93020	.00265	.19867	.03690	1.2852	.29667
#2	7.0350	.91739	.00244	.19159	.03668	1.2788	.29759
#3	7.0441	.91487	.00253	.18710	.03729	1.2797	.29855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068601SDL Acquired: 3/29/2011 19:09:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360208-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.557**	F **348.66**	F **-17104.**	**-.00065**	**.00314**	**.51131**	**.00234**
Stddev	39.988	.10	5.	.00189	.00024	.00113	.00015
%RSD	185.50	.02770	.02863	290.07	7.5962	.22065	6.4944
#1	67.630	348.57	-17099.	-.00123	.00294	.51261	.00227
#2	-4.1216	348.67	-17109.	.00146	.00308	.51069	.00223
#3	1.1620	348.76	-17103.	-.00219	.00340	.51063	.00251
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0004**	**.09639**	**.00310**	**.08701**	**6.5350**	**.01757**
Stddev	.0056	.00059	.00079	.00024	.0060	.00010
%RSD	.55656	.60991	25.622	.28001	.09116	.54085
#1	1.0069	.09702	.00387	.08676	6.5402	.01757
#2	.99725	.09631	.00228	.08703	6.5285	.01766
#3	.99716	.09585	.00315	.08725	6.5363	.01747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48723.**	**47145.**
Stddev	90.	52.
%RSD	.18459	.10996
#1	48826.	47086.
#2	48683.	47166.
#3	48660.	47183.

Approved: March 30, 2011

Sample Name: L1103068601SDL Acquired: 3/29/2011 19:13:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360208-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**5.4822**	**.00605**	**.00847**	**.04368**	**.00031**	**52.984**
Stddev	.00075	.0391	.00059	.00050	.00021	.00001	.087
%RSD	570.83	.71289	9.6859	5.8721	.47251	3.7200	.16441
#1	.00033	5.4380	.00671	.00884	.04374	.00032	53.030
#2	.00076	5.5121	.00560	.00790	.04345	.00030	52.883
#3	-.00069	5.4965	.00584	.00866	.04385	.00032	53.039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00405**	**.01022**	**.00773**	**13.332**	**.64323**	**-.00100**
Stddev	.00008	.00020	.00024	.00016	.048	.04172	.00143
%RSD	12.723	4.9029	2.3729	2.0455	.36240	6.4860	143.07
#1	.00066	.00397	.01039	.00791	13.383	.69134	-.00230
#2	.00064	.00390	.00994	.00769	13.286	.61695	-.00124
#3	.00052	.00427	.01032	.00760	13.326	.62141	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4212**	**.18417**	**.00032**	**.03085**	**.00796**	**.25905**	**.06071**
Stddev	.0180	.00026	.00007	.00619	.00019	.00013	.00077
%RSD	1.2657	.13930	22.237	20.049	2.3422	.05188	1.2759
#1	1.4417	.18443	.00035	.03199	.00815	.25892	.06034
#2	1.4084	.18392	.00037	.02418	.00794	.25904	.06160
#3	1.4133	.18415	.00024	.03639	.00778	.25919	.06020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068601SDL Acquired: 3/29/2011 19:13:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360208-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **67.777**	F **72.630**	F **-3377.2**	**-.00091**	**-.00109**	**.09743**	**.00031**
Stddev	49.161	.238	7.7	.00113	.00129	.00135	.00022
%RSD	72.533	.32746	.22677	123.77	118.22	1.3877	72.140
#1	11.114	72.366	-3385.7	-.00140	-.00098	.09587	.00006
#2	99.064	72.826	-3370.7	.00038	-.00243	.09830	.00037
#3	93.155	72.698	-3375.4	-.00172	.00014	.09811	.00050
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19340**	**.01894**	**.00216**	**.01687**	**1.3404**	**.00327**
Stddev	.00021	.00087	.00114	.00013	.0025	.00005
%RSD	.10650	4.5851	52.578	.76539	.18356	1.3825
#1	.19361	.01991	.00242	.01675	1.3379	.00332
#2	.19320	.01824	.00315	.01701	1.3405	.00325
#3	.19340	.01867	.00092	.01687	1.3428	.00323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50295.**	**46573.**
Stddev	186.	167.
%RSD	.37003	.35790
#1	50495.	46420.
#2	50266.	46550.
#3	50126.	46751.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 19:16:49 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42643**	**10.347**	**.42283**	**.52326**	**1.0077**	**.05201**	**9.6001**
Stddev	.00414	.010	.00246	.00126	.0043	.00023	.0507
%RSD	.97004	.09217	.58187	.24057	.42311	.44172	.52773
#1	.43120	10.349	.42507	.52420	1.0028	.05222	9.5429
#2	.42415	10.355	.42321	.52376	1.0104	.05205	9.6182
#3	.42393	10.337	.42020	.52183	1.0100	.05176	9.6392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05316**	**.21210**	**.52214**	**.53346**	**3.7019**	**49.345**	**1.0244**
Stddev	.00017	.00062	.00145	.00307	.0065	.279	.0055
%RSD	.31184	.29346	.27795	.57589	.17537	.56535	.53982
#1	.05311	.21224	.52243	.53361	3.6968	49.024	1.0180
#2	.05334	.21265	.52342	.53645	3.7092	49.527	1.0280
#3	.05302	.21142	.52056	.53031	3.6997	49.484	1.0271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.9657**	F **.44424**	**.99793**	**48.825**	**.51869**	F **-.00401**	**.52470**
Stddev	.0703	.00312	.00124	.203	.00140	.00116	.00032
%RSD	.78396	.70292	.12439	.41535	.27014	28.775	.06188
#1	8.9122	.44118	.99818	48.638	.51964	-.00271	.52434
#2	8.9397	.44411	.99658	49.040	.51935	-.00492	.52498
#3	9.0453	.44742	.99903	48.796	.51708	-.00440	.52478
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000	.50000				10.000	
Range	-10.000%	-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 19:16:49 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **64.705**	**10.436**	F **12.748**	**1.3099**	**.41626**	F **.00288**	**1.0394**
Stddev	47.894	.048	4.619	.0046	.00220	.00063	.0011
%RSD	74.019	.46436	36.237	.35427	.52734	21.754	.10939
#1	48.574	10.410	17.792	1.3089	.41443	.00328	1.0391
#2	26.959	10.492	8.7237	1.3150	.41566	.00320	1.0407
#3	118.58	10.406	11.728	1.3059	.41869	.00216	1.0385
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97068**	**.97678**	**.53590**	**1.0393**	**.99462**	F **.00079**
Stddev	.00459	.00318	.00116	.0031	.00260	.00011
%RSD	.47327	.32552	.21608	.30003	.26144	13.519
#1	.96601	.97316	.53470	1.0420	.99161	.00076
#2	.97519	.97807	.53702	1.0401	.99606	.00070
#3	.97083	.97912	.53597	1.0359	.99617	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48081.**	**45806.**
Stddev	174.	148.
%RSD	.36271	.32358
#1	47970.	45752.
#2	47991.	45974.
#3	48282.	45693.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 19:20:14 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.01360**	**.00030**	**.00195**	**-.00028**	**-.00002**	**.02993**
Stddev	.00042	.00049	.00115	.00068	.00003	.00002	.00068
%RSD	100.31	3.5795	384.66	34.993	10.298	78.972	2.2682
#1	-.00040	.01366	.00030	.00262	-.00027	.00000	.02919
#2	-.00001	.01405	.00144	.00198	-.00025	-.00002	.03007
#3	-.00085	.01308	-.00085	.00125	-.00031	-.00003	.03053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00004**	**-.00061**	**-.00012**	**.00255**	**.13726**	**-.00596**
Stddev	.00008	.00016	.00007	.00011	.00250	.02413	.00024
%RSD	70.007	394.71	11.087	95.661	98.098	17.582	4.0679
#1	-.00011	-.00014	-.00063	-.00023	.00544	.16291	-.00577
#2	-.00003	.00013	-.00066	-.00012	.00125	.11501	-.00587
#3	-.00019	.00013	-.00053	.00000	.00097	.13386	-.00623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01729**	**-.00018**	**-.00003**	**.00117**	**.00105**	**-.00209**	**.00078**
Stddev	.00238	.00021	.00002	.00593	.00004	.00199	.00091
%RSD	13.764	112.91	67.715	508.03	3.6585	95.267	117.29
#1	-.01972	-.00036	-.00004	.00801	.00106	-.00005	.00181
#2	-.01716	.00004	-.00001	-.00213	.00109	-.00219	.00043
#3	-.01497	-.00023	-.00003	-.00238	.00101	-.00402	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 19:20:14 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **44.910**	F **.05407**	F **6.0281**	**-.00082**	**.00097**	**-.00057**	**-.00053**
Stddev	45.660	.05774	13.300	.00197	.00166	.00080	.00006
%RSD	101.67	106.79	220.63	239.90	171.35	140.04	11.156
#1	91.497	-.01059	-8.3869	.00019	-.00058	-.00029	-.00048
#2	.23662	.07229	17.822	.00044	.00076	.00005	-.00060
#3	42.997	.10050	8.6487	-.00309	.00272	-.00148	-.00053
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00034**	**.00097**	**-.00020**	**.00450**	**.00011**
Stddev	.00004	.00026	.00030	.00019	.00009	.00005
%RSD	116.71	74.835	30.798	92.844	1.9720	51.206
#1	-.00003	.00008	.00102	.00000	.00459	.00017
#2	.00000	.00060	.00065	-.00037	.00450	.00006
#3	-.00008	.00034	.00124	-.00023	.00441	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48746.**	**45322.**
Stddev	57.	492.
%RSD	.11760	1.0855
#1	48811.	45853.
#2	48702.	45231.
#3	48724.	44882.

Approved: March 30, 2011

Sample Name: L1103068602 Acquired: 3/29/2011 19:23:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00463**	**202.47**	**.11595**	**.21659**	**1.0919**	**.01412**	**16.733**
Stddev	.00029	1.00	.00118	.00054	.0039	.00009	.010
%RSD	6.2130	.49163	1.0192	.24997	.35503	.61005	.06036
#1	.00447	203.57	.11477	.21605	1.0954	.01412	16.741
#2	.00496	201.63	.11596	.21713	1.0877	.01404	16.737
#3	.00446	202.21	.11713	.21660	1.0925	.01421	16.722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00518**	**.24548**	**.21322**	**.13851**	**428.71**	**12.108**	**.17528**
Stddev	.00008	.00053	.00213	.00086	.95	.028	.00206
%RSD	1.5908	.21764	.99779	.62228	.22089	.23415	1.1762
#1	.00515	.24527	.21314	.13784	427.66	12.135	.17719
#2	.00513	.24609	.21114	.13948	428.98	12.111	.17555
#3	.00528	.24509	.21539	.13821	429.50	12.078	.17310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.883**	**14.732**	**.00801**	**.48540**	**.29743**	**3.4669**	**.27039**
Stddev	.061	.004	.00024	.00560	.00193	.0167	.00227
%RSD	.29372	.02719	3.0545	1.1534	.64850	.48229	.83905
#1	20.812	14.730	.00773	.48137	.29523	3.4495	.26785
#2	20.921	14.729	.00812	.49179	.29881	3.4828	.27110
#3	20.915	14.737	.00819	.48303	.29826	3.4682	.27222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068602 Acquired: 3/29/2011 19:23:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-37.585**	F **53.841**	F **-10269.**	**-.00036**	**.01295**	**2.4276**	**.00901**
Stddev	13.076	.448	50.	.00002	.00411	.0102	.00030
%RSD	34.790	.83161	.48986	5.1063	31.760	.41899	3.2762
#1	-28.662	53.329	-10211.	-.00035	.01408	2.4348	.00891
#2	-52.595	54.159	-10292.	-.00035	.01638	2.4319	.00934
#3	-31.499	54.035	-10303.	-.00038	.00839	2.4159	.00877
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16808**	**.23661**	**.00501**	**.35382**	**.68801**	**.10838**
Stddev	.00027	.00118	.00081	.00123	.00283	.00068
%RSD	.15950	.49858	16.192	.34771	.41099	.62692
#1	.16803	.23526	.00578	.35460	.69113	.10852
#2	.16837	.23746	.00510	.35447	.68728	.10898
#3	.16784	.23710	.00416	.35240	.68562	.10765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46801.**	**46898.**
Stddev	180.	268.
%RSD	.38452	.57097
#1	46608.	46615.
#2	46832.	46930.
#3	46964.	47148.

Approved: March 30, 2011

Sample Name: L1103068603 Acquired: 3/29/2011 19:27:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00554**	**195.05**	**.10605**	**.21585**	**1.7819**	**.01396**	**66.980**
Stddev	.00048	1.83	.00031	.00207	.0046	.00003	.147
%RSD	8.6541	.94011	.29660	.95874	.25634	.22268	.21971
#1	.00506	193.03	.10628	.21347	1.7825	.01393	67.072
#2	.00555	195.51	.10619	.21688	1.7861	.01397	67.058
#3	.00602	196.60	.10569	.21721	1.7770	.01399	66.810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01116**	**.19705**	**.28571**	**.34669**	**396.61**	**17.346**	**.17610**
Stddev	.00002	.00132	.00139	.00170	1.21	.022	.00101
%RSD	.13679	.66885	.48486	.49163	.30398	.12484	.57465
#1	.01114	.19559	.28593	.34473	395.24	17.349	.17551
#2	.01117	.19743	.28423	.34784	397.49	17.366	.17726
#3	.01117	.19814	.28697	.34750	397.11	17.323	.17551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.084**	**14.110**	**.01307**	**.81619**	**.24593**	**6.9043**	**.61537**
Stddev	.105	.013	.00024	.00138	.00077	.0138	.00230
%RSD	.58199	.09006	1.8443	.16940	.31453	.19970	.37317
#1	17.962	14.096	.01335	.81541	.24604	6.8884	.61400
#2	18.148	14.121	.01295	.81778	.24665	6.9125	.61802
#3	18.141	14.112	.01292	.81537	.24511	6.9120	.61409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068603 Acquired: 3/29/2011 19:27:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-35.324**	F **129.95**	F **-18328.**	**.00652**	**.01394**	**2.4242**	**.13259**
Stddev	61.959	.66	15.	.00115	.00211	.0012	.00012
%RSD	175.40	.50932	.08281	17.577	15.164	.04828	.09215
#1	-27.810	129.26	-18334.	.00763	.01192	2.4234	.13245
#2	-100.70	130.01	-18340.	.00659	.01376	2.4256	.13266
#3	22.535	130.58	-18311.	.00534	.01613	2.4236	.13266
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43262**	**.36364**	**.00631**	**.38457**	**2.4387**	**.09742**
Stddev	.00097	.00003	.00097	.00114	.0024	.00047
%RSD	.22335	.00919	15.405	.29578	.09706	.48751
#1	.43356	.36363	.00732	.38442	2.4365	.09707
#2	.43268	.36367	.00623	.38351	2.4412	.09722
#3	.43163	.36361	.00538	.38577	2.4386	.09796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47293.**	**47444.**
Stddev	74.	10.
%RSD	.15666	.02019
#1	47376.	47448.
#2	47266.	47452.
#3	47235.	47434.

Approved: March 30, 2011

Sample Name: L1103068604 Acquired: 3/29/2011 19:31:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00548**	**263.87**	**.12957**	**.19906**	**1.9579**	**.01621**	**43.741**
Stddev	.00043	1.25	.00090	.00034	.0064	.00005	.219
%RSD	7.7637	.47341	.69617	.16888	.32626	.28692	.50064
#1	.00499	263.61	.12965	.19884	1.9505	.01624	43.502
#2	.00577	265.22	.12864	.19945	1.9616	.01624	43.789
#3	.00568	262.76	.13043	.19890	1.9615	.01616	43.932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00713**	**.17145**	**.43838**	**.14883**	**366.41**	**17.877**	**.18490**
Stddev	.00001	.00015	.00186	.00173	1.51	.065	.00150
%RSD	.14091	.08490	.42537	1.1599	.41231	.36584	.81003
#1	.00712	.17132	.43701	.14792	364.69	17.806	.18391
#2	.00714	.17161	.44050	.15082	367.01	17.892	.18417
#3	.00713	.17142	.43762	.14775	367.52	17.934	.18662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.708**	**7.9913**	**.01502**	**1.1740**	**.17096**	**5.2341**	**.47859**
Stddev	.106	.0502	.00020	.0024	.00032	.0212	.00476
%RSD	.53679	.62863	1.3087	.20826	.18519	.40497	.99510
#1	19.619	7.9359	.01505	1.1714	.17096	5.2266	.47556
#2	19.681	8.0044	.01520	1.1743	.17127	5.2580	.48408
#3	19.825	8.0338	.01481	1.1762	.17064	5.2177	.47614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068604 Acquired: 3/29/2011 19:31:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-122.77**	F **141.44**	F **-27792.**	**.00483**	**.01522**	**2.3559**	**.01536**
Stddev	34.31	.71	140.	.00149	.00317	.0211	.00041
%RSD	27.950	.50044	.50425	30.953	20.819	.89512	2.6655
#1	-151.49	140.95	-27734.	.00648	.01882	2.3521	.01504
#2	-84.769	142.25	-27952.	.00358	.01286	2.3786	.01522
#3	-132.05	141.12	-27691.	.00442	.01397	2.3369	.01582
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33198**	**.47492**	**.01590**	**.70782**	**.80427**	**.16916**
Stddev	.00106	.00180	.00051	.00262	.00094	.00077
%RSD	.31833	.37825	3.2003	.37037	.11637	.45416
#1	.33086	.47327	.01532	.70645	.80341	.16924
#2	.33213	.47464	.01615	.71084	.80527	.16988
#3	.33295	.47684	.01625	.70616	.80415	.16835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47537.**	**48078.**
Stddev	67.	133.
%RSD	.14074	.27735
#1	47479.	48187.
#2	47521.	48117.
#3	47610.	47929.

Approved: March 30, 2011

Sample Name: L1103068605 Acquired: 3/29/2011 19:34:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00748**	**220.93**	**.14185**	**.31576**	**1.5329**	**.02397**	**21.033**
Stddev	.00081	2.29	.00169	.00349	.0064	.00009	.106
%RSD	10.787	1.0368	1.1943	1.1044	.42036	.39328	.50585
#1	.00745	223.11	.14379	.31970	1.5403	.02408	21.144
#2	.00829	218.54	.14067	.31308	1.5298	.02395	21.022
#3	.00668	221.14	.14108	.31449	1.5285	.02389	20.932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00690**	**.43417**	**.47028**	**.18694**	**649.16**	**9.9790**	**.16779**
Stddev	.00010	.00153	.00126	.00090	6.51	.0317	.00032
%RSD	1.4810	.35295	.26855	.48313	1.0025	.31766	.19288
#1	.00701	.43573	.47155	.18797	656.67	10.011	.16809
#2	.00681	.43411	.46903	.18630	645.15	9.9481	.16784
#3	.00688	.43267	.47025	.18654	645.67	9.9776	.16745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.887**	**15.674**	**.01703**	**1.2802**	**.28458**	**3.5810**	**.53359**
Stddev	.050	.045	.00013	.0102	.00079	.0029	.00247
%RSD	.26289	.28420	.76521	.79761	.27585	.08000	.46218
#1	18.937	15.718	.01716	1.2904	.28445	3.5842	.53339
#2	18.838	15.675	.01691	1.2801	.28542	3.5787	.53616
#3	18.884	15.629	.01701	1.2700	.28387	3.5799	.53124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068605 Acquired: 3/29/2011 19:34:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **17.703**	F **114.21**	F **-25974.**	**.00366**	**.01941**	**2.5488**	**.01305**
Stddev	13.797	.51	92.	.00093	.00274	.0074	.00023
%RSD	77.938	.44649	.35576	25.315	14.112	.29011	1.7704
#1	23.977	114.79	-26058.	.00268	.01662	2.5564	.01323
#2	27.247	113.91	-25988.	.00453	.01949	2.5484	.01314
#3	1.8834	113.91	-25875.	.00378	.02210	2.5417	.01279
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18598**	**.30739**	**.01489**	**.68770**	**1.3191**	**.13270**
Stddev	.00101	.00083	.00144	.00208	.0021	.00049
%RSD	.54429	.27002	9.6657	.30219	.15505	.37033
#1	.18693	.30809	.01324	.69006	1.3213	.13322
#2	.18610	.30761	.01556	.68685	1.3172	.13263
#3	.18491	.30648	.01587	.68617	1.3188	.13225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46943.**	**46779.**
Stddev	137.	130.
%RSD	.29171	.27737
#1	46786.	46632.
#2	47004.	46830.
#3	47039.	46876.

Approved: March 30, 2011

Sample Name: L1103068606 Acquired: 3/29/2011 19:38:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**137.78**	**.08535**	**.15190**	**1.1325**	**.00909**	**284.51**
Stddev	.00031	.75	.00176	.00167	.0005	.00002	.63
%RSD	7.9686	.54332	2.0628	1.1015	.04654	.19010	.22306
#1	.00388	138.10	.08736	.14998	1.1331	.00910	285.12
#2	.00418	136.93	.08464	.15308	1.1322	.00911	284.55
#3	.00356	138.32	.08406	.15264	1.1321	.00907	283.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01422**	**.12146**	**.17365**	**.15204**	**234.64**	**18.434**	**.12391**
Stddev	.00003	.00010	.00046	.00105	.34	.022	.00022
%RSD	.18185	.07903	.26723	.68810	.14291	.11743	.17983
#1	.01424	.12137	.17376	.15239	234.31	18.420	.12366
#2	.01419	.12143	.17315	.15287	234.65	18.459	.12408
#3	.01423	.12156	.17406	.15087	234.98	18.424	.12399
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.031**	**8.4381**	**.00930**	**.52371**	**.20515**	**7.0965**	**.42196**
Stddev	.066	.0089	.00020	.00708	.00048	.0068	.00142
%RSD	.30031	.10562	2.1992	1.3518	.23398	.09549	.33763
#1	22.012	8.4478	.00915	.52758	.20482	7.0894	.42314
#2	21.976	8.4362	.00922	.52802	.20570	7.1029	.42236
#3	22.104	8.4302	.00953	.51554	.20493	7.0972	.42037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068606 Acquired: 3/29/2011 19:38:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-42.714**	F **545.58**	F **-73715.**	**.00393**	**.01511**	**2.3644**	**.00969**
Stddev	15.710	1.08	178.	.00109	.00474	.0015	.00048
%RSD	36.779	.19730	.24150	27.596	31.385	.06465	4.9613
#1	-59.346	546.35	-73586.	.00380	.01787	2.3644	.00914
#2	-28.127	546.04	-73640.	.00292	.01783	2.3629	.00990
#3	-40.669	544.35	-73918.	.00508	.00964	2.3660	.01002
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0917**	**.34701**	**.00487**	**.31300**	**2.1789**	**.06368**
Stddev	.0045	.00038	.00169	.00046	.0067	.00030
%RSD	.41312	.11044	34.679	.14691	.30680	.46999
#1	1.0962	.34694	.00681	.31328	2.1713	.06336
#2	1.0919	.34742	.00370	.31247	2.1839	.06396
#3	1.0872	.34666	.00411	.31325	2.1814	.06371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45632.**	**46489.**
Stddev	11.	106.
%RSD	.02449	.22777
#1	45626.	46371.
#2	45625.	46523.
#3	45645.	46575.

Approved: March 30, 2011

Sample Name: L1103068607 Acquired: 3/29/2011 19:41:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00740**	**216.14**	**.13386**	**.22015**	**2.1347**	**.01574**	**75.149**
Stddev	.00080	1.15	.00286	.00059	.0031	.00004	.188
%RSD	10.754	.53017	2.1331	.26817	.14668	.28587	.24983
#1	.00729	215.02	.13645	.22014	2.1325	.01568	75.237
#2	.00667	217.31	.13432	.21957	2.1333	.01576	74.934
#3	.00825	216.08	.13080	.22075	2.1383	.01577	75.277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01258**	**.21068**	**.29869**	**.22207**	**384.02**	**24.812**	**.19233**
Stddev	.00003	.00031	.00153	.00154	.83	.029	.00106
%RSD	.25083	.14597	.51294	.69359	.21603	.11774	.55299
#1	.01255	.21040	.29705	.22093	383.73	24.811	.19157
#2	.01261	.21101	.30008	.22382	383.37	24.784	.19189
#3	.01257	.21064	.29894	.22146	384.96	24.842	.19355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.582**	**17.078**	**.01227**	**.67890**	**.24972**	**8.7571**	**.65005**
Stddev	.069	.069	.00011	.00355	.00161	.0256	.00555
%RSD	.35368	.40238	.87836	.52242	.64642	.29187	.85313
#1	19.613	17.088	.01220	.67700	.24926	8.7298	.64817
#2	19.502	17.005	.01240	.68299	.25152	8.7805	.65629
#3	19.630	17.142	.01222	.67671	.24839	8.7609	.64568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068607 Acquired: 3/29/2011 19:41:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.725**	F **170.48**	F **-26729.**	**.00541**	**.01855**	**2.3443**	**.01748**
Stddev	42.618	.36	146.	.00195	.00162	.0064	.00005
%RSD	76.478	.21018	.54574	36.032	8.7081	.27270	.27918
#1	-33.110	170.08	-26676.	.00441	.01938	2.3371	.01753
#2	-104.88	170.58	-26894.	.00765	.01958	2.3492	.01748
#3	-29.182	170.78	-26617.	.00416	.01669	2.3467	.01743
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50241**	**.45991**	**.00819**	**.51844**	**1.6955**	**.11031**
Stddev	.00057	.00074	.00099	.00292	.0050	.00028
%RSD	.11342	.16097	12.153	.56375	.29659	.25597
#1	.50294	.46012	.00713	.51592	1.6916	.10999
#2	.50181	.45909	.00831	.51776	1.6937	.11041
#3	.50249	.46052	.00911	.52165	1.7011	.11052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46901.**	**46996.**
Stddev	11.	397.
%RSD	.02360	.84569
#1	46901.	46643.
#2	46890.	47427.
#3	46912.	46918.

Approved: March 30, 2011

Sample Name: L1103068608 Acquired: 3/29/2011 19:45:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00362**	**206.44**	**.14430**	**.16561**	**1.6165**	**.01157**	F **1354.6**
Stddev	.00084	1.47	.00234	.00137	.0092	.00007	23.9
%RSD	23.168	.71173	1.6245	.82888	.57011	.64788	1.7640
#1	.00301	204.86	.14275	.16487	1.6080	.01148	1334.9
#2	.00327	206.70	.14699	.16477	1.6152	.01161	1347.6
#3	.00457	207.77	.14315	.16719	1.6263	.01162	1381.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00940**	**.12459**	**.26880**	**.14547**	**239.67**	**15.610**	**.19920**
Stddev	.00022	.00137	.00176	.00162	1.74	.120	.00215
%RSD	2.3602	1.0984	.65330	1.1117	.72561	.76807	1.0795
#1	.00914	.12301	.26677	.14361	238.29	15.496	.19794
#2	.00952	.12547	.26985	.14624	239.09	15.598	.19798
#3	.00954	.12529	.26978	.14656	241.62	15.735	.20168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**35.892**	**5.5436**	**.01109**	**1.5648**	**.14499**	**8.3931**	**.53241**
Stddev	.292	.0519	.00020	.0082	.00092	.0423	.00507
%RSD	.81337	.93544	1.8456	.52673	.63332	.50459	.95292
#1	35.623	5.5013	.01090	1.5554	.14412	8.3444	.52690
#2	35.851	5.5279	.01131	1.5679	.14595	8.4147	.53346
#3	36.202	5.6014	.01108	1.5709	.14490	8.4204	.53688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068608 Acquired: 3/29/2011 19:45:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-46.061**	F **1636.2**	F **-65718.**	**.00937**	**.01454**	**2.5236**	**.01254**
Stddev	10.152	10.9	284.	.00060	.00183	.0119	.00061
%RSD	22.040	.66615	.43183	6.4181	12.597	.47211	4.8531
#1	-39.403	1623.7	-65391.	.00887	.01656	2.5101	.01208
#2	-41.035	1643.9	-65875.	.00920	.01300	2.5327	.01323
#3	-57.745	1641.0	-65889.	.01003	.01406	2.5280	.01231
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **6.2600**	**.46348**	**.00862**	**.47964**	**1.0654**	**.10767**
Stddev	.1024	.00171	.00223	.00259	.0059	.00062
%RSD	1.6364	.36788	25.813	.54066	.55604	.57233
#1	6.2097	.46185	.00922	.47692	1.0586	.10698
#2	6.1925	.46334	.01049	.47991	1.0696	.10786
#3	6.3779	.46525	.00616	.48208	1.0681	.10817
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**43401.**	**46243.**
Stddev	195.	402.
%RSD	.44862	.86913
#1	43624.	46526.
#2	43317.	46421.
#3	43262.	45783.

Approved: March 30, 2011

Sample Name: L1103068609 Acquired: 3/29/2011 19:49:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00496**	**277.08**	**.15251**	**.20148**	**2.2892**	**.01682**	**282.61**
Stddev	.00062	5.40	.00368	.00079	.0061	.00030	.78
%RSD	12.477	1.9479	2.4141	.39443	.26479	1.8118	.27615
#1	.00567	272.38	.15161	.20100	2.2945	.01662	283.46
#2	.00460	282.98	.15656	.20103	2.2826	.01717	281.94
#3	.00460	275.87	.14937	.20239	2.2907	.01668	282.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00819**	**.14200**	**.45869**	**.16020**	**342.76**	**16.874**	**.18965**
Stddev	.00007	.00276	.00838	.00387	.72	.010	.00071
%RSD	.88904	1.9428	1.8279	2.4170	.20938	.05720	.37612
#1	.00826	.14047	.45313	.15791	342.06	16.875	.19043
#2	.00818	.14519	.46833	.16467	342.72	16.864	.18903
#3	.00812	.14035	.45460	.15802	343.49	16.883	.18949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.747**	**6.5971**	**.01409**	**2.0993**	**.17929**	**6.0631**	**.51263**
Stddev	.132	.0106	.00012	.0105	.00407	.1034	.00945
%RSD	.51421	.15996	.82150	.50200	2.2710	1.7049	1.8439
#1	25.616	6.6027	.01411	2.1114	.17620	6.0051	.50494
#2	25.880	6.5850	.01419	2.0940	.18390	6.1825	.52319
#3	25.744	6.6037	.01396	2.0925	.17778	6.0019	.50977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068609 Acquired: 3/29/2011 19:49:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.500**	F **424.82**	F **-40701.**	**.00791**	**.01137**	**2.5195**	**.01520**
Stddev	23.774	9.17	638.	.00076	.00177	.0445	.00043
%RSD	39.296	2.1592	1.5678	9.5528	15.606	1.7673	2.8416
#1	-37.449	419.55	-40331.	.00793	.01087	2.4949	.01529
#2	-84.936	435.41	-41438.	.00714	.01334	2.5709	.01558
#3	-59.114	419.49	-40334.	.00865	.00990	2.4928	.01473
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3568**	**.45755**	**.01584**	**.71158**	**.93198**	**.18515**
Stddev	.0057	.00100	.00131	.01209	.02271	.00305
%RSD	.41869	.21772	8.2579	1.6989	2.4363	1.6489
#1	1.3632	.45860	.01515	.70445	.91671	.18297
#2	1.3544	.45662	.01503	.72554	.95808	.18864
#3	1.3526	.45742	.01735	.70476	.92117	.18383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45593.**	**46405.**
Stddev	776.	173.
%RSD	1.7011	.37321
#1	46013.	46384.
#2	44698.	46244.
#3	46067.	46588.

Approved: March 30, 2011

Sample Name: L1103068610 Acquired: 3/29/2011 19:52:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00527**	**205.69**	**.16087**	**.18217**	**1.8675**	**.01369**	**96.111**
Stddev	.00096	.45	.00048	.00158	.0091	.00004	.369
%RSD	18.257	.22103	.30144	.86512	.48954	.25683	.38379
#1	.00420	205.50	.16112	.18385	1.8772	.01368	96.491
#2	.00607	205.36	.16031	.18195	1.8663	.01366	96.089
#3	.00555	206.21	.16118	.18072	1.8591	.01373	95.754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00812**	**.26090**	**.34877**	**.14799**	**306.94**	**13.973**	**.14482**
Stddev	.00012	.00005	.00077	.00079	2.10	.053	.00065
%RSD	1.5162	.02035	.22071	.53428	.68289	.38218	.44965
#1	.00818	.26092	.34820	.14886	309.21	14.030	.14440
#2	.00820	.26084	.34964	.14781	306.53	13.967	.14557
#3	.00798	.26094	.34846	.14731	305.08	13.923	.14449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.252**	**11.657**	**.01414**	**.92350**	**.13568**	**7.9480**	**.67308**
Stddev	.154	.071	.00008	.00508	.00147	.0064	.00549
%RSD	.84365	.61296	.55861	.54988	1.0815	.08081	.81511
#1	18.426	11.734	.01410	.92096	.13735	7.9490	.67906
#2	18.199	11.646	.01410	.92935	.13461	7.9412	.67189
#3	18.132	11.593	.01423	.92020	.13507	7.9539	.66828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068610 Acquired: 3/29/2011 19:52:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.097**	F **259.91**	F **-46799.**	**.00439**	**.01717**	**2.2905**	**.01397**
Stddev	55.871	.11	29.	.00173	.00251	.0145	.00028
%RSD	101.40	.04152	.06095	39.479	14.617	.63463	1.9934
#1	-16.747	259.96	-46801.	.00483	.02000	2.2801	.01410
#2	-29.344	259.79	-46770.	.00585	.01519	2.3071	.01416
#3	-119.20	259.99	-46827.	.00247	.01634	2.2842	.01365
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53817**	**.40354**	**.01122**	**.62200**	**2.0854**	**.13557**
Stddev	.00179	.00194	.00122	.00115	.0021	.00024
%RSD	.33187	.47988	10.896	.18409	.09998	.17486
#1	.54013	.40562	.01263	.62300	2.0833	.13583
#2	.53774	.40320	.01054	.62225	2.0853	.13553
#3	.53664	.40179	.01049	.62075	2.0875	.13536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46792.**	**46493.**
Stddev	56.	519.
%RSD	.11958	1.1169
#1	46729.	45919.
#2	46835.	46631.
#3	46813.	46930.

Approved: March 30, 2011

Sample Name: L1103068611S Acquired: 3/29/2011 19:56:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21822**	**209.85**	**.35560**	**.18865**	**1.4821**	**.01171**	**310.13**
Stddev	.00242	.78	.00244	.00128	.0039	.00009	1.12
%RSD	1.1100	.36978	.68683	.67603	.26287	.74214	.36020
#1	.22038	208.96	.35821	.18725	1.4841	.01180	310.10
#2	.21866	210.27	.35520	.18975	1.4846	.01172	311.26
#3	.21560	210.33	.35338	.18895	1.4776	.01162	309.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03606**	**.10989**	**.33741**	**.41012**	**266.89**	**16.438**	**.15458**
Stddev	.00026	.00134	.00191	.00496	.55	.054	.00139
%RSD	.71104	1.2236	.56700	1.2091	.20602	.32984	.90071
#1	.03634	.11131	.33878	.41512	266.65	16.425	.15519
#2	.03600	.10971	.33821	.41003	267.51	16.498	.15557
#3	.03584	.10864	.33522	.40520	266.49	16.391	.15299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.651**	**5.9091**	**.01329**	**.99398**	**.13384**	**10.343**	**.80084**
Stddev	.058	.0235	.00039	.01134	.00126	.066	.00505
%RSD	.26981	.39772	2.9121	1.1412	.93852	.63494	.63015
#1	21.592	5.9020	.01287	.98255	.13385	10.407	.80338
#2	21.709	5.9353	.01363	.99417	.13509	10.345	.80410
#3	21.650	5.8899	.01337	1.0052	.13257	10.276	.79502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068611S Acquired: 3/29/2011 19:56:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.7619**	F **517.09**	F **-60715.**	**.00610**	**.01575**	**2.6266**	**.01410**
Stddev	20.336	5.87	293.	.00192	.00100	.0154	.00023
%RSD	427.05	1.1345	.48233	31.549	6.3603	.58551	1.6364
#1	-18.702	522.54	-60985.	.00527	.01690	2.6423	.01417
#2	17.296	517.85	-60757.	.00830	.01521	2.6260	.01429
#3	15.691	510.88	-60403.	.00473	.01513	2.6116	.01385
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4515**	**.59623**	**.01122**	**.58539**	**2.0042**	**.11585**
Stddev	.0044	.00212	.00243	.00439	.0135	.00027
%RSD	.30540	.35540	21.661	.75044	.67305	.23668
#1	1.4552	.59707	.00844	.58961	2.0145	.11593
#2	1.4528	.59780	.01230	.58573	2.0091	.11607
#3	1.4466	.59382	.01292	.58084	1.9889	.11554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45812.**	**46171.**
Stddev	284.	273.
%RSD	.61948	.59069
#1	45566.	45986.
#2	45749.	46043.
#3	46123.	46484.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 20:00:03 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43691**	**10.370**	**.42885**	**.52391**	**.99680**	**.05257**	**9.5893**
Stddev	.00237	.026	.00283	.00286	.00242	.00022	.0204
%RSD	.54206	.24637	.66103	.54518	.24320	.42751	.21290
#1	.43442	10.381	.42570	.52070	.99886	.05232	9.5774
#2	.43720	10.388	.42966	.52615	.99413	.05263	9.5775
#3	.43913	10.341	.43120	.52490	.99740	.05276	9.6128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05346**	**.21525**	**.52221**	**.54070**	**3.7172**	**49.945**	**1.0133**
Stddev	.00008	.00026	.00123	.00163	.0066	.069	.0018
%RSD	.14954	.11944	.23587	.30086	.17679	.13760	.17802
#1	.05339	.21509	.52091	.53889	3.7151	49.892	1.0150
#2	.05355	.21511	.52336	.54204	3.7119	49.921	1.0114
#3	.05343	.21555	.52234	.54116	3.7245	50.023	1.0134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2391**	F **.44613**	**.99737**	**49.503**	**.52388**	F **-.00313**	**.52972**
Stddev	.0684	.00118	.00081	.077	.00031	.00339	.00059
%RSD	.74024	.26349	.08079	.15536	.05974	108.46	.11088
#1	9.1673	.44577	.99700	49.414	.52354	-.00490	.52913
#2	9.2468	.44519	.99682	49.544	.52415	-.00526	.53030
#3	9.3034	.44745	.99830	49.549	.52395	.00078	.52972
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 20:00:03 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **113.15**	**10.628**	F **4.5554**	**1.3146**	**.41091**	F **.00570**	**1.0547**
Stddev	35.63	.021	12.668	.0026	.00077	.00105	.0018
%RSD	31.491	.19580	278.10	.19847	.18666	18.369	.16599
#1	145.12	10.604	-4.7835	1.3118	.41149	.00597	1.0527
#2	119.58	10.643	-.52588	1.3150	.41004	.00658	1.0557
#3	74.737	10.638	18.976	1.3170	.41120	.00454	1.0557
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		-10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97128**	**.98047**	**.54241**	**1.0531**	**1.0082**	F **.00058**
Stddev	.00140	.00181	.00213	.0043	.0036	.00004
%RSD	.14419	.18506	.39338	.40629	.35922	7.0524
#1	.97008	.98141	.54004	1.0484	1.0045	.00054
#2	.97093	.97838	.54419	1.0540	1.0084	.00062
#3	.97282	.98163	.54300	1.0568	1.0117	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48808.**	**45437.**
Stddev	155.	341.
%RSD	.31807	.75037
#1	48988.	45808.
#2	48721.	45365.
#3	48717.	45138.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 20:03:28 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.01635**	**.00068**	**.00123**	**-.00044**	**.00001**	**-.00060**
Stddev	.00082	.00044	.00080	.00018	.00010	.00002	.00317
%RSD	317.64	2.6775	117.64	14.736	21.474	108.40	531.42
#1	.00069	.01686	.00043	.00127	-.00034	.00003	-.00353
#2	-.00077	.01607	.00157	.00103	-.00052	.00002	.00278
#3	-.00070	.01614	.00004	.00139	-.00048	.00000	-.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00003**	**-.00049**	**.00014**	**-.00242**	**.16218**	**-.00602**
Stddev	.00008	.00002	.00022	.00035	.00142	.01565	.00034
%RSD	57.672	64.144	43.775	247.33	58.624	9.6507	5.7249
#1	-.00023	.00004	-.00073	.00035	-.00318	.17954	-.00641
#2	-.00012	.00002	-.00044	-.00027	-.00078	.15784	-.00590
#3	-.00007	.00001	-.00031	.00034	-.00331	.14916	-.00575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00891**	**-.00048**	**-.00004**	**-.00441**	**.00121**	**.00041**	**.00076**
Stddev	.00359	.00034	.00014	.00431	.00121	.00119	.00089
%RSD	40.277	69.677	347.96	97.648	100.33	287.18	116.92
#1	-.01070	-.00079	.00000	-.00934	.00250	.00172	.00137
#2	-.00478	-.00054	-.00019	-.00250	.00009	-.00060	.00119
#3	-.01125	-.00012	.00008	-.00139	.00104	.00013	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 20:03:28 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **128.19**	F **.04855**	F **2.8611**	**-.00117**	**-.00210**	**.00071**	**-.00004**
Stddev	54.94	.02581	13.054	.00093	.00012	.00082	.00018
%RSD	42.860	53.169	456.26	79.435	5.5364	114.95	441.99
#1	162.71	.06697	-10.198	-.00101	-.00210	.00121	-.00003
#2	157.03	.05963	15.909	-.00034	-.00221	.00115	.00014
#3	64.834	.01905	2.8723	-.00218	-.00198	-.00023	-.00022
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00101**	**.00095**	**-.00002**	**.00640**	**.00006**
Stddev	.00000	.00085	.00054	.00008	.00793	.00005
%RSD	2.5866	84.945	56.784	418.54	123.74	85.024
#1	-.00008	.00037	.00084	.00006	.01555	.00006
#2	-.00008	.00198	.00047	-.00009	.00155	.00011
#3	-.00009	.00067	.00153	-.00003	.00212	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48988.**	**45337.**
Stddev	63.	114.
%RSD	.12802	.25091
#1	48916.	45272.
#2	49026.	45468.
#3	49023.	45271.

Approved: March 30, 2011

Sample Name: L1103068612SD Acquired: 3/29/2011 20:07:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21946**	**250.89**	**.37267**	**.20281**	**1.7221**	**.01256**	**469.16**
Stddev	.00058	1.03	.00225	.00113	.0115	.00004	3.90
%RSD	.26287	.41085	.60333	.55774	.66614	.32723	.83056
#1	.21967	251.43	.37349	.20317	1.7315	.01251	467.75
#2	.21991	251.53	.37439	.20371	1.7255	.01257	473.57
#3	.21881	249.70	.37013	.20154	1.7094	.01259	466.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03690**	**.16245**	**.37278**	**.45321**	**290.34**	**19.183**	**.19428**
Stddev	.00006	.00040	.00178	.00236	.66	.057	.00115
%RSD	.16922	.24480	.47743	.52000	.22793	.29784	.59127
#1	.03697	.16285	.37144	.45557	289.77	19.200	.19554
#2	.03686	.16244	.37209	.45320	291.06	19.229	.19401
#3	.03687	.16206	.37480	.45085	290.18	19.119	.19330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.440**	**7.4810**	**.01485**	**1.1861**	**.16055**	**15.288**	**.86733**
Stddev	.238	.0286	.00015	.0031	.00050	.045	.00094
%RSD	.89925	.38258	.98217	.26141	.31441	.29505	.10804
#1	26.191	7.4798	.01486	1.1866	.16088	15.328	.86841
#2	26.464	7.5102	.01470	1.1889	.15996	15.297	.86668
#3	26.665	7.4530	.01499	1.1828	.16079	15.239	.86692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068612SD Acquired: 3/29/2011 20:07:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-96.534**	F **703.99**	F **-68835.**	**.00773**	**.01609**	**2.6943**	**.01584**
Stddev	36.775	2.00	56.	.00162	.00432	.0112	.00024
%RSD	38.095	.28468	.08144	20.969	26.834	.41411	1.5399
#1	-54.184	706.19	-68778.	.00879	.01916	2.7033	.01600
#2	-115.02	703.50	-68890.	.00586	.01115	2.6977	.01596
#3	-120.40	702.28	-68835.	.00853	.01796	2.6818	.01556
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1458**	**.77195**	**.01205**	**.63858**	**1.8774**	**.12214**
Stddev	.0087	.00069	.00199	.00019	.0018	.00022
%RSD	.40753	.08963	16.546	.03051	.09436	.18357
#1	2.1533	.77120	.00975	.63865	1.8776	.12238
#2	2.1479	.77255	.01306	.63873	1.8790	.12193
#3	2.1362	.77211	.01333	.63836	1.8755	.12212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44786.**	**45660.**
Stddev	151.	191.
%RSD	.33814	.41818
#1	44634.	45868.
#2	44785.	45493.
#3	44937.	45620.

Approved: March 30, 2011

Sample Name: L1103068613 Acquired: 3/29/2011 20:10:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00553**	**227.76**	**.14801**	**.18163**	**1.6976**	**.01465**	**488.08**
Stddev	.00071	2.77	.00089	.00072	.0038	.00003	1.72
%RSD	12.918	1.2149	.60044	.39876	.22138	.17325	.35236
#1	.00514	224.66	.14842	.18166	1.7006	.01466	489.85
#2	.00510	229.99	.14699	.18234	1.6989	.01466	486.41
#3	.00636	228.62	.14862	.18089	1.6934	.01462	487.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00717**	**.26980**	**.37854**	**.13317**	**335.80**	**13.264**	**.18051**
Stddev	.00013	.00109	.00247	.00131	1.02	.086	.00066
%RSD	1.8419	.40382	.65126	.98166	.30514	.65156	.36578
#1	.00714	.26864	.37607	.13168	336.68	13.241	.18120
#2	.00731	.27080	.38100	.13375	336.04	13.360	.18047
#3	.00705	.26998	.37854	.13409	334.68	13.192	.17988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.651**	**10.509**	**.01294**	**1.3436**	**.14525**	**4.3467**	**.56628**
Stddev	.055	.037	.00025	.0022	.00168	.0101	.00170
%RSD	.24115	.34758	1.9479	.16647	1.1551	.23166	.29954
#1	22.690	10.526	.01268	1.3459	.14350	4.3378	.56466
#2	22.675	10.534	.01319	1.3414	.14684	4.3576	.56805
#3	22.589	10.467	.01295	1.3435	.14540	4.3446	.56613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068613 Acquired: 3/29/2011 20:10:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-43.436**	F **590.92**	F **-27252.**	**.00581**	**.01730**	**2.6363**	**.01300**
Stddev	55.392	2.44	19.	.00171	.00106	.0056	.00025
%RSD	127.53	.41267	.06852	29.369	6.1115	.21352	1.9337
#1	20.272	588.16	-27254.	.00608	.01711	2.6319	.01320
#2	-70.361	592.77	-27270.	.00399	.01635	2.6427	.01272
#3	-80.218	591.84	-27233.	.00737	.01844	2.6343	.01309
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0678**	**.44740**	**.01323**	**.69263**	**1.2296**	**.15861**
Stddev	.0037	.00100	.00148	.00165	.0046	.00078
%RSD	.17734	.22391	11.168	.23771	.37527	.49292
#1	2.0651	.44809	.01164	.69074	1.2248	.15774
#2	2.0720	.44785	.01456	.69336	1.2340	.15925
#3	2.0663	.44625	.01348	.69379	1.2300	.15884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45411.**	**46761.**
Stddev	102.	323.
%RSD	.22443	.69017
#1	45521.	46469.
#2	45320.	46708.
#3	45392.	47107.

Approved: March 30, 2011

Sample Name: L1103068614 Acquired: 3/29/2011 20:14:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00368**	**139.09**	**.10637**	**.15966**	**1.6045**	**.00898**	F **1172.0**
Stddev	.00024	.43	.00113	.00106	.0165	.00003	18.5
%RSD	6.6505	.30891	1.0621	.66574	1.0283	.30810	1.5808
#1	.00364	138.81	.10660	.15849	1.5935	.00895	1151.1
#2	.00393	138.88	.10515	.16056	1.5964	.00897	1178.6
#3	.00345	139.58	.10738	.15994	1.6235	.00901	1186.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00859**	**.09024**	**.23203**	**.17655**	**183.07**	**13.981**	**.14243**
Stddev	.00009	.00023	.00019	.00043	2.26	.137	.00289
%RSD	1.1041	.25181	.07998	.24209	1.2351	.98078	2.0299
#1	.00868	.09049	.23207	.17679	181.57	13.844	.13928
#2	.00849	.09005	.23220	.17681	181.97	13.982	.14306
#3	.00859	.09018	.23183	.17606	185.67	14.118	.14495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.654**	**6.5883**	**.01081**	**1.2982**	**.12105**	**9.8367**	**.44681**
Stddev	.403	.1118	.00031	.0152	.00038	.0179	.00086
%RSD	1.0174	1.6962	2.8626	1.1676	.31289	.18152	.19145
#1	39.421	6.4913	.01051	1.2826	.12144	9.8490	.44618
#2	39.422	6.5630	.01112	1.2990	.12103	9.8448	.44779
#3	40.120	6.7105	.01079	1.3129	.12069	9.8162	.44646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068614 Acquired: 3/29/2011 20:14:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-34.992**	F **1417.5**	F **-65431.**	**.00770**	**.01692**	**2.5925**	**.01097**
Stddev	28.055	3.9	65.	.00227	.00299	.0043	.00047
%RSD	80.176	.27740	.09908	29.476	17.689	.16725	4.2845
#1	-34.573	1421.6	-65361.	.00522	.01347	2.5960	.01078
#2	-63.254	1417.3	-65488.	.00819	.01879	2.5938	.01063
#3	-7.1485	1413.7	-65445.	.00968	.01850	2.5876	.01151
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.7685**	**.32928**	**.00667**	**.40692**	**1.6810**	**.07762**
Stddev	.0361	.00202	.00107	.00106	.0101	.00055
%RSD	.75642	.61460	16.110	.25971	.60151	.70563
#1	4.7533	.32794	.00562	.40673	1.6857	.07700
#2	4.7425	.32829	.00776	.40598	1.6879	.07803
#3	4.8097	.33161	.00661	.40806	1.6694	.07783
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**43621.**	**45451.**
Stddev	21.	543.
%RSD	.04705	1.1946
#1	43641.	45857.
#2	43621.	45661.
#3	43600.	44834.

Approved: March 30, 2011

Sample Name: L1103068615 Acquired: 3/29/2011 20:18:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00322**	**189.68**	**.10666**	**.15451**	**1.1127**	**.01212**	**174.43**
Stddev	.00044	1.73	.00228	.00096	.0038	.00010	.88
%RSD	13.651	.91074	2.1412	.62353	.34133	.79883	.50360
#1	.00325	188.11	.10532	.15350	1.1089	.01210	173.57
#2	.00364	191.53	.10535	.15462	1.1127	.01204	174.38
#3	.00276	189.40	.10929	.15541	1.1165	.01223	175.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00673**	**.08826**	**.30811**	**.11143**	**272.60**	**11.572**	**.14322**
Stddev	.00003	.00038	.00022	.00054	1.04	.053	.00068
%RSD	.49533	.43031	.07040	.48685	.38050	.46038	.47733
#1	.00676	.08828	.30816	.11092	271.41	11.512	.14243
#2	.00669	.08787	.30831	.11137	273.34	11.591	.14362
#3	.00674	.08863	.30788	.11200	273.04	11.613	.14361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.903**	**4.1824**	**.01243**	**3.4006**	**.11057**	**3.1901**	**.31987**
Stddev	.079	.0224	.00015	.0137	.00033	.0035	.00111
%RSD	.43890	.53661	1.2261	.40326	.29896	.10875	.34826
#1	17.815	4.1571	.01259	3.3944	.11038	3.1927	.32018
#2	17.968	4.1900	.01240	3.3910	.11037	3.1862	.31863
#3	17.924	4.2001	.01229	3.4163	.11095	3.1915	.32079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068615 Acquired: 3/29/2011 20:18:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-33.613**	F **242.53**	F **-20135.**	**.00758**	**.01021**	**1.9773**	**.01204**
Stddev	31.933	.56	31.	.00166	.00158	.0077	.00019
%RSD	95.001	.23076	.15448	21.853	15.431	.38731	1.6103
#1	-.4512	242.17	-20148.	.00888	.01140	1.9774	.01199
#2	-64.155	242.24	-20099.	.00572	.01080	1.9695	.01187
#3	-36.233	243.17	-20157.	.00814	.00842	1.9848	.01225
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.83466**	**.41471**	**.01197**	**.56403**	**.61815**	**.15135**
Stddev	.00351	.00100	.00071	.00126	.00103	.00035
%RSD	.42036	.24158	5.9461	.22262	.16654	.22984
#1	.83205	.41381	.01270	.56516	.61728	.15161
#2	.83328	.41454	.01194	.56425	.61928	.15150
#3	.83865	.41579	.01128	.56268	.61789	.15096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46487.**	**46668.**
Stddev	54.	263.
%RSD	.11649	.56325
#1	46454.	46723.
#2	46550.	46382.
#3	46458.	46898.

Approved: March 30, 2011

Sample Name: L1103068616 Acquired: 3/29/2011 20:21:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00436**	**268.46**	**.11729**	**.21456**	**1.6575**	**.01527**	**84.488**
Stddev	.00039	2.59	.00244	.00054	.0030	.00005	.234
%RSD	9.0410	.96425	2.0775	.25331	.18335	.30006	.27702
#1	.00396	265.60	.11675	.21438	1.6577	.01523	84.713
#2	.00437	269.15	.11517	.21412	1.6604	.01525	84.505
#3	.00474	270.63	.11995	.21517	1.6543	.01532	84.246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00723**	**.11772**	**.43052**	**.16668**	**306.23**	**19.221**	**.17100**
Stddev	.00004	.00025	.00114	.00090	.67	.051	.00130
%RSD	.49705	.21645	.26580	.53937	.21833	.26366	.76281
#1	.00719	.11795	.42958	.16687	305.50	19.269	.17176
#2	.00725	.11745	.43018	.16570	306.81	19.226	.17174
#3	.00726	.11777	.43180	.16747	306.38	19.168	.16949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.435**	**5.6536**	**.01190**	**1.3879**	**.14539**	**9.5014**	**.35672**
Stddev	.100	.0116	.00024	.0017	.00157	.0272	.00127
%RSD	.44500	.20495	2.0286	.12553	1.0830	.28629	.35547
#1	22.320	5.6561	.01198	1.3886	.14642	9.4859	.35743
#2	22.502	5.6637	.01162	1.3859	.14358	9.4856	.35526
#3	22.482	5.6410	.01208	1.3892	.14617	9.5328	.35748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068616 Acquired: 3/29/2011 20:21:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-58.414**	F **321.03**	F **-68306.**	**.00526**	**.01566**	**2.6799**	**.01517**
Stddev	69.531	1.93	190.	.00170	.00110	.0044	.00012
%RSD	119.03	.60163	.27866	32.352	7.0507	.16305	.78722
#1	-136.17	319.15	-68234.	.00683	.01675	2.6769	.01529
#2	-36.871	320.95	-68162.	.00549	.01454	2.6779	.01517
#3	-2.203	323.01	-68522.	.00345	.01569	2.6849	.01505
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52590**	**.39456**	**.01271**	**.60580**	**.97495**	**.14167**
Stddev	.00186	.00095	.00099	.00404	.00208	.00045
%RSD	.35387	.24121	7.7543	.66610	.21298	.31958
#1	.52804	.39565	.01203	.60202	.97327	.14146
#2	.52468	.39387	.01226	.60535	.97727	.14135
#3	.52498	.39417	.01384	.61005	.97431	.14219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46545.**	**46033.**
Stddev	11.	128.
%RSD	.02287	.27775
#1	46550.	45921.
#2	46552.	46004.
#3	46533.	46172.

Approved: March 30, 2011

Sample Name: L1103068617 Acquired: 3/29/2011 20:25:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	**199.10**	**.09879**	**.15979**	**1.1553**	**.01122**	F **2066.1**
Stddev	.00076	1.05	.00060	.00061	.0069	.00004	39.0
%RSD	17.846	.52647	.60684	.38074	.59965	.36904	1.8879
#1	.00375	198.70	.09933	.15980	1.1488	.01119	2109.9
#2	.00386	200.29	.09889	.15917	1.1626	.01127	2035.0
#3	.00511	198.31	.09814	.16039	1.1545	.01121	2053.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00720**	**.13370**	**.28513**	**.12097**	**257.77**	**13.988**	**.24534**
Stddev	.00011	.00003	.00108	.00050	.74	.073	.00062
%RSD	1.4727	.02309	.37990	.41610	.28540	.52209	.25290
#1	.00729	.13368	.28423	.12154	257.34	13.904	.24509
#2	.00724	.13370	.28633	.12078	258.62	14.028	.24604
#3	.00709	.13374	.28483	.12059	257.35	14.033	.24487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**42.024**	**5.8052**	**.00834**	**2.0237**	**.11622**	**5.9271**	**.30563**
Stddev	.106	.0199	.00022	.0064	.00051	.0282	.00198
%RSD	.25272	.34244	2.5875	.31579	.43487	.47648	.64917
#1	42.143	5.7888	.00836	2.0173	.11680	5.9536	.30428
#2	41.989	5.8273	.00812	2.0235	.11584	5.9303	.30791
#3	41.940	5.7995	.00855	2.0301	.11603	5.8974	.30471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068617 Acquired: 3/29/2011 20:25:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.3642**	F **2258.0**	F **-30983.**	**.00734**	**.01399**	**2.6243**	**.01195**
Stddev	43.583	6.6	145.	.00146	.00239	.0071	.00031
%RSD	684.80	.29297	.46783	19.955	17.067	.26998	2.6363
#1	-43.329	2258.8	-30958.	.00874	.01493	2.6316	.01231
#2	24.328	2264.2	-30851.	.00582	.01127	2.6240	.01174
#3	38.094	2251.0	-31138.	.00744	.01576	2.6174	.01179
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.7866**	**.42053**	**.01006**	**.53523**	**.52179**	**.14131**
Stddev	.0869	.00161	.00232	.00218	.00150	.00024
%RSD	.98931	.38318	23.080	.40706	.28825	.16994
#1	8.8811	.41875	.00741	.53376	.52265	.14138
#2	8.7101	.42190	.01101	.53773	.52267	.14150
#3	8.7686	.42093	.01175	.53419	.52006	.14104
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**43032.**	**44527.**
Stddev	105.	419.
%RSD	.24434	.94158
#1	42930.	44090.
#2	43027.	44565.
#3	43140.	44926.

Approved: March 30, 2011

Sample Name: L1103068618 Acquired: 3/29/2011 20:29:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00236**	**200.28**	**.10923**	**.16682**	**1.4843**	**.01213**	**83.900**
Stddev	.00054	.27	.00077	.00059	.0038	.00003	.463
%RSD	22.661	.13419	.70729	.35163	.25528	.27471	.55238
#1	.00276	200.48	.10974	.16715	1.4804	.01212	83.426
#2	.00258	200.38	.10834	.16614	1.4846	.01211	83.920
#3	.00175	199.97	.10961	.16716	1.4879	.01217	84.352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00748**	**.10468**	**.35555**	**.16029**	**258.37**	**15.927**	**.12946**
Stddev	.00003	.00012	.00080	.00036	1.15	.094	.00109
%RSD	.44924	.11818	.22467	.22211	.44602	.58886	.83842
#1	.00745	.10480	.35642	.15988	257.40	15.843	.12823
#2	.00751	.10469	.35485	.16049	258.06	15.910	.12986
#3	.00746	.10455	.35537	.16051	259.64	16.028	.13028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.891**	**5.9178**	**.01179**	**.81714**	**.12469**	**11.401**	**.37766**
Stddev	.145	.0486	.00013	.00425	.00029	.013	.00101
%RSD	.80858	.82200	1.1258	.52006	.23613	.11567	.26767
#1	17.809	5.8665	.01176	.81419	.12484	11.390	.37651
#2	17.806	5.9238	.01168	.81521	.12488	11.397	.37837
#3	18.058	5.9632	.01194	.82201	.12435	11.416	.37812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068618 Acquired: 3/29/2011 20:29:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-34.610**	F **313.82**	F **-65934.**	**.00546**	**.01530**	**1.8264**	**.01434**
Stddev	28.328	1.31	44.	.00195	.00100	.0084	.00009
%RSD	81.850	.41631	.06622	35.733	6.5047	.45815	.59531
#1	-28.447	312.46	-65898.	.00321	.01535	1.8303	.01439
#2	-65.512	313.94	-65983.	.00661	.01627	1.8321	.01438
#3	-9.8706	315.06	-65923.	.00655	.01428	1.8168	.01424
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49815**	**.35977**	**.01010**	**.51857**	**1.2512**	**.10190**
Stddev	.00193	.00075	.00109	.00158	.0044	.00044
%RSD	.38649	.20819	10.762	.30545	.34814	.42758
#1	.49599	.35982	.01004	.51816	1.2504	.10161
#2	.49878	.35899	.00904	.51724	1.2473	.10169
#3	.49969	.36049	.01122	.52033	1.2559	.10240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46843.**	**46255.**
Stddev	106.	445.
%RSD	.22539	.96186
#1	46805.	46375.
#2	46962.	46627.
#3	46761.	45762.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 20:32:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42919**	**10.310**	**.42503**	**.51966**	**1.0114**	**.05193**	**9.7478**
Stddev	.00053	.010	.00128	.00170	.0036	.00007	.0534
%RSD	.12314	.10002	.30148	.32625	.35539	.12613	.54765
#1	.42943	10.321	.42358	.52037	1.0143	.05185	9.7791
#2	.42858	10.300	.42550	.51773	1.0124	.05196	9.7781
#3	.42955	10.310	.42600	.52089	1.0074	.05197	9.6861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05303**	**.21334**	**.51852**	**.53617**	**3.7567**	**50.689**	**1.0268**
Stddev	.00009	.00097	.00093	.00137	.0259	.216	.0047
%RSD	.16120	.45494	.17975	.25503	.69003	.42660	.45632
#1	.05294	.21247	.51941	.53556	3.7731	50.810	1.0322
#2	.05311	.21439	.51861	.53774	3.7702	50.818	1.0246
#3	.05303	.21317	.51755	.53522	3.7268	50.439	1.0237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3377**	**.45273**	**.99059**	**50.207**	**.52007**	F **-.00214**	**.52559**
Stddev	.0744	.00263	.00148	.356	.00030	.00178	.00038
%RSD	.79704	.58202	.14915	.71000	.05677	83.219	.07318
#1	9.3529	.45405	.99215	50.436	.51974	-.00047	.52592
#2	9.4034	.45444	.98921	50.388	.52021	-.00193	.52517
#3	9.2569	.44969	.99041	49.796	.52028	-.00401	.52569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 20:32:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **83.574**	**10.574**	F **-1.6562**	**1.3049**	**.40682**	F **.00480**	**1.0464**
Stddev	63.172	.024	11.171	.0036	.00358	.00037	.0024
%RSD	75.589	.22728	674.49	.27678	.87956	7.7600	.22668
#1	82.191	10.572	-13.973	1.3051	.41030	.00486	1.0451
#2	147.43	10.599	7.8210	1.3083	.40701	.00440	1.0492
#3	21.104	10.551	1.1836	1.3011	.40316	.00514	1.0450
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		-10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98275**	**.99027**	**.53957**	**1.0417**	**1.0025**	F **.00067**
Stddev	.00542	.00408	.00208	.0009	.0018	.00006
%RSD	.55166	.41234	.38598	.08737	.18123	8.8787
#1	.98667	.99202	.53876	1.0424	1.0004	.00060
#2	.98501	.99319	.54194	1.0406	1.0035	.00071
#3	.97656	.98561	.53802	1.0420	1.0036	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49040.**	**44589.**
Stddev	137.	406.
%RSD	.27984	.91013
#1	49197.	44660.
#2	48979.	44153.
#3	48943.	44955.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 20:36:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.01833**	**.00102**	**.00176**	**-.00043**	**.00001**	**.00529**
Stddev	.00066	.00035	.00076	.00069	.00009	.00001	.00332
%RSD	122.84	1.9249	74.914	39.167	20.589	90.627	62.687
#1	-.00085	.01824	.00096	.00162	-.00046	.00001	.00784
#2	-.00097	.01872	.00029	.00251	-.00050	.00002	.00154
#3	.00022	.01803	.00181	.00115	-.00033	.00000	.00648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00002**	**-.00066**	**.00001**	**-.00377**	**.18308**	**-.00780**
Stddev	.00003	.00002	.00032	.00023	.00147	.01216	.00022
%RSD	43.107	100.84	48.754	1610.5	38.917	6.6410	2.8168
#1	-.00009	.00000	-.00033	-.00023	-.00209	.17033	-.00776
#2	-.00003	-.00003	-.00098	.00022	-.00483	.19454	-.00803
#3	-.00007	-.00002	-.00067	.00005	-.00439	.18438	-.00759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00902**	**-.00026**	**-.00004**	**.00222**	**.00113**	**-.00065**	**.00086**
Stddev	.01716	.00040	.00008	.00733	.00030	.00308	.00134
%RSD	190.35	156.68	196.00	330.69	26.382	474.93	156.14
#1	-.02672	.00005	-.00003	.01062	.00112	-.00176	-.00062
#2	.00755	-.00071	.00003	-.00114	.00144	.00283	.00201
#3	-.00788	-.00011	-.00012	-.00283	.00084	-.00302	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 20:36:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **112.89**	F **.05692**	F **1.2770**	**-.00090**	**.00084**	**.00083**	**-.00034**
Stddev	70.17	.04433	3.9049	.00049	.00061	.00081	.00030
%RSD	62.163	77.873	305.79	53.877	72.774	97.683	88.218
#1	87.124	.10364	-2.4294	-.00050	.00083	.00148	-.00061
#2	192.30	.01546	.90638	-.00144	.00024	.00110	-.00002
#3	59.236	.05166	5.3540	-.00076	.00146	-.00008	-.00040
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00088**	**.00075**	**-.00017**	**.00519**	**.00007**
Stddev	.00003	.00012	.00093	.00020	.00077	.00012
%RSD	39.418	13.675	124.31	113.72	14.918	174.58
#1	-.00006	.00078	-.00033	-.00005	.00469	.00006
#2	-.00012	.00101	.00133	-.00040	.00608	.00019
#3	-.00008	.00085	.00125	-.00007	.00480	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49240.**	**45140.**
Stddev	10.	273.
%RSD	.01937	.60571
#1	49243.	45454.
#2	49248.	44958.
#3	49229.	45007.

Approved: March 30, 2011

Sample Name: PBS 64 Acquired: 3/29/2011 20:40:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.02192**	**-.00253**	**.00128**	**.00045**	**-.00001**	**.06916**
Stddev	.00023	.00163	.00078	.00012	.00019	.00001	.00075
%RSD	1637.1	7.4510	30.758	9.7267	42.731	46.843	1.0896
#1	-.00025	.02006	-.00183	.00114	.00036	-.00001	.06980
#2	.00018	.02261	-.00239	.00139	.00067	-.00001	.06935
#3	.00010	.02310	-.00337	.00130	.00032	-.00002	.06833
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00043**	**.00072**	**-.00053**	**.00764**	**.17332**	**-.00773**
Stddev	.00003	.00005	.00016	.00013	.00247	.00675	.00029
%RSD	10.447	10.804	22.008	23.975	32.297	3.8950	3.7652
#1	.00024	-.00044	.00090	-.00047	.00777	.16882	-.00788
#2	.00027	-.00046	.00067	-.00044	.00511	.17006	-.00739
#3	.00030	-.00037	.00060	-.00067	.01004	.18108	-.00792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01379**	**-.00033**	**.00029**	**.02544**	**.00220**	F **-.01464**	**.00051**
Stddev	.00137	.00020	.00022	.00451	.00057	.00098	.00048
%RSD	9.9402	59.948	75.977	17.726	25.913	6.7017	94.255
#1	.01309	-.00047	.00006	.02526	.00285	-.01547	.00028
#2	.01291	-.00042	.00050	.02102	.00177	-.01356	.00106
#3	.01537	-.00010	.00032	.03003	.00198	-.01490	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: PBS 64 Acquired: 3/29/2011 20:40:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **30.931**	**.41445**	F **-74.765**	**.00113**	**.00255**	**.01338**	**-.00001**
Stddev	40.677	.01570	10.544	.00048	.00211	.00031	.00008
%RSD	131.51	3.7881	14.103	42.397	82.744	2.3360	1335.8
#1	1.4125	.39633	-67.510	.00111	.00203	.01304	-.00004
#2	77.330	.42386	-86.861	.00067	.00075	.01364	-.00006
#3	14.049	.42317	-69.924	.00163	.00487	.01347	.00008
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00050**	**-.00313**	**-.00019**	**.00728**	**-.00001**
Stddev	.00004	.00036	.00093	.00011	.00057	.00007
%RSD	20.669	72.838	29.645	58.915	7.8202	515.58
#1	.00017	.00015	-.00402	-.00008	.00750	.00004
#2	.00022	.00048	-.00217	-.00030	.00770	-.00010
#3	.00015	.00087	-.00321	-.00020	.00663	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47623.**	**45153.**
Stddev	63.	448.
%RSD	.13182	.99111
#1	47673.	44910.
#2	47553.	44879.
#3	47645.	45669.

Approved: March 30, 2011

Sample Name: LCSS 64 Acquired: 3/29/2011 20:43:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20877**	**.02290**	**.20681**	**.00150**	**.00145**	**.00001**	**.19747**
Stddev	.00125	.00220	.00037	.00064	.00019	.00001	.00566
%RSD	.59808	9.6134	.17728	42.666	13.387	99.990	2.8638
#1	.20856	.02329	.20639	.00139	.00164	.00001	.19100
#2	.20764	.02488	.20705	.00093	.00125	.00002	.20145
#3	.21011	.02053	.20700	.00220	.00145	.00000	.19996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02643**	**-.00036**	**.00054**	**.27341**	**.02198**	**.18739**	**-.00711**
Stddev	.00011	.00016	.00025	.00044	.00136	.00292	.00001
%RSD	.39733	44.501	45.858	.16218	6.2043	1.5601	.18110
#1	.02642	-.00048	.00047	.27323	.02080	.19070	-.00712
#2	.02654	-.00018	.00034	.27391	.02166	.18633	-.00711
#3	.02633	-.00042	.00082	.27308	.02347	.18515	-.00710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07656**	**.23035**	**.00052**	**.06809**	**.00212**	F **-.01521**	**.26440**
Stddev	.00523	.00076	.00004	.00055	.00033	.00226	.00166
%RSD	6.8341	.32925	7.0388	.81231	15.685	14.853	.62688
#1	.07847	.23089	.00050	.06793	.00224	-.01262	.26354
#2	.07065	.22949	.00056	.06870	.00174	-.01677	.26631
#3	.08057	.23068	.00050	.06763	.00237	-.01625	.26335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: LCSS 64 Acquired: 3/29/2011 20:43:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.493**	**.95413**	F **-193.11**	**.00166**	**.00345**	**.02346**	**.00140**
Stddev	53.508	.07810	11.07	.00061	.00128	.00068	.00006
%RSD	87.016	8.1859	5.7308	36.557	36.997	2.8813	4.4018
#1	111.01	.96176	-202.10	.00221	.00277	.02365	.00142
#2	4.7283	1.0281	-196.48	.00175	.00492	.02271	.00146
#3	68.745	.87248	-180.75	.00101	.00266	.02402	.00134
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.00169**	**-.00280**	**.00016**	**.00867**	**.00013**
Stddev	.00000	.00088	.00087	.00034	.00047	.00011
%RSD	.54199	51.968	31.031	205.65	5.3731	82.964
#1	.00081	.00069	-.00371	.00039	.00837	.00025
#2	.00081	.00234	-.00198	.00032	.00921	.00010
#3	.00082	.00203	-.00271	-.00022	.00843	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47502.**	**44645.**
Stddev	102.	487.
%RSD	.21408	1.0914
#1	47385.	44309.
#2	47560.	45203.
#3	47562.	44422.

Approved: March 30, 2011

Sample Name: L1103049909 Acquired: 3/29/2011 20:47:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01391**	**342.12**	**.14430**	**.22438**	**2.2153**	**.01580**	**154.23**
Stddev	.00008	3.41	.00301	.00150	.0045	.00004	.67
%RSD	.56102	.99741	2.0888	.66878	.20513	.27768	.43559
#1	.01393	345.09	.14415	.22442	2.2204	.01578	154.59
#2	.01397	342.88	.14738	.22286	2.2136	.01584	153.46
#3	.01382	338.39	.14136	.22586	2.2118	.01576	154.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10774**	**.13788**	**.34595**	**.79546**	**274.18**	**53.283**	**.24034**
Stddev	.00036	.00033	.00133	.00189	1.04	.149	.00046
%RSD	.33419	.23757	.38411	.23816	.37817	.27878	.19147
#1	.10789	.13791	.34481	.79599	275.31	53.447	.24048
#2	.10800	.13819	.34741	.79704	273.27	53.157	.23983
#3	.10733	.13754	.34561	.79336	273.95	53.245	.24072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.653**	**5.6283**	**.00686**	**2.9373**	**.25125**	**8.8448**	**1.7803**
Stddev	.263	.0335	.00031	.0093	.00008	.0165	.0027
%RSD	.52971	.59477	4.4853	.31625	.03238	.18712	.15227
#1	49.856	5.6545	.00691	2.9365	.25118	8.8434	1.7772
#2	49.356	5.5906	.00714	2.9284	.25134	8.8620	1.7818
#3	49.747	5.6397	.00653	2.9469	.25123	8.8290	1.7820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049909 Acquired: 3/29/2011 20:47:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-104.63**	F **315.89**	F **-46910.**	**.01997**	**.00903**	**1.9116**	**.04351**
Stddev	61.43	.88	45.	.00117	.00250	.0107	.00043
%RSD	58.709	.27780	.09503	5.8566	27.636	.55907	.99065
#1	-76.861	315.32	-46860.	.02132	.00944	1.9226	.04301
#2	-61.996	316.90	-46943.	.01931	.01129	1.9012	.04371
#3	-175.05	315.44	-46928.	.01927	.00635	1.9110	.04380
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.69874**	**.69912**	**.01225**	**.61763**	**13.390**	**.22032**
Stddev	.00348	.00268	.00055	.00196	.021	.00055
%RSD	.49851	.38319	4.5157	.31741	.15890	.25077
#1	.69857	.70180	.01250	.61596	13.370	.22022
#2	.69534	.69644	.01162	.61979	13.412	.21982
#3	.70230	.69910	.01264	.61715	13.390	.22091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47364.**	**48524.**
Stddev	48.	488.
%RSD	.10222	1.0050
#1	47369.	47993.
#2	47313.	48952.
#3	47409.	48628.

Approved: March 30, 2011

Sample Name: L1103049909PS Acquired: 3/29/2011 20:50:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360281-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22926**	**316.11**	**.33410**	**1.2058**	**2.5269**	**.04007**	**146.64**
Stddev	.00077	2.92	.00044	.0040	.0051	.00010	.22
%RSD	.33626	.92417	.13202	.32732	.20016	.25919	.15308
#1	.22866	319.38	.33461	1.2099	2.5219	.04016	146.38
#2	.23013	315.21	.33382	1.2054	2.5320	.03996	146.80
#3	.22899	313.75	.33388	1.2021	2.5268	.04009	146.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12342**	**.22471**	**.56493**	**.96539**	**254.18**	**72.895**	**.72872**
Stddev	.00042	.00030	.00240	.00186	.46	.107	.00173
%RSD	.33990	.13348	.42396	.19248	.18108	.14743	.23693
#1	.12386	.22500	.56664	.96740	253.65	72.773	.72742
#2	.12336	.22473	.56220	.96503	254.47	72.976	.73068
#3	.12303	.22440	.56597	.96374	254.41	72.936	.72807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.684**	**5.4168**	**.50588**	**27.180**	**.47098**	**8.0566**	**1.8516**
Stddev	.204	.0139	.00115	.017	.00083	.0150	.0018
%RSD	.41000	.25645	.22830	.06337	.17650	.18591	.09920
#1	49.468	5.4018	.50673	27.162	.47023	8.0695	1.8513
#2	49.713	5.4292	.50456	27.196	.47187	8.0602	1.8535
#3	49.872	5.4195	.50634	27.181	.47083	8.0401	1.8499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049909PS Acquired: 3/29/2011 20:50:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360281-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-59.865**	F **292.25**	F **-42789.**	**.62813**	**.20646**	**4.3568**	**.03969**
Stddev	62.166	.33	62.	.00215	.00132	.0077	.00043
%RSD	103.84	.11304	.14472	.34300	.63997	.17741	1.0890
#1	-108.95	292.60	-42719.	.63057	.20518	4.3653	.04012
#2	-80.679	291.94	-42815.	.62651	.20782	4.3549	.03969
#3	10.038	292.22	-42834.	.62730	.20637	4.3502	.03925
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1122**	**1.1011**	**.25140**	**1.0732**	**12.632**	**.20025**
Stddev	.0017	.0015	.00232	.0026	.013	.00050
%RSD	.15496	.13919	.92146	.24387	.10399	.24847
#1	1.1109	1.0994	.25405	1.0739	12.643	.20004
#2	1.1142	1.1016	.24975	1.0754	12.637	.19989
#3	1.1116	1.1024	.25041	1.0703	12.618	.20082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47238.**	**47394.**
Stddev	120.	73.
%RSD	.25457	.15464
#1	47115.	47330.
#2	47244.	47377.
#3	47356.	47474.

Approved: March 30, 2011

Sample Name: L1103049909SDL Acquired: 3/29/2011 20:54:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360281-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00276**	**72.826**	**.03436**	**.05133**	**.46641**	**.00331**	**32.757**
Stddev	.00046	1.061	.00187	.00088	.00267	.00003	.148
%RSD	16.730	1.4576	5.4544	1.7138	.57225	1.0082	.45191
#1	.00312	72.297	.03317	.05219	.46333	.00327	32.594
#2	.00292	72.133	.03338	.05137	.46802	.00332	32.795
#3	.00224	74.048	.03652	.05043	.46789	.00333	32.882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02361**	**.03114**	**.07276**	**.18126**	**60.987**	**11.570**	**.04481**
Stddev	.00043	.00067	.00117	.00301	.212	.043	.00101
%RSD	1.8146	2.1539	1.6088	1.6585	.34839	.36749	2.2452
#1	.02320	.03038	.07167	.17826	60.742	11.550	.04416
#2	.02357	.03141	.07261	.18124	61.092	11.541	.04597
#3	.02406	.03164	.07399	.18427	61.125	11.619	.04430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.149**	**1.2633**	**.00125**	**.62002**	**.05732**	**2.0456**	**.42197**
Stddev	.038	.0078	.00014	.00328	.00141	.0297	.00541
%RSD	.34228	.61781	11.036	.52962	2.4660	1.4534	1.2817
#1	11.187	1.2545	.00125	.62361	.05570	2.0134	.41576
#2	11.111	1.2659	.00111	.61718	.05793	2.0515	.42453
#3	11.148	1.2694	.00139	.61926	.05832	2.0719	.42563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049909SDL Acquired: 3/29/2011 20:54:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360281-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **50.131**	F **74.164**	F **-10825.**	**.00265**	**.00167**	**.42047**	**.00944**
Stddev	17.484	1.232	142.	.00015	.00118	.00350	.00028
%RSD	34.877	1.6610	1.3076	5.5554	70.290	.83295	2.9209
#1	30.294	72.934	-10674.	.00250	.00058	.41814	.00976
#2	63.302	74.161	-10848.	.00279	.00152	.41878	.00928
#3	56.797	75.398	-10955.	.00267	.00292	.42450	.00929
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14646**	**.14984**	**.00426**	**.12856**	**3.0758**	**.04595**
Stddev	.00051	.00039	.00137	.00157	.0310	.00053
%RSD	.34792	.26048	32.115	1.2215	1.0074	1.1559
#1	.14590	.14969	.00559	.12683	3.0458	.04536
#2	.14658	.15028	.00432	.12895	3.0739	.04612
#3	.14689	.14955	.00286	.12990	3.1077	.04637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50596.**	**47341.**
Stddev	378.	88.
%RSD	.74800	.18621
#1	50964.	47334.
#2	50617.	47432.
#3	50208.	47256.

Approved: March 30, 2011

Sample Name: L1103049909SDL Acquired: 3/29/2011 20:57:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360281-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**13.822**	**.00835**	**.01017**	**.08881**	**.00065**	**6.3071**
Stddev	.00024	.068	.00196	.00078	.00020	.00002	.0245
%RSD	34.664	.49231	23.479	7.6897	.22797	2.5584	.38919
#1	.00045	13.754	.01020	.00951	.08860	.00066	6.2790
#2	.00092	13.823	.00629	.00997	.08882	.00065	6.3247
#3	.00068	13.890	.00856	.01103	.08900	.00063	6.3174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00442**	**.00624**	**.01313**	**.03540**	**11.670**	**2.3626**	**.00383**
Stddev	.00009	.00015	.00002	.00045	.067	.0079	.00041
%RSD	1.9796	2.3968	.13664	1.2852	.57563	.33498	10.599
#1	.00446	.00628	.01311	.03493	11.608	2.3655	.00384
#2	.00432	.00636	.01313	.03584	11.661	2.3687	.00423
#3	.00447	.00607	.01315	.03543	11.741	2.3536	.00342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1352**	**.24466**	**.00008**	**.11242**	**.01101**	**.39844**	**.08287**
Stddev	.0133	.00153	.00005	.00465	.00037	.00406	.00083
%RSD	.62412	.62432	59.475	4.1355	3.3486	1.0192	.99630
#1	2.1274	.24320	.00013	.11008	.01136	.39383	.08191
#2	2.1276	.24625	.00004	.11777	.01105	.40000	.08339
#3	2.1506	.24453	.00006	.10940	.01063	.40149	.08330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049909SDL Acquired: 3/29/2011 20:57:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360281-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **56.715**	F **14.783**	F **-2143.8**	**-.00198**	**-.00056**	**.07823**	**.00135**
Stddev	64.894	.149	10.2	.00028	.00186	.00098	.00010
%RSD	114.42	1.0082	.47801	13.935	335.13	1.2568	7.1246
#1	124.67	14.618	-2135.3	-.00219	.00096	.07937	.00137
#2	50.092	14.821	-2140.9	-.00167	.00001	.07774	.00143
#3	-4.6133	14.909	-2155.2	-.00208	-.00264	.07760	.00124
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02880**	**.02983**	**.00332**	**.02437**	**.60501**	**.00702**
Stddev	.00017	.00083	.00111	.00029	.00415	.00008
%RSD	.60680	2.7900	33.343	1.2022	.68628	1.1410
#1	.02884	.03067	.00394	.02459	.60037	.00704
#2	.02896	.02900	.00398	.02404	.60625	.00708
#3	.02861	.02982	.00204	.02449	.60839	.00693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50329.**	**46913.**
Stddev	167.	327.
%RSD	.33215	.69631
#1	50471.	47290.
#2	50370.	46720.
#3	50145.	46729.

Approved: March 30, 2011

Sample Name: L1103049910 Acquired: 3/29/2011 21:01:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01526**	**305.14**	**.17054**	**.20074**	**1.9778**	**.01407**	**63.468**
Stddev	.00047	2.15	.00100	.00025	.0078	.00001	.381
%RSD	3.0973	.70358	.58663	.12336	.39659	.06243	.60036
#1	.01578	306.66	.17154	.20103	1.9863	.01407	63.858
#2	.01486	306.09	.17054	.20061	1.9761	.01408	63.451
#3	.01514	302.68	.16954	.20058	1.9709	.01407	63.097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12100**	**.15021**	**.31450**	**.72134**	**238.21**	**47.494**	**.20700**
Stddev	.00021	.00037	.00046	.00172	.57	.214	.00106
%RSD	.17071	.24756	.14533	.23851	.23838	.45125	.50980
#1	.12122	.15057	.31405	.72332	238.65	47.712	.20703
#2	.12081	.14983	.31497	.72032	237.57	47.485	.20805
#3	.12097	.15025	.31448	.72037	238.42	47.284	.20594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.938**	**6.3186**	**.00839**	**2.6501**	**.20810**	**7.2036**	**1.3596**
Stddev	.074	.0368	.00028	.0216	.00064	.0069	.0037
%RSD	.18882	.58307	3.2767	.81646	.30830	.09597	.27098
#1	38.891	6.3611	.00859	2.6674	.20774	7.2108	1.3575
#2	38.900	6.2953	.00808	2.6570	.20772	7.2031	1.3575
#3	39.023	6.2993	.00851	2.6258	.20884	7.1970	1.3639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049910 Acquired: 3/29/2011 21:01:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-203.05**	F **192.82**	F **-36603.**	**.02025**	**.00945**	**2.0722**	**.03971**
Stddev	31.64	1.07	73.	.00058	.00144	.0121	.00011
%RSD	15.580	.55375	.19849	2.8574	15.251	.58364	.28645
#1	-223.09	194.03	-36682.	.02085	.01083	2.0697	.03960
#2	-219.47	192.43	-36539.	.02021	.00957	2.0854	.03983
#3	-166.58	192.01	-36588.	.01970	.00796	2.0616	.03969
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49643**	**.96340**	**.01141**	**.60069**	**11.826**	**.17393**
Stddev	.00310	.00234	.00098	.00020	.027	.00054
%RSD	.62478	.24324	8.5949	.03299	.22707	.30885
#1	.49921	.96479	.01253	.60092	11.798	.17454
#2	.49699	.96472	.01072	.60056	11.830	.17371
#3	.49308	.96070	.01097	.60059	11.851	.17354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47163.**	**47944.**
Stddev	178.	434.
%RSD	.37753	.90606
#1	46987.	47443.
#2	47159.	48224.
#3	47343.	48163.

Approved: March 30, 2011

Sample Name: L1103049911 Acquired: 3/29/2011 21:05:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01047**	**285.18**	**.12211**	**.22983**	**2.6813**	**.01308**	**81.072**
Stddev	.00034	1.28	.00100	.00056	.0088	.00009	.332
%RSD	3.2652	.44866	.81782	.24427	.32819	.72509	.41012
#1	.01086	284.05	.12099	.22919	2.6850	.01298	81.325
#2	.01037	286.57	.12244	.23024	2.6877	.01312	81.195
#3	.01019	284.93	.12290	.23006	2.6713	.01315	80.696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12198**	**.14217**	**.34506**	**.72775**	**245.59**	**59.502**	**.21856**
Stddev	.00054	.00138	.00125	.00370	.50	.101	.00213
%RSD	.44363	.97152	.36148	.50808	.20377	.16897	.97266
#1	.12146	.14063	.34368	.72456	245.12	59.495	.22037
#2	.12195	.14262	.34537	.72690	246.12	59.605	.21909
#3	.12254	.14328	.34612	.73180	245.55	59.404	.21622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**53.949**	**5.3732**	**.00997**	**2.3960**	**.23314**	**19.768**	**1.6177**
Stddev	.112	.0210	.00009	.0104	.00186	.056	.0047
%RSD	.20763	.39030	.85772	.43282	.79758	.28164	.29172
#1	53.835	5.3716	.01007	2.4040	.23109	19.715	1.6135
#2	53.952	5.3949	.00991	2.3996	.23362	19.763	1.6168
#3	54.059	5.3530	.00993	2.3843	.23472	19.826	1.6228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049911 Acquired: 3/29/2011 21:05:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-51.688**	F **313.04**	F **-66567.**	**.02188**	**.01145**	**2.1102**	**.10152**
Stddev	31.414	2.83	206.	.00216	.00107	.0108	.00102
%RSD	60.776	.90262	.30966	9.8572	9.3177	.51383	1.0033
#1	-61.740	310.90	-66412.	.02103	.01052	2.1010	.10035
#2	-76.846	311.98	-66487.	.02433	.01120	2.1222	.10201
#3	-16.479	316.24	-66801.	.02028	.01261	2.1075	.10221
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.60591**	**.78679**	**.00900**	**.50563**	**12.697**	**.13326**
Stddev	.00335	.00153	.00194	.00134	.040	.00034
%RSD	.55321	.19460	21.617	.26430	.31278	.25361
#1	.60936	.78846	.00805	.50412	12.654	.13297
#2	.60569	.78647	.01123	.50614	12.703	.13319
#3	.60267	.78545	.00770	.50664	12.733	.13363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46925.**	**46966.**
Stddev	84.	115.
%RSD	.17846	.24528
#1	46954.	46878.
#2	46991.	46923.
#3	46831.	47096.

Approved: March 30, 2011

Sample Name: L1103049912 Acquired: 3/29/2011 21:08:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01329**	**290.40**	**.15100**	**.25435**	**2.6998**	**.01348**	**90.299**
Stddev	.00017	2.39	.00071	.00183	.0054	.00008	.262
%RSD	1.2975	.82190	.46748	.71866	.20049	.58304	.29008
#1	.01310	293.15	.15045	.25227	2.6938	.01344	90.268
#2	.01345	288.87	.15076	.25509	2.7013	.01343	90.575
#3	.01331	289.17	.15180	.25569	2.7043	.01357	90.054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21969**	**.12837**	**.32876**	**1.1910**	**306.87**	**53.712**	**.19638**
Stddev	.00113	.00036	.00178	.0065	.24	.144	.00086
%RSD	.51250	.27904	.54218	.54880	.07932	.26778	.43542
#1	.21894	.12806	.32804	1.1855	306.63	53.616	.19609
#2	.21915	.12829	.32744	1.1892	307.11	53.878	.19571
#3	.22099	.12876	.33079	1.1982	306.87	53.643	.19735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**44.601**	**5.5742**	**.00828**	**2.8031**	**.25356**	**26.017**	**2.5576**
Stddev	.206	.0069	.00032	.0057	.00048	.057	.0046
%RSD	.46295	.12283	3.8154	.20184	.18796	.21774	.17941
#1	44.692	5.5741	.00863	2.8074	.25302	25.963	2.5529
#2	44.746	5.5811	.00802	2.8053	.25393	26.012	2.5579
#3	44.364	5.5674	.00819	2.7967	.25373	26.076	2.5621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049912 Acquired: 3/29/2011 21:08:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-66.309**	F **281.09**	F **-54787.**	**.03429**	**.00788**	**2.1423**	**.18937**
Stddev	40.725	1.72	140.	.00107	.00302	.0044	.00205
%RSD	61.416	.61267	.25591	3.1130	38.266	.20504	1.0839
#1	-112.93	280.06	-54687.	.03454	.00445	2.1373	.18776
#2	-37.662	280.13	-54728.	.03520	.00910	2.1445	.18867
#3	-48.338	283.08	-54948.	.03312	.01009	2.1452	.19168
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.71347**	**.72620**	**.01041**	**.51608**	**20.919**	**.14536**
Stddev	.00323	.00145	.00085	.00030	.012	.00101
%RSD	.45334	.20020	8.2028	.05863	.05584	.69528
#1	.71349	.72601	.01029	.51603	20.931	.14429
#2	.71669	.72774	.01132	.51580	20.907	.14548
#3	.71022	.72485	.00962	.51640	20.920	.14630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46886.**	**47369.**
Stddev	26.	548.
%RSD	.05557	1.1575
#1	46891.	46891.
#2	46908.	47250.
#3	46857.	47967.

Approved: March 30, 2011

Sample Name: L1103049913 Acquired: 3/29/2011 21:12:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01910**	**363.82**	**.15234**	**.28478**	**4.0203**	**.01521**	**90.319**
Stddev	.00050	2.37	.00089	.00075	.0067	.00002	.192
%RSD	2.6030	.65146	.58481	.26331	.16577	.16222	.21289
#1	.01853	361.09	.15316	.28478	4.0279	.01520	90.540
#2	.01946	365.34	.15139	.28403	4.0161	.01520	90.196
#3	.01930	365.03	.15246	.28553	4.0168	.01524	90.220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18515**	**.15266**	**.36915**	**1.1824**	**302.63**	**66.674**	**.24625**
Stddev	.00086	.00048	.00159	.0057	.23	.137	.00079
%RSD	.46261	.31352	.43177	.47841	.07644	.20543	.32275
#1	.18511	.15266	.36849	1.1826	302.89	66.801	.24628
#2	.18431	.15218	.36799	1.1767	302.56	66.694	.24545
#3	.18602	.15314	.37096	1.1880	302.44	66.529	.24704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**54.876**	**6.3518**	**.01075**	**2.4462**	**.26127**	**16.753**	**2.9242**
Stddev	.029	.0148	.00035	.0054	.00122	.038	.0029
%RSD	.05195	.23289	3.2465	.22124	.46713	.22932	.09931
#1	54.855	6.3675	.01055	2.4524	.26192	16.740	2.9262
#2	54.908	6.3498	.01055	2.4439	.25986	16.723	2.9209
#3	54.865	6.3381	.01115	2.4423	.26202	16.796	2.9256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049913 Acquired: 3/29/2011 21:12:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-41.395**	F **324.97**	F **-67444.**	**.03498**	**.01015**	**1.8709**	**.16680**
Stddev	10.105	1.43	52.	.00138	.00181	.0086	.00071
%RSD	24.411	.43937	.07779	3.9428	17.838	.45905	.42374
#1	-52.657	325.52	-67412.	.03357	.00965	1.8649	.16652
#2	-38.404	323.35	-67417.	.03503	.01215	1.8808	.16760
#3	-33.122	326.05	-67505.	.03633	.00864	1.8671	.16628
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.74048**	**1.0810**	**.01220**	**.60512**	**19.164**	**.15988**
Stddev	.00185	.0015	.00051	.00040	.020	.00039
%RSD	.25045	.14381	4.2069	.06626	.10285	.24475
#1	.74258	1.0823	.01161	.60521	19.187	.16010
#2	.73908	1.0814	.01244	.60468	19.155	.15943
#3	.73978	1.0793	.01255	.60546	19.151	.16012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46766.**	**46715.**
Stddev	58.	326.
%RSD	.12506	.69695
#1	46704.	46410.
#2	46820.	46676.
#3	46776.	47058.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 21:15:49 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .44088	10.482	.43194	.53092	1.0069	.05344	9.5910
Stddev	.00126	.015	.00223	.00087	.0014	.00014	.0293
%RSD	.28501	.14666	.51611	.16376	.13633	.26390	.30514
#1	.44181	10.481	.43049	.52992	1.0061	.05359	9.6011
#2	.44137	10.498	.43450	.53142	1.0061	.05331	9.5580
#3	.43945	10.467	.43082	.53143	1.0085	.05342	9.6139
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05424	.21797	.53331	.54711	3.7438	50.342	1.0264
Stddev	.00012	.00045	.00060	.00152	.0047	.106	.0007
%RSD	.22117	.20425	.11171	.27731	.12453	.21014	.06859
#1	.05422	.21746	.53354	.54549	3.7407	50.352	1.0263
#2	.05437	.21820	.53263	.54736	3.7416	50.232	1.0258
#3	.05414	.21826	.53375	.54849	3.7492	50.443	1.0272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.3010	F .44445	1.0120	49.642	.52941	F -.00235	.53457
Stddev	.0462	.00168	.0015	.107	.00086	.00209	.00144
%RSD	.49634	.37850	.14565	.21512	.16287	89.197	.26972
#1	9.3287	.44405	1.0105	49.723	.52870	-.00283	.53308
#2	9.2477	.44301	1.0134	49.521	.53037	-.00416	.53596
#3	9.3266	.44630	1.0121	49.683	.52916	-.00005	.53467
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 21:15:49 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **175.67**	**10.719**	F **-2.4765**	F **1.3291**	**.41729**	F **.00396**	**1.0654**
Stddev	38.41	.014	18.311	.0046	.00251	.00062	.0016
%RSD	21.864	.12834	739.38	.34267	.60032	15.705	.15337
#1	184.94	10.706	-23.620	1.3239	.41946	.00327	1.0640
#2	133.47	10.718	8.1531	1.3313	.41455	.00448	1.0650
#3	208.59	10.733	8.0371	1.3322	.41787	.00415	1.0672
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000	1.2000		5.0000	
Range	10.000%		-10.000%	10.000%		-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96967**	**.98909**	**.54953**	**1.0665**	**1.0203**	F **.00062**
Stddev	.00175	.00236	.00253	.0017	.0021	.00003
%RSD	.18062	.23874	.46074	.16116	.20744	5.2342
#1	.96964	.99149	.54719	1.0663	1.0186	.00061
#2	.96793	.98677	.55222	1.0649	1.0196	.00066
#3	.97143	.98901	.54918	1.0683	1.0226	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48292.**	**44955.**
Stddev	62.	219.
%RSD	.12774	.48683
#1	48286.	44801.
#2	48356.	45206.
#3	48233.	44859.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 21:19:13 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.01724**	**.00118**	**.00127**	**-.00043**	**-.00001**	**.00311**
Stddev	.00047	.00077	.00078	.00087	.00013	.00000	.00926
%RSD	203.98	4.4799	65.740	68.182	30.480	26.342	297.51
#1	-.00009	.01664	.00102	.00104	-.00057	.00000	.00984
#2	-.00075	.01811	.00050	.00223	-.00032	-.00001	.00694
#3	.00016	.01696	.00203	.00055	-.00040	-.00001	-.00745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00009**	**-.00075**	**.00003**	**-.00186**	**.23055**	**-.00996**
Stddev	.00008	.00008	.00038	.00040	.00094	.02250	.00121
%RSD	481.14	86.527	50.570	1260.5	50.407	9.7612	12.189
#1	-.00001	.00014	-.00070	-.00019	-.00259	.25602	-.01041
#2	.00006	.00015	-.00114	-.00020	-.00220	.22228	-.00859
#3	-.00010	.00000	-.00039	.00049	-.00080	.21335	-.01089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02290**	**-.00056**	**-.00002**	**-.00510**	**.00092**	**-.00015**	**-.00106**
Stddev	.01327	.00013	.00019	.00513	.00010	.00121	.00042
%RSD	57.957	23.719	1167.0	100.66	10.736	808.81	39.976
#1	-.02666	-.00041	.00016	-.01013	.00084	.00120	-.00119
#2	-.00815	-.00061	.00000	-.00528	.00103	-.00114	-.00140
#3	-.03388	-.00067	-.00021	.00013	.00088	-.00050	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 21:19:13 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **137.04**	F **.04761**	F **-2.7266**	**-.00135**	**-.00027**	**-.00028**	**-.00023**
Stddev	66.73	.06475	12.496	.00159	.00052	.00046	.00020
%RSD	48.691	136.01	458.30	117.53	191.68	163.98	87.750
#1	175.61	.11804	-1.7141	-.00194	.00032	-.00019	-.00002
#2	175.52	-.00934	9.2325	.00045	-.00047	-.00077	-.00026
#3	59.992	.03412	-15.698	-.00256	-.00065	.00013	-.00042
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00063**	**.00016**	**.00003**	**.00420**	**.00011**
Stddev	.00001	.00034	.00056	.00006	.00064	.00004
%RSD	6.8329	53.991	350.05	230.74	15.245	36.174
#1	-.00013	.00054	.00080	-.00003	.00366	.00014
#2	-.00011	.00100	-.00006	.00002	.00491	.00007
#3	-.00012	.00034	-.00026	.00010	.00404	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48560.**	**44733.**
Stddev	85.	189.
%RSD	.17558	.42239
#1	48650.	44877.
#2	48552.	44803.
#3	48480.	44519.

Approved: March 30, 2011

Sample Name: L1103049914 Acquired: 3/29/2011 21:22:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01829**	**375.26**	**.19704**	**.26508**	**3.0364**	**.01665**	**103.71**
Stddev	.00087	2.79	.00211	.00049	.0123	.00005	.74
%RSD	4.7359	.74380	1.0688	.18419	.40401	.32168	.71476
#1	.01738	374.60	.19654	.26452	3.0440	.01670	104.33
#2	.01911	378.32	.19523	.26545	3.0429	.01665	103.90
#3	.01837	372.85	.19936	.26527	3.0222	.01659	102.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20876**	**.17579**	**.38338**	**1.1973**	**322.09**	**61.140**	**.27815**
Stddev	.00060	.00056	.00166	.0036	1.08	.308	.00156
%RSD	.28899	.31804	.43291	.29632	.33431	.50360	.56184
#1	.20938	.17615	.38150	1.2002	322.73	61.409	.27897
#2	.20871	.17609	.38396	1.1982	322.69	61.207	.27913
#3	.20818	.17515	.38466	1.1933	320.84	60.804	.27635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**57.081**	**6.6387**	**.01065**	**2.7892**	**.28047**	**16.363**	**2.9519**
Stddev	.047	.0483	.00014	.0213	.00175	.040	.0105
%RSD	.08232	.72673	1.3550	.76501	.62521	.24180	.35681
#1	57.101	6.6776	.01056	2.8136	.28103	16.406	2.9565
#2	57.114	6.6538	.01081	2.7799	.28188	16.354	2.9593
#3	57.027	6.5847	.01056	2.7740	.27851	16.329	2.9398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049914 Acquired: 3/29/2011 21:22:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-137.94**	F **277.43**	F **-50719.**	**.04166**	**.01006**	**2.0569**	**.09118**
Stddev	46.25	.60	33.	.00282	.00286	.0040	.00031
%RSD	33.529	.21621	.06412	6.7745	28.392	.19271	.33550
#1	-93.977	277.76	-50697.	.04391	.00677	2.0524	.09138
#2	-133.66	277.79	-50756.	.03849	.01160	2.0590	.09083
#3	-186.18	276.74	-50703.	.04257	.01182	2.0595	.09134
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.70986**	**.90666**	**.01293**	**.63358**	**23.632**	**.16770**
Stddev	.00516	.00163	.00055	.00150	.172	.00049
%RSD	.72697	.17956	4.2723	.23718	.72963	.29216
#1	.71441	.90850	.01343	.63525	23.788	.16736
#2	.71093	.90606	.01234	.63316	23.661	.16826
#3	.70425	.90541	.01301	.63233	23.446	.16747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46697.**	**47886.**
Stddev	140.	546.
%RSD	.29911	1.1400
#1	46663.	47304.
#2	46578.	47965.
#3	46851.	48388.

Approved: March 30, 2011

Sample Name: L1103049915 Acquired: 3/29/2011 21:26:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00621**	**303.32**	**.12630**	**.18458**	**2.1651**	**.01865**	**73.537**
Stddev	.00075	1.38	.00109	.00137	.0091	.00007	.220
%RSD	12.006	.45409	.86230	.74065	.41948	.38912	.29912
#1	.00658	302.61	.12560	.18395	2.1710	.01857	73.539
#2	.00670	302.46	.12756	.18364	2.1547	.01871	73.316
#3	.00535	304.91	.12575	.18614	2.1698	.01868	73.756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05054**	**.13731**	**.30020**	**.51113**	**302.47**	**46.881**	**.22094**
Stddev	.00048	.00121	.00078	.00191	.82	.109	.00153
%RSD	.94107	.88222	.25962	.37462	.27107	.23255	.69301
#1	.05010	.13627	.29957	.50894	301.80	46.871	.22261
#2	.05047	.13701	.30107	.51247	302.21	46.777	.21961
#3	.05105	.13864	.29996	.51199	303.38	46.994	.22059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**46.641**	**5.1766**	**.00776**	**2.3763**	**.31102**	**7.6147**	**.88814**
Stddev	.339	.0223	.00008	.0097	.00171	.0155	.00602
%RSD	.72653	.43166	1.0170	.40662	.55103	.20294	.67799
#1	46.252	5.1603	.00785	2.3686	.30918	7.6026	.88339
#2	46.799	5.1674	.00772	2.3731	.31130	7.6321	.88612
#3	46.873	5.2021	.00771	2.3871	.31257	7.6094	.89491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049915 Acquired: 3/29/2011 21:26:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-67.945**	F **192.76**	F **-34242.**	**.01458**	**.00730**	**2.3793**	**.03890**
Stddev	107.15	1.12	161.	.00332	.00277	.0083	.00026
%RSD	157.70	.58110	.46963	22.803	37.894	.35020	.66088
#1	21.915	191.48	-34120.	.01404	.00438	2.3716	.03861
#2	-39.220	193.56	-34181.	.01814	.00988	2.3881	.03897
#3	-186.53	193.24	-34424.	.01156	.00765	2.3781	.03911
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.57357**	**.25461**	**.01069**	**.53228**	**5.0601**	**.15240**
Stddev	.00122	.00077	.00212	.00146	.0093	.00045
%RSD	.21225	.30127	19.788	.27414	.18295	.29439
#1	.57382	.25424	.00936	.53068	5.0510	.15224
#2	.57224	.25549	.00958	.53262	5.0695	.15205
#3	.57464	.25410	.01313	.53353	5.0597	.15291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47334.**	**48406.**
Stddev	95.	96.
%RSD	.20026	.19928
#1	47442.	48494.
#2	47261.	48303.
#3	47300.	48419.

Approved: March 30, 2011

Sample Name: L1103049916 Acquired: 3/29/2011 21:30:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00941**	**429.00**	**.15976**	**.40621**	**2.7475**	**.02711**	**95.886**
Stddev	.00102	8.21	.00129	.00033	.0123	.00008	.266
%RSD	10.809	1.9129	.80834	.08146	.44822	.30458	.27736
#1	.00908	438.14	.16000	.40653	2.7566	.02701	96.062
#2	.00861	422.25	.15836	.40587	2.7524	.02715	96.016
#3	.01056	426.61	.16091	.40623	2.7335	.02716	95.580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08461**	**.18624**	**.39430**	**.67715**	**322.84**	**56.801**	**.29872**
Stddev	.00032	.00077	.00104	.00221	.99	.127	.00120
%RSD	.37377	.41209	.26451	.32665	.30744	.22332	.40325
#1	.08465	.18648	.39337	.67848	323.56	56.931	.30009
#2	.08490	.18687	.39543	.67838	323.24	56.792	.29824
#3	.08427	.18539	.39410	.67460	321.71	56.678	.29783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**51.932**	**6.6960**	**.01442**	**4.1028**	**.32400**	**10.014**	**1.4637**
Stddev	.049	.0216	.00010	.0051	.00083	.019	.0006
%RSD	.09514	.32216	.72338	.12534	.25717	.18804	.04345
#1	51.985	6.7094	.01447	4.1086	.32495	10.022	1.4644
#2	51.888	6.7074	.01449	4.1010	.32340	10.027	1.4635
#3	51.921	6.6711	.01430	4.0988	.32365	9.9923	1.4632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049916 Acquired: 3/29/2011 21:30:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-126.63**	F **234.97**	F **-40008.**	**.01789**	**.00659**	**1.7860**	**.04849**
Stddev	85.01	1.49	150.	.00129	.00347	.0037	.00060
%RSD	67.130	.63213	.37425	7.2253	52.673	.20923	1.2464
#1	-223.31	236.21	-40120.	.01857	.00783	1.7875	.04918
#2	-63.594	235.39	-40065.	.01871	.00267	1.7887	.04804
#3	-92.989	233.33	-39838.	.01640	.00928	1.7817	.04827
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.83215**	**.65663**	**.01371**	**.70305**	**9.7844**	**.20711**
Stddev	.00133	.00218	.00124	.00391	.0209	.00029
%RSD	.15947	.33258	9.0311	.55614	.21313	.13812
#1	.83296	.65909	.01514	.69867	9.8025	.20744
#2	.83287	.65588	.01295	.70620	9.7891	.20692
#3	.83062	.65492	.01303	.70427	9.7616	.20696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47801.**	**48704.**
Stddev	100.	303.
%RSD	.20939	.62218
#1	47690.	48355.
#2	47829.	48857.
#3	47884.	48901.

Approved: March 30, 2011

Sample Name: L1103049917 Acquired: 3/29/2011 21:33:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01226**	**260.44**	**.14431**	**.27372**	**2.6722**	**.01541**	**81.087**
Stddev	.00063	.67	.00112	.00091	.0045	.00003	.230
%RSD	5.1602	.25607	.77409	.33309	.16650	.17626	.28380
#1	.01170	259.94	.14545	.27291	2.6765	.01542	81.160
#2	.01213	260.18	.14322	.27354	2.6676	.01538	80.829
#3	.01294	261.20	.14426	.27470	2.6725	.01544	81.272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14810**	**.14225**	**.30236**	**1.0430**	**255.05**	**51.784**	**.17912**
Stddev	.00034	.00064	.00132	.0013	.61	.155	.00153
%RSD	.22737	.44939	.43544	.12448	.24108	.29989	.85626
#1	.14848	.14201	.30366	1.0441	254.78	51.781	.18046
#2	.14790	.14298	.30103	1.0433	254.62	51.629	.17745
#3	.14790	.14177	.30239	1.0416	255.76	51.940	.17946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**42.118**	**5.5745**	**.01044**	**3.1336**	**.23796**	**19.304**	**2.2102**
Stddev	.132	.0230	.00019	.0047	.00218	.026	.0027
%RSD	.31458	.41199	1.8483	.14918	.91683	.13444	.12398
#1	41.982	5.5703	.01029	3.1389	.23742	19.332	2.2071
#2	42.126	5.5539	.01066	3.1319	.24036	19.298	2.2118
#3	42.247	5.5992	.01038	3.1300	.23610	19.281	2.2118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049917 Acquired: 3/29/2011 21:33:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.882**	F **298.11**	F **-61171.**	**.03100**	**.01134**	**1.9417**	**.10789**
Stddev	16.997	.33	150.	.00087	.00092	.0099	.00071
%RSD	114.21	.11087	.24510	2.8058	8.1348	.50793	.65600
#1	-4.6325	298.38	-61326.	.03166	.01134	1.9409	.10848
#2	22.834	298.21	-61161.	.03001	.01226	1.9519	.10808
#3	26.446	297.75	-61027.	.03132	.01042	1.9323	.10710
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.66826**	**.50303**	**.00864**	**.46647**	**15.988**	**.11618**
Stddev	.00160	.00117	.00160	.00118	.054	.00015
%RSD	.23890	.23306	18.534	.25399	.33793	.13331
#1	.66914	.50372	.01000	.46557	15.926	.11610
#2	.66641	.50167	.00906	.46603	16.018	.11608
#3	.66921	.50369	.00687	.46781	16.020	.11636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47325.**	**48103.**
Stddev	87.	104.
%RSD	.18418	.21527
#1	47271.	48035.
#2	47279.	48222.
#3	47426.	48052.

Approved: March 30, 2011

Sample Name: L1103049918 Acquired: 3/29/2011 21:37:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00416**	**223.45**	**.12902**	**.13509**	**1.5779**	**.01446**	**60.725**
Stddev	.00029	.86	.00042	.00140	.0086	.00003	.247
%RSD	6.8580	.38587	.32511	1.0366	.54500	.23604	.40623
#1	.00405	224.32	.12878	.13409	1.5747	.01450	60.801
#2	.00448	223.45	.12879	.13449	1.5713	.01443	60.449
#3	.00394	222.59	.12951	.13669	1.5876	.01447	60.925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07093**	**.11588**	**.24585**	**.48797**	**195.47**	**39.142**	**.15244**
Stddev	.00007	.00025	.00039	.00136	1.15	.175	.00038
%RSD	.09844	.21735	.15909	.27819	.58886	.44598	.25240
#1	.07098	.11597	.24625	.48834	195.06	39.144	.15252
#2	.07095	.11559	.24582	.48910	194.57	38.967	.15278
#3	.07085	.11607	.24547	.48646	196.77	39.316	.15202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.433**	**4.3038**	**.00705**	**3.1377**	**.18222**	**11.314**	**.73118**
Stddev	.160	.0280	.00016	.0056	.00176	.019	.00212
%RSD	.46402	.65064	2.2948	.17743	.96424	.16589	.29053
#1	34.393	4.3008	.00696	3.1420	.18312	11.325	.73243
#2	34.297	4.2774	.00696	3.1314	.18335	11.324	.73239
#3	34.609	4.3332	.00724	3.1396	.18020	11.292	.72873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049918 Acquired: 3/29/2011 21:37:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-29.528**	F **190.19**	F **-37831.**	**.01537**	**.00912**	**2.0322**	**.03428**
Stddev	52.134	.62	230.	.00253	.00137	.0133	.00036
%RSD	176.56	.32565	.60901	16.451	14.992	.65473	1.0437
#1	8.4343	189.56	-38097.	.01406	.01024	2.0397	.03449
#2	-8.0470	190.20	-37687.	.01828	.00952	2.0168	.03448
#3	-88.970	190.80	-37709.	.01376	.00760	2.0401	.03387
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48571**	**.26013**	**.00902**	**.50346**	**9.3976**	**.13754**
Stddev	.00117	.00125	.00189	.00200	.0081	.00052
%RSD	.24116	.48025	20.972	.39729	.08609	.37655
#1	.48704	.26075	.01088	.50551	9.4050	.13713
#2	.48484	.26094	.00909	.50334	9.3988	.13736
#3	.48525	.25869	.00709	.50152	9.3890	.13812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48468.**	**47800.**
Stddev	93.	433.
%RSD	.19143	.90608
#1	48362.	47545.
#2	48535.	48300.
#3	48507.	47555.

Approved: March 30, 2011

Sample Name: L1103049919 Acquired: 3/29/2011 21:40:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01538**	**319.27**	**.14205**	**.26134**	**2.2580**	**.01285**	**188.65**
Stddev	.00028	1.92	.00145	.00107	.0069	.00005	.47
%RSD	1.8120	.60156	1.0198	.40872	.30321	.40979	.24732
#1	.01570	319.02	.14075	.26067	2.2502	.01287	188.11
#2	.01524	321.30	.14362	.26079	2.2615	.01280	188.90
#3	.01519	317.49	.14179	.26257	2.2625	.01290	188.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11832**	**.13771**	**.31836**	**.80356**	**240.96**	**58.894**	**.22919**
Stddev	.00053	.00037	.00207	.00386	.97	.062	.00175
%RSD	.45201	.27167	.65139	.47991	.40177	.10503	.76281
#1	.11812	.13769	.31803	.80054	240.19	58.831	.22720
#2	.11792	.13735	.31648	.80225	240.64	58.896	.22987
#3	.11893	.13809	.32058	.80790	242.05	58.955	.23049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.671**	**6.0455**	**.00815**	**2.5981**	**.21868**	**12.423**	**1.6719**
Stddev	.263	.0254	.00016	.0047	.00112	.024	.0058
%RSD	.54136	.41962	1.9097	.18198	.51431	.19230	.34959
#1	48.532	6.0190	.00821	2.5926	.21752	12.406	1.6657
#2	48.506	6.0477	.00827	2.6012	.21876	12.413	1.6726
#3	48.975	6.0696	.00797	2.6003	.21977	12.451	1.6774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049919 Acquired: 3/29/2011 21:40:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-72.254**	F **392.42**	F **-58758.**	**.02521**	**.01102**	**2.1038**	**.04888**
Stddev	64.595	2.21	87.	.00094	.00124	.0135	.00014
%RSD	89.400	.56436	.14838	3.7100	11.296	.64010	.28670
#1	-77.257	391.22	-58683.	.02628	.00958	2.1059	.04888
#2	-5.3028	391.06	-58737.	.02456	.01174	2.0895	.04875
#3	-134.20	394.97	-58854.	.02478	.01173	2.1162	.04903
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.84388**	**1.0182**	**.01256**	**.54240**	**10.978**	**.13363**
Stddev	.00177	.0038	.00099	.00172	.040	.00038
%RSD	.20921	.37414	7.8878	.31696	.36269	.28164
#1	.84185	1.0138	.01289	.54389	10.984	.13320
#2	.84498	1.0209	.01334	.54052	10.935	.13388
#3	.84482	1.0198	.01144	.54279	11.014	.13383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46773.**	**47240.**
Stddev	66.	287.
%RSD	.14195	.60652
#1	46806.	46993.
#2	46815.	47554.
#3	46696.	47172.

Approved: March 30, 2011

Sample Name: L1103049920S Acquired: 3/29/2011 21:44:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21503**	**285.91**	**.33071**	**.20915**	**2.1847**	**.01423**	**83.218**
Stddev	.00043	2.64	.00039	.00041	.0069	.00003	.085
%RSD	.20146	.92389	.11827	.19740	.31769	.21799	.10253
#1	.21483	284.06	.33111	.20869	2.1892	.01420	83.306
#2	.21552	284.73	.33069	.20930	2.1881	.01426	83.214
#3	.21472	288.94	.33033	.20947	2.1767	.01422	83.135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13489**	**.14639**	**.29351**	**1.1029**	**244.18**	**55.493**	**.20643**
Stddev	.00036	.00003	.00135	.0025	.35	.098	.00009
%RSD	.26769	.02105	.45894	.22491	.14523	.17649	.04525
#1	.13448	.14642	.29208	1.1001	244.32	55.555	.20653
#2	.13504	.14636	.29369	1.1039	244.44	55.544	.20643
#3	.13515	.14638	.29475	1.1047	243.77	55.380	.20634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**46.627**	**5.9072**	**.00708**	**2.3102**	**.22097**	**12.015**	**1.7447**
Stddev	.120	.0058	.00015	.0076	.00029	.032	.0103
%RSD	.25771	.09750	2.1417	.32926	.13270	.26857	.59097
#1	46.518	5.9124	.00722	2.3014	.22074	11.985	1.7393
#2	46.608	5.9081	.00692	2.3148	.22088	12.011	1.7382
#3	46.756	5.9010	.00711	2.3143	.22130	12.049	1.7566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049920S Acquired: 3/29/2011 21:44:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-51.828**	F **247.11**	F **-46738.**	**.02149**	**.00950**	**2.5894**	**.05146**
Stddev	16.814	.63	108.	.00176	.00183	.0055	.00066
%RSD	32.442	.25585	.23097	8.1783	19.278	.21379	1.2811
#1	-33.879	246.82	-46665.	.02265	.01148	2.5832	.05222
#2	-54.391	247.84	-46688.	.01947	.00786	2.5939	.05104
#3	-67.213	246.67	-46862.	.02235	.00915	2.5913	.05111
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.57727**	**.55561**	**.00835**	**.50069**	**10.913**	**.13812**
Stddev	.00022	.00025	.00133	.00029	.046	.00042
%RSD	.03738	.04466	15.886	.05757	.42174	.30578
#1	.57736	.55589	.00915	.50074	10.907	.13776
#2	.57702	.55542	.00682	.50095	10.870	.13803
#3	.57742	.55552	.00909	.50038	10.961	.13859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46998.**	**46894.**
Stddev	126.	214.
%RSD	.26912	.45734
#1	47078.	46646.
#2	47064.	47019.
#3	46852.	47017.

Approved: March 30, 2011

Sample Name: L1103049921SD Acquired: 3/29/2011 21:47:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21051**	**287.69**	**.33001**	**.20615**	**2.2553**	**.01415**	**91.677**
Stddev	.00179	1.74	.00202	.00093	.0072	.00007	.421
%RSD	.85004	.60355	.61232	.44958	.31707	.50857	.45911
#1	.21207	289.44	.32914	.20587	2.2471	.01414	91.192
#2	.20856	287.67	.32857	.20719	2.2589	.01408	91.907
#3	.21090	285.96	.33232	.20541	2.2600	.01422	91.933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12189**	**.14928**	**.29340**	**.90384**	**237.30**	**51.869**	**.21169**
Stddev	.00041	.00105	.00036	.00366	1.31	.202	.00032
%RSD	.33620	.70541	.12418	.40454	.55216	.38997	.15015
#1	.12223	.15023	.29320	.90696	235.89	51.638	.21173
#2	.12143	.14815	.29382	.89982	238.48	52.016	.21135
#3	.12201	.14947	.29318	.90475	237.53	51.952	.21198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**47.283**	**6.7064**	**.00803**	**2.1244**	**.22785**	**9.7251**	**1.6601**
Stddev	.328	.0466	.00024	.0049	.00060	.0251	.0038
%RSD	.69299	.69473	3.0099	.22902	.26141	.25842	.22775
#1	46.939	6.6537	.00780	2.1219	.22851	9.7400	1.6631
#2	47.592	6.7420	.00803	2.1300	.22735	9.6961	1.6559
#3	47.317	6.7235	.00828	2.1213	.22768	9.7392	1.6614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049921SD Acquired: 3/29/2011 21:47:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-70.415**	F **236.23**	F **-41860.**	**.02215**	**.00775**	**2.3393**	**.04494**
Stddev	37.240	1.40	185.	.00146	.00101	.0228	.00037
%RSD	52.886	.59253	.44115	6.5791	13.001	.97492	.82830
#1	-68.809	237.55	-42061.	.02355	.00864	2.3655	.04475
#2	-34.004	234.76	-41697.	.02227	.00796	2.3239	.04537
#3	-108.43	236.39	-41823.	.02064	.00666	2.3285	.04470
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.56366**	**.52356**	**.01045**	**.52902**	**9.4632**	**.14918**
Stddev	.00212	.00062	.00274	.00263	.0168	.00025
%RSD	.37586	.11896	26.241	.49730	.17759	.16442
#1	.56159	.52298	.00949	.53144	9.4738	.14889
#2	.56357	.52422	.00832	.52622	9.4439	.14932
#3	.56582	.52347	.01354	.52940	9.4721	.14931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47286.**	**47115.**
Stddev	134.	387.
%RSD	.28375	.82088
#1	47134.	47194.
#2	47335.	46695.
#3	47389.	47456.

Approved: March 30, 2011

Sample Name: L1103049922 Acquired: 3/29/2011 21:51:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01090**	**299.22**	**.17347**	**.19811**	**2.0877**	**.01492**	**68.592**
Stddev	.00037	2.16	.00249	.00074	.0051	.00003	.181
%RSD	3.4238	.72023	1.4334	.37477	.24297	.19480	.26455
#1	.01129	296.76	.17082	.19847	2.0855	.01494	68.758
#2	.01055	300.77	.17574	.19860	2.0842	.01489	68.398
#3	.01087	300.13	.17387	.19725	2.0935	.01493	68.621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13668**	**.16664**	**.30847**	**.77718**	**259.10**	**50.412**	**.20338**
Stddev	.00059	.00070	.00084	.00364	.63	.073	.00070
%RSD	.42804	.42012	.27195	.46824	.24330	.14425	.34200
#1	.13637	.16646	.30791	.77625	258.38	50.485	.20405
#2	.13735	.16741	.30943	.78119	259.41	50.340	.20266
#3	.13631	.16604	.30805	.77409	259.52	50.411	.20343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**42.526**	**6.7755**	**.01081**	**3.9210**	**.21333**	**12.718**	**1.9294**
Stddev	.142	.0162	.00020	.0145	.00071	.029	.0053
%RSD	.33432	.23830	1.8559	.37011	.33130	.22420	.27503
#1	42.381	6.7873	.01076	3.9378	.21374	12.695	1.9240
#2	42.665	6.7571	.01064	3.9130	.21373	12.750	1.9346
#3	42.531	6.7821	.01103	3.9123	.21251	12.709	1.9298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049922 Acquired: 3/29/2011 21:51:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-21.659**	F **224.31**	F **-45044.**	**.02557**	**.01031**	**1.7105**	**.06665**
Stddev	59.327	1.18	32.	.00185	.00354	.0045	.00037
%RSD	273.91	.52603	.07108	7.2359	34.359	.26547	.55787
#1	-63.299	223.55	-45022.	.02770	.01418	1.7095	.06641
#2	46.270	225.67	-45081.	.02432	.00723	1.7155	.06646
#3	-47.947	223.71	-45029.	.02470	.00952	1.7066	.06708
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58564**	**.57518**	**.00984**	**.55502**	**12.609**	**.13135**
Stddev	.00215	.00110	.00243	.00127	.015	.00012
%RSD	.36757	.19126	24.644	.22801	.12052	.09450
#1	.58772	.57584	.00736	.55406	12.614	.13141
#2	.58342	.57579	.01221	.55454	12.622	.13143
#3	.58577	.57391	.00995	.55645	12.592	.13120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47921.**	**47586.**
Stddev	100.	273.
%RSD	.20940	.57446
#1	47844.	47362.
#2	47885.	47506.
#3	48035.	47891.

Approved: March 30, 2011

Sample Name: L1103049923 Acquired: 3/29/2011 21:54:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01052**	**333.27**	**.10377**	**.24958**	**2.3196**	**.01358**	**78.925**
Stddev	.00030	2.29	.00139	.00003	.0026	.00004	.102
%RSD	2.8910	.68634	1.3397	.01257	.11357	.27439	.12876
#1	.01083	330.84	.10415	.24956	2.3218	.01357	79.026
#2	.01051	333.60	.10223	.24962	2.3202	.01363	78.823
#3	.01022	335.38	.10493	.24957	2.3167	.01356	78.926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08833**	**.13661**	**.35795**	**.60756**	**248.06**	**65.350**	**.25317**
Stddev	.00035	.00032	.00225	.00156	.67	.056	.00139
%RSD	.39965	.23730	.62989	.25712	.26866	.08549	.54953
#1	.08845	.13644	.36054	.60936	247.40	65.313	.25378
#2	.08793	.13698	.35689	.60669	248.04	65.323	.25415
#3	.08861	.13640	.35641	.60662	248.73	65.415	.25157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**61.058**	**5.7805**	**.00813**	**2.5054**	**.23858**	**16.895**	**1.0769**
Stddev	.409	.0140	.00014	.0031	.00057	.072	.0030
%RSD	.66918	.24209	1.6649	.12474	.23779	.42895	.27686
#1	60.683	5.7784	.00826	2.5067	.23813	16.969	1.0735
#2	60.996	5.7676	.00814	2.5018	.23839	16.824	1.0792
#3	61.493	5.7954	.00799	2.5077	.23922	16.890	1.0779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049923 Acquired: 3/29/2011 21:54:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-54.281**	F **260.04**	F **-52854.**	**.01543**	**.00897**	**1.6484**	**.05088**
Stddev	33.795	.93	196.	.00241	.00193	.0010	.00048
%RSD	62.260	.35628	.37066	15.584	21.476	.05896	.94457
#1	-22.238	261.10	-53061.	.01611	.01081	1.6473	.05067
#2	-89.591	259.39	-52671.	.01743	.00913	1.6488	.05053
#3	-51.013	259.64	-52830.	.01276	.00697	1.6491	.05143
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.55402**	**1.1087**	**.01004**	**.56790**	**9.0899**	**.14839**
Stddev	.00108	.0014	.00044	.00112	.0154	.00016
%RSD	.19520	.12618	4.4214	.19782	.16988	.10480
#1	.55527	1.1082	.00969	.56887	9.0943	.14844
#2	.55348	1.1075	.00990	.56817	9.1026	.14822
#3	.55332	1.1102	.01054	.56667	9.0727	.14852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47736.**	**47604.**
Stddev	70.	137.
%RSD	.14715	.28695
#1	47656.	47644.
#2	47766.	47715.
#3	47787.	47451.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 21:58:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43866**	**10.458**	**.42920**	**.52917**	**1.0150**	**.05314**	**9.7351**
Stddev	.00328	.021	.00194	.00082	.0027	.00018	.0357
%RSD	.74805	.19601	.45138	.15440	.26452	.33141	.36649
#1	.44125	10.437	.43080	.53011	1.0180	.05333	9.7762
#2	.43497	10.459	.42705	.52865	1.0127	.05313	9.7124
#3	.43976	10.478	.42975	.52875	1.0143	.05298	9.7167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05391**	**.21674**	**.53024**	**.54606**	**3.7605**	**51.174**	**1.0332**
Stddev	.00008	.00023	.00083	.00054	.0114	.153	.0033
%RSD	.14387	.10474	.15633	.09936	.30371	.29896	.31944
#1	.05399	.21694	.53078	.54564	3.7724	51.350	1.0370
#2	.05383	.21649	.53065	.54668	3.7595	51.099	1.0310
#3	.05390	.21677	.52928	.54587	3.7497	51.073	1.0316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3221**	**.45174**	**1.0106**	**50.460**	**.52863**	F **-.00360**	**.53349**
Stddev	.0083	.00114	.0012	.178	.00027	.00198	.00154
%RSD	.08961	.25311	.11396	.35223	.05160	54.955	.28881
#1	9.3158	.45275	1.0098	50.658	.52868	-.00147	.53494
#2	9.3316	.45050	1.0102	50.409	.52886	-.00395	.53187
#3	9.3190	.45197	1.0120	50.314	.52833	-.00537	.53367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 21:58:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **181.03**	**10.705**	**10.656**	F **1.3250**	**.41736**	F **.00435**	**1.0627**
Stddev	18.48	.050	4.370	.0044	.00409	.00082	.0011
%RSD	10.208	.46356	41.012	.32926	.98065	18.757	.10413
#1	194.25	10.650	10.365	1.3212	.41391	.00514	1.0640
#2	188.92	10.746	6.4388	1.3241	.41628	.00351	1.0621
#3	159.91	10.718	15.165	1.3298	.42188	.00440	1.0620
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000			1.2000		5.0000	
Range	10.000%			10.000%		-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98122**	**.98920**	**.54725**	**1.0602**	**1.0172**	F **.00067**
Stddev	.00167	.00065	.00192	.0009	.0007	.00004
%RSD	.17042	.06559	.35073	.08425	.06511	5.9989
#1	.98301	.98920	.54636	1.0609	1.0165	.00067
#2	.98093	.98855	.54594	1.0592	1.0176	.00063
#3	.97971	.98985	.54945	1.0606	1.0176	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48594.**	**44558.**
Stddev	23.	103.
%RSD	.04819	.23025
#1	48571.	44643.
#2	48618.	44444.
#3	48593.	44587.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 22:01:44 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.01622**	**.00081**	**.00169**	**-.00062**	**-.00002**	**.00258**
Stddev	.00064	.00020	.00053	.00021	.00014	.00001	.00461
%RSD	109.01	1.2083	66.225	12.496	22.392	30.795	178.71
#1	.00118	.01629	.00039	.00193	-.00078	-.00002	.00754
#2	-.00010	.01636	.00141	.00162	-.00054	-.00003	-.00159
#3	.00069	.01599	.00062	.00152	-.00054	-.00003	.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00005**	**-.00048**	**.00020**	**-.00164**	**.31540**	**-.01073**
Stddev	.00011	.00016	.00006	.00038	.00302	.00251	.00072
%RSD	124.31	339.56	11.998	190.48	184.37	.79546	6.7541
#1	-.00003	-.00014	-.00049	-.00002	.00120	.31824	-.01155
#2	-.00002	.00012	-.00053	-.00002	-.00482	.31349	-.01017
#3	-.00021	.00017	-.00042	.00063	-.00130	.31447	-.01046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01249**	**-.00024**	**.00005**	**.01122**	**.00061**	**-.00027**	**.00024**
Stddev	.01665	.00010	.00011	.00960	.00029	.00107	.00081
%RSD	133.23	43.636	242.91	85.624	46.766	391.31	333.68
#1	-.02803	-.00025	.00013	.02188	.00031	.00096	-.00050
#2	-.01453	-.00013	.00009	.00326	.00088	-.00085	.00110
#3	.00508	-.00034	-.00008	.00850	.00064	-.00093	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 22:01:44 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **276.07**	F **.06191**	F **5.2465**	**-.00087**	**-.00001**	**-.00044**	**-.00018**
Stddev	27.49	.04341	8.4093	.00027	.00030	.00066	.00041
%RSD	9.9579	70.115	160.28	30.389	2688.8	148.90	229.36
#1	296.02	.05887	8.3822	-.00118	.00032	-.00069	.00029
#2	287.49	.02010	-4.2801	-.00068	-.00026	.00031	-.00046
#3	244.71	.10676	11.637	-.00077	-.00009	-.00095	-.00037
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00109**	**.00143**	**.00001**	**.00133**	**.00005**
Stddev	.00002	.00029	.00066	.00010	.00020	.00003
%RSD	13.280	26.758	46.038	718.73	15.144	55.485
#1	-.00012	.00135	.00129	.00012	.00145	.00008
#2	-.00015	.00115	.00086	-.00006	.00144	.00004
#3	-.00015	.00078	.00216	-.00002	.00110	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48776.**	**44170.**
Stddev	100.	285.
%RSD	.20512	.64414
#1	48672.	44457.
#2	48786.	44165.
#3	48871.	43888.

Approved: March 30, 2011

Sample Name: L1103049924 Acquired: 3/29/2011 22:05:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00991**	**231.57**	**.14846**	**.14984**	**2.6381**	**.01504**	**99.653**
Stddev	.00042	2.07	.00167	.00105	.0123	.00005	.451
%RSD	4.2104	.89575	1.1254	.70145	.46424	.31547	.45281
#1	.00949	230.05	.15032	.14885	2.6308	.01508	99.285
#2	.01033	230.73	.14799	.14971	2.6313	.01499	99.518
#3	.00991	233.93	.14708	.15094	2.6523	.01505	100.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17724**	**.13658**	**.25901**	**.91081**	**230.75**	**44.300**	**.17953**
Stddev	.00040	.00076	.00165	.00117	1.29	.151	.00028
%RSD	.22730	.55345	.63823	.12876	.56114	.34181	.15591
#1	.17694	.13745	.26092	.90972	229.51	44.203	.17927
#2	.17708	.13623	.25795	.91066	230.64	44.222	.17950
#3	.17770	.13607	.25817	.91205	232.09	44.474	.17982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.942**	**5.8548**	**.00826**	**2.8789**	**.23792**	**13.613**	**2.1861**
Stddev	.270	.0421	.00027	.0050	.00198	.004	.0058
%RSD	.65920	.71852	3.2609	.17304	.83266	.02946	.26404
#1	40.633	5.8157	.00823	2.8732	.23994	13.611	2.1811
#2	41.134	5.8495	.00854	2.8813	.23784	13.618	2.1924
#3	41.057	5.8993	.00801	2.8822	.23598	13.612	2.1847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049924 Acquired: 3/29/2011 22:05:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-4.2847**	F **249.19**	F **-43336.**	**.03130**	**.00933**	**2.0650**	**.08790**
Stddev	40.970	.30	28.	.00267	.00169	.0026	.00011
%RSD	956.20	.12016	.06539	8.5289	18.082	.12345	.12431
#1	13.986	249.21	-43367.	.03420	.00863	2.0669	.08797
#2	-51.211	248.89	-43328.	.02896	.00811	2.0659	.08778
#3	24.372	249.48	-43312.	.03073	.01125	2.0621	.08796
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.64357**	**.31291**	**.00631**	**.40861**	**15.926**	**.11110**
Stddev	.00111	.00124	.00098	.00151	.044	.00002
%RSD	.17170	.39626	15.465	.36932	.27854	.01821
#1	.64271	.31213	.00609	.40821	15.888	.11111
#2	.64319	.31434	.00546	.40734	15.916	.11112
#3	.64482	.31226	.00738	.41028	15.975	.11108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46703.**	**46560.**
Stddev	42.	33.
%RSD	.09024	.07178
#1	46658.	46598.
#2	46709.	46535.
#3	46741.	46548.

Approved: March 30, 2011

Sample Name: L1103049925 Acquired: 3/29/2011 22:09:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01262**	**422.08**	**.14551**	**.26258**	**2.5945**	**.01819**	**171.83**
Stddev	.00134	1.58	.00090	.00108	.0039	.00002	.59
%RSD	10.645	.37396	.62057	.41316	.15157	.12763	.34408
#1	.01121	423.84	.14489	.26254	2.5905	.01817	171.32
#2	.01388	421.62	.14654	.26152	2.5947	.01821	171.69
#3	.01276	420.78	.14509	.26368	2.5984	.01820	172.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06768**	**.15889**	**.40281**	**.60659**	**295.59**	**67.688**	**.28649**
Stddev	.00022	.00049	.00100	.00219	1.22	.241	.00193
%RSD	.32602	.30870	.24856	.36151	.41278	.35547	.67360
#1	.06787	.15878	.40214	.60715	294.91	67.525	.28560
#2	.06773	.15943	.40396	.60846	294.86	67.573	.28516
#3	.06744	.15847	.40232	.60418	297.00	67.964	.28870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**59.550**	**6.4947**	**.00855**	**1.4126**	**.29090**	**8.6610**	**.76730**
Stddev	.367	.0401	.00008	.0090	.00191	.0263	.00184
%RSD	.61580	.61810	.97851	.63410	.65789	.30416	.23997
#1	59.336	6.4716	.00864	1.4043	.29121	8.6842	.76647
#2	59.341	6.4715	.00852	1.4115	.29265	8.6664	.76941
#3	59.974	6.5411	.00848	1.4221	.28886	8.6323	.76601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049925 Acquired: 3/29/2011 22:09:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-59.477**	F **379.80**	F **-59722.**	**.01328**	**.01111**	**2.1139**	**.03559**
Stddev	44.478	1.12	64.	.00237	.00238	.0040	.00037
%RSD	74.781	.29526	.10725	17.811	21.468	.18733	1.0476
#1	-101.97	379.73	-59701.	.01113	.00840	2.1183	.03550
#2	-13.252	380.95	-59794.	.01581	.01289	2.1105	.03527
#3	-63.207	378.71	-59671.	.01290	.01203	2.1130	.03600
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.79630**	**.97854**	**.01565**	**.72130**	**8.1155**	**.24240**
Stddev	.00155	.00114	.00354	.00244	.0353	.00061
%RSD	.19500	.11658	22.611	.33870	.43540	.25255
#1	.79476	.97967	.01488	.72163	8.0919	.24271
#2	.79629	.97739	.01952	.72356	8.1562	.24279
#3	.79786	.97856	.01257	.71871	8.0985	.24169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46719.**	**47812.**
Stddev	133.	264.
%RSD	.28423	.55216
#1	46630.	47812.
#2	46655.	48077.
#3	46871.	47549.

Approved: March 30, 2011

Sample Name: L1103049926 Acquired: 3/29/2011 22:12:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01062**	**323.90**	**.13638**	**.20464**	**2.1647**	**.01610**	**72.962**
Stddev	.00077	2.90	.00189	.00044	.0071	.00014	.463
%RSD	7.2168	.89607	1.3882	.21676	.32593	.85843	.63499
#1	.01120	324.16	.13739	.20502	2.1657	.01619	73.414
#2	.01091	320.88	.13755	.20475	2.1712	.01594	72.984
#3	.00975	326.67	.13419	.20416	2.1572	.01616	72.488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06785**	**.15582**	**.33079**	**.50817**	**257.25**	**51.295**	**.22275**
Stddev	.00067	.00111	.00211	.00419	.95	.321	.00121
%RSD	.98591	.71103	.63924	.82414	.36888	.62502	.54146
#1	.06856	.15702	.33232	.51200	258.09	51.622	.22259
#2	.06724	.15483	.32838	.50370	257.44	51.282	.22403
#3	.06777	.15562	.33167	.50882	256.22	50.982	.22164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**45.141**	**6.0574**	**.00691**	**1.1249**	**.24192**	**5.6500**	**.77059**
Stddev	.263	.0487	.00008	.0173	.00094	.0181	.00260
%RSD	.58236	.80421	1.1014	1.5353	.39010	.32118	.33741
#1	45.438	6.1065	.00685	1.1430	.24298	5.6709	.77348
#2	45.047	6.0566	.00699	1.1230	.24117	5.6395	.76846
#3	44.938	6.0091	.00688	1.1086	.24161	5.6395	.76982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049926 Acquired: 3/29/2011 22:12:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-48.289**	F **172.07**	F **-28522.**	**.01304**	**.00948**	**1.7877**	**.03716**
Stddev	29.059	1.29	89.	.00200	.00099	.0175	.00083
%RSD	60.177	.74753	.31293	15.344	10.482	.98057	2.2211
#1	-24.893	173.49	-28624.	.01341	.00840	1.8031	.03776
#2	-80.818	170.98	-28483.	.01482	.01036	1.7686	.03622
#3	-39.157	171.75	-28460.	.01087	.00967	1.7915	.03750
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48858**	**.73815**	**.01310**	**.62104**	**7.2499**	**.20911**
Stddev	.00262	.00130	.00202	.00343	.0203	.00039
%RSD	.53683	.17626	15.395	.55258	.27987	.18749
#1	.49145	.73957	.01299	.62440	7.2697	.20928
#2	.48800	.73701	.01517	.61754	7.2291	.20939
#3	.48630	.73787	.01114	.62118	7.2510	.20866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48343.**	**48147.**
Stddev	227.	725.
%RSD	.46868	1.5067
#1	48082.	47330.
#2	48490.	48395.
#3	48457.	48716.

Approved: March 30, 2011

Sample Name: L1103049927 Acquired: 3/29/2011 22:16:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00958**	**335.85**	**.14179**	**.20277**	**2.7304**	**.01693**	**90.488**
Stddev	.00051	4.51	.00217	.00200	.0072	.00011	.292
%RSD	5.2896	1.3417	1.5291	.98633	.26336	.62997	.32262
#1	.00953	333.64	.13935	.20123	2.7221	.01687	90.241
#2	.00910	332.88	.14249	.20205	2.7341	.01687	90.411
#3	.01011	341.04	.14351	.20503	2.7349	.01706	90.810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08777**	**.16940**	**.33592**	**.66051**	**257.50**	**60.223**	**.22103**
Stddev	.00102	.00236	.00193	.01040	1.01	.182	.00058
%RSD	1.1624	1.3955	.57423	1.5740	.39237	.30222	.26034
#1	.08734	.16809	.33617	.65383	256.47	60.061	.22072
#2	.08704	.16799	.33387	.65522	257.55	60.190	.22069
#3	.08894	.17213	.33770	.67249	258.49	60.420	.22170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**47.941**	**6.5134**	**.00872**	**1.1426**	**.25207**	**9.7186**	**1.1213**
Stddev	.156	.0393	.00026	.0092	.00344	.1297	.0154
%RSD	.32454	.60275	2.9450	.80778	1.3654	1.3349	1.3685
#1	47.843	6.4804	.00863	1.1444	.25072	9.6470	1.1167
#2	47.860	6.5029	.00852	1.1326	.24952	9.6404	1.1088
#3	48.121	6.5568	.00901	1.1508	.25599	9.8684	1.1384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049927 Acquired: 3/29/2011 22:16:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-9.0296**	F **294.39**	F **-59451.**	**.01242**	**.00819**	**2.0925**	**.04036**
Stddev	19.148	4.45	770.	.00156	.00124	.0300	.00034
%RSD	212.06	1.5123	1.2953	12.527	15.100	1.4349	.85105
#1	-12.882	291.24	-59013.	.01326	.00957	2.0810	.04006
#2	-25.958	292.45	-59000.	.01336	.00717	2.0698	.04028
#3	11.752	299.48	-60340.	.01062	.00783	2.1265	.04073
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.55074**	**.52549**	**.00919**	**.59599**	**9.3509**	**.16836**
Stddev	.00151	.00109	.00164	.00511	.1369	.00169
%RSD	.27332	.20816	17.815	.85821	1.4635	1.0027
#1	.55110	.52433	.00949	.59446	9.2843	.16768
#2	.54909	.52650	.01066	.59182	9.2601	.16712
#3	.55203	.52566	.00742	.60170	9.5083	.17028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47595.**	**47656.**
Stddev	417.	107.
%RSD	.87513	.22520
#1	47760.	47628.
#2	47905.	47774.
#3	47122.	47565.

Approved: March 30, 2011

Sample Name: L1103049928 Acquired: 3/29/2011 22:19:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00611**	**256.32**	**.14011**	**.14757**	**2.4595**	**.01652**	**67.099**
Stddev	.00053	.43	.00169	.00097	.0111	.00003	.318
%RSD	8.7439	.16724	1.2030	.65499	.45263	.20508	.47335
#1	.00665	256.00	.13880	.14741	2.4519	.01655	66.862
#2	.00558	256.15	.13953	.14670	2.4544	.01651	66.976
#3	.00610	256.81	.14201	.14861	2.4723	.01648	67.460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07782**	**.15454**	**.26946**	**.55161**	**226.62**	**44.987**	**.18457**
Stddev	.00024	.00036	.00031	.00185	1.26	.169	.00110
%RSD	.31094	.23364	.11378	.33547	.55758	.37499	.59419
#1	.07778	.15419	.26961	.55264	225.24	44.869	.18399
#2	.07808	.15491	.26911	.54948	226.91	44.911	.18583
#3	.07760	.15454	.26966	.55272	227.72	45.180	.18388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.387**	**6.0975**	**.00840**	**.93014**	**.24166**	**6.3448**	**.83812**
Stddev	.276	.0399	.00021	.00714	.00131	.0105	.00390
%RSD	.68409	.65378	2.5053	.76807	.54397	.16481	.46515
#1	40.068	6.0609	.00853	.93031	.24236	6.3492	.84051
#2	40.554	6.0916	.00852	.92291	.24248	6.3329	.84023
#3	40.539	6.1400	.00816	.93720	.24014	6.3524	.83362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049928 Acquired: 3/29/2011 22:19:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-28.414**	F **150.61**	F **-24572.**	**.01363**	**.00626**	**1.4401**	**.03115**
Stddev	57.382	.50	87.	.00200	.00332	.0076	.00066
%RSD	201.95	.33158	.35414	14.673	53.065	.52481	2.1201
#1	-3.0745	150.65	-24555.	.01138	.00251	1.4488	.03081
#2	-94.104	150.09	-24666.	.01522	.00743	1.4356	.03072
#3	11.937	151.09	-24495.	.01428	.00883	1.4358	.03191
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48512**	**.22300**	**.00837**	**.51301**	**8.1421**	**.16833**
Stddev	.00151	.00174	.00119	.00009	.0123	.00120
%RSD	.31063	.77896	14.204	.01765	.15082	.71411
#1	.48434	.22169	.00705	.51291	8.1410	.16753
#2	.48415	.22236	.00871	.51306	8.1304	.16774
#3	.48685	.22497	.00935	.51306	8.1549	.16971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48532.**	**48718.**
Stddev	94.	122.
%RSD	.19437	.25121
#1	48423.	48779.
#2	48585.	48577.
#3	48588.	48798.

Approved: March 30, 2011

Sample Name: L1103049929 Acquired: 3/29/2011 22:23:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00541**	**256.27**	**.11597**	**.13977**	**2.1263**	**.01561**	**80.954**
Stddev	.00013	1.05	.00061	.00046	.0088	.00003	.459
%RSD	2.3224	.41033	.53027	.33192	.41480	.16918	.56751
#1	.00552	255.17	.11628	.14029	2.1346	.01558	81.414
#2	.00528	257.27	.11526	.13961	2.1170	.01563	80.496
#3	.00544	256.37	.11637	.13940	2.1273	.01563	80.953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06215**	**.13302**	**.26402**	**.57260**	**211.46**	**53.109**	**.17313**
Stddev	.00035	.00061	.00079	.00180	.59	.196	.00079
%RSD	.56758	.45704	.29819	.31441	.28028	.36976	.45670
#1	.06180	.13250	.26331	.57096	212.07	53.319	.17397
#2	.06213	.13288	.26388	.57230	210.89	52.930	.17240
#3	.06251	.13369	.26486	.57453	211.42	53.077	.17301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.689**	**4.6540**	**.00735**	**.83825**	**.20939**	**9.7982**	**.70911**
Stddev	.007	.0353	.00015	.00934	.00049	.0266	.00117
%RSD	.01880	.75912	1.9958	1.1137	.23182	.27163	.16539
#1	38.689	4.6912	.00727	.84856	.20911	9.7757	.71023
#2	38.697	4.6210	.00752	.83038	.20910	9.7913	.70921
#3	38.683	4.6497	.00726	.83580	.20995	9.8276	.70789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049929 Acquired: 3/29/2011 22:23:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-57.670**	F **243.10**	F **-47271.**	**.01037**	**.01001**	**1.9612**	**.02495**
Stddev	32.629	1.29	41.	.00061	.00138	.0038	.00002
%RSD	56.578	.52936	.08630	5.8695	13.811	.19575	.07041
#1	-74.333	241.98	-47281.	.00995	.00851	1.9571	.02496
#2	-78.603	242.81	-47306.	.01010	.01028	1.9617	.02493
#3	-20.075	244.50	-47226.	.01107	.01123	1.9647	.02496
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50057**	**.22411**	**.00726**	**.48871**	**7.6693**	**.16774**
Stddev	.00287	.00070	.00243	.00136	.0192	.00057
%RSD	.57408	.31133	33.423	.27851	.24978	.33687
#1	.50343	.22477	.00999	.48719	7.6616	.16717
#2	.49769	.22419	.00642	.48979	7.6552	.16775
#3	.50058	.22338	.00536	.48916	7.6911	.16830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47902.**	**47356.**
Stddev	7.	285.
%RSD	.01518	.60216
#1	47909.	47115.
#2	47901.	47281.
#3	47895.	47671.

Approved: March 30, 2011

Sample Name: L1103049930 Acquired: 3/29/2011 22:26:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00483**	**205.90**	**.12434**	**.11856**	**1.8838**	**.01586**	**68.221**
Stddev	.00080	1.56	.00089	.00043	.0024	.00004	.173
%RSD	16.581	.75787	.71719	.36163	.12837	.24822	.25358
#1	.00575	204.56	.12463	.11806	1.8855	.01582	68.083
#2	.00432	205.53	.12334	.11880	1.8810	.01587	68.165
#3	.00442	207.61	.12506	.11881	1.8848	.01590	68.415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06199**	**.12791**	**.22922**	**.56600**	**188.61**	**43.259**	**.14162**
Stddev	.00048	.00064	.00099	.00314	.66	.087	.00033
%RSD	.77151	.49714	.43329	.55523	.35133	.20178	.23457
#1	.06144	.12718	.22867	.56238	188.10	43.257	.14124
#2	.06232	.12835	.22864	.56798	188.37	43.173	.14174
#3	.06221	.12820	.23037	.56765	189.36	43.348	.14187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.179**	**4.7011**	**.00713**	**.78036**	**.19842**	**8.0497**	**.70444**
Stddev	.184	.0247	.00022	.00343	.00067	.0326	.00319
%RSD	.53728	.52627	3.0909	.43921	.33926	.40482	.45332
#1	34.007	4.6767	.00687	.77892	.19803	8.0123	.70120
#2	34.157	4.7004	.00726	.78427	.19803	8.0654	.70453
#3	34.372	4.7262	.00725	.77788	.19920	8.0715	.70758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049930 Acquired: 3/29/2011 22:26:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.112**	F **186.56**	F **-34876.**	**.01281**	**.00818**	**2.1600**	**.02487**
Stddev	7.093	1.53	131.	.00130	.00115	.0232	.00017
%RSD	10.413	.82213	.37562	10.132	14.045	1.0745	.67360
#1	68.869	184.81	-34769.	.01284	.00690	2.1332	.02473
#2	74.796	187.65	-34836.	.01149	.00911	2.1728	.02481
#3	60.671	187.23	-35022.	.01409	.00855	2.1740	.02505
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47447**	**.16261**	**.00834**	**.47868**	**8.0361**	**.13422**
Stddev	.00069	.00161	.00190	.00203	.0240	.00046
%RSD	.14637	.99048	22.836	.42406	.29912	.33936
#1	.47368	.16100	.01042	.47635	8.0097	.13374
#2	.47498	.16422	.00669	.47999	8.0566	.13465
#3	.47475	.16260	.00789	.47971	8.0420	.13426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48395.**	**47167.**
Stddev	132.	239.
%RSD	.27301	.50577
#1	48543.	47294.
#2	48291.	47315.
#3	48349.	46892.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 22:30:14 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43704**	**10.321**	**.42946**	**.52433**	**1.0173**	**.05310**	**9.7101**
Stddev	.00161	.004	.00172	.00122	.0027	.00011	.0079
%RSD	.36789	.03428	.39986	.23199	.26071	.20086	.08122
#1	.43710	10.317	.43141	.52459	1.0202	.05321	9.7187
#2	.43540	10.323	.42819	.52539	1.0166	.05309	9.7032
#3	.43861	10.324	.42878	.52300	1.0150	.05300	9.7085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05350**	**.21548**	**.52931**	**.54088**	**3.7672**	**51.445**	**1.0363**
Stddev	.00016	.00038	.00110	.00077	.0111	.124	.0035
%RSD	.30154	.17778	.20831	.14249	.29520	.24174	.33546
#1	.05358	.21583	.53052	.54161	3.7781	51.553	1.0402
#2	.05360	.21553	.52836	.54095	3.7676	51.474	1.0352
#3	.05331	.21507	.52906	.54007	3.7558	51.309	1.0334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3361**	**.45223**	**.99833**	**50.424**	**.52349**	F **-.00218**	**.52518**
Stddev	.0419	.00089	.00128	.071	.00077	.00093	.00239
%RSD	.44906	.19668	.12784	.14058	.14754	42.726	.45571
#1	9.3213	.45323	.99960	50.504	.52404	-.00323	.52669
#2	9.3835	.45192	.99836	50.368	.52381	-.00184	.52644
#3	9.3037	.45153	.99705	50.401	.52260	-.00146	.52242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 22:30:14 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **219.37**	**10.486**	F **23.318**	**1.3017**	**.40995**	F **.00363**	**1.0567**
Stddev	18.47	.028	6.590	.0036	.00115	.00066	.0014
%RSD	8.4189	.27079	28.263	.27939	.27970	18.037	.12866
#1	240.47	10.484	30.882	1.3059	.40866	.00437	1.0583
#2	206.12	10.458	18.810	1.2993	.41087	.00339	1.0559
#3	211.53	10.515	20.262	1.2999	.41030	.00313	1.0560
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97683**	**.98695**	**.53811**	**1.0576**	**1.0078**	F **.00071**
Stddev	.00127	.00138	.00517	.0031	.0029	.00011
%RSD	.12956	.14002	.96101	.28860	.28675	15.426
#1	.97826	.98788	.54386	1.0590	1.0111	.00066
#2	.97585	.98536	.53384	1.0541	1.0063	.00063
#3	.97638	.98762	.53664	1.0596	1.0060	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48963.**	**44519.**
Stddev	100.	207.
%RSD	.20351	.46563
#1	48854.	44507.
#2	48987.	44318.
#3	49049.	44732.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 22:33:39 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.01731**	**.00030**	**.00174**	**-.00070**	**-.00001**	**.00212**
Stddev	.00038	.00099	.00168	.00058	.00005	.00002	.00381
%RSD	340.73	5.7121	554.67	33.162	6.9974	121.56	180.10
#1	-.00027	.01762	.00069	.00120	-.00075	-.00003	.00323
#2	.00013	.01811	.00176	.00235	-.00067	-.00002	-.00213
#3	.00048	.01621	-.00154	.00167	-.00067	.00001	.00524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00019**	**-.00045**	**-.00043**	**-.00284**	**.32278**	**-.01106**
Stddev	.00003	.00007	.00011	.00012	.00136	.01802	.00083
%RSD	34.045	39.764	23.416	27.447	47.941	5.5839	7.5359
#1	-.00006	-.00021	-.00035	-.00034	-.00426	.31378	-.01197
#2	-.00012	-.00011	-.00056	-.00038	-.00154	.34353	-.01085
#3	-.00009	-.00025	-.00045	-.00056	-.00273	.31103	-.01034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00444**	**-.00005**	**.00003**	**.01804**	**.00052**	**-.00036**	**-.00031**
Stddev	.00235	.00015	.00006	.00201	.00044	.00144	.00106
%RSD	52.971	317.01	178.64	11.165	84.317	400.88	343.00
#1	-.00505	-.00021	.00006	.01595	.00017	.00126	-.00136
#2	-.00185	.00009	.00007	.01997	.00037	-.00084	.00075
#3	-.00644	-.00002	-.00003	.01821	.00101	-.00150	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 22:33:39 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **217.11**	F **-.01016**	F **16.094**	**-.00036**	**.00149**	**-.00078**	**-.00029**
Stddev	37.29	.03822	5.891	.00071	.00093	.00029	.00012
%RSD	17.175	376.34	36.607	199.33	61.901	37.190	42.841
#1	185.56	.03300	22.896	.00009	.00049	-.00078	-.00015
#2	258.26	-.03976	12.679	.00002	.00232	-.00049	-.00034
#3	207.50	-.02371	12.705	-.00118	.00168	-.00107	-.00039
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00011**	**.00137**	**-.00015**	**.00174**	**.00007**
Stddev	.00004	.00044	.00140	.00004	.00021	.00007
%RSD	33.515	414.80	101.73	25.744	12.389	108.40
#1	-.00008	-.00040	.00111	-.00011	.00154	-.00001
#2	-.00012	.00039	.00288	-.00016	.00170	.00013
#3	-.00016	.00032	.00013	-.00018	.00196	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49286.**	**44755.**
Stddev	131.	287.
%RSD	.26663	.64194
#1	49218.	44762.
#2	49204.	44465.
#3	49438.	45039.

Approved: March 30, 2011

Sample Name: PBS AH Acquired: 3/29/2011 22:37:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.01965**	**-.00348**	**.00039**	**-.00028**	**-.00001**	**.01989**
Stddev	.00054	.00127	.00158	.00041	.00002	.00001	.00493
%RSD	7438.5	6.4677	45.573	105.49	8.2072	87.452	24.789
#1	-.00058	.02091	-.00167	-.00006	-.00029	.00000	.01420
#2	.00006	.01967	-.00464	.00049	-.00029	-.00002	.02260
#3	.00050	.01837	-.00412	.00075	-.00025	-.00001	.02287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00040**	**.00002**	**.00001**	**.00485**	**.34803**	**-.01189**
Stddev	.00003	.00003	.00032	.00047	.00284	.01405	.00094
%RSD	10.270	8.4923	1595.7	3373.1	58.401	4.0358	7.9064
#1	.00024	-.00044	-.00017	-.00018	.00679	.35636	-.01264
#2	.00029	-.00037	.00039	.00055	.00618	.35590	-.01219
#3	.00028	-.00039	-.00016	-.00033	.00160	.33181	-.01084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00900**	**-.00026**	**.00014**	**.03217**	**.00119**	F **-.01700**	**.00079**
Stddev	.01281	.00032	.00007	.00919	.00039	.00104	.00011
%RSD	142.21	124.55	48.553	28.568	32.446	6.1174	14.132
#1	-.01512	-.00034	.00020	.04011	.00148	-.01667	.00076
#2	-.01760	.00010	.00016	.02210	.00135	-.01616	.00070
#3	.00571	-.00053	.00006	.03429	.00075	-.01816	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: PBS AH Acquired: 3/29/2011 22:37:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **150.74**	**1.5412**	F **-432.41**	**.00105**	**.00352**	**.00795**	**.00004**
Stddev	12.77	.0616	3.65	.00038	.00161	.00082	.00029
%RSD	8.4732	3.9989	.84400	36.476	45.582	10.342	646.44
#1	154.25	1.6069	-432.10	.00102	.00368	.00730	.00015
#2	161.39	1.4847	-428.92	.00069	.00504	.00887	.00026
#3	136.58	1.5319	-436.20	.00145	.00184	.00768	-.00028
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00098**	**-.00118**	**-.00014**	**.00032**	**.00007**
Stddev	.00002	.00027	.00002	.00029	.00022	.00012
%RSD	21.718	27.325	1.8791	207.08	68.919	170.17
#1	-.00013	.00087	-.00120	.00008	.00042	-.00002
#2	-.00010	.00078	-.00119	-.00003	.00007	.00021
#3	-.00009	.00129	-.00116	-.00047	.00046	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47716.**	**44362.**
Stddev	152.	524.
%RSD	.31876	1.1808
#1	47570.	44026.
#2	47704.	44094.
#3	47873.	44966.

Approved: March 30, 2011

Sample Name: LCSS AH Acquired: 3/29/2011 22:41:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20464**	**.01594**	**.20624**	**.00079**	**.00006**	**-.00001**	**.02354**
Stddev	.00123	.00091	.00116	.00008	.00011	.00000	.00358
%RSD	.60147	5.7110	.56053	10.672	174.60	50.723	15.205
#1	.20322	.01490	.20490	.00086	.00019	.00000	.02734
#2	.20530	.01635	.20687	.00082	-.00001	-.00001	.02304
#3	.20540	.01658	.20694	.00070	.00000	.00000	.02024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02636**	**-.00045**	**.00016**	**.27163**	**.01115**	**.28510**	**-.01168**
Stddev	.00008	.00025	.00025	.00059	.00242	.01191	.00066
%RSD	.30791	56.111	162.53	.21547	21.724	4.1785	5.6894
#1	.02635	-.00071	.00043	.27117	.00944	.27286	-.01242
#2	.02628	-.00021	.00010	.27144	.01392	.28578	-.01113
#3	.02644	-.00042	-.00007	.27229	.01009	.29666	-.01148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00339**	**.23083**	**.00027**	**.03246**	**.00167**	F **-.01789**	**.26191**
Stddev	.00880	.00257	.00010	.00521	.00035	.00243	.00179
%RSD	259.68	1.1136	37.648	16.060	20.782	13.577	.68454
#1	.00012	.22788	.00030	.03349	.00130	-.02060	.25992
#2	-.00331	.23205	.00035	.02681	.00199	-.01716	.26239
#3	.01335	.23256	.00016	.03708	.00172	-.01591	.26341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: LCSS AH Acquired: 3/29/2011 22:41:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **156.67**	**.16754**	F **-13.275**	**.00142**	**.00238**	**.01210**	**-.00023**
Stddev	44.40	.02948	4.528	.00122	.00161	.00077	.00005
%RSD	28.341	17.594	34.107	86.171	67.639	6.3881	19.312
#1	188.77	.16126	-12.173	.00046	.00143	.01190	-.00028
#2	175.25	.19965	-18.253	.00100	.00424	.01296	-.00022
#3	106.00	.14171	-9.4007	.00280	.00147	.01146	-.00019
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00132**	**-.00153**	**-.00002**	**.00512**	**.00007**
Stddev	.00006	.00077	.00159	.00022	.00381	.00010
%RSD	68.015	58.166	104.02	1087.7	74.427	150.35
#1	-.00015	.00100	-.00107	.00023	.00163	.00017
#2	-.00009	.00077	-.00330	-.00010	.00918	.00006
#3	-.00003	.00220	-.00022	-.00019	.00454	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47659.**	**44646.**
Stddev	112.	175.
%RSD	.23441	.39181
#1	47548.	44676.
#2	47659.	44804.
#3	47771.	44458.

Approved: March 30, 2011

Sample Name: L1103049835 Acquired: 3/29/2011 22:44:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01313**	**80.386**	**.08090**	**.08002**	**1.3803**	**.00667**	**76.394**
Stddev	.00069	.485	.00064	.00133	.0101	.00001	.518
%RSD	5.2336	.60286	.79521	1.6649	.72886	.19975	.67760
#1	.01254	80.387	.08121	.08138	1.3828	.00668	76.334
#2	.01388	80.871	.08016	.07995	1.3888	.00665	76.939
#3	.01296	79.901	.08134	.07872	1.3692	.00666	75.909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10598**	**.08215**	**.11767**	**.70578**	**96.207**	**20.729**	**.07064**
Stddev	.00017	.00032	.00052	.00139	.122	.129	.00098
%RSD	.15938	.39180	.44292	.19628	.12673	.62212	1.3932
#1	.10598	.08249	.11827	.70678	96.288	20.770	.06961
#2	.10615	.08211	.11736	.70636	96.267	20.832	.07157
#3	.10582	.08185	.11737	.70420	96.067	20.584	.07074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.482**	**4.8361**	**.00591**	**.64718**	**.11114**	**12.142**	**1.1729**
Stddev	.170	.0190	.00014	.00286	.00021	.038	.0026
%RSD	.69355	.39269	2.3194	.44196	.18709	.31540	.22466
#1	24.515	4.8289	.00577	.64418	.11120	12.184	1.1699
#2	24.298	4.8577	.00592	.64750	.11131	12.132	1.1741
#3	24.633	4.8218	.00605	.64987	.11090	12.109	1.1748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049835 Acquired: 3/29/2011 22:44:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **32.768**	F **227.80**	F **-44287.**	**.01146**	**.01064**	**1.8814**	**.02740**
Stddev	109.20	.75	184.	.00083	.00336	.0061	.00025
%RSD	333.24	.32937	.41590	7.2611	31.602	.32609	.90077
#1	89.903	228.11	-44428.	.01060	.01381	1.8806	.02766
#2	-93.142	228.34	-44355.	.01150	.00711	1.8878	.02735
#3	101.54	226.94	-44078.	.01227	.01101	1.8756	.02718
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29812**	**.20933**	**.00114**	**.18890**	**11.944**	**.05086**
Stddev	.00218	.00106	.00114	.00055	.028	.00027
%RSD	.72987	.50727	100.31	.29058	.23470	.53390
#1	.29761	.20901	.00231	.18944	11.976	.05114
#2	.30051	.21051	.00002	.18834	11.930	.05083
#3	.29625	.20846	.00109	.18891	11.925	.05060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47818.**	**46831.**
Stddev	139.	230.
%RSD	.29127	.49128
#1	47668.	46654.
#2	47842.	47091.
#3	47944.	46747.

Approved: March 30, 2011

Sample Name: L1103049835PS Acquired: 3/29/2011 22:48:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360284-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23037**	**76.625**	**.27904**	**1.0861**	**1.7321**	**.03237**	**72.597**
Stddev	.00091	.971	.00104	.0058	.0029	.00010	.054
%RSD	.39707	1.2676	.37386	.53260	.16704	.32347	.07432
#1	.23137	77.541	.27971	1.0921	1.7348	.03248	72.631
#2	.22957	76.728	.27956	1.0859	1.7326	.03235	72.626
#3	.23018	75.606	.27783	1.0805	1.7290	.03228	72.535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12111**	**.17760**	**.36649**	**.88942**	**87.220**	**43.426**	**.59002**
Stddev	.00076	.00122	.00017	.00646	.332	.102	.00236
%RSD	.62957	.68881	.04511	.72598	.38106	.23395	.39925
#1	.12149	.17818	.36667	.89265	86.847	43.310	.59268
#2	.12160	.17843	.36644	.89362	87.486	43.474	.58820
#3	.12023	.17620	.36636	.88198	87.326	43.495	.58917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.180**	**4.4963**	**.51980**	**26.130**	**.35325**	**10.964**	**1.2881**
Stddev	.183	.0177	.00007	.042	.00182	.064	.0035
%RSD	.69829	.39369	.01345	.16226	.51393	.58363	.27454
#1	25.971	4.4780	.51972	26.091	.35411	10.997	1.2909
#2	26.309	4.5133	.51983	26.175	.35448	11.004	1.2893
#3	26.260	4.4976	.51985	26.123	.35117	10.890	1.2841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049835PS Acquired: 3/29/2011 22:48:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360284-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.3391**	F **210.47**	F **-39884.**	**.62892**	**.21034**	**4.3009**	**.02526**
Stddev	15.173	2.25	97.	.00371	.00255	.0227	.00029
%RSD	284.19	1.0709	.24344	.58928	1.2131	.52827	1.1570
#1	-9.6482	211.70	-39972.	.63028	.20880	4.3203	.02560
#2	20.691	211.84	-39901.	.63176	.21329	4.3064	.02509
#3	4.9744	207.87	-39780.	.62473	.20894	4.2759	.02509
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.75333**	**.66704**	**.25242**	**.70845**	**11.316**	**.04437**
Stddev	.00125	.00118	.00162	.00252	.046	.00032
%RSD	.16612	.17750	.64162	.35582	.41014	.72145
#1	.75477	.66576	.25222	.71126	11.351	.04473
#2	.75276	.66811	.25413	.70638	11.334	.04429
#3	.75247	.66724	.25090	.70772	11.264	.04411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48008.**	**46751.**
Stddev	210.	323.
%RSD	.43649	.69195
#1	47851.	47031.
#2	47926.	46397.
#3	48246.	46825.

Approved: March 30, 2011

Sample Name: L1103049835SDL Acquired: 3/29/2011 22:51:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360284-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00239**	**15.611**	**.01734**	**.01726**	**.26391**	**.00131**	**14.850**
Stddev	.00100	.061	.00080	.00077	.00052	.00002	.039
%RSD	41.942	.38899	4.6087	4.4855	.19553	1.5437	.26126
#1	.00153	15.541	.01807	.01801	.26437	.00130	14.882
#2	.00215	15.641	.01649	.01730	.26335	.00129	14.807
#3	.00349	15.650	.01747	.01646	.26401	.00133	14.860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02207**	**.01683**	**.02260**	**.14889**	**19.308**	**4.3682**	**.00445**
Stddev	.00018	.00004	.00041	.00078	.052	.0055	.00044
%RSD	.80057	.20796	1.8151	.52658	.27069	.12569	9.9970
#1	.02216	.01687	.02213	.14840	19.359	4.3619	.00464
#2	.02187	.01684	.02274	.14848	19.254	4.3718	.00477
#3	.02219	.01680	.02291	.14980	19.310	4.3709	.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.1113**	**.97032**	**.00104**	**.14418**	**.02335**	**2.5954**	**.24953**
Stddev	.0031	.00708	.00017	.00366	.00038	.0095	.00314
%RSD	.06006	.72983	16.778	2.5354	1.6400	.36684	1.2593
#1	5.1082	.97712	.00122	.14492	.02320	2.5947	.25041
#2	5.1112	.96299	.00102	.14021	.02379	2.5862	.24604
#3	5.1144	.97086	.00088	.14741	.02307	2.6052	.25214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049835SDL Acquired: 3/29/2011 22:51:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360284-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **138.91**	F **49.569**	F **-9414.6**	**.00158**	**.00173**	**.37750**	**.00555**
Stddev	6.63	.272	42.7	.00041	.00171	.00069	.00024
%RSD	4.7721	.54965	.45318	26.259	98.896	.18350	4.2918
#1	136.28	49.409	-9403.2	.00112	.00254	.37775	.00565
#2	146.45	49.414	-9378.9	.00168	-.00024	.37672	.00528
#3	134.00	49.884	-9461.9	.00193	.00287	.37804	.00572
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05718**	**.04153**	**.00179**	**.03696**	**2.5454**	**.00958**
Stddev	.00021	.00038	.00047	.00020	.0018	.00018
%RSD	.37161	.90585	26.226	.54058	.07072	1.8968
#1	.05741	.04191	.00231	.03680	2.5447	.00957
#2	.05698	.04116	.00164	.03689	2.5440	.00977
#3	.05716	.04151	.00141	.03718	2.5474	.00941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50856.**	**47205.**
Stddev	205.	284.
%RSD	.40272	.60157
#1	51071.	47352.
#2	50834.	47386.
#3	50663.	46878.

Approved: March 30, 2011

Sample Name: L1103049835SDL Acquired: 3/29/2011 22:55:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360284-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**2.9996**	**.00507**	**.00298**	**.05041**	**.00023**	**2.8724**
Stddev	.00053	.0095	.00092	.00053	.00008	.00002	.0098
%RSD	61.776	.31512	18.103	17.797	.16034	6.7604	.34026
#1	.00137	2.9896	.00609	.00285	.05039	.00025	2.8812
#2	.00088	3.0084	.00431	.00356	.05050	.00023	2.8619
#3	.00032	3.0007	.00481	.00252	.05035	.00022	2.8742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00434**	**.00344**	**.00373**	**.02968**	**3.7563**	**1.0638**	**-.00817**
Stddev	.00006	.00004	.00026	.00026	.0234	.0421	.00037
%RSD	1.3466	1.1856	7.0471	.87971	.62210	3.9609	4.5350
#1	.00440	.00348	.00371	.02938	3.7293	1.1091	-.00819
#2	.00431	.00343	.00347	.02981	3.7713	1.0566	-.00853
#3	.00430	.00340	.00400	.02986	3.7681	1.0257	-.00779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0017**	**.18889**	**-.00003**	**.03495**	**.00491**	**.52889**	**.04989**
Stddev	.0072	.00085	.00017	.00457	.00011	.00335	.00138
%RSD	.72235	.45054	536.24	13.083	2.2913	.63314	2.7592
#1	.99341	.18798	-.00022	.03979	.00495	.52504	.04957
#2	1.0065	.18966	.00011	.03070	.00499	.53052	.04870
#3	1.0053	.18904	.00001	.03435	.00478	.53112	.05140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049835SDL Acquired: 3/29/2011 22:55:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360284-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **182.91**	F **10.108**	F **-1907.7**	**-.00169**	**-.00119**	**.07104**	**.00065**
Stddev	42.22	.077	2.2	.00059	.00039	.00018	.00007
%RSD	23.083	.76115	.11415	34.957	32.385	.24645	11.534
#1	150.91	10.151	-1907.9	-.00225	-.00163	.07102	.00059
#2	167.05	10.155	-1909.7	-.00173	-.00089	.07087	.00063
#3	230.76	10.020	-1905.3	-.00108	-.00107	.07122	.00073
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01103**	**.00793**	**.00203**	**.00724**	**.52158**	**.00161**
Stddev	.00006	.00060	.00053	.00011	.00103	.00013
%RSD	.51506	7.5294	26.171	1.5148	.19760	7.9484
#1	.01106	.00724	.00202	.00736	.52253	.00175
#2	.01096	.00817	.00257	.00714	.52173	.00154
#3	.01107	.00836	.00151	.00722	.52048	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50743.**	**46221.**
Stddev	127.	42.
%RSD	.24992	.09034
#1	50881.	46242.
#2	50631.	46249.
#3	50719.	46173.

Approved: March 30, 2011

Sample Name: L1103049836 Acquired: 3/29/2011 22:58:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00849**	**93.502**	**.15532**	**.07598**	**1.8057**	**.01010**	**77.187**
Stddev	.00050	.809	.00023	.00105	.0057	.00007	.346
%RSD	5.8637	.86518	.15079	1.3870	.31528	.68781	.44826
#1	.00870	92.791	.15552	.07603	1.8064	.01002	77.064
#2	.00885	93.333	.15538	.07491	1.7997	.01012	76.919
#3	.00793	94.382	.15506	.07702	1.8111	.01015	77.577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09898**	**.19204**	**.13978**	**.58747**	**114.90**	**23.401**	**.07455**
Stddev	.00078	.00070	.00035	.00255	.72	.082	.00070
%RSD	.78482	.36601	.25008	.43372	.62489	.35050	.93870
#1	.09954	.19240	.14014	.58806	114.31	23.355	.07438
#2	.09809	.19124	.13944	.58468	114.69	23.353	.07531
#3	.09931	.19250	.13977	.58968	115.70	23.496	.07394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.657**	**11.059**	**.00771**	**.85415**	**.13862**	**12.440**	**1.2920**
Stddev	.215	.082	.00014	.00720	.00043	.030	.0041
%RSD	.91061	.73923	1.8631	.84290	.30924	.24434	.31891
#1	23.432	10.992	.00788	.86236	.13876	12.464	1.2966
#2	23.679	11.036	.00763	.84890	.13814	12.406	1.2886
#3	23.861	11.150	.00763	.85120	.13896	12.450	1.2909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049836 Acquired: 3/29/2011 22:58:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-9.0948**	F **177.45**	F **-29966.**	**.01280**	**.01364**	**2.1886**	**.02087**
Stddev	17.634	.92	50.	.00134	.00355	.0049	.00019
%RSD	193.89	.51872	.16677	10.457	26.034	.22232	.88938
#1	11.241	178.11	-30019.	.01259	.01282	2.1941	.02106
#2	-18.368	176.40	-29920.	.01158	.01754	2.1848	.02088
#3	-20.157	177.84	-29958.	.01423	.01058	2.1868	.02069
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37189**	**.18548**	**.00313**	**.31713**	**11.514**	**.07568**
Stddev	.00066	.00081	.00171	.00193	.015	.00008
%RSD	.17780	.43890	54.621	.60783	.13250	.10747
#1	.37207	.18522	.00143	.31492	11.525	.07562
#2	.37116	.18483	.00484	.31804	11.496	.07577
#3	.37245	.18639	.00311	.31843	11.521	.07564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48090.**	**46080.**
Stddev	136.	144.
%RSD	.28309	.31306
#1	47933.	46238.
#2	48161.	46046.
#3	48175.	45955.

Approved: March 30, 2011

Sample Name: L1103049837S Acquired: 3/29/2011 23:02:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20166**	**84.224**	**.34168**	**.06700**	**1.5194**	**.00998**	**66.894**
Stddev	.00131	.150	.00046	.00025	.0028	.00001	.122
%RSD	.65176	.17766	.13451	.37503	.18610	.14996	.18281
#1	.20265	84.363	.34220	.06684	1.5199	.00997	66.887
#2	.20216	84.066	.34131	.06686	1.5219	.00998	67.019
#3	.20017	84.243	.34154	.06729	1.5163	.01000	66.775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10312**	**.10801**	**.13163**	**.83164**	**102.74**	**21.206**	**.06110**
Stddev	.00040	.00028	.00043	.00068	.14	.046	.00054
%RSD	.39053	.26059	.32805	.08222	.13653	.21762	.88662
#1	.10265	.10769	.13151	.83103	102.86	21.178	.06161
#2	.10338	.10818	.13211	.83238	102.76	21.259	.06116
#3	.10332	.10817	.13127	.83151	102.58	21.181	.06053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.377**	**6.1785**	**.00633**	**.75524**	**.12614**	**10.122**	**1.4539**
Stddev	.024	.0153	.00009	.00501	.00075	.017	.0108
%RSD	.11275	.24718	1.3597	.66321	.59193	.16984	.74031
#1	21.401	6.1882	.00623	.75391	.12551	10.102	1.4597
#2	21.353	6.1864	.00640	.76078	.12594	10.131	1.4605
#3	21.376	6.1609	.00635	.75103	.12696	10.132	1.4415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049837S Acquired: 3/29/2011 23:02:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.4622**	F **158.97**	F **-26654.**	**.01290**	**.00900**	**2.1316**	**.01942**
Stddev	93.070	.38	56.	.00093	.00025	.0049	.00025
%RSD	1703.9	.23735	.20934	7.2082	2.7629	.23150	1.2743
#1	96.891	158.58	-26599.	.01256	.00888	2.1259	.01951
#2	-89.168	159.33	-26652.	.01396	.00884	2.1343	.01914
#3	8.6638	159.01	-26710.	.01219	.00929	2.1346	.01961
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.35300**	**.19308**	**.00358**	**.30238**	**10.338**	**.07565**
Stddev	.00068	.00131	.00134	.00106	.008	.00025
%RSD	.19299	.67786	37.532	.34985	.08065	.33407
#1	.35248	.19208	.00296	.30206	10.333	.07546
#2	.35377	.19456	.00512	.30152	10.334	.07556
#3	.35275	.19259	.00265	.30356	10.348	.07594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48224.**	**47455.**
Stddev	85.	404.
%RSD	.17654	.85173
#1	48135.	46993.
#2	48232.	47630.
#3	48304.	47743.

Approved: March 30, 2011

Sample Name: L1103049838SD Acquired: 3/29/2011 23:06:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20447**	**77.182**	**.31359**	**.06360**	**1.4439**	**.00855**	**66.928**
Stddev	.00098	.696	.00160	.00038	.0071	.00001	.244
%RSD	.47854	.90127	.50930	.60345	.49338	.15856	.36509
#1	.20560	76.803	.31198	.06351	1.4401	.00855	66.689
#2	.20393	77.985	.31518	.06328	1.4395	.00854	66.917
#3	.20388	76.759	.31362	.06403	1.4521	.00857	67.177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10156**	**.13356**	**.12772**	**.76683**	**94.722**	**18.670**	**.06597**
Stddev	.00061	.00065	.00071	.00322	.313	.063	.00067
%RSD	.60428	.48849	.55660	.41973	.33042	.33943	1.0175
#1	.10107	.13320	.12706	.76370	94.690	18.617	.06658
#2	.10225	.13431	.12847	.77013	94.426	18.652	.06608
#3	.10135	.13317	.12762	.76668	95.050	18.740	.06525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.855**	**7.3394**	**.00601**	**.68464**	**.12430**	**9.0981**	**1.3718**
Stddev	.044	.0221	.00005	.00341	.00057	.0286	.0020
%RSD	.18255	.30043	.84523	.49750	.45489	.31477	.14750
#1	23.867	7.3363	.00596	.68661	.12367	9.0746	1.3704
#2	23.807	7.3191	.00606	.68070	.12448	9.1300	1.3708
#3	23.891	7.3629	.00603	.68660	.12476	9.0898	1.3741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049838SD Acquired: 3/29/2011 23:06:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **37.996**	F **149.05**	F **-23400.**	**.01333**	**.00844**	**2.3659**	**.02018**
Stddev	35.212	.76	32.	.00238	.00155	.0204	.00006
%RSD	92.674	.51106	.13684	17.837	18.306	.86103	.32044
#1	57.270	148.50	-23397.	.01568	.00791	2.3554	.02011
#2	-2.6459	149.92	-23370.	.01338	.00723	2.3894	.02021
#3	59.362	148.73	-23433.	.01093	.01018	2.3530	.02022
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28931**	**.18516**	**.00324**	**.26416**	**9.5916**	**.06484**
Stddev	.00090	.00020	.00026	.00051	.0204	.00024
%RSD	.31008	.10598	7.9688	.19256	.21287	.36318
#1	.28828	.18507	.00308	.26362	9.5836	.06459
#2	.28969	.18503	.00354	.26463	9.6149	.06506
#3	.28995	.18539	.00309	.26422	9.5765	.06487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47783.**	**47630.**
Stddev	118.	193.
%RSD	.24684	.40606
#1	47880.	47409.
#2	47652.	47708.
#3	47818.	47772.

Approved: March 30, 2011

Sample Name: L1103049839 Acquired: 3/29/2011 23:09:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04700**	**60.787**	**.26493**	**.13186**	**.95620**	**.00480**	F **2295.5**
Stddev	.00019	.040	.00235	.00109	.00489	.00002	42.8
%RSD	.40875	.06602	.88783	.82852	.51155	.40716	1.8640
#1	.04709	60.833	.26256	.13312	.96020	.00480	2324.2
#2	.04712	60.763	.26497	.13130	.95074	.00478	2246.3
#3	.04677	60.763	.26727	.13117	.95765	.00481	2315.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19639**	**.08471**	**.10858**	**2.8667**	**219.77**	**11.109**	**.16865**
Stddev	.00043	.00016	.00090	.0083	.96	.060	.00011
%RSD	.22103	.18800	.83274	.29124	.43622	.53937	.06738
#1	.19621	.08474	.10801	2.8608	220.50	11.176	.16878
#2	.19688	.08486	.10811	2.8762	218.68	11.060	.16858
#3	.19606	.08454	.10962	2.8630	220.13	11.091	.16858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**209.67**	**12.785**	**.01210**	**1.8286**	**.12204**	**5.4782**	**2.9012**
Stddev	.55	.096	.00047	.0116	.00091	.0359	.0055
%RSD	.26113	.75323	3.8956	.63671	.74538	.65571	.18816
#1	210.12	12.857	.01159	1.8277	.12105	5.5103	2.8982
#2	209.06	12.676	.01217	1.8175	.12285	5.4394	2.9075
#3	209.82	12.823	.01252	1.8407	.12221	5.4848	2.8979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049839 Acquired: 3/29/2011 23:09:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **92.476**	F **2668.5**	F **-79863.**	**.09488**	**.01680**	**2.7828**	**.05681**
Stddev	31.811	8.1	209.	.00027	.00352	.0242	.00015
%RSD	34.399	.30341	.26119	.28437	20.952	.86927	.26938
#1	76.688	2663.0	-80098.	.09457	.01324	2.8003	.05672
#2	71.648	2677.8	-79793.	.09500	.01688	2.7931	.05699
#3	129.09	2664.7	-79699.	.09507	.02028	2.7552	.05672
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.6917**	**.19835**	**-.00037**	**.19643**	**37.130**	**.04500**
Stddev	.0490	.00061	.00188	.00092	.209	.00037
%RSD	1.0440	.30538	507.29	.47069	.56169	.81911
#1	4.7473	.19801	-.00170	.19629	37.236	.04491
#2	4.6729	.19905	-.00120	.19559	37.265	.04469
#3	4.6550	.19799	.00178	.19742	36.890	.04541
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**41723.**	**44401.**
Stddev	77.	373.
%RSD	.18539	.83897
#1	41643.	43977.
#2	41729.	44677.
#3	41797.	44549.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 23:13:37 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .44300	10.433	.43636	.53152	.99637	.05367	9.5586
Stddev	.00417	.228	.00837	.00873	.00130	.00061	.0239
%RSD	.94077	2.1875	1.9188	1.6423	.13060	1.1429	.25058
#1	.44781	10.694	.44595	.54157	.99556	.05437	9.5750
#2	.44047	10.270	.43054	.52716	.99569	.05324	9.5696
#3	.44071	10.336	.43258	.52583	.99787	.05340	9.5311
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05466	F .22022	.53470	F .55243	3.7093	50.490	1.0156
Stddev	.00117	.00423	.00810	.01051	.0045	.067	.0008
%RSD	2.1487	1.9186	1.5150	1.9031	.11997	.13329	.07845
#1	.05601	.22499	.54383	.56453	3.7044	50.489	1.0146
#2	.05393	.21693	.52836	.54550	3.7132	50.558	1.0160
#3	.05404	.21876	.53192	.54726	3.7102	50.423	1.0160
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.20000		.50000			
Range		10.000%		10.000%			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.2425	F .44297	1.0128	49.630	.53424	F -.00348	.54067
Stddev	.0267	.00145	.0240	.233	.01164	.00353	.01112
%RSD	.28925	.32741	2.3738	.47047	2.1792	101.33	2.0572
#1	9.2723	.44249	1.0405	49.763	.54766	.00028	.55348
#2	9.2207	.44461	.99861	49.766	.52682	-.00401	.53498
#3	9.2344	.44183	.99915	49.360	.52824	-.00672	.53354
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 23:13:37 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **198.40**	**10.832**	F **31.667**	F **1.3367**	**.41857**	F **.00657**	**1.0759**
Stddev	50.48	.282	4.874	.0262	.00773	.00140	.0235
%RSD	25.442	2.6037	15.392	1.9625	1.8475	21.360	2.1815
#1	243.80	11.157	26.051	1.3670	.42658	.00813	1.1030
#2	207.36	10.655	34.802	1.3215	.41798	.00618	1.0615
#3	144.04	10.684	34.147	1.3217	.41114	.00541	1.0632
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000	1.2000		5.0000	
Range	10.000%		10.000%	10.000%		-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95945**	**.97045**	F **.55488**	**1.0697**	**1.0356**	F **.00069**
Stddev	.00408	.00045	.01226	.0151	.0249	.00011
%RSD	.42539	.04681	2.2089	1.4151	2.4040	16.553
#1	.96163	.97009	.56901	1.0870	1.0643	.00056
#2	.96198	.97031	.54702	1.0592	1.0195	.00077
#3	.95474	.97096	.54862	1.0627	1.0230	.00073
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value			.50000			1.0000
Range			10.000%			-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48112.**	**44603.**
Stddev	737.	65.
%RSD	1.5321	.14621
#1	47262.	44530.
#2	48584.	44623.
#3	48488.	44656.

Approved: March 30, 2011

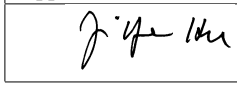
Sample Name: CCB Acquired: 3/29/2011 23:17:01 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.01390**	**.00073**	**.00183**	**-.00057**	**-.00001**	**.00912**
Stddev	.00103	.00296	.00202	.00016	.00012	.00003	.00435
%RSD	387.45	21.276	276.81	8.6996	20.808	324.96	47.723
#1	.00093	.01686	.00192	.00201	-.00053	.00001	.01342
#2	-.00092	.01388	-.00160	.00172	-.00071	-.00004	.00471
#3	.00079	.01095	.00187	.00176	-.00048	.00000	.00924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00007**	**-.00036**	**.00005**	**-.00205**	**.27411**	**-.01232**
Stddev	.00008	.00003	.00023	.00041	.00190	.02358	.00089
%RSD	120.75	37.271	65.246	770.79	92.911	8.6008	7.2521
#1	-.00016	.00010	-.00060	.00012	-.00314	.25459	-.01180
#2	-.00002	.00006	-.00033	.00043	.00015	.30030	-.01181
#3	-.00002	.00005	-.00014	-.00039	-.00314	.26745	-.01336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01017**	**-.00019**	**.00004**	**.00704**	**.00052**	**-.00140**	**-.00025**
Stddev	.01177	.00034	.00011	.00520	.00090	.00080	.00102
%RSD	115.74	180.85	301.92	73.788	172.89	57.454	412.96
#1	-.02001	-.00056	.00015	.00580	.00154	-.00116	.00000
#2	-.01338	.00011	-.00008	.01275	-.00017	-.00074	-.00137
#3	.00287	-.00012	.00005	.00258	.00019	-.00229	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011



Sample Name: CCB Acquired: 3/29/2011 23:17:01 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **230.02**	**-.00812**	F **24.452**	**-.00090**	**-.00023**	**.00001**	**-.00032**
Stddev	41.12	.02233	.713	.00065	.00142	.00088	.00031
%RSD	17.876	275.00	2.9140	72.588	619.79	8492.2	95.959
#1	277.48	-.01032	24.716	-.00021	-.00026	.00079	-.00051
#2	207.62	-.02927	24.995	-.00098	.00120	-.00094	.00003
#3	204.97	.01523	23.645	-.00150	-.00163	.00018	-.00048
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000		.01000				
Low Limit	-.01000		-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00131**	**.00001**	**-.00005**	**.00389**	**.00002**
Stddev	.00003	.00089	.00040	.00021	.00081	.00008
%RSD	28.517	68.333	2819.0	388.43	20.855	324.31
#1	-.00014	.00145	-.00042	-.00015	.00479	.00008
#2	-.00009	.00212	.00037	-.00019	.00322	.00005
#3	-.00010	.00035	.00008	.00019	.00366	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49112.**	**43929.**
Stddev	87.	399.
%RSD	.17762	.90861
#1	49136.	44388.
#2	49184.	43736.
#3	49015.	43663.

Approved: March 30, 2011

Sample Name: L1103049840 Acquired: 3/29/2011 23:20:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02884**	**74.619**	**.23477**	**.07700**	**1.3669**	**.00807**	**146.22**
Stddev	.00065	.776	.00220	.00089	.0049	.00003	.53
%RSD	2.2669	1.0398	.93646	1.1506	.35974	.37960	.36577
#1	.02841	74.411	.23617	.07751	1.3716	.00804	146.56
#2	.02959	73.968	.23589	.07598	1.3618	.00810	145.60
#3	.02851	75.477	.23223	.07751	1.3672	.00808	146.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13670**	**.12527**	**.11784**	**2.7798**	**126.85**	**14.520**	**.06382**
Stddev	.00039	.00037	.00068	.0055	.42	.036	.00028
%RSD	.28213	.29733	.57469	.19655	.33250	.25114	.43106
#1	.13674	.12527	.11761	2.7748	127.14	14.539	.06414
#2	.13630	.12564	.11731	2.7791	126.37	14.478	.06365
#3	.13707	.12490	.11860	2.7857	127.05	14.544	.06368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.179**	**6.1769**	**.01020**	**.99168**	**.14708**	**4.0240**	**3.2368**
Stddev	.083	.0240	.00032	.00344	.00037	.0091	.0031
%RSD	.39274	.38787	3.1517	.34728	.25410	.22599	.09609
#1	21.204	6.1885	.01004	.99502	.14713	4.0137	3.2337
#2	21.086	6.1494	.01057	.98814	.14668	4.0275	3.2399
#3	21.246	6.1929	.00999	.99188	.14743	4.0309	3.2368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049840 Acquired: 3/29/2011 23:20:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **59.086**	F **247.19**	F **-28783.**	**.05674**	**.01145**	**2.0678**	**.05136**
Stddev	54.482	.34	53.	.00183	.00210	.0050	.00045
%RSD	92.208	.13908	.18563	3.2218	18.335	.24228	.86992
#1	80.018	247.16	-28738.	.05467	.01262	2.0622	.05094
#2	-2.7578	246.86	-28769.	.05741	.00903	2.0694	.05130
#3	99.999	247.54	-28842.	.05813	.01272	2.0718	.05183
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.57571**	**.17479**	**.00288**	**.27787**	**31.689**	**.06529**
Stddev	.00155	.00136	.00170	.00137	.172	.00042
%RSD	.26869	.78002	59.218	.49215	.54209	.64240
#1	.57651	.17322	.00129	.27642	31.509	.06481
#2	.57393	.17548	.00468	.27806	31.706	.06561
#3	.57670	.17567	.00267	.27914	31.851	.06544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46924.**	**46115.**
Stddev	10.	334.
%RSD	.02053	.72377
#1	46918.	45802.
#2	46935.	46466.
#3	46919.	46078.

Approved: March 30, 2011

Sample Name: L1103049841 Acquired: 3/29/2011 23:24:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00799**	**102.97**	**.07290**	**.06743**	**1.8673**	**.00907**	**55.703**
Stddev	.00067	1.10	.00080	.00058	.0065	.00001	.149
%RSD	8.3705	1.0675	1.0953	.86159	.34833	.09642	.26757
#1	.00722	103.49	.07376	.06694	1.8599	.00908	55.552
#2	.00835	101.71	.07218	.06807	1.8722	.00906	55.850
#3	.00840	103.71	.07278	.06727	1.8699	.00906	55.707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08676**	**.09644**	**.13300**	**.51048**	**110.22**	**24.475**	**.07347**
Stddev	.00027	.00019	.00052	.00086	.16	.038	.00120
%RSD	.31340	.19951	.39344	.16887	.14067	.15335	1.6310
#1	.08697	.09660	.13306	.51033	110.40	24.465	.07217
#2	.08685	.09649	.13244	.51141	110.11	24.517	.07453
#3	.08645	.09622	.13348	.50971	110.16	24.444	.07372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.196**	**5.3262**	**.00756**	**.75697**	**.12029**	**13.930**	**.89870**
Stddev	.176	.0116	.00002	.00594	.00048	.026	.00314
%RSD	.76016	.21801	.26926	.78494	.40105	.18716	.34896
#1	23.400	5.3226	.00754	.76330	.11991	13.946	.89882
#2	23.102	5.3392	.00757	.75612	.12084	13.945	.89551
#3	23.087	5.3169	.00758	.75151	.12013	13.900	.90178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049841 Acquired: 3/29/2011 23:24:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.2274**	F **157.45**	F **-29782.**	**.00835**	**.00990**	**2.2640**	**.02203**
Stddev	21.144	.30	36.	.00169	.00195	.0196	.00028
%RSD	256.99	.18961	.11966	20.292	19.733	.86682	1.2726
#1	6.1556	157.38	-29806.	.00850	.00941	2.2852	.02191
#2	30.331	157.78	-29741.	.00996	.01205	2.2601	.02235
#3	-11.804	157.20	-29799.	.00658	.00824	2.2465	.02184
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30742**	**.13667**	**.00194**	**.22473**	**10.237**	**.06941**
Stddev	.00065	.00068	.00096	.00070	.023	.00030
%RSD	.21092	.49412	49.363	.31130	.22463	.43354
#1	.30680	.13667	.00136	.22407	10.257	.06913
#2	.30809	.13734	.00142	.22464	10.212	.06973
#3	.30738	.13599	.00304	.22546	10.242	.06939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47815.**	**47199.**
Stddev	48.	771.
%RSD	.10070	1.6345
#1	47859.	46310.
#2	47763.	47586.
#3	47821.	47700.

Approved: March 30, 2011

Sample Name: L1103049842 Acquired: 3/29/2011 23:28:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00876**	**141.95**	**.13864**	**.09222**	**2.1171**	**.01306**	**69.265**
Stddev	.00057	1.33	.00175	.00048	.0134	.00003	.562
%RSD	6.5512	.93367	1.2649	.52201	.63296	.24718	.81092
#1	.00816	142.93	.13685	.09207	2.1309	.01303	69.901
#2	.00930	142.47	.14035	.09276	2.1163	.01304	69.056
#3	.00882	140.44	.13872	.09184	2.1041	.01309	68.837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07268**	**.14084**	**.17759**	**.57989**	**153.26**	**25.453**	**.10686**
Stddev	.00022	.00036	.00069	.00261	.80	.163	.00134
%RSD	.30277	.25709	.38715	.44948	.51943	.63955	1.2501
#1	.07277	.14073	.17716	.58056	154.18	25.633	.10834
#2	.07285	.14124	.17839	.58210	152.75	25.409	.10650
#3	.07243	.14054	.17723	.57702	152.85	25.316	.10574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**31.360**	**6.0093**	**.00787**	**.79975**	**.17933**	**7.0889**	**.84710**
Stddev	.147	.0664	.00013	.00351	.00065	.0249	.00151
%RSD	.46804	1.1054	1.6512	.43922	.36049	.35175	.17787
#1	31.488	6.0860	.00795	.80358	.17866	7.0933	.84774
#2	31.200	5.9708	.00795	.79668	.17995	7.1114	.84819
#3	31.390	5.9711	.00772	.79899	.17938	7.0621	.84538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049842 Acquired: 3/29/2011 23:28:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-49.718**	F **212.71**	F **-41472.**	**.01147**	**.01089**	**1.8288**	**.02061**
Stddev	36.025	.97	405.	.00176	.00343	.0088	.00013
%RSD	72.459	.45667	.97562	15.367	31.517	.47867	.61190
#1	-91.311	213.01	-41932.	.01344	.01148	1.8317	.02047
#2	-28.322	213.50	-41310.	.01005	.01399	1.8357	.02070
#3	-29.522	211.63	-41173.	.01091	.00720	1.8190	.02067
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38692**	**.14483**	**.00537**	**.38668**	**8.9714**	**.09912**
Stddev	.00309	.00063	.00197	.00035	.0149	.00031
%RSD	.79845	.43222	36.680	.09168	.16611	.31163
#1	.39035	.14551	.00347	.38678	8.9883	.09910
#2	.38604	.14471	.00741	.38628	8.9662	.09943
#3	.38437	.14428	.00524	.38697	8.9598	.09882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47950.**	**47864.**
Stddev	113.	547.
%RSD	.23580	1.1424
#1	47852.	47280.
#2	47923.	48363.
#3	48074.	47950.

Approved: March 30, 2011

Sample Name: L1103049843 Acquired: 3/29/2011 23:31:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01328**	**92.915**	**.13429**	**.08128**	**1.8066**	**.01093**	**68.155**
Stddev	.00059	.351	.00264	.00089	.0024	.00003	.170
%RSD	4.4140	.37751	1.9675	1.0978	.13156	.29536	.24895
#1	.01373	92.622	.13162	.08046	1.8093	.01092	68.202
#2	.01262	92.819	.13434	.08116	1.8047	.01090	67.967
#3	.01349	93.303	.13690	.08223	1.8058	.01096	68.296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12440**	**.11488**	**.15758**	**1.0934**	**124.97**	**22.721**	**.06950**
Stddev	.00017	.00016	.00072	.0025	.22	.067	.00060
%RSD	.13673	.13859	.45782	.22690	.17834	.29634	.86534
#1	.12432	.11482	.15730	1.0935	124.74	22.710	.06920
#2	.12429	.11476	.15704	1.0909	124.99	22.660	.06910
#3	.12460	.11506	.15840	1.0959	125.18	22.793	.07019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.965**	**5.9528**	**.00759**	**.69290**	**.15002**	**5.2191**	**1.8075**
Stddev	.114	.0262	.00011	.00199	.00106	.0126	.0037
%RSD	.57041	.43948	1.4543	.28666	.70699	.24173	.20675
#1	19.851	5.9429	.00763	.69351	.14950	5.2072	1.8109
#2	19.965	5.9330	.00746	.69069	.14931	5.2177	1.8035
#3	20.079	5.9825	.00767	.69452	.15124	5.2323	1.8079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049843 Acquired: 3/29/2011 23:31:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-25.775**	F **166.15**	F **-28918.**	**.01775**	**.01303**	**1.9193**	**.04156**
Stddev	83.600	.56	43.	.00075	.00377	.0047	.00043
%RSD	324.35	.33916	.14806	4.2195	28.923	.24370	1.0372
#1	-120.85	166.17	-28915.	.01855	.01308	1.9146	.04106
#2	36.254	165.57	-28877.	.01766	.00923	1.9193	.04181
#3	7.268	166.70	-28962.	.01706	.01677	1.9240	.04180
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38108**	**.20767**	**.00539**	**.35729**	**20.039**	**.08792**
Stddev	.00141	.00069	.00132	.00019	.059	.00042
%RSD	.37106	.33408	24.545	.05420	.29266	.47292
#1	.38210	.20833	.00504	.35717	20.105	.08747
#2	.37947	.20773	.00685	.35718	19.993	.08830
#3	.38169	.20695	.00427	.35751	20.020	.08797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48265.**	**47557.**
Stddev	58.	67.
%RSD	.11925	.14093
#1	48203.	47633.
#2	48317.	47506.
#3	48274.	47532.

Approved: March 30, 2011

Sample Name: L1103049844 Acquired: 3/29/2011 23:35:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01120**	**104.52**	**.09859**	**.08520**	**2.0699**	**.01205**	**152.61**
Stddev	.00075	.71	.00214	.00066	.0097	.00005	.95
%RSD	6.6939	.68283	2.1729	.77740	.46683	.44003	.61923
#1	.01063	105.28	.10064	.08522	2.0792	.01202	153.66
#2	.01092	103.87	.09875	.08454	2.0706	.01211	151.83
#3	.01205	104.40	.09637	.08586	2.0599	.01201	152.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12563**	**.14310**	**.16105**	**.80651**	**118.77**	**34.318**	**.07472**
Stddev	.00025	.00034	.00084	.00140	.31	.141	.00079
%RSD	.20154	.23739	.51877	.17414	.25978	.40984	1.0633
#1	.12559	.14329	.16023	.80638	119.13	34.480	.07454
#2	.12539	.14270	.16190	.80518	118.64	34.221	.07558
#3	.12589	.14329	.16101	.80798	118.56	34.255	.07402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.345**	**6.6297**	**.00996**	**.69712**	**.15354**	**15.557**	**1.6458**
Stddev	.108	.0435	.00012	.00177	.00056	.021	.0003
%RSD	.38007	.65613	1.2042	.25408	.36514	.13212	.01586
#1	28.387	6.6775	.00983	.69593	.15313	15.566	1.6460
#2	28.222	6.5925	.00999	.69627	.15417	15.534	1.6455
#3	28.424	6.6189	.01007	.69916	.15330	15.572	1.6459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049844 Acquired: 3/29/2011 23:35:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.8022**	F **376.03**	F **-65165.**	**.01270**	**.01271**	**2.2013**	**.03312**
Stddev	23.220	1.42	60.	.00047	.00175	.0004	.00043
%RSD	1288.4	.37695	.09187	3.7117	13.795	.02058	1.2947
#1	17.438	376.12	-65151.	.01217	.01325	2.2018	.03343
#2	4.7495	374.58	-65112.	.01287	.01413	2.2009	.03263
#3	-27.594	377.41	-65230.	.01307	.01075	2.2013	.03330
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.66572**	**.18087**	**.00289**	**.29991**	**15.576**	**.09719**
Stddev	.00329	.00048	.00112	.00018	.020	.00012
%RSD	.49446	.26429	38.747	.05938	.12677	.12740
#1	.66918	.18096	.00212	.30010	15.579	.09733
#2	.66263	.18129	.00418	.29975	15.593	.09715
#3	.66535	.18035	.00239	.29987	15.554	.09710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47554.**	**46868.**
Stddev	96.	475.
%RSD	.20133	1.0140
#1	47444.	46332.
#2	47612.	47237.
#3	47607.	47035.

Approved: March 30, 2011

Sample Name: L1103049845 Acquired: 3/29/2011 23:38:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00701**	**101.97**	**.15363**	**.09764**	**1.9345**	**.01224**	**62.905**
Stddev	.00141	.57	.00135	.00051	.0034	.00004	.246
%RSD	20.138	.56062	.87937	.52712	.17394	.32555	.39027
#1	.00859	102.52	.15499	.09784	1.9307	.01224	62.666
#2	.00587	102.01	.15361	.09706	1.9370	.01229	62.893
#3	.00657	101.38	.15229	.09803	1.9358	.01221	63.157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08697**	**.13452**	**.15621**	**.61393**	**168.60**	**26.305**	**.07068**
Stddev	.00097	.00133	.00039	.00282	.85	.092	.00147
%RSD	1.1171	.98896	.25126	.45980	.50252	.34985	2.0790
#1	.08765	.13537	.15666	.61450	167.98	26.244	.07207
#2	.08741	.13521	.15603	.61643	168.24	26.260	.07082
#3	.08586	.13299	.15594	.61087	169.56	26.411	.06914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.989**	**6.9404**	**.00694**	**.75521**	**.15146**	**13.426**	**1.3994**
Stddev	.180	.0509	.00008	.00429	.00055	.048	.0120
%RSD	.82087	.73279	1.1103	.56748	.36097	.35737	.85471
#1	21.834	6.8983	.00685	.75040	.15141	13.444	1.3876
#2	21.946	6.9261	.00698	.75664	.15202	13.463	1.4115
#3	22.188	6.9969	.00698	.75860	.15093	13.372	1.3992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049845 Acquired: 3/29/2011 23:38:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **29.537**	F **153.25**	F **-26118.**	**.01387**	**.00776**	**1.7392**	**.03082**
Stddev	44.741	1.09	79.	.00094	.00026	.0071	.00035
%RSD	151.48	.71048	.30337	6.8139	3.3688	.40729	1.1347
#1	-22.122	153.71	-26182.	.01307	.00803	1.7404	.03046
#2	54.778	154.03	-26143.	.01362	.00750	1.7457	.03084
#3	55.954	152.01	-26030.	.01491	.00776	1.7316	.03116
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42895**	**.15157**	**.00635**	**.39216**	**11.025**	**.08750**
Stddev	.00102	.00061	.00199	.00128	.043	.00026
%RSD	.23720	.40441	31.380	.32705	.38900	.29601
#1	.42778	.15104	.00864	.39139	11.055	.08758
#2	.42962	.15141	.00509	.39364	11.044	.08770
#3	.42947	.15224	.00531	.39146	10.976	.08721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48112.**	**47021.**
Stddev	208.	375.
%RSD	.43319	.79671
#1	47941.	47015.
#2	48052.	47399.
#3	48344.	46650.

Approved: March 30, 2011

Sample Name: L1103049846 Acquired: 3/29/2011 23:42:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01246**	**115.08**	**.14039**	**.08232**	**2.1370**	**.01168**	**889.65**
Stddev	.00008	.65	.00049	.00094	.0089	.00002	22.63
%RSD	.66645	.56422	.34984	1.1440	.41711	.15857	2.5440
#1	.01241	114.77	.14014	.08245	2.1342	.01167	873.71
#2	.01256	115.82	.14008	.08131	2.1298	.01170	879.69
#3	.01242	114.64	.14096	.08318	2.1470	.01167	915.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09447**	**.13934**	**.17219**	**.66845**	**132.33**	**18.506**	**.11764**
Stddev	.00060	.00051	.00063	.00327	1.12	.122	.00130
%RSD	.63359	.36553	.36614	.48976	.84404	.65722	1.1086
#1	.09445	.13932	.17262	.66489	131.41	18.450	.11902
#2	.09388	.13883	.17147	.66910	131.99	18.422	.11749
#3	.09508	.13985	.17249	.67134	133.57	18.646	.11642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.196**	**8.1582**	**.01127**	**2.1543**	**.19021**	**8.7658**	**1.2495**
Stddev	.336	.0871	.00007	.0134	.00044	.0072	.0015
%RSD	.88049	1.0678	.64581	.62008	.23208	.08195	.11798
#1	37.898	8.1115	.01124	2.1546	.18981	8.7575	1.2509
#2	38.129	8.1044	.01122	2.1407	.19068	8.7693	1.2496
#3	38.561	8.2587	.01136	2.1674	.19014	8.7706	1.2480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049846 Acquired: 3/29/2011 23:42:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.0138**	F **1094.1**	F **-59263.**	**.01441**	**.01296**	**2.2269**	**.02454**
Stddev	32.432	1.5	111.	.00037	.00254	.0030	.00042
%RSD	539.30	.13973	.18773	2.5435	19.581	.13648	1.7122
#1	43.458	1092.4	-59135.	.01408	.01397	2.2284	.02456
#2	-13.258	1095.3	-59317.	.01481	.01007	2.2290	.02496
#3	-12.159	1094.7	-59337.	.01435	.01484	2.2234	.02412
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3321**	**.12114**	**.00374**	**.33032**	**11.182**	**.07684**
Stddev	.0038	.00060	.00108	.00044	.017	.00036
%RSD	.28467	.49859	28.937	.13191	.15181	.47028
#1	1.3328	.12047	.00271	.32994	11.166	.07669
#2	1.3281	.12164	.00487	.33024	11.199	.07658
#3	1.3356	.12132	.00364	.33080	11.181	.07725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45041.**	**46938.**
Stddev	19.	430.
%RSD	.04318	.91642
#1	45043.	47263.
#2	45059.	47102.
#3	45021.	46450.

Approved: March 30, 2011

Sample Name: L1103049847 Acquired: 3/29/2011 23:46:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01356**	**83.241**	**.21473**	**.08317**	**2.0515**	**.00880**	F **1234.0**
Stddev	.00118	.113	.00345	.00095	.0097	.00008	6.7
%RSD	8.7339	.13520	1.6044	1.1480	.47349	.96215	.54031
#1	.01470	83.264	.21819	.08404	2.0599	.00871	1226.4
#2	.01366	83.340	.21130	.08331	2.0538	.00888	1237.4
#3	.01234	83.118	.21468	.08215	2.0408	.00880	1238.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16501**	**.11601**	**.13870**	**1.0682**	**113.14**	**20.048**	**.10902**
Stddev	.00101	.00153	.00066	.0070	.05	.029	.00088
%RSD	.61202	1.3173	.47805	.65603	.04049	.14285	.80395
#1	.16606	.11775	.13799	1.0754	113.09	20.076	.10912
#2	.16493	.11542	.13930	1.0679	113.14	20.049	.10810
#3	.16404	.11487	.13880	1.0614	113.19	20.019	.10984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**43.673**	**7.9570**	**.00962**	**1.1205**	**.14429**	**10.802**	**2.0883**
Stddev	.252	.0032	.00023	.0096	.00160	.050	.0067
%RSD	.57767	.03981	2.3540	.85413	1.1083	.46082	.32330
#1	43.450	7.9537	.00987	1.1268	.14614	10.857	2.0926
#2	43.623	7.9572	.00958	1.1253	.14331	10.790	2.0918
#3	43.947	7.9600	.00942	1.1095	.14343	10.760	2.0805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049847 Acquired: 3/29/2011 23:46:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **49.120**	F **1462.0**	F **-64973.**	**.02496**	**.01488**	**2.1090**	**.03439**
Stddev	59.903	5.6	54.	.00108	.00141	.0092	.00020
%RSD	121.95	.38101	.08291	4.3202	9.4808	.43488	.56886
#1	-19.618	1468.4	-65034.	.02378	.01394	2.1177	.03459
#2	90.172	1458.9	-64951.	.02589	.01650	2.1099	.03420
#3	76.807	1458.7	-64934.	.02523	.01420	2.0994	.03437
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0449**	**.11646**	**.00104**	**.23731**	**16.852**	**.05978**
Stddev	.0043	.00036	.00213	.00086	.059	.00012
%RSD	.21216	.31125	204.63	.36108	.34899	.20157
#1	2.0490	.11651	-.00137	.23714	16.915	.05967
#2	2.0453	.11607	.00184	.23824	16.843	.05976
#3	2.0403	.11679	.00266	.23655	16.799	.05991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44639.**	**46226.**
Stddev	155.	180.
%RSD	.34665	.38868
#1	44507.	46317.
#2	44599.	46342.
#3	44809.	46019.

Approved: March 30, 2011

Sample Name: L1103049848 Acquired: 3/29/2011 23:49:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01772**	**83.575**	**.20414**	**.08395**	**1.8964**	**.00866**	F **1320.6**
Stddev	.00065	.983	.00363	.00039	.0085	.00004	14.3
%RSD	3.6445	1.1762	1.7784	.46377	.44940	.41324	1.0794
#1	.01711	83.032	.20770	.08437	1.9062	.00869	1335.0
#2	.01839	84.710	.20044	.08390	1.8917	.00867	1306.5
#3	.01766	82.984	.20427	.08359	1.8912	.00862	1320.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14808**	**.13398**	**.13838**	**1.3649**	**113.97**	**16.279**	**.11501**
Stddev	.00039	.00086	.00026	.0035	.20	.055	.00119
%RSD	.26355	.64449	.18517	.25531	.17918	.33548	1.0377
#1	.14841	.13440	.13860	1.3667	114.20	16.332	.11562
#2	.14819	.13299	.13810	1.3671	113.85	16.223	.11363
#3	.14765	.13455	.13843	1.3609	113.85	16.284	.11577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**36.510**	**8.2129**	**.01236**	**1.1441**	**.14596**	**8.5085**	**2.1282**
Stddev	.039	.0367	.00006	.0058	.00075	.0181	.0032
%RSD	.10672	.44653	.45941	.50926	.51245	.21227	.14815
#1	36.478	8.2486	.01232	1.1466	.14656	8.5228	2.1299
#2	36.500	8.1754	.01242	1.1374	.14620	8.5146	2.1301
#3	36.553	8.2149	.01233	1.1482	.14512	8.4882	2.1246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049848 Acquired: 3/29/2011 23:49:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.510**	F **1549.4**	F **-67361.**	**.02721**	**.01728**	**2.0027**	**.04124**
Stddev	48.004	1.8	137.	.00165	.00271	.0056	.00015
%RSD	383.73	.11525	.20373	6.0729	15.677	.28164	.37344
#1	15.486	1548.9	-67459.	.02910	.01575	2.0044	.04114
#2	58.957	1551.3	-67421.	.02604	.02041	2.0074	.04142
#3	-36.913	1547.9	-67204.	.02649	.01569	1.9965	.04117
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1731**	**.12924**	**.00178**	**.27110**	**16.954**	**.06258**
Stddev	.0109	.00076	.00166	.00040	.032	.00023
%RSD	.50316	.58437	93.248	.14869	.18620	.36447
#1	2.1821	.12862	.00016	.27103	16.931	.06264
#2	2.1609	.12901	.00347	.27073	16.990	.06233
#3	2.1761	.13008	.00171	.27153	16.942	.06278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44482.**	**46015.**
Stddev	125.	249.
%RSD	.28071	.54060
#1	44397.	45739.
#2	44425.	46085.
#3	44626.	46221.

Approved: March 30, 2011

Sample Name: L1103049901 Acquired: 3/29/2011 23:53:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00805**	**105.29**	**.10316**	**.07182**	**1.5924**	**.01120**	**40.814**
Stddev	.00018	.44	.00112	.00129	.0097	.00001	.208
%RSD	2.2224	.41744	1.0839	1.7926	.60776	.12523	.51079
#1	.00811	105.52	.10444	.07033	1.5821	.01118	40.584
#2	.00785	104.79	.10235	.07261	1.5937	.01121	40.864
#3	.00819	105.58	.10269	.07252	1.6014	.01121	40.992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10067**	**.14653**	**.15622**	**.65440**	**118.85**	**27.129**	**.06688**
Stddev	.00032	.00013	.00059	.00153	.75	.117	.00115
%RSD	.32271	.08964	.37922	.23378	.63333	.43306	1.7241
#1	.10064	.14642	.15630	.65364	118.01	26.995	.06806
#2	.10037	.14649	.15677	.65340	119.08	27.179	.06682
#3	.10101	.14667	.15559	.65616	119.46	27.213	.06575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.259**	**6.8457**	**.00680**	**.66424**	**.13093**	**9.9772**	**1.1839**
Stddev	.085	.0537	.00013	.00447	.00029	.0061	.0036
%RSD	.44017	.78497	1.8571	.67319	.22167	.06122	.30184
#1	19.186	6.7856	.00669	.66626	.13093	9.9714	1.1816
#2	19.352	6.8626	.00677	.66734	.13064	9.9766	1.1820
#3	19.240	6.8890	.00694	.65911	.13122	9.9835	1.1880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049901 Acquired: 3/29/2011 23:53:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-42.034**	F **130.39**	F **-26551.**	**.01158**	**.00952**	**2.0615**	**.02545**
Stddev	49.281	.36	41.	.00081	.00275	.0042	.00027
%RSD	117.24	.27240	.15258	6.9887	28.940	.20411	1.0617
#1	-95.543	130.17	-26570.	.01225	.00637	2.0651	.02561
#2	-32.050	130.20	-26504.	.01179	.01069	2.0569	.02560
#3	1.4900	130.80	-26578.	.01068	.01149	2.0625	.02514
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.35619**	**.16674**	**.00511**	**.31404**	**10.803**	**.08950**
Stddev	.00053	.00057	.00027	.00037	.029	.00069
%RSD	.15012	.33908	5.3706	.11922	.27192	.77113
#1	.35587	.16657	.00531	.31365	10.777	.08870
#2	.35589	.16629	.00480	.31406	10.798	.08988
#3	.35681	.16737	.00523	.31440	10.835	.08991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48770.**	**47777.**
Stddev	9.	105.
%RSD	.01935	.21984
#1	48781.	47731.
#2	48766.	47703.
#3	48763.	47897.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 23:57:26 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .44162	10.427	.42633	.52811	1.0095	.05310	9.9193
Stddev	.00199	.018	.00105	.00110	.0025	.00003	.0264
%RSD	.45173	.17332	.24627	.20760	.24901	.04873	.26605
#1	.44239	10.443	.42512	.52782	1.0089	.05313	9.9198
#2	.43936	10.408	.42693	.52718	1.0122	.05309	9.9455
#3	.44312	10.430	.42695	.52932	1.0073	.05309	9.8927
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05337	.21489	.52781	.54024	3.7512	51.029	1.0306
Stddev	.00007	.00016	.00056	.00016	.0118	.116	.0023
%RSD	.12261	.07469	.10676	.02931	.31389	.22702	.21981
#1	.05335	.21472	.52798	.54021	3.7378	50.907	1.0325
#2	.05331	.21504	.52718	.54010	3.7600	51.137	1.0313
#3	.05344	.21491	.52827	.54041	3.7557	51.044	1.0281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.2121	F .44823	.99809	50.287	.52307	F -.00041	.52752
Stddev	.0289	.00199	.00092	.120	.00101	.00343	.00150
%RSD	.31348	.44399	.09187	.23858	.19276	845.24	.28373
#1	9.1799	.44653	.99914	50.170	.52348	.00307	.52741
#2	9.2208	.45042	.99745	50.410	.52192	-.00379	.52608
#3	9.2357	.44775	.99769	50.281	.52381	-.00049	.52907
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 23:57:26 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **183.12**	**10.646**	F **18.306**	**1.3122**	**.41309**	F **.00423**	**1.0504**
Stddev	25.23	.023	17.397	.0018	.00170	.00060	.0002
%RSD	13.780	.21368	95.039	.13736	.41254	14.167	.02190
#1	212.11	10.621	16.118	1.3102	.41112	.00354	1.0506
#2	166.08	10.651	36.694	1.3134	.41404	.00448	1.0502
#3	171.18	10.666	2.1057	1.3131	.41410	.00466	1.0505
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97503**	**.98038**	**.54408**	**1.0621**	**1.0099**	F **.00064**
Stddev	.00240	.00261	.00132	.0019	.0002	.00008
%RSD	.24658	.26672	.24270	.17666	.01814	11.820
#1	.97407	.97903	.54256	1.0618	1.0096	.00071
#2	.97777	.98340	.54487	1.0604	1.0099	.00056
#3	.97325	.97872	.54482	1.0641	1.0100	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48943.**	**44823.**
Stddev	53.	200.
%RSD	.10771	.44710
#1	48992.	45028.
#2	48951.	44813.
#3	48888.	44628.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 0:00:50 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.03436**	**.00117**	**.00128**	**-.00017**	**-.00001**	**.13592**
Stddev	.00038	.00048	.00014	.00064	.00014	.00002	.01095
%RSD	178.26	1.4012	12.154	50.119	84.922	307.66	8.0591
#1	-.00065	.03400	.00133	.00082	-.00034	.00000	.14855
#2	.00005	.03491	.00105	.00202	-.00009	.00000	.13018
#3	-.00004	.03417	.00115	.00101	-.00009	-.00003	.12903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00009**	**-.00066**	**-.00023**	**.02553**	**.24904**	**-.00984**
Stddev	.00009	.00010	.00012	.00050	.00139	.00325	.00074
%RSD	64.329	107.14	19.019	218.76	5.4606	1.3060	7.5362
#1	-.00007	-.00002	-.00070	.00030	.02702	.25279	-.00991
#2	-.00024	.00017	-.00075	-.00028	.02427	.24693	-.01054
#3	-.00010	.00013	-.00051	-.00070	.02530	.24742	-.00906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00760**	**.00129**	**-.00008**	**.00567**	**.00086**	**.00331**	**.00040**
Stddev	.01383	.00025	.00005	.00281	.00030	.00127	.00054
%RSD	181.85	19.752	59.638	49.578	34.339	38.420	133.46
#1	-.01397	.00130	-.00003	.00350	.00120	.00199	.00055
#2	-.01710	.00103	-.00010	.00466	.00069	.00342	.00085
#3	.00826	.00154	-.00012	.00884	.00069	.00452	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 0:00:50 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **174.41**	F **.17107**	F **1.7400**	**-.00006**	**.00039**	**.00122**	**-.00009**
Stddev	44.32	.02893	1.6488	.00072	.00043	.00048	.00043
%RSD	25.410	16.909	94.759	1174.8	110.73	39.007	491.21
#1	171.98	.13772	2.9844	-.00089	.00036	.00146	-.00058
#2	131.36	.18615	-.13005	.00032	-.00003	.00153	.00013
#3	219.89	.18934	2.3656	.00039	.00083	.00067	.00019
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00050**	**.00033**	**-.00004**	**.00623**	**-.00004**
Stddev	.00005	.00024	.00086	.00024	.00082	.00006
%RSD	34.192	47.365	263.46	549.15	13.099	142.33
#1	.00009	.00037	.00132	.00015	.00596	-.00006
#2	.00014	.00077	-.00014	-.00031	.00558	.00002
#3	.00018	.00036	-.00020	.00003	.00714	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49305.**	**44942.**
Stddev	151.	301.
%RSD	.30666	.67074
#1	49467.	44771.
#2	49283.	45290.
#3	49167.	44765.

Approved: March 30, 2011

Sample Name: L1103049902 Acquired: 3/30/2011 0:04:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00712**	**103.21**	**.12722**	**.07088**	**1.6136**	**.01153**	**38.227**
Stddev	.00065	1.17	.00090	.00036	.0025	.00002	.041
%RSD	9.1791	1.1361	.70510	.50296	.15540	.15055	.10657
#1	.00693	102.07	.12619	.07129	1.6125	.01155	38.264
#2	.00658	103.16	.12773	.07068	1.6119	.01151	38.233
#3	.00785	104.41	.12775	.07067	1.6165	.01154	38.183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09321**	**.15928**	**.15141**	**.57579**	**117.31**	**26.369**	**.06560**
Stddev	.00014	.00016	.00064	.00165	.11	.054	.00075
%RSD	.15064	.10293	.42454	.28650	.09330	.20487	1.1462
#1	.09307	.15911	.15213	.57404	117.19	26.397	.06491
#2	.09320	.15944	.15119	.57731	117.32	26.402	.06640
#3	.09335	.15929	.15090	.57602	117.41	26.306	.06549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.145**	**7.7351**	**.00845**	**1.1661**	**.13450**	**9.1994**	**1.1060**
Stddev	.030	.0096	.00042	.0044	.00045	.0076	.0046
%RSD	.15890	.12435	4.9286	.37566	.33767	.08225	.41602	
#1	19.146	7.7453	.00892	1.1697	.13402	9.1908	1.1087
#2	19.175	7.7262	.00814	1.1612	.13456	9.2027	1.1007
#3	19.115	7.7337	.00828	1.1675	.13492	9.2048	1.1086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049902 Acquired: 3/30/2011 0:04:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-41.706**	F **116.64**	F **-21680.**	**.01297**	**.01093**	**1.9895**	**.02109**
Stddev	25.508	.32	116.	.00070	.00153	.0052	.00026
%RSD	61.161	.27252	.53413	5.3597	14.041	.25878	1.2457
#1	-66.594	116.49	-21775.	.01276	.01170	1.9948	.02104
#2	-42.903	116.43	-21551.	.01240	.01192	1.9846	.02137
#3	-15.621	117.01	-21714.	.01374	.00916	1.9891	.02085
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.34491**	**.15594**	**.00488**	**.36555**	**9.4103**	**.08237**
Stddev	.00069	.00013	.00037	.00156	.0153	.00010
%RSD	.19925	.08625	7.5675	.42751	.16267	.12668
#1	.34560	.15581	.00446	.36509	9.3976	.08249
#2	.34490	.15608	.00511	.36427	9.4060	.08234
#3	.34423	.15594	.00509	.36730	9.4273	.08229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48407.**	**48047.**
Stddev	78.	424.
%RSD	.16161	.88143
#1	48325.	47676.
#2	48418.	47956.
#3	48480.	48508.

Approved: March 30, 2011

Sample Name: L1103049903 Acquired: 3/30/2011 0:08:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00881**	**131.37**	**.12744**	**.10418**	**2.0584**	**.01214**	**76.056**
Stddev	.00021	1.25	.00137	.00056	.0035	.00001	.053
%RSD	2.3459	.95165	1.0783	.53586	.17216	.06559	.06993
#1	.00888	132.81	.12902	.10481	2.0594	.01214	76.030
#2	.00896	130.78	.12646	.10398	2.0545	.01215	76.021
#3	.00857	130.53	.12685	.10375	2.0614	.01214	76.118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09041**	**.13081**	**.18302**	**.66902**	**159.91**	**29.264**	**.10016**
Stddev	.00032	.00040	.00047	.00284	.43	.008	.00034
%RSD	.35026	.30747	.25607	.42520	.26677	.02640	.34270
#1	.09076	.13127	.18354	.67230	159.61	29.273	.09976
#2	.09031	.13065	.18263	.66722	159.72	29.259	.10031
#3	.09015	.13052	.18289	.66753	160.40	29.260	.10040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.012**	**5.6728**	**.00777**	**1.8630**	**.19600**	**7.6926**	**1.5056**
Stddev	.134	.0081	.00009	.0047	.00084	.0094	.0010
%RSD	.47779	.14314	1.1279	.25128	.42649	.12232	.07001
#1	27.877	5.6694	.00767	1.8684	.19632	7.7028	1.5044
#2	28.017	5.6669	.00784	1.8611	.19662	7.6909	1.5065
#3	28.144	5.6821	.00780	1.8596	.19505	7.6842	1.5059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049903 Acquired: 3/30/2011 0:08:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **18.598**	F **250.01**	F **-50410.**	**.01913**	**.01310**	**2.2222**	**.03502**
Stddev	50.443	1.29	38.	.00025	.00081	.0253	.00010
%RSD	271.23	.51566	.07576	1.3295	6.1732	1.1399	.27881
#1	17.759	251.49	-50454.	.01889	.01348	2.2359	.03513
#2	69.456	249.12	-50385.	.01940	.01217	2.2376	.03496
#3	-31.421	249.43	-50390.	.01908	.01365	2.1929	.03496
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52638**	**.20026**	**.00794**	**.41039**	**11.401**	**.10540**
Stddev	.00077	.00077	.00075	.00111	.023	.00016
%RSD	.14640	.38257	9.4485	.27112	.19754	.15157
#1	.52719	.19968	.00834	.41117	11.427	.10555
#2	.52630	.20113	.00841	.40912	11.387	.10524
#3	.52566	.19996	.00708	.41088	11.389	.10542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48052.**	**47600.**
Stddev	149.	8.
%RSD	.31061	.01758
#1	47889.	47606.
#2	48084.	47604.
#3	48182.	47591.

Approved: March 30, 2011

Sample Name: L1103049904 Acquired: 3/30/2011 0:11:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00256**	**146.17**	**.08361**	**.08520**	**2.1813**	**.01442**	**80.574**
Stddev	.00068	.16	.00103	.00008	.0097	.00002	.379
%RSD	26.666	.10645	1.2321	.09869	.44234	.16793	.47099
#1	.00322	146.00	.08388	.08514	2.1709	.01440	80.222
#2	.00186	146.29	.08448	.08530	2.1830	.01443	80.524
#3	.00259	146.24	.08247	.08516	2.1900	.01444	80.976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02835**	**.12566**	**.16740**	**.29812**	**147.25**	**21.136**	**.11599**
Stddev	.00013	.00020	.00074	.00076	.93	.085	.00110
%RSD	.45453	.16116	.44214	.25644	.63136	.40127	.94737
#1	.02821	.12583	.16742	.29879	146.22	21.045	.11607
#2	.02836	.12571	.16813	.29830	147.48	21.151	.11485
#3	.02847	.12543	.16665	.29729	148.04	21.213	.11704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.948**	**3.9771**	**.00484**	**2.2679**	**.17874**	**3.3572**	**.47531**
Stddev	.231	.0309	.00017	.0076	.00059	.0035	.00075
%RSD	.77017	.77672	3.4990	.33678	.33143	.10403	.15682
#1	29.688	3.9474	.00500	2.2652	.17821	3.3598	.47453
#2	30.027	3.9749	.00466	2.2619	.17938	3.3587	.47601
#3	30.128	4.0090	.00487	2.2765	.17864	3.3533	.47540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049904 Acquired: 3/30/2011 0:11:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.9613**	F **160.26**	F **-23164.**	**.00942**	**.00841**	**1.9498**	**.03050**
Stddev	30.351	.44	32.	.00129	.00049	.0060	.00025
%RSD	338.68	.27725	.13980	13.641	5.8062	.30930	.80527
#1	-8.4957	160.52	-23127.	.00947	.00799	1.9473	.03078
#2	-8.6274	160.51	-23184.	.01068	.00829	1.9567	.03042
#3	44.007	159.75	-23181.	.00811	.00895	1.9455	.03032
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.54919**	**.16204**	**.00563**	**.35217**	**3.5825**	**.09608**
Stddev	.00182	.00025	.00095	.00080	.0017	.00065
%RSD	.33173	.15430	16.906	.22703	.04679	.67753
#1	.54751	.16204	.00519	.35205	3.5843	.09548
#2	.54892	.16229	.00672	.35143	3.5824	.09598
#3	.55112	.16179	.00497	.35302	3.5809	.09677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48482.**	**48699.**
Stddev	58.	209.
%RSD	.12041	.42876
#1	48427.	48811.
#2	48477.	48828.
#3	48543.	48458.

Approved: March 30, 2011

Sample Name: L1103049905 Acquired: 3/30/2011 0:15:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00855**	**159.93**	**.13871**	**.11273**	**2.2176**	**.01397**	**129.60**
Stddev	.00051	1.01	.00060	.00133	.0067	.00007	.39
%RSD	5.9926	.63229	.42909	1.1790	.30283	.52733	.30257
#1	.00884	159.18	.13920	.11203	2.2113	.01390	129.43
#2	.00795	161.08	.13805	.11426	2.2247	.01405	130.05
#3	.00884	159.54	.13889	.11189	2.2170	.01397	129.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08719**	**.13577**	**.20586**	**.82113**	**193.47**	**26.406**	**.12515**
Stddev	.00027	.00039	.00086	.00089	.27	.072	.00061
%RSD	.30921	.28838	.41942	.10793	.13841	.27199	.48972
#1	.08733	.13604	.20661	.82172	193.17	26.366	.12512
#2	.08688	.13532	.20606	.82157	193.68	26.489	.12578
#3	.08737	.13596	.20492	.82011	193.56	26.364	.12456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**31.970**	**5.5190**	**.00786**	**1.8642**	**.22960**	**5.6392**	**1.4731**
Stddev	.069	.0126	.00023	.0047	.00098	.0025	.0124
%RSD	.21596	.22748	2.9818	.25278	.42486	.04485	.84247
#1	31.991	5.5158	.00813	1.8672	.23071	5.6376	1.4873
#2	31.893	5.5328	.00773	1.8666	.22888	5.6379	1.4670
#3	32.026	5.5083	.00773	1.8587	.22921	5.6421	1.4649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049905 Acquired: 3/30/2011 0:15:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.881**	F **271.97**	F **-40816.**	**.02052**	**.00938**	**2.0140**	**.04827**
Stddev	62.111	.07	168.	.00122	.00126	.0111	.00035
%RSD	138.39	.02565	.41079	5.9653	13.477	.55205	.71581
#1	18.484	271.93	-40932.	.01953	.00814	2.0234	.04864
#2	-105.66	272.05	-40623.	.02189	.00933	2.0017	.04795
#3	-47.470	271.93	-40892.	.02015	.01066	2.0168	.04821
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53018**	**.16906**	**.00847**	**.43153**	**11.612**	**.11247**
Stddev	.00181	.00096	.00055	.00086	.026	.00012
%RSD	.34184	.56751	6.4571	.19948	.22511	.10645
#1	.52967	.17006	.00784	.43054	11.641	.11237
#2	.53220	.16815	.00875	.43203	11.605	.11243
#3	.52869	.16898	.00882	.43203	11.590	.11260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47511.**	**48750.**
Stddev	48.	296.
%RSD	.10093	.60802
#1	47456.	48408.
#2	47544.	48934.
#3	47534.	48907.

Approved: March 30, 2011

Sample Name: L1103049906 Acquired: 3/30/2011 0:18:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00554**	**126.91**	**.09116**	**.07361**	**2.2603**	**.01580**	**73.539**
Stddev	.00070	.32	.00162	.00081	.0133	.00003	.250
%RSD	12.702	.25537	1.7739	1.0973	.58954	.16087	.34058
#1	.00632	126.63	.09035	.07397	2.2604	.01581	73.362
#2	.00496	127.26	.09012	.07417	2.2735	.01582	73.825
#3	.00533	126.82	.09303	.07268	2.2469	.01577	73.430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05205**	**.12233**	**.15687**	**.52449**	**139.97**	**16.497**	**.07901**
Stddev	.00019	.00028	.00049	.00029	.72	.048	.00098
%RSD	.36991	.22481	.31320	.05608	.51223	.29254	1.2383
#1	.05194	.12202	.15735	.52434	139.76	16.460	.07866
#2	.05227	.12252	.15688	.52429	140.77	16.552	.08011
#3	.05195	.12246	.15637	.52483	139.38	16.479	.07825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.574**	**4.6816**	**.00556**	**2.4606**	**.17306**	**2.1140**	**.75097**
Stddev	.133	.0303	.00026	.0124	.00011	.0067	.00119
%RSD	.54074	.64672	4.6776	.50397	.06376	.31517	.15864
#1	24.428	4.6556	.00534	2.4605	.17310	2.1083	.75013
#2	24.688	4.7149	.00585	2.4483	.17315	2.1213	.75045
#3	24.605	4.6745	.00549	2.4731	.17294	2.1124	.75233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049906 Acquired: 3/30/2011 0:18:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.285**	F **142.11**	F **-19516.**	**.01328**	**.00806**	**1.7581**	**.03338**
Stddev	37.185	.24	42.	.00239	.00126	.0029	.00052
%RSD	61.682	.16783	.21530	17.963	15.694	.16405	1.5717
#1	-19.988	141.90	-19474.	.01053	.00945	1.7548	.03304
#2	-67.593	142.06	-19558.	.01458	.00775	1.7602	.03398
#3	-93.274	142.37	-19517.	.01473	.00697	1.7594	.03311
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45203**	**.11855**	**.00596**	**.36594**	**6.5050**	**.06114**
Stddev	.00060	.00032	.00104	.00087	.0055	.00015
%RSD	.13216	.26593	17.499	.23685	.08472	.25272
#1	.45174	.11872	.00554	.36507	6.5035	.06131
#2	.45272	.11875	.00519	.36680	6.5004	.06100
#3	.45164	.11819	.00714	.36595	6.5111	.06110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48150.**	**48161.**
Stddev	74.	169.
%RSD	.15414	.35149
#1	48078.	48170.
#2	48144.	47987.
#3	48226.	48325.

Approved: March 30, 2011

Sample Name: L1103049907 Acquired: 3/30/2011 0:22:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00802**	**147.55**	**.12007**	**.10628**	**3.5599**	**.01437**	**100.53**
Stddev	.00081	1.22	.00206	.00074	.0035	.00004	.36
%RSD	10.120	.82504	1.7168	.69877	.09825	.29391	.35496
#1	.00815	148.95	.11853	.10631	3.5635	.01435	100.52
#2	.00716	146.97	.11926	.10552	3.5566	.01442	100.17
#3	.00877	146.74	.12241	.10701	3.5596	.01436	100.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13101**	**.12817**	**.20117**	**.80537**	**181.82**	**30.074**	**.12202**
Stddev	.00008	.00015	.00054	.00212	.46	.085	.00017
%RSD	.06263	.11914	.26630	.26334	.25479	.28228	.13677
#1	.13092	.12811	.20102	.80295	182.23	30.082	.12184
#2	.13106	.12835	.20177	.80691	181.32	29.986	.12217
#3	.13106	.12806	.20073	.80625	181.92	30.155	.12204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.926**	**5.0908**	**.00717**	**1.8742**	**.22684**	**9.0775**	**1.8471**
Stddev	.206	.0234	.00022	.0102	.00094	.0114	.0022
%RSD	.62634	.45966	3.1329	.54192	.41528	.12586	.12006
#1	33.062	5.0989	.00740	1.8738	.22575	9.0683	1.8493
#2	32.689	5.0645	.00716	1.8643	.22742	9.0903	1.8470
#3	33.028	5.1091	.00695	1.8845	.22735	9.0741	1.8449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049907 Acquired: 3/30/2011 0:22:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.349**	F **252.15**	F **-43691.**	**.02089**	**.00931**	**1.7998**	**.06487**
Stddev	3.126	.41	61.	.00021	.00174	.0072	.00032
%RSD	5.1804	.16300	.14018	1.0189	18.730	.40219	.48617
#1	-61.482	251.93	-43640.	.02098	.00814	1.7914	.06496
#2	-62.752	251.90	-43759.	.02064	.01131	1.8040	.06452
#3	-56.815	252.62	-43674.	.02104	.00848	1.8038	.06512
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.62671**	**.13580**	**.00690**	**.38719**	**13.430**	**.10066**
Stddev	.00193	.00022	.00121	.00153	.034	.00032
%RSD	.30863	.16124	17.574	.39526	.25069	.31907
#1	.62672	.13555	.00734	.38740	13.422	.10102
#2	.62477	.13590	.00553	.38861	13.467	.10051
#3	.62864	.13595	.00783	.38557	13.401	.10044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47783.**	**48716.**
Stddev	74.	419.
%RSD	.15476	.85914
#1	47814.	48318.
#2	47699.	49153.
#3	47836.	48678.

Approved: March 30, 2011

Sample Name: L1103049908 Acquired: 3/30/2011 0:26:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00519**	**106.58**	**.09608**	**.07022**	**2.3805**	**.01383**	**90.662**
Stddev	.00063	.52	.00081	.00056	.0104	.00007	.429
%RSD	12.096	.49043	.84090	.79156	.43568	.52678	.47328
#1	.00550	107.11	.09659	.07055	2.3721	.01378	90.400
#2	.00447	106.56	.09515	.07052	2.3921	.01392	91.157
#3	.00561	106.06	.09649	.06958	2.3773	.01380	90.428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08275**	**.13508**	**.14767**	**.50884**	**131.63**	**19.269**	**.08956**
Stddev	.00009	.00038	.00133	.00076	.70	.070	.00093
%RSD	.10403	.28462	.90066	.14934	.52826	.36353	1.0331
#1	.08280	.13467	.14689	.50936	131.11	19.235	.09024
#2	.08279	.13513	.14920	.50919	132.42	19.349	.08993
#3	.08265	.13544	.14692	.50797	131.35	19.222	.08851
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.294**	**4.7968**	**.00550**	**1.2571**	**.20368**	**4.4227**	**1.0478**
Stddev	.147	.0350	.00037	.0063	.00050	.0296	.0062
%RSD	.52019	.72935	6.8035	.50287	.24533	.66974	.59569
#1	28.233	4.7674	.00554	1.2541	.20311	4.3892	1.0408
#2	28.462	4.8355	.00586	1.2528	.20390	4.4456	1.0529
#3	28.187	4.7875	.00511	1.2644	.20403	4.4332	1.0497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049908 Acquired: 3/30/2011 0:26:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **70.749**	F **170.85**	F **-21948.**	**.01472**	**.00734**	**1.8888**	**.03310**
Stddev	22.164	.28	95.	.00260	.00198	.0112	.00060
%RSD	31.328	.16212	.43160	17.673	27.017	.59480	1.8278
#1	60.320	171.05	-21848.	.01172	.00904	1.8761	.03286
#2	96.204	170.97	-21960.	.01634	.00516	1.8930	.03378
#3	55.723	170.54	-22037.	.01609	.00783	1.8973	.03265
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45755**	**.10437**	**.00647**	**.33529**	**9.3428**	**.05524**
Stddev	.00141	.00051	.00088	.00203	.0207	.00012
%RSD	.30749	.48683	13.593	.60599	.22176	.21444
#1	.45716	.10481	.00581	.33437	9.3611	.05529
#2	.45911	.10447	.00612	.33762	9.3470	.05532
#3	.45639	.10382	.00747	.33389	9.3203	.05510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48165.**	**48619.**
Stddev	80.	455.
%RSD	.16652	.93650
#1	48077.	48443.
#2	48186.	48278.
#3	48233.	49136.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 0:29:48 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .44781	10.458	.43466	.52984	1.0019	.05349	9.5355
Stddev	.00245	.054	.00196	.00166	.0041	.00012	.0265
%RSD	.54729	.51665	.45149	.31417	.40790	.22677	.27773
#1	.44614	10.518	.43687	.53149	.99792	.05360	9.5111
#2	.44667	10.414	.43314	.52816	1.0017	.05336	9.5317
#3	.45062	10.441	.43396	.52986	1.0061	.05352	9.5636
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05437	.21788	.52903	.54774	3.7052	50.574	1.0291
Stddev	.00011	.00097	.00252	.00266	.0217	.117	.0023
%RSD	.19436	.44454	.47587	.48523	.58614	.23179	.22371
#1	.05449	.21899	.53192	.55078	3.6835	50.522	1.0278
#2	.05432	.21728	.52738	.54658	3.7050	50.492	1.0277
#3	.05430	.21735	.52777	.54586	3.7270	50.708	1.0317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.0927	F .43666	.99982	49.889	.52595	F -.00140	.53153
Stddev	.0151	.00080	.00053	.126	.00057	.00437	.00120
%RSD	.16606	.18383	.05328	.25210	.10824	311.62	.22650
#1	9.0874	.43626	.99936	49.980	.52638	-.00629	.53041
#2	9.1097	.43614	1.0004	49.745	.52530	-.00006	.53281
#3	9.0809	.43759	.99969	49.941	.52616	.00214	.53138
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 0:29:48 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **155.17**	**10.663**	F **28.504**	F **1.3361**	**.41437**	F **.00385**	**1.0609**
Stddev	82.08	.009	3.243	.0033	.00070	.00078	.0008
%RSD	52.898	.08173	11.377	.24412	.16976	20.212	.07672
#1	107.48	10.673	27.011	1.3392	.41493	.00402	1.0618
#2	249.95	10.657	32.225	1.3364	.41461	.00452	1.0606
#3	108.08	10.660	26.277	1.3327	.41358	.00300	1.0603
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000	1.2000		5.0000	
Range	10.000%		10.000%	10.000%		-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96472**	**.97442**	F **.55054**	**1.0701**	**1.0096**	F **.00073**
Stddev	.00197	.00203	.00160	.0026	.0003	.00006
%RSD	.20437	.20814	.29023	.23836	.03175	7.5132
#1	.96619	.97330	.55233	1.0701	1.0096	.00071
#2	.96248	.97320	.55005	1.0675	1.0099	.00080
#3	.96550	.97676	.54925	1.0726	1.0093	.00070
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value			.50000			1.0000
Range			10.000%			-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48836.**	**46034.**
Stddev	72.	195.
%RSD	.14642	.42305
#1	48753.	46216.
#2	48872.	46057.
#3	48882.	45828.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 0:33:13 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.06078**	**.00147**	**.00126**	**.00023**	**-.00001**	**.05790**
Stddev	.00087	.00232	.00024	.00009	.00013	.00002	.00547
%RSD	588.64	3.8188	16.088	7.2352	55.364	266.60	9.4472
#1	-.00087	.05868	.00173	.00132	.00023	-.00003	.05561
#2	.00081	.06038	.00126	.00116	.00010	.00000	.05395
#3	-.00038	.06327	.00142	.00130	.00035	.00001	.06414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00013**	**-.00028**	**-.00001**	**.05786**	**.28313**	**-.01094**
Stddev	.00007	.00010	.00019	.00050	.00285	.02668	.00103
%RSD	66.299	73.091	66.190	3476.0	4.9300	9.4215	9.4144
#1	-.00007	.00023	-.00015	.00032	.05716	.27060	-.01213
#2	-.00006	.00013	-.00020	-.00059	.05542	.31377	-.01037
#3	-.00018	.00004	-.00050	.00022	.06100	.26503	-.01032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00166**	**.00176**	**.00005**	**.00848**	**.00018**	**.00160**	**.00062**
Stddev	.01529	.00008	.00006	.00630	.00039	.00123	.00082
%RSD	919.13	4.6940	118.82	74.287	213.81	76.969	132.64
#1	-.00220	.00167	.00005	.01574	-.00026	.00161	-.00015
#2	.01389	.00179	.00011	.00531	.00049	.00283	.00147
#3	-.01668	.00182	-.00001	.00440	.00032	.00037	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 0:33:13 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **178.79**	F **.07415**	F **5.7895**	**-.00081**	**.00013**	**-.00060**	**-.00013**
Stddev	13.58	.05297	14.236	.00108	.00161	.00071	.00028
%RSD	7.5962	71.438	245.90	134.21	1264.2	119.45	218.34
#1	168.15	.10224	15.913	-.00164	.00195	.00014	.00000
#2	194.09	.01305	11.944	-.00120	-.00108	-.00128	.00007
#3	174.12	.10716	-10.489	.00042	-.00049	-.00065	-.00045
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00103**	**.00091**	**.00006**	**.00307**	**.00014**
Stddev	.00005	.00102	.00214	.00020	.00037	.00007
%RSD	45.750	99.241	234.77	306.08	12.170	52.369
#1	.00011	.00220	-.00085	.00021	.00349	.00011
#2	.00006	.00030	.00330	.00014	.00294	.00022
#3	.00016	.00059	.00029	-.00016	.00277	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49286.**	**45382.**
Stddev	102.	169.
%RSD	.20659	.37203
#1	49302.	45270.
#2	49379.	45576.
#3	49177.	45299.

Approved: March 30, 2011

Sample Name: PBS 04 Acquired: 3/30/2011 0:36:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**.02318**	**-.00230**	**.00088**	**.00118**	**.00000**	**.05773**
Stddev	.00048	.00312	.00073	.00029	.00008	.00001	.00013
%RSD	36.742	13.463	31.560	32.924	7.1525	503.19	.22078
#1	.00087	.02677	-.00290	.00106	.00113	.00000	.05764
#2	.00121	.02164	-.00149	.00103	.00112	.00000	.05788
#3	.00181	.02113	-.00251	.00054	.00127	.00001	.05767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.00040**	**.00012**	**-.00049**	**.01585**	**.24217**	**-.01093**
Stddev	.00008	.00002	.00031	.00041	.00050	.01649	.00046
%RSD	35.452	6.2168	248.19	82.167	3.1580	6.8101	4.2011
#1	.00033	-.00038	-.00015	-.00090	.01610	.22613	-.01064
#2	.00022	-.00039	.00006	-.00008	.01528	.25908	-.01069
#3	.00016	-.00043	.00045	-.00051	.01618	.24131	-.01146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00170**	**.00000**	**.00024**	**.03293**	**.00169**	F **-.01737**	**.00150**
Stddev	.01098	.00030	.00005	.00644	.00066	.00124	.00159
%RSD	646.57	6159.1	20.304	19.559	38.943	7.1560	105.43
#1	-.00641	.00026	.00023	.02881	.00167	-.01731	.00206
#2	-.00953	-.00032	.00030	.04035	.00236	-.01864	.00274
#3	.01085	.00007	.00020	.02962	.00105	-.01616	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: PBS 04 Acquired: 3/30/2011 0:36:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **63.241**	**.18564**	F **-18.292**	**.00208**	**.00432**	**.01462**	**.00037**
Stddev	18.959	.02981	3.425	.00102	.00035	.00103	.00018
%RSD	29.980	16.059	18.723	48.966	8.1922	7.0264	48.190
#1	44.596	.16936	-15.057	.00098	.00397	.01505	.00056
#2	62.626	.16752	-21.879	.00299	.00431	.01535	.00021
#3	82.500	.22005	-17.938	.00226	.00468	.01344	.00033
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00142**	**-.00091**	**-.00018**	**.00359**	**.00014**
Stddev	.00002	.00036	.00005	.00010	.00364	.00012
%RSD	218.90	24.947	5.1054	56.888	101.45	83.962
#1	-.00001	.00139	-.00094	-.00026	.00087	.00026
#2	.00002	.00180	-.00086	-.00006	.00773	.00015
#3	.00002	.00109	-.00094	-.00023	.00217	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47861.**	**46552.**
Stddev	186.	159.
%RSD	.38945	.34063
#1	47652.	46369.
#2	47919.	46653.
#3	48011.	46635.

Approved: March 30, 2011

Sample Name: LCSS 04 Acquired: 3/30/2011 0:40:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20842**	**.01891**	**.20574**	**.00150**	**.00320**	**-.00002**	**.07937**
Stddev	.00127	.00156	.00050	.00030	.00014	.00001	.00152
%RSD	.60818	8.2460	.24484	20.158	4.3326	94.873	1.9117
#1	.20885	.01956	.20537	.00165	.00304	-.00003	.08091
#2	.20941	.02004	.20554	.00169	.00330	.00000	.07934
#3	.20699	.01713	.20631	.00115	.00325	-.00002	.07787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02688**	**-.00049**	**.00063**	**.27229**	**.02528**	**.26059**	**-.01013**
Stddev	.00014	.00011	.00011	.00135	.00257	.02832	.00065
%RSD	.50333	21.565	16.782	.49636	10.177	10.867	6.4262
#1	.02673	-.00054	.00067	.27103	.02269	.23658	-.01022
#2	.02700	-.00057	.00051	.27372	.02533	.29182	-.00944
#3	.02691	-.00037	.00071	.27211	.02784	.25337	-.01073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.22639**	**.00018**	**.05670**	**.00192**	F **-.01781**	**.26308**
Stddev	.01324	.00108	.00004	.00435	.00005	.00196	.00144
%RSD	2069.6	.47824	21.985	7.6791	2.4699	10.992	.54565
#1	.00582	.22540	.00020	.05777	.00186	-.01929	.26157
#2	.01051	.22754	.00014	.05191	.00195	-.01559	.26325
#3	-.01441	.22622	.00021	.06042	.00194	-.01856	.26442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: LCSS 04 Acquired: 3/30/2011 0:40:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **65.461**	**.49705**	F **-83.131**	**.00203**	**.00473**	**.02595**	**.00110**
Stddev	79.705	.02783	6.136	.00092	.00082	.00060	.00030
%RSD	121.76	5.5995	7.3808	45.488	17.413	2.3252	27.670
#1	34.620	.49324	-78.398	.00175	.00542	.02546	.00075
#2	5.7848	.52659	-90.063	.00128	.00382	.02577	.00128
#3	155.98	.47132	-80.931	.00307	.00495	.02663	.00127
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00187**	**-.00193**	**-.00015**	**.00586**	**.00014**
Stddev	.00002	.00041	.00064	.00035	.00034	.00009
%RSD	82.070	21.670	33.002	236.95	5.8596	64.007
#1	.00004	.00141	-.00173	.00016	.00548	.00006
#2	.00001	.00204	-.00264	-.00053	.00595	.00013
#3	.00002	.00217	-.00142	-.00008	.00614	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47953.**	**46291.**
Stddev	5.	35.
%RSD	.01042	.07508
#1	47955.	46254.
#2	47956.	46295.
#3	47947.	46323.

Approved: March 30, 2011

Sample Name: L1103068709 Acquired: 3/30/2011 0:44:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00251**	**107.08**	**.07841**	**.08905**	**.91276**	**.00756**	**20.587**
Stddev	.00028	.45	.00064	.00092	.00247	.00001	.025
%RSD	10.970	.42462	.81659	1.0382	.27080	.13649	.12090
#1	.00280	107.16	.07899	.08805	.91193	.00755	20.604
#2	.00225	106.59	.07850	.08987	.91554	.00756	20.598
#3	.00249	107.49	.07772	.08922	.91081	.00756	20.558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00463**	**.05680**	**.21700**	**.07908**	**166.31**	**7.1087**	**.04938**
Stddev	.00003	.00027	.00076	.00099	.34	.0410	.00159
%RSD	.56841	.47523	.34808	1.2474	.20207	.57639	3.2289
#1	.00464	.05700	.21613	.07950	166.67	7.1313	.04798
#2	.00466	.05650	.21743	.07795	166.27	7.1334	.05111
#3	.00460	.05691	.21745	.07978	166.00	7.0614	.04904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.5423**	**2.1733**	**.00901**	**.32752**	**.06759**	**3.6432**	**.22355**
Stddev	.0551	.0005	.00004	.01121	.00096	.0151	.00134
%RSD	.64523	.02291	.45949	3.4228	1.4268	.41540	.59893
#1	8.6055	2.1736	.00898	.31579	.06866	3.6552	.22398
#2	8.5172	2.1734	.00905	.32864	.06678	3.6262	.22205
#3	8.5042	2.1727	.00898	.33812	.06732	3.6482	.22462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068709 Acquired: 3/30/2011 0:44:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **35.981**	F **117.83**	F **-28304.**	**.00441**	**.01121**	**2.3415**	**.00837**
Stddev	70.100	.44	113.	.00126	.00186	.0104	.00033
%RSD	194.82	.37437	.40089	28.646	16.574	.44471	3.9217
#1	51.359	118.14	-28394.	.00580	.01213	2.3374	.00830
#2	-40.531	118.02	-28176.	.00412	.01241	2.3533	.00872
#3	97.116	117.32	-28342.	.00332	.00907	2.3337	.00808
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14444**	**.29741**	**.00730**	**.38116**	**.40302**	**.06913**
Stddev	.00022	.00091	.00135	.00219	.00122	.00008
%RSD	.14980	.30578	18.445	.57365	.30291	.11708
#1	.14420	.29787	.00575	.38368	.40343	.06909
#2	.14451	.29636	.00822	.37992	.40164	.06923
#3	.14462	.29800	.00792	.37986	.40398	.06908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48110.**	**47681.**
Stddev	108.	455.
%RSD	.22392	.95479
#1	47987.	47161.
#2	48153.	47874.
#3	48189.	48008.

Approved: March 30, 2011

Sample Name: L1103068710S Acquired: 3/30/2011 0:47:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20189**	**76.762**	**.26279**	**.07826**	**.76931**	**.00625**	**20.501**
Stddev	.00061	.494	.00088	.00115	.00262	.00005	.059
%RSD	.30284	.64406	.33454	1.4636	.34095	.74430	.28825
#1	.20130	76.203	.26303	.07913	.76846	.00622	20.448
#2	.20185	76.943	.26352	.07697	.77226	.00623	20.565
#3	.20252	77.140	.26181	.07870	.76722	.00631	20.490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02952**	**.05849**	**.20357**	**.31366**	**146.07**	**5.7106**	**.02964**
Stddev	.00023	.00032	.00101	.00180	.43	.0029	.00086
%RSD	.78676	.54627	.49468	.57484	.29622	.05017	2.8985
#1	.02932	.05831	.20244	.31268	146.49	5.7084	.03008
#2	.02977	.05886	.20389	.31574	145.63	5.7139	.03020
#3	.02947	.05829	.20438	.31256	146.09	5.7096	.02865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.0390**	**2.6334**	**.00863**	**.28979**	**.05713**	**3.9841**	**.48019**
Stddev	.0580	.0040	.00010	.00555	.00067	.0079	.00083
%RSD	.82460	.15383	1.2066	1.9168	1.1666	.19814	.17300
#1	7.0710	2.6290	.00862	.29356	.05636	3.9771	.48051
#2	6.9720	2.6341	.00874	.29240	.05741	3.9825	.48082
#3	7.0741	2.6370	.00854	.28341	.05760	3.9926	.47925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068710S Acquired: 3/30/2011 0:47:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9470**	F **123.18**	F **-29477.**	**.00566**	**.00866**	**2.6382**	**.00768**
Stddev	68.522	.01	9.	.00185	.00101	.0034	.00037
%RSD	3519.3	.00977	.02929	32.685	11.669	.13073	4.8248
#1	-42.139	123.20	-29483.	.00771	.00792	2.6361	.00733
#2	-32.911	123.17	-29467.	.00514	.00825	2.6422	.00807
#3	80.890	123.18	-29481.	.00412	.00981	2.6363	.00764
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13652**	**.32665**	**.00683**	**.35305**	**.43334**	**.05199**
Stddev	.00053	.00074	.00074	.00096	.00100	.00037
%RSD	.38626	.22804	10.857	.27150	.23084	.70976
#1	.13601	.32625	.00768	.35200	.43413	.05163
#2	.13706	.32751	.00653	.35387	.43222	.05237
#3	.13651	.32619	.00629	.35328	.43367	.05198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47792.**	**47560.**
Stddev	15.	523.
%RSD	.03096	1.1002
#1	47779.	47199.
#2	47788.	48160.
#3	47808.	47320.

Approved: March 30, 2011

Sample Name: L1103068711SD Acquired: 3/30/2011 0:51:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20087**	**72.561**	**.26631**	**.07509**	**.79753**	**.00607**	**19.690**
Stddev	.00110	.482	.00034	.00098	.00109	.00002	.046
%RSD	.54664	.66454	.12812	1.2997	.13670	.40402	.23436
#1	.20122	73.013	.26661	.07615	.79767	.00607	19.727
#2	.20175	72.616	.26638	.07489	.79637	.00609	19.639
#3	.19964	72.054	.26594	.07422	.79854	.00604	19.705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02946**	**.07106**	**.17203**	**.32009**	**138.66**	**5.3084**	**.02434**
Stddev	.00015	.00029	.00040	.00144	.17	.0262	.00084
%RSD	.50825	.41188	.23264	.44948	.12163	.49426	3.4421
#1	.02962	.07094	.17181	.32174	138.83	5.3386	.02413
#2	.02932	.07140	.17250	.31939	138.49	5.2953	.02526
#3	.02944	.07086	.17180	.31913	138.65	5.2913	.02362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.8672**	**3.6308**	**.00932**	**.28645**	**.05619**	**4.2465**	**.52214**
Stddev	.0225	.0150	.00012	.00167	.00061	.0229	.00130
%RSD	.32794	.41406	1.3179	.58245	1.0787	.53852	.24894
#1	6.8930	3.6414	.00933	.28793	.05674	4.2727	.52346
#2	6.8568	3.6136	.00919	.28677	.05554	4.2304	.52211
#3	6.8517	3.6372	.00943	.28464	.05630	4.2365	.52086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068711SD Acquired: 3/30/2011 0:51:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.9006**	F **128.58**	F **-31528.**	**.00552**	**.00945**	**2.6078**	**.00738**
Stddev	20.024	1.01	86.	.00047	.00243	.0076	.00028
%RSD	339.36	.78223	.27287	8.5102	25.672	.29251	3.7287
#1	25.311	129.74	-31626.	.00500	.00682	2.6166	.00719
#2	-14.685	127.98	-31492.	.00591	.01159	2.6028	.00769
#3	7.0762	128.03	-31466.	.00567	.00993	2.6039	.00725
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12807**	**.31533**	**.00835**	**.33457**	**.45397**	**.05374**
Stddev	.00043	.00039	.00027	.00065	.00082	.00019
%RSD	.33614	.12477	3.1957	.19433	.18044	.34449
#1	.12828	.31542	.00832	.33501	.45391	.05360
#2	.12757	.31490	.00810	.33487	.45481	.05395
#3	.12835	.31568	.00863	.33382	.45318	.05368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47863.**	**47637.**
Stddev	168.	297.
%RSD	.35127	.62349
#1	47672.	47297.
#2	47925.	47766.
#3	47991.	47847.

Approved: March 30, 2011

Sample Name: L1103068718 Acquired: 3/30/2011 0:55:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00380**	**113.27**	**.09542**	**.11818**	**.62973**	**.00839**	**17.064**
Stddev	.00034	.46	.00058	.00104	.00436	.00005	.063
%RSD	8.8414	.40667	.60901	.87873	.69164	.63436	.36835
#1	.00343	112.83	.09575	.11704	.62476	.00845	17.002
#2	.00387	113.23	.09576	.11908	.63156	.00838	17.062
#3	.00409	113.75	.09475	.11843	.63287	.00834	17.128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00432**	**.10162**	**.29521**	**.05991**	**237.28**	**5.4710**	**.05293**
Stddev	.00009	.00067	.00235	.00123	1.97	.0339	.00077
%RSD	2.1277	.66168	.79747	2.0532	.82912	.61938	1.4633
#1	.00436	.10217	.29787	.06116	235.01	5.4334	.05353
#2	.00422	.10181	.29439	.05988	238.29	5.4992	.05205
#3	.00439	.10087	.29338	.05870	238.53	5.4805	.05319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.5722**	**2.4995**	**.01208**	**.89328**	**.06778**	**2.5779**	**.27156**
Stddev	.0549	.0217	.00012	.01189	.00109	.0187	.00291
%RSD	.83500	.86968	.96096	1.3306	1.6151	.72645	1.0725
#1	6.5094	2.4757	.01214	.90676	.06874	2.5956	.27295
#2	6.5965	2.5045	.01194	.88881	.06802	2.5800	.27352
#3	6.6108	2.5183	.01215	.88428	.06659	2.5583	.26822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068718 Acquired: 3/30/2011 0:55:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **72.786**	F **77.411**	F **-16993.**	**.00468**	**.00829**	**2.4335**	**.00901**
Stddev	45.914	.964	93.	.00088	.00204	.0286	.00037
%RSD	63.081	1.2459	.54493	18.863	24.606	1.1757	4.0735
#1	91.256	78.154	-17076.	.00569	.00597	2.4653	.00943
#2	20.513	77.759	-17010.	.00432	.00910	2.4253	.00880
#3	106.59	76.321	-16894.	.00403	.00979	2.4099	.00879
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12478**	**.28929**	**.01255**	**.50776**	**.26710**	**.08614**
Stddev	.00014	.00158	.00136	.00245	.00284	.00048
%RSD	.11553	.54517	10.877	.48239	1.0647	.55743
#1	.12485	.28756	.01412	.50941	.27036	.08669
#2	.12462	.29064	.01187	.50893	.26574	.08581
#3	.12488	.28967	.01165	.50495	.26518	.08592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47842.**	**47319.**
Stddev	200.	99.
%RSD	.41778	.20830
#1	47655.	47409.
#2	47819.	47333.
#3	48053.	47214.

Approved: March 30, 2011

Sample Name: L1103068718PS Acquired: 3/30/2011 0:58:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360286-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22685**	**109.77**	**.29750**	**1.1320**	**1.0753**	**.03430**	**20.265**
Stddev	.00116	.43	.00210	.0035	.0067	.00017	.102
%RSD	.51157	.39158	.70702	.31131	.62224	.48892	.50134
#1	.22588	110.25	.29825	1.1291	1.0692	.03411	20.155
#2	.22813	109.65	.29913	1.1359	1.0825	.03441	20.355
#3	.22654	109.41	.29513	1.1309	1.0743	.03438	20.286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03022**	**.19790**	**.52252**	**.31569**	**214.37**	**29.887**	**.57942**
Stddev	.00007	.00040	.00123	.00103	.94	.116	.00258
%RSD	.24669	.20397	.23599	.32745	.43986	.38755	.44597
#1	.03013	.19744	.52110	.31650	213.37	29.757	.57730
#2	.03026	.19813	.52319	.31604	215.24	29.980	.58230
#3	.03026	.19813	.52328	.31453	214.50	29.925	.57865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.215**	**2.4620**	**.53219**	**26.472**	**.32054**	**2.3288**	**.49162**
Stddev	.044	.0126	.00069	.059	.00087	.0045	.00186
%RSD	.43130	.50997	.13020	.22164	.27109	.19108	.37858
#1	10.165	2.4487	.53252	26.409	.32067	2.3301	.49359
#2	10.248	2.4737	.53139	26.481	.32134	2.3239	.49138
#3	10.233	2.4635	.53266	26.525	.31961	2.3325	.48989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068718PS Acquired: 3/30/2011 0:58:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360286-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **75.787**	F **74.977**	F **-15402.**	**.63818**	**.20707**	**4.8781**	**.00929**
Stddev	39.382	.308	16.	.00262	.00179	.0020	.00036
%RSD	51.965	.41050	.10209	.41041	.86468	.04017	3.9181
#1	93.164	74.753	-15419.	.63585	.20913	4.8760	.00896
#2	103.49	75.328	-15388.	.63767	.20620	4.8786	.00968
#3	30.705	74.851	-15399.	.64101	.20588	4.8798	.00922
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.60740**	**.74200**	**.26954**	**1.0060**	**.72709**	**.07806**
Stddev	.00193	.00218	.00053	.0029	.00256	.00035
%RSD	.31857	.29420	.19723	.28901	.35246	.44346
#1	.60543	.74033	.26966	1.0027	.72518	.07845
#2	.60930	.74447	.27001	1.0083	.73000	.07794
#3	.60746	.74120	.26896	1.0071	.72608	.07779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47714.**	**47453.**
Stddev	78.	117.
%RSD	.16372	.24603
#1	47642.	47342.
#2	47704.	47442.
#3	47797.	47575.

Approved: March 30, 2011

Sample Name: L1103068718SDL Acquired: 3/30/2011 1:02:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360286-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**23.041**	**.02168**	**.02598**	**.12209**	**.00168**	**3.4240**
Stddev	.00014	.080	.00107	.00054	.00102	.00002	.0211
%RSD	10.859	.34888	4.9287	2.0959	.83442	1.3794	.61767
#1	.00114	23.032	.02272	.02661	.12092	.00168	3.4016
#2	.00140	22.965	.02058	.02564	.12264	.00165	3.4269
#3	.00136	23.125	.02174	.02569	.12273	.00170	3.4436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.02082**	**.05754**	**.01299**	**48.139**	**1.3139**	**.00184**
Stddev	.00001	.00018	.00016	.00072	.235	.0120	.00058
%RSD	1.6935	.85474	.28626	5.5514	.48760	.90953	31.678
#1	.00074	.02064	.05736	.01322	47.879	1.3010	.00134
#2	.00076	.02084	.05760	.01218	48.202	1.3246	.00248
#3	.00074	.02099	.05767	.01357	48.335	1.3162	.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3708**	**.51355**	**.00214**	**.18695**	**.01451**	**.54807**	**.05901**
Stddev	.0110	.00715	.00014	.00704	.00015	.00307	.00076
%RSD	.79902	1.3919	6.3397	3.7668	1.0128	.56024	1.2838
#1	1.3824	.50538	.00206	.18029	.01443	.54565	.05940
#2	1.3691	.51662	.00230	.19432	.01442	.54704	.05950
#3	1.3607	.51865	.00206	.18624	.01468	.55153	.05814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068718SDL Acquired: 3/30/2011 1:02:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360286-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **105.97**	F **16.603**	F **-3614.2**	**.00075**	**.00401**	**.50336**	**.00161**
Stddev	23.23	.133	17.6	.00077	.00125	.00182	.00012
%RSD	21.924	.79933	.48776	101.75	31.099	.36171	7.2243
#1	132.79	16.477	-3594.5	.00008	.00484	.50148	.00153
#2	93.022	16.590	-3619.6	.00159	.00258	.50348	.00155
#3	92.099	16.741	-3628.5	.00059	.00462	.50512	.00174
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02494**	**.05868**	**.00433**	**.10025**	**.05826**	**.01622**
Stddev	.00025	.00123	.00022	.00039	.00049	.00014
%RSD	1.0016	2.0987	5.1725	.38661	.84966	.89291
#1	.02466	.05743	.00443	.09981	.05769	.01620
#2	.02499	.05990	.00449	.10039	.05849	.01609
#3	.02515	.05871	.00407	.10055	.05859	.01638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50814.**	**48078.**
Stddev	290.	297.
%RSD	.57155	.61771
#1	51035.	48273.
#2	50922.	48224.
#3	50485.	47736.

Approved: March 30, 2011

Sample Name: L1103068718SDL Acquired: 3/30/2011 1:05:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360286-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**4.6340**	**.00682**	**.00624**	**.02442**	**.00034**	**.69561**
Stddev	.00027	.0252	.00147	.00059	.00032	.00001	.01008
%RSD	76.006	.54458	21.565	9.3992	1.3015	2.4325	1.4485
#1	.00066	4.6614	.00667	.00561	.02419	.00035	.68967
#2	.00012	4.6117	.00837	.00635	.02429	.00033	.68992
#3	.00030	4.6290	.00543	.00676	.02478	.00035	.70725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00454**	**.01128**	**.00273**	**9.7641**	**.44229**	**-.00828**
Stddev	.00005	.00016	.00041	.00027	.0864	.02263	.00058
%RSD	179.72	3.4871	3.5933	9.9307	.88473	5.1173	7.0084
#1	.00004	.00464	.01171	.00298	9.6944	.42060	-.00779
#2	-.00003	.00462	.01090	.00244	9.7372	.46576	-.00892
#3	.00006	.00436	.01123	.00278	9.8607	.44050	-.00812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27835**	**.10447**	**.00033**	**.04539**	**.00477**	**.11816**	**.01334**
Stddev	.01366	.00095	.00011	.00171	.00319	.00019	.00039
%RSD	4.9061	.91213	34.143	3.7663	66.907	.16384	2.9483
#1	.26356	.10375	.00042	.04708	.00845	.11809	.01379
#2	.29047	.10412	.00037	.04542	.00299	.11838	.01309
#3	.28103	.10555	.00020	.04366	.00287	.11802	.01313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068718SDL Acquired: 3/30/2011 1:05:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360286-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **108.15**	**5.0788**	F **-1231.7**	**-.00173**	**.00060**	**.10488**	**-.00005**
Stddev	66.09	2.6951	786.3	.00054	.00121	.00264	.00009
%RSD	61.111	53.066	63.838	30.929	201.03	2.5158	197.22
#1	32.571	8.1907	-2139.6	-.00132	.00128	.10789	.00005
#2	136.76	3.5512	-784.80	-.00154	-.00079	.10297	-.00005
#3	155.11	3.4945	-770.67	-.00234	.00131	.10377	-.00013
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00511**	**.01243**	**.00212**	**.02015**	**.02021**	**.00210**
Stddev	.00009	.00036	.00101	.00028	.00539	.00003
%RSD	1.6814	2.9260	47.847	1.4045	26.675	1.3758
#1	.00502	.01267	.00106	.02045	.02639	.00207
#2	.00512	.01202	.00307	.01989	.01649	.00211
#3	.00519	.01262	.00222	.02010	.01774	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50287.**	**46618.**
Stddev	198.	429.
%RSD	.39385	.92116
#1	50062.	46982.
#2	50362.	46727.
#3	50436.	46144.

Approved: March 30, 2011

Sample Name: L1103068719 Acquired: 3/30/2011 1:09:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00405**	**99.199**	**.08684**	**.09898**	**.74994**	**.00770**	**17.644**
Stddev	.00056	.699	.00113	.00027	.00140	.00001	.016
%RSD	13.710	.70414	1.3052	.27273	.18604	.09399	.08838
#1	.00457	98.996	.08621	.09891	.75145	.00770	17.657
#2	.00412	99.977	.08617	.09927	.74869	.00771	17.626
#3	.00346	98.625	.08815	.09875	.74969	.00770	17.648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00500**	**.07564**	**.27930**	**.07378**	**192.92**	**5.3964**	**.04298**
Stddev	.00005	.00052	.00115	.00134	.31	.0195	.00119
%RSD	.92808	.68232	.41146	1.8145	.16049	.36178	2.7722
#1	.00501	.07616	.28025	.07448	192.84	5.3850	.04413
#2	.00495	.07563	.27802	.07463	193.26	5.3852	.04175
#3	.00505	.07513	.27964	.07224	192.65	5.4189	.04305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.9151**	**3.2700**	**.01028**	**.46112**	**.06681**	**3.5116**	**.26630**
Stddev	.0446	.0076	.00006	.00971	.00053	.0209	.00175
%RSD	.64533	.23162	.63120	2.1049	.79507	.59399	.65841
#1	6.8765	3.2633	.01026	.46236	.06739	3.5236	.26642
#2	6.9640	3.2782	.01036	.45085	.06671	3.5237	.26799
#3	6.9049	3.2684	.01023	.47014	.06634	3.4875	.26449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068719 Acquired: 3/30/2011 1:09:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.378**	F **106.11**	F **-25145.**	**.00485**	**.01020**	**2.4707**	**.00847**
Stddev	29.905	1.48	128.	.00098	.00083	.0034	.00020
%RSD	139.89	1.3982	.50793	20.283	8.1243	.13732	2.3303
#1	-2.4234	107.16	-25269.	.00373	.01105	2.4693	.00830
#2	11.613	106.76	-25152.	.00525	.00940	2.4683	.00868
#3	54.945	104.41	-25014.	.00556	.01016	2.4746	.00842
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12367**	**.30923**	**.01014**	**.46276**	**.36870**	**.06499**
Stddev	.00024	.00014	.00109	.00131	.00072	.00022
%RSD	.19781	.04469	10.738	.28304	.19504	.33380
#1	.12380	.30913	.01106	.46427	.36935	.06523
#2	.12339	.30917	.00894	.46198	.36883	.06480
#3	.12382	.30939	.01043	.46203	.36793	.06494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47045.**	**47089.**
Stddev	261.	528.
%RSD	.55505	1.1217
#1	46819.	46797.
#2	46985.	46771.
#3	47331.	47698.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 1:12:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .45572	10.546	.43273	.53723	1.0064	.05378	9.5625
Stddev	.00165	.017	.00116	.00083	.0026	.00006	.0123
%RSD	.36230	.16222	.26812	.15480	.26242	.11130	.12835
#1	.45733	10.565	.43399	.53819	1.0036	.05375	9.5484
#2	.45579	10.540	.43250	.53668	1.0088	.05384	9.5711
#3	.45403	10.532	.43171	.53683	1.0069	.05373	9.5680
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05408	.21716	.52921	.54498	3.7433	50.625	1.0383
Stddev	.00015	.00087	.00102	.00190	.0195	.081	.0020
%RSD	.26964	.40196	.19216	.34891	.52130	.16047	.19006
#1	.05425	.21816	.52980	.54704	3.7342	50.532	1.0398
#2	.05403	.21672	.52979	.54461	3.7657	50.683	1.0391
#3	.05397	.21658	.52803	.54329	3.7299	50.660	1.0361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 8.9775	F .43538	1.0128	50.468	.52793	F 3.6590	.52504
Stddev	.0574	.00190	.0020	.128	.00155	.0060	.00106
%RSD	.63899	.43528	.19710	.25407	.29376	.16276	.20250
#1	8.9146	.43320	1.0145	50.442	.52971	3.6659	.52621
#2	8.9907	.43627	1.0106	50.355	.52716	3.6562	.52413
#3	9.0270	.43666	1.0133	50.607	.52692	3.6550	.52478
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000	.50000				10.000	
Range	-10.000%	-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 1:12:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **157.28**	**10.402**	F **31.557**	F **1.3222**	**.41834**	F **1.9125**	**1.0501**
Stddev	41.52	.044	3.847	.0074	.00170	.0062	.0026
%RSD	26.402	.42540	12.192	.55896	.40584	.32598	.24619
#1	114.90	10.406	30.004	1.3307	.42026	1.9196	1.0529
#2	159.04	10.356	35.939	1.3173	.41773	1.9099	1.0478
#3	197.90	10.445	28.730	1.3187	.41703	1.9080	1.0495
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000	1.2000		5.0000	
Range	10.000%		10.000%	10.000%		-10.000%	

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97073**	**.97116**	**.54708**	**1.0848**	**1.0049**	F **.36243**
Stddev	.00177	.00221	.00189	.0021	.0027	.00049
%RSD	.18245	.22775	.34629	.19696	.26623	.13526
#1	.97110	.96919	.54927	1.0869	1.0076	.36294
#2	.96881	.97355	.54601	1.0849	1.0022	.36238
#3	.97229	.97074	.54597	1.0826	1.0048	.36197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48545.**	**46362.**
Stddev	84.	240.
%RSD	.17225	.51701
#1	48462.	46633.
#2	48629.	46275.
#3	48543.	46178.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 1:16:21 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.03616**	**.00154**	**.00119**	**-.00042**	**.00000**	**.01403**
Stddev	.00048	.00160	.00012	.00068	.00020	.00001	.00203
%RSD	93.994	4.4364	7.7682	57.263	47.210	257.59	14.452
#1	-.00104	.03800	.00141	.00197	-.00035	.00001	.01289
#2	-.00012	.03542	.00156	.00069	-.00028	.00000	.01283
#3	-.00036	.03505	.00164	.00092	-.00065	.00000	.01637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00001**	**-.00040**	**-.00023**	**.05118**	**.28610**	**-.01030**
Stddev	.00006	.00012	.00020	.00011	.00887	.02827	.00128
%RSD	60.785	1026.0	48.613	50.051	17.325	9.8798	12.460
#1	-.00017	-.00011	-.00059	-.00010	.04961	.28085	-.01014
#2	-.00006	.00001	-.00020	-.00029	.06073	.26082	-.00910
#3	-.00007	.00013	-.00042	-.00030	.04320	.31662	-.01165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02155**	**.00044**	**.00004**	**.01858**	**.00033**	**-.00197**	**.00062**
Stddev	.00862	.00027	.00012	.00546	.00061	.00234	.00124
%RSD	39.999	61.846	287.76	29.367	185.85	119.13	201.32
#1	-.01817	.00039	-.00005	.02305	.00041	-.00010	.00127
#2	-.03135	.00074	-.00001	.01250	.00090	-.00120	-.00081
#3	-.01514	.00020	.00019	.02020	-.00032	-.00460	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 1:16:21 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **153.83**	F **.01301**	F **13.289**	**-.00053**	**.00000**	**.00037**	**.00006**
Stddev	52.11	.04884	8.565	.00088	.00173	.00092	.00017
%RSD	33.874	375.42	64.451	165.03	226790.	249.88	298.38
#1	111.45	.04603	9.0880	-.00058	.00136	.00110	.00019
#2	212.01	.03608	23.144	.00037	-.00195	-.00067	.00012
#3	138.02	-.04309	7.6362	-.00138	.00060	.00067	-.00014
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00120**	**.00092**	**.00003**	**.00009**	**.00025**
Stddev	.0000	.00025	.00068	.00030	.00053	.00007
%RSD	2483.8	20.451	74.436	1164.5	616.93	27.353
#1	.00003	.00149	.00015	.00021	.00053	.00018
#2	-.00002	.00108	.00116	-.00032	.00023	.00032
#3	-.00001	.00105	.00145	.00018	-.00050	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49052.**	**45837.**
Stddev	79.	315.
%RSD	.16101	.68747
#1	48961.	46192.
#2	49099.	45729.
#3	49096.	45591.

Approved: March 30, 2011

Sample Name: L1103068720 Acquired: 3/30/2011 1:20:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00402**	**88.016**	**.08680**	**.09176**	**.68115**	**.00700**	**13.996**
Stddev	.00076	.606	.00157	.00112	.00268	.00002	.038
%RSD	18.960	.68831	1.8093	1.2190	.39402	.29411	.26800
#1	.00318	88.562	.08685	.09105	.68290	.00698	14.012
#2	.00466	88.123	.08835	.09118	.67806	.00702	13.953
#3	.00421	87.364	.08521	.09305	.68249	.00699	14.023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00449**	**.06583**	**.23584**	**.05896**	**179.26**	**4.5254**	**.03851**
Stddev	.00006	.00026	.00091	.00041	.48	.0024	.00044
%RSD	1.3812	.38838	.38785	.70206	.26648	.05353	1.1305
#1	.00444	.06563	.23532	.05858	179.33	4.5280	.03876
#2	.00447	.06573	.23531	.05890	178.76	4.5248	.03801
#3	.00456	.06612	.23690	.05940	179.71	4.5232	.03876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.5542**	**2.6931**	**.00995**	**.58520**	**.05795**	**2.5900**	**.24756**
Stddev	.0196	.0069	.00010	.00216	.00063	.0038	.00238
%RSD	.35249	.25516	.97198	.36989	1.0842	.14792	.96171
#1	5.5441	2.6929	.00989	.58555	.05723	2.5862	.24615
#2	5.5768	2.6864	.01006	.58289	.05822	2.5901	.25031
#3	5.5418	2.7001	.00990	.58718	.05840	2.5938	.24623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068720 Acquired: 3/30/2011 1:20:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-19.790**	F **63.878**	F **-14236.**	**.00542**	**.00880**	**2.3265**	**.00742**
Stddev	57.378	.475	14.	.00161	.00128	.0057	.00019
%RSD	289.93	.74368	.09602	29.695	14.602	.24551	2.5519
#1	-82.718	63.601	-14244.	.00547	.00916	2.3200	.00754
#2	29.624	63.607	-14220.	.00700	.00737	2.3307	.00752
#3	-6.2756	64.427	-14243.	.00378	.00986	2.3288	.00720
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10655**	**.28898**	**.01106**	**.42066**	**.32163**	**.05854**
Stddev	.00033	.00038	.00275	.00144	.00139	.00048
%RSD	.30966	.13179	24.861	.34321	.43099	.81339
#1	.10692	.28925	.01082	.42232	.32079	.05835
#2	.10631	.28915	.00843	.41991	.32323	.05818
#3	.10640	.28854	.01392	.41975	.32086	.05908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47712.**	**47886.**
Stddev	61.	383.
%RSD	.12806	.80058
#1	47642.	47645.
#2	47755.	47685.
#3	47738.	48328.

Approved: March 30, 2011

Sample Name: L1103068721 Acquired: 3/30/2011 1:23:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00359**	**74.680**	**.07476**	**.08004**	**.82504**	**.00700**	**21.095**
Stddev	.00035	.191	.00128	.00096	.00104	.00006	.042
%RSD	9.6543	.25566	1.7108	1.1992	.12644	.80244	.20052
#1	.00399	74.661	.07383	.08106	.82532	.00701	21.123
#2	.00336	74.499	.07622	.07989	.82590	.00694	21.115
#3	.00341	74.879	.07424	.07916	.82388	.00706	21.046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00487**	**.07066**	**.21264**	**.07041**	**148.56**	**4.9002**	**.02825**
Stddev	.00008	.00012	.00037	.00011	.13	.0061	.00051
%RSD	1.6699	.16900	.17266	.15958	.08905	.12513	1.8147
#1	.00481	.07068	.21264	.07036	148.71	4.8972	.02839
#2	.00484	.07077	.21227	.07054	148.46	4.9073	.02867
#3	.00497	.07053	.21300	.07033	148.51	4.8961	.02768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.1462**	**3.1170**	**.00956**	**.52021**	**.06124**	**4.5899**	**.24830**
Stddev	.0124	.0096	.00015	.00303	.00017	.0104	.00208
%RSD	.17323	.30791	1.6069	.58192	.28045	.22750	.83954
#1	7.1545	3.1264	.00955	.52358	.06143	4.6019	.25070
#2	7.1320	3.1172	.00971	.51772	.06110	4.5833	.24692
#3	7.1522	3.1073	.00941	.51933	.06118	4.5844	.24728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068721 Acquired: 3/30/2011 1:23:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **19.176**	F **146.08**	F **-36304.**	**.00517**	**.01217**	**2.3236**	**.00827**
Stddev	32.195	.54	112.	.00173	.00115	.0249	.00050
%RSD	167.89	.36704	.30943	33.583	9.4623	1.0730	6.0131
#1	6.7479	146.63	-36420.	.00317	.01266	2.3466	.00860
#2	55.733	145.56	-36196.	.00632	.01086	2.3270	.00770
#3	-4.9521	146.07	-36296.	.00601	.01300	2.2971	.00851
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14421**	**.29918**	**.00831**	**.38611**	**.40245**	**.05341**
Stddev	.00061	.00128	.00086	.00050	.00154	.00014
%RSD	.42526	.42937	10.310	.13048	.38267	.26179
#1	.14463	.29885	.00897	.38663	.40099	.05325
#2	.14449	.30059	.00734	.38563	.40406	.05351
#3	.14350	.29809	.00862	.38606	.40231	.05348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47789.**	**48407.**
Stddev	58.	365.
%RSD	.12185	.75389
#1	47799.	47991.
#2	47842.	48554.
#3	47727.	48675.

Approved: March 30, 2011

Sample Name: L1103068722 Acquired: 3/30/2011 1:27:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00277**	**89.171**	**.07419**	**.08280**	**.82717**	**.00729**	**13.542**
Stddev	.00035	.205	.00089	.00021	.00081	.00004	.039
%RSD	12.753	.23039	1.2052	.25286	.09740	.52231	.28757
#1	.00308	88.934	.07455	.08297	.82680	.00732	13.502
#2	.00285	89.281	.07486	.08286	.82662	.00725	13.545
#3	.00239	89.298	.07318	.08257	.82810	.00731	13.579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00412**	**.07735**	**.24269**	**.06024**	**163.20**	**4.7010**	**.04010**
Stddev	.00006	.00027	.00112	.00012	.54	.0328	.00168
%RSD	1.5131	.34758	.46312	.20143	.32978	.69709	4.1968
#1	.00407	.07720	.24296	.06014	163.18	4.6856	.03884
#2	.00411	.07719	.24145	.06020	162.68	4.6789	.04201
#3	.00419	.07766	.24365	.06037	163.75	4.7387	.03945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.1542**	**3.0173**	**.00922**	**.93944**	**.06461**	**2.5850**	**.24624**
Stddev	.0480	.0137	.00014	.01221	.00057	.0034	.00090
%RSD	.77988	.45502	1.4815	1.2998	.88572	.13336	.36358
#1	6.1953	3.0060	.00908	.92865	.06400	2.5869	.24579
#2	6.1015	3.0132	.00936	.95269	.06469	2.5811	.24728
#3	6.1660	3.0326	.00921	.93698	.06514	2.5872	.24567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068722 Acquired: 3/30/2011 1:27:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.9484**	F **65.251**	F **-14554.**	**.00531**	**.00918**	**2.2086**	**.00764**
Stddev	15.562	.330	17.	.00177	.00163	.0028	.00018
%RSD	156.43	.50612	.11560	33.334	17.764	.12497	2.3675
#1	11.807	65.103	-14543.	.00333	.00899	2.2114	.00766
#2	24.498	65.020	-14544.	.00674	.01091	2.2085	.00745
#3	-6.4596	65.629	-14573.	.00585	.00766	2.2059	.00781
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11212**	**.28000**	**.00852**	**.39448**	**.35349**	**.05411**
Stddev	.00051	.00006	.00051	.00037	.00075	.00013
%RSD	.45243	.02270	5.9886	.09484	.21134	.24578
#1	.11154	.27992	.00875	.39440	.35290	.05423
#2	.11246	.28004	.00887	.39415	.35323	.05397
#3	.11237	.28002	.00793	.39489	.35433	.05413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47581.**	**47238.**
Stddev	61.	303.
%RSD	.12817	.64153
#1	47511.	47037.
#2	47625.	47586.
#3	47607.	47090.

Approved: March 30, 2011

Sample Name: L1103068723 Acquired: 3/30/2011 1:30:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00429**	**86.001**	**.10127**	**.10542**	**1.5605**	**.01031**	**26.435**
Stddev	.00106	.515	.00208	.00013	.0006	.00004	.041
%RSD	24.673	.59836	2.0497	.12283	.04043	.36778	.15572
#1	.00536	85.555	.10271	.10528	1.5611	.01029	26.410
#2	.00429	85.884	.09889	.10553	1.5599	.01029	26.482
#3	.00324	86.564	.10221	.10546	1.5605	.01036	26.412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00515**	**.06816**	**.24601**	**.08334**	**203.72**	**6.1427**	**.03009**
Stddev	.00005	.00014	.00098	.00032	.12	.0114	.00070
%RSD	.88659	.20804	.39897	.38399	.05725	.18607	2.3425
#1	.00512	.06801	.24512	.08301	203.71	6.1414	.02929
#2	.00512	.06819	.24585	.08336	203.62	6.1547	.03060
#3	.00520	.06829	.24706	.08365	203.85	6.1320	.03039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6958**	**4.1685**	**.01162**	**.89552**	**.06834**	**4.8835**	**.26795**
Stddev	.0256	.0055	.00028	.00527	.00063	.0109	.00218
%RSD	.26453	.13166	2.4333	.58819	.92795	.22395	.81458
#1	9.6721	4.1656	.01186	.90157	.06761	4.8719	.26571
#2	9.6923	4.1749	.01169	.89199	.06876	4.8850	.26805
#3	9.7231	4.1652	.01131	.89299	.06865	4.8936	.27007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068723 Acquired: 3/30/2011 1:30:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **25.154**	F **151.10**	F **-36392.**	**.00433**	**.01521**	**2.4735**	**.00809**
Stddev	58.683	.62	58.	.00188	.00065	.0042	.00052
%RSD	233.30	.40900	.15868	43.394	4.2826	.16780	6.4691
#1	-39.348	150.88	-36342.	.00229	.01595	2.4776	.00757
#2	39.421	150.63	-36378.	.00474	.01493	2.4734	.00808
#3	75.387	151.80	-36455.	.00598	.01474	2.4693	.00862
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19571**	**.27374**	**.01226**	**.50076**	**.49779**	**.08309**
Stddev	.00034	.00097	.00116	.00117	.00223	.00043
%RSD	.17174	.35604	9.4774	.23296	.44746	.51697
#1	.19580	.27262	.01336	.50160	.49533	.08282
#2	.19599	.27443	.01236	.49943	.49969	.08287
#3	.19534	.27416	.01105	.50125	.49834	.08359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47702.**	**47301.**
Stddev	97.	205.
%RSD	.20409	.43435
#1	47653.	47133.
#2	47814.	47240.
#3	47638.	47530.

Approved: March 30, 2011

Sample Name: L1103068724 Acquired: 3/30/2011 1:34:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01194**	**100.38**	**.10669**	**.10556**	**2.7725**	**.01180**	**25.330**
Stddev	.00018	.15	.00219	.00097	.0104	.00002	.075
%RSD	1.4936	.14766	2.0483	.92342	.37480	.13795	.29760
#1	.01206	100.26	.10603	.10599	2.7845	.01181	25.385
#2	.01173	100.55	.10913	.10625	2.7660	.01180	25.362
#3	.01203	100.33	.10491	.10445	2.7670	.01178	25.244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00939**	**.30866**	**.23736**	**.08040**	**218.73**	**5.0434**	**.03839**
Stddev	.00007	.00086	.00032	.00014	1.09	.0323	.00077
%RSD	.78955	.27746	.13366	.17593	.49984	.63951	2.0045
#1	.00935	.30919	.23772	.08052	219.72	5.0527	.03891
#2	.00948	.30911	.23711	.08044	218.91	5.0699	.03875
#3	.00935	.30767	.23726	.08024	217.56	5.0075	.03751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9589**	**29.956**	**.01126**	**2.5093**	**.12339**	**2.8514**	**.39999**
Stddev	.0730	.186	.00011	.0141	.00055	.0042	.00194
%RSD	.73343	.61959	.96681	.56016	.44439	.14687	.48473
#1	9.9777	30.082	.01121	2.5128	.12276	2.8468	.39831
#2	10.021	30.044	.01138	2.5213	.12380	2.8549	.40211
#3	9.8783	29.743	.01118	2.4939	.12359	2.8525	.39955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068724 Acquired: 3/30/2011 1:34:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **53.244**	F **102.93**	F **-20999.**	**.00692**	**.02994**	**2.2033**	**.00882**
Stddev	82.440	.43	16.	.00155	.00051	.0056	.00010
%RSD	154.83	.41778	.07391	22.418	1.7190	.25483	1.1673
#1	74.808	103.03	-20982.	.00586	.02980	2.1982	.00888
#2	122.76	103.31	-21012.	.00620	.03051	2.2093	.00888
#3	-37.835	102.46	-21002.	.00870	.02951	2.2024	.00870
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21328**	**.24124**	**.00852**	**.52639**	**.45410**	**.08986**
Stddev	.00038	.00065	.00217	.00040	.00063	.00033
%RSD	.17767	.26821	25.511	.07604	.13953	.37188
#1	.21328	.24135	.00626	.52668	.45436	.09008
#2	.21365	.24182	.01059	.52593	.45456	.09003
#3	.21290	.24054	.00872	.52655	.45338	.08948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47531.**	**47750.**
Stddev	112.	667.
%RSD	.23591	1.3970
#1	47427.	47321.
#2	47517.	47411.
#3	47650.	48519.

Approved: March 30, 2011

Sample Name: L1103068725 Acquired: 3/30/2011 1:38:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**79.249**	**.07961**	**.08138**	**.69554**	**.00645**	**15.577**
Stddev	.00014	.251	.00237	.00056	.00238	.00002	.098
%RSD	3.7828	.31641	2.9773	.68559	.34174	.33442	.62673
#1	.00366	79.514	.08231	.08201	.69826	.00647	15.684
#2	.00392	79.015	.07865	.08120	.69455	.00643	15.557
#3	.00391	79.218	.07788	.08094	.69382	.00644	15.491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**.07421**	**.24256**	**.06615**	**158.53**	**4.8171**	**.03637**
Stddev	.00008	.00035	.00091	.00048	.49	.0106	.00012
%RSD	1.5906	.47124	.37578	.72304	.31164	.21960	.33815
#1	.00497	.07444	.24208	.06670	159.03	4.8170	.03648
#2	.00495	.07381	.24199	.06595	158.53	4.8277	.03639
#3	.00510	.07438	.24361	.06581	158.04	4.8065	.03623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.4758**	**3.2351**	**.01051**	**.43683**	**.06596**	**3.4585**	**.27229**
Stddev	.0399	.0236	.00008	.00399	.00033	.0052	.00176
%RSD	.61611	.72977	.73245	.91271	.49539	.14976	.64588
#1	6.5211	3.2594	.01052	.43863	.06589	3.4582	.27403
#2	6.4604	3.2335	.01043	.43226	.06567	3.4535	.27231
#3	6.4458	3.2123	.01058	.43960	.06631	3.4639	.27051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068725 Acquired: 3/30/2011 1:38:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **24.684**	F **102.45**	F **-24528.**	**.00533**	**.00981**	**2.2457**	**.00738**
Stddev	34.434	.68	8.	.00009	.00228	.0033	.00021
%RSD	139.50	.66638	.03400	1.6148	23.239	.14679	2.8688
#1	50.610	102.92	-24537.	.00543	.01242	2.2476	.00715
#2	37.828	101.67	-24520.	.00527	.00820	2.2419	.00756
#3	-14.386	102.76	-24528.	.00529	.00881	2.2476	.00744
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11243**	**.32876**	**.00966**	**.39688**	**.37779**	**.05795**
Stddev	.00067	.00084	.00160	.00081	.00111	.00030
%RSD	.59818	.25409	16.537	.20387	.29419	.52032
#1	.11312	.32826	.00876	.39728	.37761	.05784
#2	.11240	.32829	.01150	.39595	.37678	.05772
#3	.11177	.32972	.00871	.39741	.37898	.05829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47751.**	**47190.**
Stddev	85.	539.
%RSD	.17710	1.1414
#1	47715.	46666.
#2	47848.	47161.
#3	47691.	47742.

Approved: March 30, 2011

Sample Name: L1103068726 Acquired: 3/30/2011 1:41:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00399**	**82.951**	**.08617**	**.09770**	**.68120**	**.00763**	**14.961**
Stddev	.00098	.869	.00106	.00115	.00216	.00003	.053
%RSD	24.583	1.0474	1.2275	1.1784	.31709	.35528	.35413
#1	.00469	83.160	.08670	.09639	.67983	.00765	14.927
#2	.00443	81.997	.08686	.09858	.68008	.00760	14.934
#3	.00287	83.697	.08495	.09812	.68369	.00764	15.022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00480**	**.08574**	**.27545**	**.05864**	**196.50**	**4.1638**	**.03430**
Stddev	.00009	.00038	.00093	.00079	.39	.0184	.00035
%RSD	1.8422	.44536	.33810	1.3392	.19600	.44275	1.0152
#1	.00473	.08536	.27614	.05782	196.07	4.1696	.03416
#2	.00490	.08575	.27439	.05870	196.79	4.1786	.03403
#3	.00477	.08612	.27582	.05939	196.66	4.1431	.03469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.3108**	**3.8311**	**.01088**	**1.3357**	**.06330**	**2.2948**	**.26404**
Stddev	.0342	.0162	.00001	.0013	.00060	.0162	.00156
%RSD	.64480	.42153	.09891	.09860	.95374	.70491	.58965
#1	5.2739	3.8137	.01087	1.3346	.06261	2.2769	.26253
#2	5.3416	3.8341	.01089	1.3353	.06352	2.2993	.26397
#3	5.3168	3.8455	.01088	1.3372	.06376	2.3083	.26564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068726 Acquired: 3/30/2011 1:41:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.494**	F **56.583**	F **-11664.**	**.00621**	**.01012**	**2.2678**	**.00733**
Stddev	14.832	.362	36.	.00044	.00193	.0078	.00034
%RSD	24.120	.63997	.30456	7.0251	19.061	.34257	4.5934
#1	77.482	56.335	-11627.	.00634	.00948	2.2589	.00722
#2	48.181	56.415	-11666.	.00573	.01228	2.2716	.00705
#3	58.818	56.998	-11698.	.00657	.00859	2.2730	.00770
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11401**	**.29656**	**.01050**	**.45791**	**.32323**	**.06807**
Stddev	.00039	.00125	.00147	.00060	.00109	.00008
%RSD	.34340	.42136	14.047	.13027	.33698	.11029
#1	.11391	.29533	.01219	.45850	.32393	.06805
#2	.11368	.29782	.00976	.45730	.32197	.06800
#3	.11445	.29653	.00953	.45794	.32378	.06815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47892.**	**47443.**
Stddev	57.	232.
%RSD	.11929	.49004
#1	47842.	47466.
#2	47954.	47199.
#3	47881.	47663.

Approved: March 30, 2011

Sample Name: L1103068727 Acquired: 3/30/2011 1:45:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00352**	**72.270**	**.06890**	**.07492**	**.99705**	**.00710**	**18.206**
Stddev	.00042	.615	.00088	.00068	.00310	.00003	.039
%RSD	11.926	.85066	1.2704	.90175	.31054	.36737	.21302
#1	.00370	72.341	.06828	.07537	.99348	.00709	18.163
#2	.00304	72.845	.06990	.07415	.99897	.00708	18.237
#3	.00382	71.622	.06852	.07526	.99871	.00713	18.218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00507**	**.07028**	**.20238**	**.07730**	**140.33**	**6.4696**	**.02867**
Stddev	.00007	.00017	.00092	.00130	.62	.0278	.00137
%RSD	1.4446	.24198	.45568	1.6880	.44434	.42949	4.7836
#1	.00508	.07020	.20236	.07785	139.76	6.4379	.02863
#2	.00499	.07047	.20148	.07823	140.24	6.4894	.02733
#3	.00514	.07016	.20332	.07581	141.00	6.4816	.03007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.9815**	**3.7641**	**.00842**	**.48065**	**.06372**	**4.5850**	**.24096**
Stddev	.0599	.0198	.00012	.00298	.00029	.0216	.00182
%RSD	.85742	.52555	1.3766	.62044	.44974	.47196	.75692
#1	6.9698	3.7420	.00854	.48306	.06404	4.5935	.23910
#2	6.9283	3.7698	.00831	.47731	.06359	4.6011	.24274
#3	7.0463	3.7804	.00839	.48157	.06352	4.5604	.24104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068727 Acquired: 3/30/2011 1:45:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **54.429**	F **119.27**	F **-29044.**	**.00432**	**.00850**	**2.2936**	**.00728**
Stddev	36.844	.88	75.	.00026	.00100	.0105	.00018
%RSD	67.692	.73900	.25961	6.0148	11.726	.45597	2.5281
#1	14.430	119.91	-29098.	.00455	.00765	2.2948	.00722
#2	61.877	119.64	-29077.	.00437	.00959	2.3034	.00749
#3	86.980	118.27	-28958.	.00403	.00824	2.2826	.00714
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13097**	**.27599**	**.00776**	**.34753**	**.45093**	**.05124**
Stddev	.00024	.00055	.00142	.00005	.00047	.00014
%RSD	.18665	.20039	18.248	.01304	.10334	.26650
#1	.13090	.27612	.00857	.34752	.45116	.05138
#2	.13124	.27646	.00613	.34758	.45124	.05110
#3	.13076	.27538	.00860	.34750	.45040	.05124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47823.**	**48098.**
Stddev	137.	199.
%RSD	.28669	.41455
#1	47681.	48017.
#2	47832.	48326.
#3	47955.	47953.

Approved: March 30, 2011

Sample Name: L1103068728 Acquired: 3/30/2011 1:48:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00254**	**78.317**	**.06720**	**.06846**	**1.1231**	**.00761**	**16.195**
Stddev	.00023	.779	.00043	.00035	.0049	.00004	.035
%RSD	8.9662	.99435	.63929	.50867	.43463	.58817	.21860
#1	.00256	77.884	.06733	.06809	1.1201	.00756	16.155
#2	.00275	79.216	.06755	.06849	1.1205	.00765	16.223
#3	.00230	77.852	.06672	.06879	1.1288	.00761	16.206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00536**	**.05891**	**.18915**	**.07919**	**135.80**	**4.8846**	**.03276**
Stddev	.00008	.00027	.00034	.00058	.24	.0309	.00056
%RSD	1.4939	.46474	.17931	.73872	.17708	.63370	1.7181
#1	.00529	.05916	.18913	.07947	135.64	4.8517	.03331
#2	.00545	.05895	.18949	.07957	135.68	4.9131	.03218
#3	.00534	.05861	.18881	.07851	136.08	4.8891	.03280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.0612**	**3.3087**	**.00742**	**.99969**	**.06616**	**2.9330**	**.24640**
Stddev	.0305	.0149	.00010	.00417	.00057	.0117	.00148
%RSD	.43140	.45111	1.3733	.41695	.86741	.40032	.59998
#1	7.0522	3.2918	.00739	.99605	.06638	2.9382	.24477
#2	7.0952	3.3201	.00734	1.0042	.06658	2.9412	.24766
#3	7.0363	3.3144	.00753	.99878	.06550	2.9195	.24677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068728 Acquired: 3/30/2011 1:48:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-30.309**	F **77.029**	F **-16648.**	**.00557**	**.01025**	**2.4736**	**.00698**
Stddev	24.356	.550	33.	.00061	.00252	.0283	.00026
%RSD	80.357	.71367	.20058	11.010	24.597	1.1456	3.6714
#1	-32.465	77.230	-16657.	.00490	.01011	2.4616	.00669
#2	-4.9477	77.450	-16677.	.00611	.00780	2.5059	.00708
#3	-53.516	76.407	-16612.	.00570	.01284	2.4532	.00717
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13429**	**.27287**	**.00619**	**.33786**	**.41048**	**.05302**
Stddev	.00047	.00103	.00103	.00073	.00076	.00017
%RSD	.34988	.37810	16.696	.21556	.18573	.31344
#1	.13388	.27169	.00517	.33767	.41066	.05294
#2	.13481	.27359	.00724	.33867	.41114	.05292
#3	.13419	.27333	.00615	.33725	.40964	.05322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47482.**	**47902.**
Stddev	98.	338.
%RSD	.20681	.70597
#1	47400.	47636.
#2	47456.	47787.
#3	47591.	48282.

Approved: March 30, 2011

Sample Name: L1103068729 Acquired: 3/30/2011 1:52:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00596**	**91.334**	**.13029**	**.13034**	**1.2410**	**.01039**	**33.971**
Stddev	.00041	.477	.00091	.00145	.0023	.00002	.182
%RSD	6.8318	.52208	.70200	1.1110	.18485	.15985	.53703
#1	.00634	91.536	.12944	.13184	1.2394	.01039	33.850
#2	.00553	90.789	.13018	.12895	1.2436	.01038	33.883
#3	.00599	91.677	.13126	.13024	1.2400	.01041	34.181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00597**	**.17040**	**.30507**	**.10012**	**252.43**	**7.8209**	**.03169**
Stddev	.00007	.00085	.00117	.00032	.71	.0493	.00109
%RSD	1.1284	.49911	.38239	.31988	.28043	.63059	3.4462
#1	.00598	.16952	.30472	.09988	253.24	7.8130	.03110
#2	.00590	.17047	.30411	.10049	251.96	7.7760	.03295
#3	.00603	.17121	.30637	.10001	252.08	7.8736	.03102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.8359**	**7.2387**	**.01409**	**1.4344**	**.07643**	**8.6929**	**.34956**
Stddev	.0721	.0372	.00005	.0099	.00034	.0123	.00043
%RSD	.81548	.51337	.36552	.69282	.44862	.14177	.12182
#1	8.8895	7.2330	.01404	1.4277	.07610	8.6855	.34983
#2	8.7540	7.2047	.01409	1.4297	.07679	8.6860	.34979
#3	8.8642	7.2783	.01415	1.4459	.07641	8.7071	.34907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068729 Acquired: 3/30/2011 1:52:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.242**	F **196.59**	F **-45232.**	**.00504**	**.02321**	**2.0490**	**.00850**
Stddev	61.233	.58	89.	.00055	.00108	.0014	.00045
%RSD	263.45	.29446	.19727	10.926	4.6588	.07076	5.2449
#1	76.252	196.52	-45192.	.00532	.02216	2.0506	.00832
#2	37.259	196.05	-45170.	.00539	.02432	2.0482	.00817
#3	-43.784	197.21	-45334.	.00440	.02316	2.0481	.00900
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19082**	**.31107**	**.01320**	**.60195**	**.75797**	**.07892**
Stddev	.00143	.00096	.00078	.00053	.00094	.00023
%RSD	.75076	.31021	5.9007	.08727	.12344	.29269
#1	.18980	.31217	.01253	.60230	.75743	.07870
#2	.19020	.31040	.01406	.60134	.75743	.07890
#3	.19246	.31063	.01302	.60220	.75905	.07916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47140.**	**48049.**
Stddev	61.	534.
%RSD	.12868	1.1116
#1	47070.	47514.
#2	47175.	48582.
#3	47174.	48052.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 1:56:09 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .45796	10.491	.43489	.53457	.99730	.05416	9.4619
Stddev	.00218	.012	.00101	.00111	.00295	.00006	.0205
%RSD	.47505	.11165	.23121	.20852	.29603	.11182	.21685
#1	.45863	10.504	.43578	.53516	.99392	.05422	9.4405
#2	.45553	10.482	.43380	.53329	.99937	.05410	9.4814
#3	.45972	10.488	.43509	.53527	.99861	.05414	9.4640
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05425	.21898	.53172	.54889	3.8209	50.341	1.0308
Stddev	.00015	.00064	.00080	.00211	.0066	.181	.0015
%RSD	.27764	.29159	.15038	.38378	.17323	.36053	.14643
#1	.05425	.21885	.53248	.54812	3.8137	50.132	1.0291
#2	.05411	.21841	.53089	.54728	3.8266	50.449	1.0319
#3	.05441	.21967	.53179	.55128	3.8226	50.443	1.0313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 8.9820	F .43377	1.0041	50.197	.52742	F 3.6640	.52701
Stddev	.0427	.00215	.0008	.177	.00193	.0078	.00100
%RSD	.47563	.49517	.08399	.35189	.36668	.21428	.18960
#1	8.9495	.43150	1.0046	50.043	.52864	3.6715	.52807
#2	8.9661	.43577	1.0044	50.390	.52519	3.6558	.52609
#3	9.0304	.43402	1.0031	50.158	.52843	3.6646	.52686
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000	.50000				10.000	
Range	-10.000%	-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 1:56:09 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **137.85**	**10.637**	F **-.93477**	F **1.3228**	**.41499**	F **1.9074**	**1.0553**
Stddev	52.85	.041	11.964	.0015	.00250	.0010	.0022
%RSD	38.340	.38908	1279.8	.11029	.60192	.05242	.20743
#1	95.774	10.655	-7.9100	1.3243	.41767	1.9068	1.0545
#2	197.17	10.589	-7.7736	1.3214	.41459	1.9068	1.0537
#3	120.61	10.665	12.879	1.3227	.41272	1.9085	1.0578
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000	1.2000		5.0000	
Range	10.000%		-10.000%	10.000%		-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96155**	**.96709**	**.54837**	**1.0854**	**1.0148**	F **.36011**
Stddev	.00388	.00342	.00161	.0022	.0013	.00051
%RSD	.40333	.35413	.29277	.20641	.13174	.14129
#1	.95828	.96324	.54825	1.0861	1.0150	.36048
#2	.96583	.96982	.54683	1.0828	1.0133	.35953
#3	.96053	.96820	.55003	1.0871	1.0160	.36033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48679.**	**46480.**
Stddev	77.	282.
%RSD	.15880	.60770
#1	48725.	46693.
#2	48721.	46588.
#3	48589.	46160.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 1:59:31 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.04971**	**.00075**	**.00120**	**-.00006**	**.00000**	**.01240**
Stddev	.00031	.00132	.00099	.00036	.00006	.00002	.00103
%RSD	191.51	2.6483	132.37	30.351	108.84	17936.	8.2758
#1	.00000	.05120	.00114	.00157	-.00001	.00002	.01306
#2	.00004	.04924	.00147	.00120	-.00012	.00001	.01122
#3	-.00052	.04870	-.00038	.00084	-.00003	-.00002	.01293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00009**	**-.00049**	**-.00005**	F **.08331**	**.31417**	**-.01143**
Stddev	.00008	.00014	.00006	.00008	.00509	.03958	.00039
%RSD	54.578	153.26	11.985	157.23	6.1048	12.600	3.3810
#1	-.00021	.00021	-.00056	.00000	.08515	.35784	-.01104
#2	-.00006	.00015	-.00045	-.00001	.08721	.30404	-.01181
#3	-.00017	-.00007	-.00046	-.00015	.07756	.28064	-.01145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					.06000		
Low Limit					-.06000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01495**	**.00204**	**.00007**	**.02776**	**.00070**	**.00212**	**.00050**
Stddev	.00050	.00034	.00009	.00480	.00050	.00441	.00071
%RSD	3.3498	16.870	119.06	17.276	71.305	207.77	143.47
#1	-.01451	.00222	-.00003	.02379	.00124	-.00293	.00120
#2	-.01550	.00226	.00011	.03309	.00060	.00410	.00051
#3	-.01485	.00164	.00013	.02640	.00026	.00520	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 1:59:31 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **173.39**	F **.08862**	F **3.6588**	**.00059**	**.00033**	**.00134**	**-.00001**
Stddev	42.39	.05977	1.3381	.00098	.00236	.00022	.00028
%RSD	24.448	67.443	36.572	165.48	715.52	16.114	2530.1
#1	212.54	.09149	4.5085	-.00043	.00302	.00131	-.00032
#2	128.37	.14690	2.1164	.00152	-.00136	.00157	.00008
#3	179.26	.02747	4.3516	.00068	-.00068	.00114	.00021
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00154**	**.00091**	**.00012**	**.00401**	**.00035**
Stddev	.00006	.00017	.00088	.00008	.00095	.00011
%RSD	120.54	11.323	96.689	68.954	23.835	31.091
#1	.00012	.00158	.00004	.00020	.00507	.00046
#2	.00001	.00135	.00088	.00013	.00374	.00032
#3	.00003	.00169	.00179	.00003	.00321	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48831.**	**45499.**
Stddev	99.	332.
%RSD	.20193	.72961
#1	48940.	45173.
#2	48749.	45487.
#3	48802.	45837.

Approved: March 30, 2011

Sample Name: L1103068730 Acquired: 3/30/2011 2:03:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00548**	**149.89**	**.16632**	**.16651**	**1.7018**	**.01705**	**32.684**
Stddev	.00097	.04	.00132	.00160	.0080	.00014	.166
%RSD	17.609	.02676	.79554	.96161	.46689	.82617	.50843
#1	.00562	149.94	.16610	.16810	1.7108	.01695	32.876
#2	.00637	149.86	.16512	.16490	1.6956	.01698	32.597
#3	.00445	149.89	.16774	.16652	1.6991	.01721	32.579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00642**	**.20633**	**.38367**	**.11664**	**346.30**	**6.4099**	**.04190**
Stddev	.00003	.00023	.00251	.00049	1.60	.0162	.00101
%RSD	.46421	.11031	.65501	.41866	.46325	.25235	2.3990
#1	.00646	.20607	.38081	.11614	347.38	6.4072	.04102
#2	.00640	.20649	.38468	.11665	344.46	6.4273	.04299
#3	.00642	.20644	.38551	.11712	347.07	6.3953	.04168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.829**	**7.4877**	**.01685**	**9.3124**	**.10762**	**3.3643**	**.45837**
Stddev	.060	.0413	.00009	.0208	.00108	.0193	.00358
%RSD	.43733	.55110	.53551	.22285	1.0031	.57477	.78041
#1	13.851	7.5308	.01679	9.3290	.10823	3.3794	.46088
#2	13.761	7.4485	.01695	9.3190	.10637	3.3425	.45427
#3	13.876	7.4837	.01680	9.2891	.10825	3.3711	.45995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068730 Acquired: 3/30/2011 2:03:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **55.048**	F **113.09**	F **-21797.**	**.00817**	**.02244**	**2.2642**	**.01186**
Stddev	67.553	.60	98.	.00119	.00090	.0217	.00017
%RSD	122.72	.52933	.45155	14.537	4.0155	.96017	1.4049
#1	123.30	113.68	-21900.	.00949	.02146	2.2754	.01174
#2	53.619	112.49	-21705.	.00718	.02263	2.2781	.01179
#3	-11.779	113.10	-21785.	.00784	.02323	2.2392	.01205
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26171**	**.24009**	**.01964**	**.79929**	**.40440**	**.12283**
Stddev	.00137	.00041	.00155	.00470	.00025	.00036
%RSD	.52418	.17129	7.9014	.58756	.06247	.29401
#1	.26328	.24037	.01877	.79437	.40412	.12243
#2	.26116	.23962	.01873	.79977	.40459	.12291
#3	.26071	.24029	.02144	.80373	.40450	.12314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47087.**	**48075.**
Stddev	29.	441.
%RSD	.06193	.91701
#1	47060.	47594.
#2	47084.	48460.
#3	47118.	48172.

Approved: March 30, 2011

Sample Name: L1103068731 Acquired: 3/30/2011 2:06:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00302**	**102.48**	**.09788**	**.09422**	**1.9502**	**.01113**	**51.986**
Stddev	.00014	.93	.00118	.00103	.0052	.00003	.082
%RSD	4.4777	.90988	1.2096	1.0955	.26423	.29522	.15783
#1	.00315	102.89	.09849	.09389	1.9453	.01117	52.010
#2	.00302	103.13	.09652	.09339	1.9496	.01112	51.895
#3	.00288	101.41	.09864	.09537	1.9556	.01111	52.054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00537**	**.11802**	**.18851**	**.13093**	**174.54**	**11.315**	**.03811**
Stddev	.00003	.00023	.00032	.00059	.64	.019	.00084
%RSD	.52433	.19089	.17226	.45231	.36551	.16903	2.2054
#1	.00540	.11811	.18856	.13028	174.18	11.297	.03736
#2	.00537	.11819	.18817	.13143	174.17	11.312	.03796
#3	.00534	.11777	.18881	.13109	175.28	11.335	.03902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.233**	**4.3191**	**.01132**	**.72636**	**.09146**	**11.265**	**.29979**
Stddev	.072	.0128	.00006	.00490	.00038	.030	.00136
%RSD	.64240	.29728	.55353	.67445	.41191	.26268	.45262
#1	11.230	4.3157	.01130	.73201	.09188	11.248	.29890
#2	11.163	4.3083	.01126	.72329	.09135	11.249	.30135
#3	11.307	4.3333	.01139	.72377	.09115	11.300	.29911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068731 Acquired: 3/30/2011 2:06:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **20.936**	F **294.83**	F **-68192.**	**.00585**	**.01648**	**2.3775**	**.00993**
Stddev	25.306	.99	105.	.00133	.00054	.0066	.00034
%RSD	120.88	.33673	.15416	22.737	3.2511	.27630	3.4023
#1	46.813	293.79	-68268.	.00440	.01587	2.3736	.00963
#2	19.751	294.93	-68072.	.00702	.01666	2.3851	.00986
#3	-3.7574	295.76	-68236.	.00611	.01690	2.3738	.01029
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30841**	**.24044**	**.00701**	**.41568**	**1.0120**	**.09480**
Stddev	.00050	.00018	.00027	.00132	.0051	.00030
%RSD	.16154	.07325	3.7835	.31726	.50722	.32155
#1	.30894	.24025	.00731	.41673	1.0119	.09460
#2	.30795	.24046	.00691	.41420	1.0070	.09466
#3	.30834	.24060	.00681	.41612	1.0172	.09515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47422.**	**48792.**
Stddev	23.	131.
%RSD	.04746	.26828
#1	47396.	48660.
#2	47436.	48922.
#3	47433.	48794.

Approved: March 30, 2011

Sample Name: L1103068732 Acquired: 3/30/2011 2:10:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00508**	**135.70**	**.12874**	**.12736**	**2.7185**	**.01494**	**46.410**
Stddev	.00019	.90	.00071	.00071	.0086	.00002	.172
%RSD	3.7269	.66338	.54943	.55533	.31468	.12754	.37090
#1	.00525	135.02	.12844	.12800	2.7202	.01492	46.512
#2	.00487	136.72	.12955	.12747	2.7261	.01496	46.507
#3	.00511	135.35	.12824	.12660	2.7092	.01494	46.211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00614**	**.15645**	**.32432**	**.11569**	**261.17**	**7.4477**	**.05204**
Stddev	.00016	.00020	.00144	.00051	1.28	.0296	.00039
%RSD	2.5296	.12500	.44420	.44420	.48962	.39730	.74812
#1	.00598	.15635	.32273	.11588	262.28	7.4592	.05173
#2	.00613	.15667	.32468	.11608	261.47	7.4699	.05248
#3	.00629	.15632	.32554	.11511	259.77	7.4141	.05191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.108**	**8.5028**	**.01296**	**.94811**	**.11395**	**4.2800**	**.41224**
Stddev	.092	.0475	.00013	.00710	.00033	.0217	.00102
%RSD	.70281	.55889	.99922	.74935	.29229	.50654	.24783
#1	13.149	8.5452	.01303	.95523	.11408	4.2898	.41267
#2	13.171	8.5117	.01281	.94103	.11420	4.2951	.41298
#3	13.002	8.4514	.01304	.94808	.11357	4.2552	.41108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068732 Acquired: 3/30/2011 2:10:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-46.529**	F **151.73**	F **-29390.**	**.00501**	**.01615**	**2.3036**	**.01081**
Stddev	16.610	.63	153.	.00096	.00107	.0243	.00016
%RSD	35.698	.41544	.52186	19.083	6.6363	1.0554	1.4459
#1	-27.521	152.07	-29466.	.00606	.01731	2.3315	.01078
#2	-58.247	152.11	-29491.	.00419	.01594	2.2929	.01098
#3	-53.819	151.00	-29214.	.00478	.01520	2.2865	.01068
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.34715**	**.20110**	**.01233**	**.62032**	**.50334**	**.12057**
Stddev	.00088	.00129	.00147	.00041	.00087	.00024
%RSD	.25427	.64045	11.890	.06683	.17357	.20083
#1	.34730	.20003	.01402	.62062	.50272	.12083
#2	.34795	.20074	.01150	.62049	.50296	.12054
#3	.34621	.20253	.01146	.61985	.50434	.12035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47132.**	**48847.**
Stddev	115.	752.
%RSD	.24386	1.5396
#1	47009.	48097.
#2	47150.	48842.
#3	47236.	49601.

Approved: March 30, 2011

Sample Name: L1103068733 Acquired: 3/30/2011 2:13:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00472**	**100.51**	**.12196**	**.12351**	**1.4181**	**.01101**	**36.270**
Stddev	.00019	.31	.00277	.00043	.0026	.00005	.071
%RSD	3.9999	.30941	2.2734	.34428	.18073	.46006	.19483
#1	.00484	100.84	.11876	.12374	1.4204	.01096	36.276
#2	.00481	100.23	.12366	.12377	1.4187	.01103	36.337
#3	.00450	100.45	.12345	.12302	1.4153	.01105	36.196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00561**	**.15247**	**.31316**	**.11592**	**240.96**	**7.6199**	**.03657**
Stddev	.00006	.00134	.00092	.00207	.65	.0163	.00084
%RSD	1.0090	.87702	.29448	1.7880	.27178	.21388	2.2936
#1	.00567	.15096	.31214	.11387	240.36	7.6074	.03692
#2	.00561	.15295	.31338	.11586	240.87	7.6141	.03717
#3	.00556	.15350	.31395	.11801	241.66	7.6383	.03561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.0503**	**6.5112**	**.01409**	**1.6086**	**.08253**	**11.509**	**.34897**
Stddev	.0533	.0219	.00012	.0064	.00059	.036	.00304
%RSD	.58925	.33592	.85197	.39837	.71687	.30949	.86978
#1	8.9974	6.4860	.01396	1.6100	.08202	11.474	.34547
#2	9.0497	6.5240	.01415	1.6142	.08240	11.508	.35057
#3	9.1040	6.5238	.01417	1.6017	.08318	11.546	.35087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068733 Acquired: 3/30/2011 2:13:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.7329**	F **211.64**	F **-48788.**	**.00595**	**.02052**	**2.1029**	**.00912**
Stddev	40.505	1.95	59.	.00037	.00192	.0185	.00048
%RSD	523.80	.92351	.12143	6.2939	9.3489	.87751	5.2179
#1	-33.545	209.73	-48825.	.00634	.02012	2.0816	.00889
#2	47.418	211.56	-48719.	.00591	.02261	2.1148	.00967
#3	9.3253	213.64	-48818.	.00560	.01884	2.1123	.00880
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21343**	**.29065**	**.01366**	**.57753**	**.87411**	**.07616**
Stddev	.00046	.00037	.00054	.00092	.00212	.00048
%RSD	.21569	.12598	3.9173	.15957	.24214	.62702
#1	.21375	.29031	.01329	.57646	.87184	.07580
#2	.21364	.29060	.01428	.57808	.87447	.07670
#3	.21290	.29103	.01342	.57803	.87602	.07599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47298.**	**48569.**
Stddev	74.	121.
%RSD	.15653	.25009
#1	47378.	48679.
#2	47282.	48589.
#3	47233.	48438.

Approved: March 30, 2011

Sample Name: L1103068734 Acquired: 3/30/2011 2:17:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00364**	**125.14**	**.10810**	**.10642**	**1.7431**	**.01098**	**71.580**
Stddev	.00087	.94	.00115	.00067	.0021	.00003	.237
%RSD	24.020	.75333	1.0643	.62508	.12094	.26601	.33055
#1	.00435	126.16	.10940	.10567	1.7410	.01096	71.311
#2	.00390	124.97	.10769	.10692	1.7430	.01101	71.755
#3	.00266	124.30	.10721	.10668	1.7453	.01097	71.674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00529**	**.08784**	**.24771**	**.17985**	**196.86**	**12.538**	**.05074**
Stddev	.00022	.00032	.00098	.00111	.65	.046	.00015
%RSD	4.0695	.36683	.39507	.61537	.32774	.36831	.29854
#1	.00507	.08785	.24736	.18046	196.13	12.485	.05091
#2	.00531	.08816	.24882	.18052	197.09	12.562	.05061
#3	.00550	.08751	.24696	.17858	197.36	12.567	.05069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.763**	**4.8477**	**.01255**	**1.0453**	**.09464**	**19.887**	**.26996**
Stddev	.061	.0232	.00009	.0073	.00041	.048	.00161
%RSD	.51534	.47942	.71056	.69516	.43050	.24339	.59470
#1	11.697	4.8224	.01257	1.0389	.09511	19.877	.27091
#2	11.775	4.8680	.01263	1.0532	.09438	19.939	.27085
#3	11.817	4.8527	.01245	1.0438	.09443	19.844	.26810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068734 Acquired: 3/30/2011 2:17:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.6963**	F **313.45**	F **-65806.**	**.00639**	**.01811**	**2.2346**	**.01016**
Stddev	52.402	1.38	145.	.00148	.00122	.0145	.00026
%RSD	540.43	.44062	.22005	23.128	6.7239	.64858	2.6061
#1	66.916	313.11	-65704.	.00736	.01838	2.2357	.00986
#2	-1.8715	314.97	-65972.	.00469	.01917	2.2485	.01028
#3	-35.955	312.27	-65742.	.00713	.01678	2.2196	.01034
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.34242**	**.28535**	**.01026**	**.49302**	**1.5310**	**.07813**
Stddev	.00082	.00021	.00022	.00166	.0014	.00010
%RSD	.23819	.07433	2.1833	.33723	.09046	.12388
#1	.34154	.28540	.01051	.49130	1.5309	.07804
#2	.34315	.28554	.01012	.49462	1.5324	.07811
#3	.34256	.28512	.01013	.49312	1.5297	.07823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47498.**	**49933.**
Stddev	93.	76.
%RSD	.19666	.15278
#1	47490.	50021.
#2	47410.	49881.
#3	47596.	49898.

Approved: March 30, 2011

Sample Name: L1103068735 Acquired: 3/30/2011 2:21:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00351**	**115.19**	**.10047**	**.11178**	**2.0792**	**.01262**	**58.270**
Stddev	.00020	.89	.00057	.00013	.0101	.00005	.247
%RSD	5.7760	.77103	.56497	.11717	.48447	.42271	.42437
#1	.00336	115.79	.10010	.11166	2.0891	.01257	58.467
#2	.00374	115.60	.10112	.11192	2.0795	.01261	58.351
#3	.00343	114.17	.10018	.11176	2.0690	.01267	57.993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00576**	**.08067**	**.23667**	**.14130**	**196.12**	**8.3436**	**.04562**
Stddev	.00005	.00020	.00151	.00166	.30	.0229	.00035
%RSD	.82621	.25083	.63609	1.1748	.15297	.27452	.76850
#1	.00578	.08086	.23503	.14068	196.43	8.3701	.04527
#2	.00571	.08070	.23702	.14319	196.10	8.3312	.04561
#3	.00580	.08046	.23798	.14005	195.83	8.3296	.04597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.599**	**4.3260**	**.01151**	**1.4157**	**.10169**	**8.4095**	**.26525**
Stddev	.047	.0173	.00011	.0107	.00045	.0243	.00089
%RSD	.31993	.39959	.91700	.75584	.43817	.28879	.33712
#1	14.562	4.3395	.01140	1.4250	.10135	8.4236	.26443
#2	14.582	4.3320	.01161	1.4181	.10219	8.4235	.26621
#3	14.651	4.3065	.01151	1.4040	.10152	8.3815	.26512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068735 Acquired: 3/30/2011 2:21:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-13.307**	F **292.34**	F **-63936.**	**.00690**	**.01409**	**2.4128**	**.01029**
Stddev	24.581	1.60	131.	.00192	.00120	.0248	.00017
%RSD	184.72	.54893	.20456	27.821	8.5245	1.0283	1.6056
#1	1.0342	292.14	-64002.	.00548	.01270	2.4096	.01048
#2	.7345	294.03	-64021.	.00614	.01482	2.4390	.01019
#3	-41.690	290.84	-63785.	.00909	.01474	2.3897	.01020
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38087**	**.24076**	**.00973**	**.46723**	**.66648**	**.09851**
Stddev	.00122	.00051	.00052	.00068	.00471	.00059
%RSD	.32097	.21317	5.3920	.14491	.70615	.60308
#1	.38167	.24090	.00990	.46669	.66172	.09782
#2	.38148	.24119	.00915	.46702	.67113	.09882
#3	.37947	.24019	.01016	.46799	.66658	.09889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47599.**	**49278.**
Stddev	71.	89.
%RSD	.14848	.17996
#1	47620.	49184.
#2	47520.	49291.
#3	47656.	49360.

Approved: March 30, 2011

Sample Name: L1103068736 Acquired: 3/30/2011 2:24:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00365**	**67.000**	**.07250**	**.07274**	**.64740**	**.00618**	**16.086**
Stddev	.00013	.237	.00128	.00026	.00150	.00001	.016
%RSD	3.6699	.35353	1.7696	.35549	.23226	.11457	.09679
#1	.00380	66.945	.07394	.07245	.64567	.00618	16.095
#2	.00360	67.260	.07149	.07294	.64808	.00617	16.094
#3	.00355	66.796	.07206	.07283	.64843	.00619	16.068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00456**	**.06709**	**.19432**	**.06322**	**144.06**	**3.9350**	**.01969**
Stddev	.00002	.00033	.00070	.00059	.40	.0204	.00052
%RSD	.36527	.48628	.36059	.93537	.28061	.51891	2.6208
#1	.00454	.06735	.19469	.06386	143.61	3.9464	.02006
#2	.00456	.06720	.19476	.06269	144.19	3.9471	.01910
#3	.00457	.06672	.19351	.06313	144.39	3.9114	.01990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.6033**	**2.7653**	**.00959**	**.35669**	**.05165**	**3.3282**	**.25370**
Stddev	.0227	.0038	.00010	.00424	.00038	.0074	.00210
%RSD	.40549	.13894	.99224	1.1893	.74273	.22122	.82943
#1	5.5788	2.7609	.00948	.35929	.05202	3.3222	.25384
#2	5.6077	2.7669	.00962	.35899	.05126	3.3364	.25152
#3	5.6236	2.7680	.00966	.35180	.05166	3.3261	.25572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068736 Acquired: 3/30/2011 2:24:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **39.748**	F **108.25**	F **-25432.**	**.00662**	**.00967**	**2.1887**	**.00736**
Stddev	31.543	.60	85.	.00132	.00278	.0067	.00015
%RSD	79.357	.55858	.33520	19.904	28.757	.30776	2.0483
#1	3.5321	108.39	-25447.	.00809	.01016	2.1934	.00741
#2	54.503	108.77	-25508.	.00552	.01218	2.1917	.00747
#3	61.210	107.59	-25340.	.00627	.00668	2.1810	.00719
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10853**	**.26311**	**.00869**	**.36362**	**.33303**	**.05244**
Stddev	.00012	.00063	.00040	.00003	.00095	.00022
%RSD	.11046	.24042	4.6575	.00773	.28547	.41236
#1	.10867	.26238	.00838	.36362	.33412	.05229
#2	.10850	.26345	.00855	.36365	.33237	.05269
#3	.10844	.26349	.00915	.36359	.33261	.05234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47769.**	**47137.**
Stddev	90.	325.
%RSD	.18937	.68891
#1	47702.	46772.
#2	47732.	47247.
#3	47872.	47393.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 2:28:21 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .45620	10.385	.43678	.53210	.98760	.05394	9.4374
Stddev	.00184	.054	.00019	.00248	.00770	.00020	.0973
%RSD	.40363	.52022	.04263	.46624	.78009	.37666	1.0307
#1	.45598	10.401	.43686	.53175	.98585	.05386	9.3855
#2	.45448	10.324	.43691	.52981	.98093	.05379	9.3771
#3	.45815	10.428	.43657	.53473	.99604	.05417	9.5496
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05433	F .22035	.52836	F .55110	3.6201	50.467	1.0237
Stddev	.00026	.00094	.00297	.00226	.0374	.470	.0068
%RSD	.47714	.42535	.56225	.41049	1.0322	.93138	.66243
#1	.05431	.21999	.52827	.54966	3.6102	50.224	1.0210
#2	.05409	.21965	.52544	.54994	3.5887	50.169	1.0186
#3	.05461	.22141	.53137	.55371	3.6615	51.009	1.0314
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.20000		.50000			
Range		10.000%		10.000%			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.0564	F .42835	1.0009	50.432	.52989	F 3.6750	.52620
Stddev	.1002	.00465	.0038	.595	.00260	.0123	.00326
%RSD	1.1063	1.0845	.37828	1.1804	.49011	.33539	.61934
#1	8.9892	.42597	1.0002	50.008	.52951	3.6721	.52432
#2	9.0085	.42537	.99749	50.176	.52750	3.6644	.52432
#3	9.1716	.43370	1.0050	51.112	.53265	3.6885	.52997
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 2:28:21 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **182.18**	**10.642**	F **20.205**	F **1.3244**	**.40879**	F **1.9092**	**1.0600**
Stddev	57.45	.048	8.926	.0073	.00204	.0076	.0045
%RSD	31.536	.44996	44.177	.55435	.49953	.40095	.42050
#1	248.13	10.696	27.694	1.3189	.40652	1.9034	1.0589
#2	142.98	10.606	22.594	1.3215	.40937	1.9062	1.0562
#3	155.43	10.624	10.328	1.3327	.41049	1.9179	1.0649
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000	1.2000		5.0000	
Range	10.000%		10.000%	10.000%		-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96087**	**.96297**	F **.55267**	**1.0853**	**1.0209**	F **.35939**
Stddev	.01135	.01099	.00063	.0061	.0043	.00177
%RSD	1.1814	1.1415	.11382	.55843	.42647	.49365
#1	.95321	.95596	.55328	1.0872	1.0169	.35963
#2	.95548	.95731	.55202	1.0785	1.0203	.35751
#3	.97391	.97564	.55271	1.0902	1.0256	.36104
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value			.50000			1.0000
Range			10.000%			-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48511.**	**45445.**
Stddev	233.	379.
%RSD	.48054	.83419
#1	48569.	45605.
#2	48709.	45719.
#3	48254.	45013.

Approved: March 30, 2011

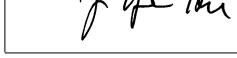
Sample Name: CCB Acquired: 3/30/2011 2:31:44 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.01946**	**.00128**	**.00147**	**-.00053**	**.00001**	**.00462**
Stddev	.00032	.00146	.00081	.00079	.00018	.00002	.00216
%RSD	120.05	7.5198	62.941	54.050	33.453	153.75	46.680
#1	-.00012	.02057	.00035	.00149	-.00040	.00003	.00263
#2	-.00004	.02002	.00175	.00066	-.00073	.00003	.00691
#3	-.00064	.01780	.00176	.00225	-.00046	-.00001	.00431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00000**	**-.00032**	**-.00010**	**.00069**	**.30791**	**-.01047**
Stddev	.00002	.0001	.00023	.00002	.00054	.02243	.00101
%RSD	42.924	5092.6	71.952	20.980	77.924	7.2858	9.6397
#1	-.00004	.00011	-.00053	-.00010	.00131	.29537	-.01070
#2	-.00002	.00002	-.00038	-.00012	.00045	.33381	-.01135
#3	-.00005	-.00013	-.00007	-.00008	.00031	.29455	-.00937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02141**	**-.00040**	**.00011**	**.02416**	**.00039**	**-.00012**	**.00035**
Stddev	.01060	.00035	.00015	.00194	.00033	.00330	.00107
%RSD	49.523	85.863	134.73	8.0496	84.611	2769.4	303.68
#1	-.01991	-.00016	.00018	.02194	.00022	.00337	.00031
#2	-.01164	-.00080	.00021	.02556	.00018	-.00054	.00144
#3	-.03269	-.00025	-.00006	.02498	.00077	-.00319	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011



Sample Name: CCB Acquired: 3/30/2011 2:31:44 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **159.88**	F **.07086**	F **4.5303**	**-.00065**	**.00010**	**.00154**	**-.00006**
Stddev	18.33	.01779	8.4634	.00092	.00046	.00136	.00016
%RSD	11.464	25.105	186.82	140.98	471.25	88.326	259.79
#1	178.78	.09038	-4.4395	-.00014	.00061	.00295	-.00006
#2	158.66	.06664	12.375	-.00010	-.00026	.00142	.00010
#3	142.19	.05556	5.6556	-.00172	-.00006	.00024	-.00022
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00124**	**.00159**	**-.00004**	**.00170**	**.00019**
Stddev	.00003	.00046	.00164	.00025	.00133	.00026
%RSD	32.570	37.552	103.28	603.92	78.555	132.92
#1	-.00006	.00169	.00158	-.00024	.00069	.00048
#2	-.00011	.00077	-.00005	.00024	.00120	.00014
#3	-.00012	.00125	.00324	-.00012	.00321	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48588.**	**45341.**
Stddev	39.	102.
%RSD	.08022	.22552
#1	48546.	45225.
#2	48624.	45381.
#3	48594.	45418.

Approved: March 30, 2011

2.1.2 Metals ICP-MS Data

2.1.2.1 Summary Data

Login Number: L11030925

Department: Metals

Analyst: Erin Long

METHOD

Preparation: SW-846 3051

Analysis: SW-846 6020

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

Low Level Check: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG360123 - Due to a suspected spiking error, the initial analysis of the post digestion spike performed on client sample 06 yielded a recovery for cadmium that was greater than the upper acceptance limit. An additional post digestion spike was performed on client sample 05 on a later calibration and met all acceptance criteria.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: WG360123 - Due to the high levels of nontarget analytes, client samples 01 through 06 were analyzed initially at dilutions for all analytes.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 24405
Approved By: Sheri Pfalzgraf

LABORATORY REPORT

L11030925

04/11/11 10:09

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA
Invoice Number: 615871
P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SWMU-57-32511-SS-FC-8'-NUM2	L11030925-01	6020	5	28-MAR-11
SWMU-57-32511-SS-4'SW-1	L11030925-02	6020	5	28-MAR-11
SWMU-57-32511-SS-7.5'SW2	L11030925-03	6020	5	28-MAR-11
SWMU-57-32511-SS-7'SW-3	L11030925-04	6020	5	28-MAR-11
SWMU-57-32611-FC-15'-NUM3	L11030925-05	6020	5	28-MAR-11
SWMU-57-32611-FC-13'-NUM4	L11030925-06	6020	5	28-MAR-11

Microbac Laboratories Inc.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	**L11030925-01**	PrePrep Method:	**NONE**	Instrument:	**ELAN-ICP**
Client ID:	**SWMU-57-32511-SS-FC-8'-NUI**	Prep Method:	**3051A**	Prep Date:	**03/28/2011 12:06**
Matrix:	**Soil**	Analytical Method:	**6020**	Cal Date:	**03/28/2011 11:38**
Workgroup Number:	**WG360123**	Analyst:	**EDL**	Run Date:	**03/28/2011 15:53**
Collect Date:	**03/25/2011 13:55**	Dilution:	**5**	File ID:	**EL.032811.155324**
Sample Tag:	**DL01**	Units:	**mg/kg**	Percent Solid:	**77.4**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	**7440-43-9**		**U**	**0.627**	**0.314**
Chromium, Total	**7440-47-3**		**U**	**2.51**	**1.25**

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	L11030925-02	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-32511-SS-4'SW-1	Prep Method:	3051A	Prep Date:	03/28/2011 12:07
Matrix:	Soil	Analytical Method:	6020	Cal Date:	03/28/2011 11:38
Workgroup Number:	WG360123	Analyst:	EDL	Run Date:	03/28/2011 16:00
Collect Date:	03/25/2011 14:00	Dilution:	5	File ID:	EL.032811.160010
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	75.3

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.649	0.324
Chromium, Total	7440-47-3	14.2		2.59	1.30

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	L11030925-03	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-32511-SS-7.5'SW2	Prep Method:	3051A	Prep Date:	03/28/2011 12:07
Matrix:	Soil	Analytical Method:	6020	Cal Date:	03/28/2011 11:38
Workgroup Number:	WG360123	Analyst:	EDL	Run Date:	03/28/2011 16:09
Collect Date:	03/25/2011 14:45	Dilution:	5	File ID:	EL.032811.160907
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	78.4

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.634	0.317
Chromium, Total	7440-47-3	29.0		2.54	1.27

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	L11030925-04	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-32511-SS-7'SW-3	Prep Method:	3051A	Prep Date:	03/28/2011 12:08
Matrix:	Soil	Analytical Method:	6020	Cal Date:	03/28/2011 11:38
Workgroup Number:	WG360123	Analyst:	EDL	Run Date:	03/28/2011 16:15
Collect Date:	03/25/2011 16:25	Dilution:	5	File ID:	EL.032811.161552
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	79.3

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.625	0.312
Chromium, Total	7440-47-3	13.1		2.50	1.25

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	L11030925-05	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-32611-FC-15'-NUM3	Prep Method:	3051A	Prep Date:	03/28/2011 12:09
Matrix:	Soil	Analytical Method:	6020	Cal Date:	03/29/2011 09:14
Workgroup Number:	WG360123	Analyst:	EDL	Run Date:	03/29/2011 14:56
Collect Date:	03/26/2011 08:45	Dilution:	5	File ID:	EL.032911.145614
Sample Tag:	DL02	Units:	mg/kg	Percent Solid:	75.2

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.657	0.329
Chromium, Total	7440-47-3	4.76		2.63	1.31

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030925**
Report Date : **April 11, 2011**

Sample Number:	L11030925-06	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-32611-FC-13'-NUM4	Prep Method:	3051A	Prep Date:	03/28/2011 12:09
Matrix:	Soil	Analytical Method:	6020	Cal Date:	03/28/2011 11:38
Workgroup Number:	WG360123	Analyst:	EDL	Run Date:	03/28/2011 16:30
Collect Date:	03/26/2011 09:20	Dilution:	5	File ID:	EL.032811.163009
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	77.8

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.636	0.318
Chromium, Total	7440-47-3	17.6		2.54	1.27

U Analyte was not detected. The concentration is below the reported LOD.

2.1.2.2 QC Summary Data

Example 6020 Calculations
Perkin Elmer ELAN 6100

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	100
Vi = Initial volume	40
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/L)	0.25

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	200
Vi = Initial volume	0.5
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/kg)	40

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	40
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	50

50 ug/kg = 0.050 mg/kg

Perkin Elmer ELAN ICP/MS

STANDARDS KEY

QC Std 1 - ICV
QC Std 2 - ICB
QC Std 3 - LLICV
QC Std 4 - ICSA
QC Std 5 - ICSAB
QC Std 6 - CCV
QC Std 7 - CCB
QC Std 8 - LLCCV

Calibration Solutions

Analyte	Stock Conc. (mg/L)	S1 (mg/L)	S2 (mg/L)	S3 (mg/L)	S4 (mg/L)
Al	10	0	0.0004	0.05	0.1
Sb	10	0	0.0004	0.05	0.1
As	10	0	0.0004	0.05	0.1
Ba	10	0	0.0004	0.05	0.1
Be	10	0	0.0004	0.05	0.1
Ca	1000	0	0.04	5	10
Cd	10	0	0.0004	0.05	0.1
Cr	10	0	0.0004	0.05	0.1
Co	10	0	0.0004	0.05	0.1
Cu	10	0	0.0004	0.05	0.1
Fe	1000	0	0.04	5	10
Pb	10	0	0.0004	0.05	0.1
Mg	1000	0	0.04	5	10
Mn	10	0	0.0004	0.05	0.1
Ni	10	0	0.0004	0.05	0.1
K	1000	0	0.04	5	10
Se	10	0	0.0004	0.05	0.1
Ag	10	0	0.0004	0.05	0.1
Na	1000	0	0.04	5	10
Tl	10	0	0.0004	0.05	0.1
V	10	0	0.0004	0.05	0.1
U	1000	0	0.0004	0.05	0.1
Zn	10	0	0.0004	0.05	0.1

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG360101
Analyst: BRG
Spike Analyst: VC
Run Date: 03/28/2011 12:15
Method: 3051A
Balance: BAL013
Instrument: MW-2

SOP: ME406 Revison 12
Spike Solution: STD41894
Spike Witness: ERP
HNO3 Lot #: COA15168
Digestion Tubes Lot #: COA15251

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG360101-02	BLANK	7	.5 g	200 mL	174.899 g	174.89 g		
2	WG360101-03	LCS	7	.5 g	200 mL	175.314 g	175.309 g	.5 mL	
3	L11030925-01	SAMP	7	.515 g	200 mL	177.657 g	177.665 g		03/29/11
4	L11030925-02	SAMP	7	.512 g	200 mL	173.977 g	173.968 g		03/29/11
5	L11030925-03	SAMP	7	.503 g	200 mL	175.22 g	175.204 g		03/29/11
6	L11030925-04	SAMP	7	.505 g	200 mL	176.094 g	176.08 g		03/29/11
7	L11030925-05	SAMP	7	.506 g	200 mL	176.132 g	176.127 g		03/29/11
8	L11030925-06	SAMP	7	.505 g	200 mL	173.77 g	173.756 g		03/29/11
9	WG360101-01	REF	7	.506 g	200 mL	174.196 g	174.193 g		
10	L11030926-01	RS01	7	.506 g	200 mL	174.196 g	174.193 g		03/31/11
11	L11030926-02	SAMP	7	.518 g	200 mL	174.223 g	174.203 g		03/31/11
12	WG360101-04	MS	7	.506 g	200 mL	175.103 g	175.084 g	.5 mL	
13	L11030926-03	MS01	7	.506 g	200 mL	175.103 g	175.084 g	.5 mL	03/31/11
14	WG360101-05	MSD	7	.506 g	200 mL	174.492 g	174.487 g	.5 mL	
15	L11030926-04	SD01	7	.506 g	200 mL	174.492 g	174.487 g	.5 mL	03/31/11
16	L11030926-05	SAMP	7	.524 g	200 mL	172.192 g	172.183 g		03/31/11
17	L11030926-06	SAMP	7	.511 g	200 mL	175.104 g	175.089 g		03/31/11

Analyst: Brenda Gregory

Reviewer: Erin Potter

MW_DIG - Modified 09/30/2009
PDF ID: 1955217
Report generated: 03/28/2011 13:10

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 032811B.REP
Analyst1: EDL Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 7
Maintenance Log ID: 36856

Calibration Std: STD44462 ICV Std: STD44275 Post Spike: STD42704
ICSA: STD44532 ICSAB: STD44533 Int. Std: STD44465
CCV: STD44343 LLCCV: STD44536

Workgroups: 359254, 359640, 359899, 360123

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.032811.111108	Blank	Blank		1		03/28/11 11:11
2	EL.032811.111752	WG360145-01	Calibration Point		1		03/28/11 11:17
3	EL.032811.112437	WG360145-02	Calibration Point		1		03/28/11 11:24
4	EL.032811.113122	WG360145-03	Calibration Point		1		03/28/11 11:31
5	EL.032811.113809	WG360145-04	Calibration Point		1		03/28/11 11:38
6	EL.032811.114454	WG360145-05	Initial Calibration Verification		1		03/28/11 11:44
7	EL.032811.115138	WG360145-06	Initial Calib Blank		1		03/28/11 11:51
8	EL.032811.115825	WG360145-07	Low Level Initial Calibration V		1		03/28/11 11:58
9	EL.032811.120514	WG360145-08	Interference Check		1		03/28/11 12:05
10	EL.032811.121202	WG360145-09	Interference Check		1		03/28/11 12:12
11	EL.032811.121850	WG360145-10	CCV		1		03/28/11 12:18
12	EL.032811.122606	WG360145-11	CCB		1		03/28/11 12:26
13	EL.032811.123250	L11030530-01	201MW02-110315	40/100	50		03/28/11 12:32
14	EL.032811.123935	WG359563-04	Method/Prep Blank	40/100	1		03/28/11 12:39
15	EL.032811.124620	WG359563-05	Laboratory Control S	40/100	1		03/28/11 12:46
16	EL.032811.125306	WG359563-01	Reference Sample		5	L11030578-01	03/28/11 12:53
17	EL.032811.125952	WG359563-06	Matrix Spike	40/100	5	L11030578-01	03/28/11 12:59
18	EL.032811.130638	WG359563-07	Matrix Spike Duplica	40/100	5	L11030578-01	03/28/11 13:06
19	EL.032811.131324	WG359563-01	Reference Sample		200	L11030578-01	03/28/11 13:13
20	EL.032811.132011	WG359563-06	Matrix Spike	40/100	200	L11030578-01	03/28/11 13:20
21	EL.032811.132658	WG359563-07	Matrix Spike Duplica	40/100	200	L11030578-01	03/28/11 13:26
22	EL.032811.133346	WG360145-12	CCV		1		03/28/11 13:33
23	EL.032811.134101	WG360145-13	CCB		1		03/28/11 13:41
24	EL.032811.134747	WG359640-03	Post Digestion Spike		5	L11030578-01	03/28/11 13:47
25	EL.032811.135435	WG359640-04	Serial Dilution		25	L11030578-01	03/28/11 13:54
26	EL.032811.140122	WG359640-03	Post Digestion Spike		200	L11030578-01	03/28/11 14:01
27	EL.032811.140808	WG360145-14	CCV		1		03/28/11 14:08
28	EL.032811.141524	WG360145-15	CCB		1		03/28/11 14:15
29	EL.032811.142444	WG359793-04	Method/Prep Blank	40/100	1		03/28/11 14:24
30	EL.032811.143129	WG359793-05	Laboratory Control S	40/100	1		03/28/11 14:31
31	EL.032811.143815	L11030744-01	OUTFALL 003	40/100	1		03/28/11 14:38
32	EL.032811.144501	WG359793-02	Reference Sample		1	L11030744-02	03/28/11 14:45
33	EL.032811.145147	WG359793-08	Matrix Spike	40/100	1	L11030744-02	03/28/11 14:51
34	EL.032811.145834	L11030790-17	RINE PAD\#1-B		1		03/28/11 14:58

Page: 1 Approved: March 29, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 032811B.REP
Analyst1: EDL Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 7
Maintenance Log ID: 36856

Calibration Std: STD44462 ICV Std: STD44275 Post Spike: STD42704
ICSA: STD44532 ICSAB: STD44533 Int. Std: STD44465
CCV: STD44343 LLCCV: STD44536

Workgroups: 359254, 359640, 359899, 360123

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	EL.032811.150521	WG359899-05	Post Digestion Spike		1	L11030744-01	03/28/11 15:05
36	EL.032811.151208	WG359899-06	Serial Dilution		5	L11030744-01	03/28/11 15:12
37	EL.032811.151855	WG360145-16	CCV		1		03/28/11 15:18
38	EL.032811.152611	WG360145-17	CCB		1		03/28/11 15:26
39	EL.032811.153258	WG360145-18	Low Level Continuing Calibra		1		03/28/11 15:32
40	EL.032811.153947	WG360101-02	Method/Prep Blank	.5/200	1		03/28/11 15:39
41	EL.032811.154635	WG360101-03	Laboratory Control S	.5/200	1		03/28/11 15:46
42	EL.032811.155324	L11030925-01	SWMU-57-32511-SS-FC-8'-N	.515/200	5		03/28/11 15:53
43	EL.032811.160010	L11030925-02	SWMU-57-32511-SS-4'SW-1	.512/200	5		03/28/11 16:00
44	EL.032811.160907	L11030925-03	SWMU-57-32511-SS-7.5'SW	.503/200	5		03/28/11 16:09
45	EL.032811.161552	L11030925-04	SWMU-57-32511-SS-7.5'SW	.505/200	5		03/28/11 16:15
46	EL.032811.162323	L11030925-05	SWMU-57-32611-FC-15'-NU	.506/200	5		03/28/11 16:23
47	EL.032811.163009	L11030925-06	SWMU-57-32611-FC-13'-NU	.505/200	5		03/28/11 16:30
48	EL.032811.163656	WG360123-01	Post Digestion Spike		5	L11030925-06	03/28/11 16:36
49	EL.032811.164343	WG360123-02	Serial Dilution		25	L11030925-06	03/28/11 16:43
50	EL.032811.165030	WG360145-19	CCV		1		03/28/11 16:50
51	EL.032811.165746	WG360145-20	CCB		1		03/28/11 16:57
52	EL.032811.170431	L11030926-01	SWMU-57-32511-SS-FC-2'-N		5	WG360101-01	03/28/11 17:04
53	EL.032811.171119	L11030926-02	SWMU-57-32511-SS-DUP	.518/200	5		03/28/11 17:11
54	EL.032811.171807	L11030926-03	SWMU-57-32511-SS-MS	.506/200	5	WG360101-04	03/28/11 17:18
55	EL.032811.172455	L11030926-04	SWMU-57-32511-SS-MSD	.506/200	5	WG360101-05	03/28/11 17:24
56	EL.032811.173144	L11030926-05	SWMU-57-32511-SS-FC-B3-	.524/200	5		03/28/11 17:31
57	EL.032811.173831	L11030926-06	SWMU-57-32611-SS-2.5' SW	.511/200	5		03/28/11 17:38
58	EL.032811.174518	WG360145-21	CCV		1		03/28/11 17:45
59	EL.032811.175233	WG360145-22	CCB		1		03/28/11 17:52

Page: 2 Approved: March 29, 2011

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 032911A.REP
Analyst1: EDL Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 7
Maintenance Log ID: 36869

Calibration Std: STD44462 ICV Std: STD44275 Post Spike: STD42704
ICSA: STD44532 ICSAB: STD44533 Int. Std: STD44465
CCV: STD44343 LLCCV: STD44536

Workgroups: 360149, 360220, 360123, 359174, 359899

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.032911.084707	Blank	Blank		1		03/29/11 08:47
2	EL.032911.085351	WG360228-01	Calibration Point		1		03/29/11 08:53
3	EL.032911.090036	WG360228-02	Calibration Point		1		03/29/11 09:00
4	EL.032911.090721	WG360228-03	Calibration Point		1		03/29/11 09:07
5	EL.032911.091407	WG360228-04	Calibration Point		1		03/29/11 09:14
6	EL.032911.092053	WG360228-05	Initial Calibration Verification		1		03/29/11 09:20
7	EL.032911.092737	WG360228-06	Initial Calib Blank		1		03/29/11 09:27
8	EL.032911.093424	WG360228-07	Low Level Initial Calibration V		1		03/29/11 09:34
9	EL.032911.094113	WG360228-08	Interference Check		1		03/29/11 09:41
10	EL.032911.094801	WG360228-09	Interference Check		1		03/29/11 09:48
11	EL.032911.095449	WG360228-10	CCV		1		03/29/11 09:54
12	EL.032911.100135	WG360228-11	CCB		1		03/29/11 10:01
13	EL.032911.100820	L11030533-01	C9-110314		5		03/29/11 10:08
14	EL.032911.101547	WG359447-02	Method/Prep Blank	.5/200	1		03/29/11 10:15
15	EL.032911.102232	WG359447-03	Laboratory Control S	.5/200	1		03/29/11 10:22
16	EL.032911.102917	L11030612-09	S-10-0.5-NS	.52/200	5		03/29/11 10:29
17	EL.032911.103602	L11030612-12	S-10-2.5-NS	.505/200	5		03/29/11 10:36
18	EL.032911.104248	L11030612-13	S-11-0.5-NS	.513/200	5		03/29/11 10:42
19	EL.032911.104933	L11030612-14	S-11-2.5-NS	.502/200	5		03/29/11 10:49
20	EL.032911.105620	L11030612-17	S-4-0.5-FD	.516/200	5		03/29/11 10:56
21	EL.032911.110306	L11030612-18	S-4-0.5-NS	.539/200	5		03/29/11 11:03
22	EL.032911.110954	WG360149-01	Post Digestion Spike		5	L11030612-18	03/29/11 11:09
23	EL.032911.111641	WG360228-12	CCV		1		03/29/11 11:16
24	EL.032911.112327	WG360228-13	CCB		1		03/29/11 11:23
25	EL.032911.113013	WG360149-02	Serial Dilution		25	L11030612-18	03/29/11 11:30
26	EL.032911.113701	L11030612-19	S-4-2.5-NS	.522/200	5		03/29/11 11:37
27	EL.032911.114347	L11030612-20	S-5-0.5-NS	.506/200	5		03/29/11 11:43
28	EL.032911.115032	WG359447-01	Reference Sample		5	L11030612-21	03/29/11 11:50
29	EL.032911.115717	WG359447-04	Matrix Spike	.524/200	5	L11030612-21	03/29/11 11:57
30	EL.032911.120403	WG359447-05	Matrix Spike Duplica	.524/200	5	L11030612-21	03/29/11 12:04
31	EL.032911.121049	L11030612-24	S-6-0.5-NS	.508/200	5		03/29/11 12:10
32	EL.032911.121736	L11030612-25	S-6-2.5-NS	.5/200	5		03/29/11 12:17
33	EL.032911.122422	L11030612-26	S-7-0.5-NS	.512/200	5		03/29/11 12:24
34	EL.032911.123109	WG360228-14	CCV		1		03/29/11 12:31

Page: 1 Approved: March 30, 2011

Esther L. Babgard

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 032911A.REP
Analyst1: EDL Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 7
Maintenance Log ID: 36869

Calibration Std: STD44462 ICV Std: STD44275 Post Spike: STD42704
ICSA: STD44532 ICSAB: STD44533 Int. Std: STD44465
CCV: STD44343 LLCCV: STD44536

Workgroups: 360149, 360220, 360123, 359174, 359899

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	EL.032911.123755	WG360228-15	CCB		1		03/29/11 12:37
36	EL.032911.124510	WG359922-02	Method/Prep Blank	.5/200	1		03/29/11 12:45
37	EL.032911.125156	WG359922-03	Laboratory Control S	.5/200	1		03/29/11 12:51
38	EL.032911.125843	L11030612-27	S-7-2.5-FD	.515/200	5		03/29/11 12:58
39	EL.032911.130530	L11030612-28	S-7-2.5-NS	.521/200	5		03/29/11 13:05
40	EL.032911.131249	WG360149-01	Post Digestion Spike		5	L11030612-18	03/29/11 13:12
41	EL.032911.131938	L11030612-29	S-8-0.5-NS	.51/200	5		03/29/11 13:19
42	EL.032911.132625	L11030612-30	S-8-2.5-NS	.526/200	5		03/29/11 13:26
43	EL.032911.133313	L11030612-31	S-9-0.5-NS	.501/200	5		03/29/11 13:33
44	EL.032911.134002	L11030612-32	S-9-2.5-NS		5		03/29/11 13:40
45	EL.032911.134650	WG360220-01	Post Digestion Spike		5	L11030612-32	03/29/11 13:46
46	EL.032911.135338	WG360228-16	CCV		1		03/29/11 13:53
47	EL.032911.140024	WG360228-17	CCB		1		03/29/11 14:00
48	EL.032911.140711	WG360220-02	Serial Dilution		25	L11030612-32	03/29/11 14:07
49	EL.032911.141400	WG359922-01	Reference Sample		5	L11030790-18	03/29/11 14:14
50	EL.032911.142050	L11030533-01	C9-110314		1		03/29/11 14:20
51	EL.032911.142803	WG359922-04	Matrix Spike	.502/200	5	L11030790-18	03/29/11 14:28
52	EL.032911.143451	WG359922-05	Matrix Spike Duplica	.502/200	5	L11030790-18	03/29/11 14:34
53	EL.032911.144241	WG360228-18	CCV		1		03/29/11 14:42
54	EL.032911.144927	WG360228-19	CCB		1		03/29/11 14:49
55	EL.032911.145614	L11030925-05	SWMU-57-32611-FC-15'-NU	.506/200	5		03/29/11 14:56
56	EL.032911.150305	WG360123-01	Post Digestion Spike		5	L11030925-05	03/29/11 15:03
57	EL.032911.150956	WG360123-02	Serial Dilution		25	L11030925-05	03/29/11 15:09
58	EL.032911.151644	L11030612-32	S-9-2.5-NS		10		03/29/11 15:16
59	EL.032911.152330	WG360220-01	Post Digestion Spike		10	L11030612-32	03/29/11 15:23
60	EL.032911.153113	L11030612-32	S-9-2.5-NS	.53/200	10		03/29/11 15:31
61	EL.032911.153803	WG360220-01	Post Digestion Spike		10	L11030612-32	03/29/11 15:38
62	EL.032911.154451	WG360228-20	CCV		1		03/29/11 15:44
63	EL.032911.155136	WG360228-21	CCB		1		03/29/11 15:51
64	EL.032911.162744	WG359134-02	Method/Prep Blank	40/100	1		03/29/11 16:27
65	EL.032911.163431	WG359134-03	Laboratory Control S	40/100	1		03/29/11 16:34
66	EL.032911.164118	WG359134-06	Filter Blank		1		03/29/11 16:41
67	EL.032911.164806	L11030436-02	HPH-WW-031011	40/100	4		03/29/11 16:48
68	EL.032911.165454	WG359134-01	Reference Sample		10	L11030464-02	03/29/11 16:54

Page: 2 Approved: March 30, 2011

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 032911A.REP
Analyst1: EDL Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 7
Maintenance Log ID: 36869

Calibration Std: STD44462 ICV Std: STD44275 Post Spike: STD42704
ICSA: STD44532 ICSAB: STD44533 Int. Std: STD44465
CCV: STD44343 LLCCV: STD44536

Workgroups: 360149, 360220, 360123, 359174, 359899

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	EL.032911.170143	WG359134-04	Matrix Spike	40/100	10	L11030464-02	03/29/11 17:01
70	EL.032911.170833	WG359134-05	Matrix Spike Duplica	40/100	10	L11030464-02	03/29/11 17:08
71	EL.032911.171522	L11030475-01	01SYS-EFF-031411	40/100	5		03/29/11 17:15
72	EL.032911.172210	WG359174-03	Post Digestion Spike		5	L11030475-01	03/29/11 17:22
73	EL.032911.172859	WG359174-04	Serial Dilution		25		03/29/11 17:28
74	EL.032911.173547	WG360228-22	CCV		1		03/29/11 17:35
75	EL.032911.174233	WG360228-23	CCB		1		03/29/11 17:42
76	EL.032911.174920	WG359793-04	Method/Prep Blank	40/100	1		03/29/11 17:49
77	EL.032911.175609	WG360228-24	Interference Check		1		03/29/11 17:56
78	EL.032911.180257	WG360228-25	Interference Check		1		03/29/11 18:02
79	EL.032911.180945	WG360228-26	CCV		1		03/29/11 18:09
80	EL.032911.181630	WG360228-27	CCB		1		03/29/11 18:16
81	EL.032911.182317	WG360228-28	Low Level Continuing Calibra		1		03/29/11 18:23
82	EL.032911.183008	WG359793-05	Laboratory Control S	40/100	1		03/29/11 18:30
83	EL.032911.183657	L11030790-17	RINE PAD\#1-B	40/100	1		03/29/11 18:36
84	EL.032911.184344	WG359899-05	Post Digestion Spike		1	L11030790-17	03/29/11 18:43
85	EL.032911.185031	WG359899-06	Serial Dilution		5	L11030790-17	03/29/11 18:50
86	EL.032911.185719	L11030744-02	OUTFALL 009		1	WG359793-02	03/29/11 18:57
87	EL.032911.190408	WG359793-08	Matrix Spike	40/100	1	L11030744-02	03/29/11 19:04
88	EL.032911.191055	WG360228-29	CCV		1		03/29/11 19:10
89	EL.032911.191741	WG360228-30	CCB		1		03/29/11 19:17
90	EL.032911.192428	WG360228-31	Low Level Continuing Calibra		1		03/29/11 19:24
91	EL.032911.193118	L11030762-01	RINE PAD\#5	.517/200	5		03/29/11 19:31
92	EL.032911.193806	L11030762-03	SOIL DUP	.5/200	5		03/29/11 19:38
93	EL.032911.194456	L11030790-03	RINE PAD\#2	.543/200	5		03/29/11 19:44
94	EL.032911.195145	L11030790-05	RINE PAD\#3	.504/200	5		03/29/11 19:51
95	EL.032911.195835	L11030790-07	RINE PAD\#4	.519/200	5		03/29/11 19:58
96	EL.032911.200526	L11030790-09	RINE PAD\#6	.537/200	5		03/29/11 20:05
97	EL.032911.201216	L11030790-11	RINE PAD NB-1	.532/200	5		03/29/11 20:12
98	EL.032911.201906	L11030790-13	RINE PAD NB-2	.514/200	5		03/29/11 20:19
99	EL.032911.202553	L11030790-15	RINE PAD NB-3	.524/200	5		03/29/11 20:25
100	EL.032911.203240	WG360228-32	CCV		1		03/29/11 20:32
101	EL.032911.203926	WG360228-33	CCB		1		03/29/11 20:39
102	EL.032911.204614	WG360228-34	Low Level Continuing Calibra		1		03/29/11 20:46

Page: 3 Approved: March 30, 2011

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 032911A.REP
Analyst1: EDL Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 7
Maintenance Log ID: 36869

Calibration Std: STD44462 ICV Std: STD44275 Post Spike: STD42704
ICSA: STD44532 ICSAB: STD44533 Int. Std: STD44465
CCV: STD44343 LLCCV: STD44536

Workgroups: 360149, 360220, 360123, 359174, 359899

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time

Comments

Seq.	Rerun	Dil.	Reason	Analytes
44			Data not used.	
45			Data not used.	
48			Data not used.	
58			Data not used.	
59			Data not used.	

Page: 4 Approved: March 30, 2011

Microbac Laboratories Inc.

Data Checklist

Date: 28-MAR-2011
Analyst: EDL
Analyst: NA
Method: 6020
Instrument: ELAN-ICP
Curve Workgroup: 360145
Runlog ID: 39701
Analytical Workgroups: 359254, 359640, 359899, 360123

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	530, 578, 700, 925, 926
Client Forms	X
Level X	
Level 3	
Level 4	530, 578, 925, 926
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	EDL
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
28-MAR-2011
Erin D. Long

Secondary Reviewer:
29-MAR-2011
Maren Berry

CHECKLIST1 - Modified 03/05/2008
Generated: MAR-29-2011 14:25:30

Microbac Laboratories Inc.

Data Checklist

Date: 29-MAR-2011
Analyst: EDL
Analyst: NA
Method: 6020
Instrument: ELAN-ICP
Curve Workgroup: 360228
Runlog ID: 39717
Analytical Workgroups: 360149, 360220, 360123, 359174, 359899

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	612, 925, 926, 762, 790, 436, 464, 475
Client Forms	X
Level X	
Level 3	612
Level 4	925, 926, 762, 790, 790, 436, 464, 475
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	EDL
Secondary Reviewer	SLP
Comments	

Primary Reviewer:
29-MAR-2011

Secondary Reviewer:
30-MAR-2011

CHECKLIST1 - Modified 03/05/2008
Generated: MAR-30-2011 10:32:05

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6020 AAB#: WG360123

Login Number: L11030925

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SWMU-57-32511-SS-FC-8'-N	01	03/25/11					03/28/11	2.9	180		03/28/11	3.1	180	
SWMU-57-32511-SS-4'SW-1	02	03/25/11					03/28/11	2.9	180		03/28/11	3.1	180	
SWMU-57-32511-SS-7.5'SW2	03	03/25/11					03/28/11	2.9	180		03/28/11	3.1	180	
SWMU-57-32511-SS-7.5'SW-	04	03/25/11					03/28/11	2.8	180		03/28/11	3	180	
SWMU-57-32611-FC-15'-NUM	05	03/26/11					03/28/11	2.1	180		03/28/11	2.3	180	
SWMU-57-32611-FC-13'-NUM	06	03/26/11					03/28/11	2.1	180		03/28/11	2.3	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1955891
Report generated 03/29/2011 08:38

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11030925
Work Group: WG360123
Blank File ID: EL.032811.153947
Blank Sample ID: WG360101-02
Prep Date: 03/28/11 12:15
Instrument ID: ELAN-ICP
Analyzed Date: 03/28/11 15:39
Method: 6020
Analyst: EDL

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG360101-03	EL.032811.154635	03/28/11 15:46	01
SWMU-57-32511-SS-FC-8'-NUM2	L11030925-01	EL.032811.155324	03/28/11 15:53	DL01
SWMU-57-32511-SS-4'SW-1	L11030925-02	EL.032811.160010	03/28/11 16:00	DL01
SWMU-57-32511-SS-7.5'SW2	L11030925-03	EL.032811.160907	03/28/11 16:09	DL01
SWMU-57-32511-SS-7.5'SW-3	L11030925-04	EL.032811.161552	03/28/11 16:15	DL01
SWMU-57-32611-FC-15'-NUM3	L11030925-05	EL.032811.162323	03/28/11 16:23	DL01
SWMU-57-32611-FC-13'-NUM4	L11030925-06	EL.032811.163009	03/28/11 16:30	DL01
SWMU-57-32611-FC-15'-NUM3	L11030925-05	EL.032911.145614	03/29/11 14:56	DL02

Report Name: BLANK_SUMMARY
PDF File ID: 1955892
Report generated 03/29/2011 15:19

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11030925 Prep Date: 03/28/11 12:15 Sample ID: WG360101-02
Instrument ID: ELAN-ICP Run Date: 03/28/11 15:39 Prep Method: 3051A
File ID: EL.032811.153947 Analyst: EDL Method: 6020
Workgroup (AAB#): WG360123 Matrix: Soil Units: mg/kg
Contract #: Cal ID: ELAN-I-28-MAR-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Cadmium, Total	0.0500	0.100	0.0500	1	U
Chromium, Total	0.200	0.400	0.200	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1955893
29-MAR-2011 08:38

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360101-03
Instrument ID: ELAN-ICP Run Time: 15:46 Prep Method: 3051A
File ID: EL.032811.154635 Analyst: EDL Method: 6020
Workgroup (AAB#): WG360123 Matrix: Soil Units: mg/kg
QC Key: DOD4 Lot#: STD41894 Cal ID: ELAN-I-28-MAR-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Cadmium, Total	10.0	9.23	92.3	80 - 120	
Chromium, Total	10.0	10.2	102	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1955894
Report generated: 03/29/2011 08:38

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L11030925 Cal ID:ELAN-ICP- Worknum:WG360123

Instrument ID:ELAN-ICP Contract #: Method:6020

Parent ID:WG360101-01 File ID:EL.032811.170431 Dil:5 Matrix:SOLID

Sample ID:WG360101-04 MS File ID:EL.032811.171807 Dil:5 Units:mg/kg

Sample ID:WG360101-05 MSD File ID:EL.032811.172455 Dil:5 Percent Solid:100

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Cadmium, Total	0.423	9.88	11.9	116	9.88	11.3	110	5.16	80 - 120	20	
Chromium, Total	11.7	9.88	27.9	164	9.88	26.8	152	4.25	80 - 120	20	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008

PDF File ID:1955895

Report generated 03/29/2011 08:38

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11030925 **Worknum:** WG360123
Instrument: ELAN-ICP **Method:** 6020
Serial Dil: WG360123-02 **File ID:** EL.032911.150956 **Dil:** 25 **Units:** ug/L
Sample: L11030925-05 **File ID:** EL.032911.145614 **Dil:** 5

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Cadmium	ND	U	ND	U		
Chromium	9.05	X	ND	U		

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 100 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1955889
03/29/2011 15:21

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11030925 **Worknum:** WG360123
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG360123-01 **File ID:** EL.032911.150305 **Dil:** 5 **Units:** ug/L
Sample ID: L11030925-05 **File ID:** EL.032911.145614 **Dil:** 5 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
CADMIUM	53.2		0	U	50	106.4	75 - 125	
CHROMIUM	52.8		1.81		50	102.0	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1955890
Report generated: 03/29/2011 15:21

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11030925**	Workgroup (AAB#):	**WG360123**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG360145**	Initial Calibration Date:	**28-MAR-2011 11:38**

	WG360145-01		WG360145-02		WG360145-03		WG360145-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
CADMIUM	0	1.31	.4	437	50	57900	100	117000	.999941	
CHROMIUM	0	7820	.4	10100	50	317000	100	620000	.99999	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 1955898
Report generated: 29-MAR-2011 15:24

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11030925**	Workgroup (AAB#):	**WG360123**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG360228**	Initial Calibration Date:	**29-MAR-2011 09:14**

	WG360228-01		WG360228-02		WG360228-03		WG360228-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
CADMIUM	0	-5.36	.4	525	50	65200	100	127000	.999984	
CHROMIUM	0	9950	.4	12600	50	362000	100	690000	.999929	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 1955898
Report generated: 29-MAR-2011 15:24

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360145-06
Instrument ID: ELAN-ICP Run Time: 11:51 Method: 6020
File ID: EL.032811.115138 Analyst: EDL Units: ug/L
Workgroup (AAB#): WG360123 Cal ID: ELAN-ICP - 28-MAR-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
CADMIUM	.125	.25	.125	U
CHROMIUM	.5	1	.5	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1955900
Report generated 03/29/2011 15:24

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11030925 Run Date: 03/29/2011 Sample ID: WG360228-06
Instrument ID: ELAN-ICP Run Time: 09:27 Method: 6020
File ID: EL.032911.092737 Analyst: EDL Units: ug/L
Workgroup (AAB#): WG360123 Cal ID: ELAN-ICP - 29-MAR-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
CADMIUM	.125	.25	.125	U
CHROMIUM	.5	1	.5	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1955900
Report generated 03/29/2011 15:24

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11030925	Run Date:	03/28/2011	Sample ID:	WG360145-11
Instrument ID:	ELAN-ICP	Run Time:	12:26	Method:	6020
File ID:	EL.032811.122606	Analyst:	EDL	Units:	ug/L
Workgroup (AAB#):	WG360123	Cal ID:	ELAN-I - 28-MAR-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1955903
Report generated 03/29/2011 15:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11030925	Run Date:	03/28/2011	Sample ID:	WG360145-17
Instrument ID:	ELAN-ICP	Run Time:	15:26	Method:	6020
File ID:	EL.032811.152611	Analyst:	EDL	Units:	ug/L
Workgroup (AAB#):	WG360123	Cal ID:	ELAN-I - 28-MAR-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1955903
Report generated 03/29/2011 15:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11030925	Run Date:	03/28/2011	Sample ID:	WG360145-20
Instrument ID:	ELAN-ICP	Run Time:	16:57	Method:	6020
File ID:	EL.032811.165746	Analyst:	EDL	Units:	ug/L
Workgroup (AAB#):	WG360123	Cal ID:	ELAN-I - 28-MAR-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1955903
Report generated 03/29/2011 15:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11030925	Run Date:	03/29/2011	Sample ID:	WG360228-11
Instrument ID:	ELAN-ICP	Run Time:	10:01	Method:	6020
File ID:	EL.032911.100135	Analyst:	EDL	Units:	ug/L
Workgroup (AAB#):	WG360123	Cal ID:	ELAN-I - 29-MAR-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1955903
Report generated 03/29/2011 15:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11030925	Run Date:	03/29/2011	Sample ID:	WG360228-19
Instrument ID:	ELAN-ICP	Run Time:	14:49	Method:	6020
File ID:	EL.032911.144927	Analyst:	EDL	Units:	ug/L
Workgroup (AAB#):	WG360123	Cal ID:	ELAN-I - 29-MAR-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1955903
Report generated 03/29/2011 15:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11030925	Run Date:	03/29/2011	Sample ID:	WG360228-21
Instrument ID:	ELAN-ICP	Run Time:	15:51	Method:	6020
File ID:	EL.032911.155136	Analyst:	EDL	Units:	ug/L
Workgroup (AAB#):	WG360123	Cal ID:	ELAN-I - 29-MAR-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1955903
Report generated 03/29/2011 15:56

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360145-05
Instrument ID: ELAN-ICP Run Time: 11:44 Method: 6020
File ID: EL.032811.114454 Analyst: EDL Units: ug/L
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 28-MAR-11
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Cadmium		50	49.9	99.9	90 - 110	
Chromium		50	50.5	101	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1955899
Report generated 03/29/2011 15:24

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L11030925 Run Date: 03/29/2011 Sample ID: WG360228-05
Instrument ID: ELAN-ICP Run Time: 09:20 Method: 6020
File ID: EL.032911.092053 Analyst: EDL Units: ug/L
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 29-MAR-11
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Cadmium		50	49.9	99.7	90 - 110	
Chromium		50	51.1	102	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1955899
Report generated 03/29/2011 15:24

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360145-10
Instrument ID: ELAN-ICP Run Time: 12:18 Method: 6020
File ID: EL.032811.121850 Analyst: EDL QC Key: DOD4
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 28-MAR-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	49.9	ug/L	99.9	90 - 110		
Chromium		50.0	49.9	ug/L	99.8	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1955902
Report generated 03/29/2011 15:56

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360145-16

Instrument ID: ELAN-ICP Run Time: 15:18 Method: 6020

File ID: EL.032811.151855 Analyst: EDL QC Key: DOD4

Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 28-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	49.7	ug/L	99.5	90 - 110		
Chromium		50.0	49.2	ug/L	98.4	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1955902

Report generated 03/29/2011 15:56

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360145-19
Instrument ID: ELAN-ICP Run Time: 16:50 Method: 6020
File ID: EL.032811.165030 Analyst: EDL QC Key: DOD4
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 28-MAR-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	52.7	ug/L	105	90 - 110		
Chromium		50.0	54.4	ug/L	109	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1955902
Report generated 03/29/2011 15:56

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030925 Run Date: 03/29/2011 Sample ID: WG360228-10
Instrument ID: ELAN-ICP Run Time: 09:54 Method: 6020
File ID: EL.032911.095449 Analyst: EDL QC Key: DOD4
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 29-MAR-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	49.7	ug/L	99.3	90 - 110		
Chromium		50.0	49.3	ug/L	98.6	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1955902
Report generated 03/29/2011 15:56

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030925 Run Date: 03/29/2011 Sample ID: WG360228-18
Instrument ID: ELAN-ICP Run Time: 14:42 Method: 6020
File ID: EL.032911.144241 Analyst: EDL QC Key: DOD4
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 29-MAR-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	49.4	ug/L	98.8	90 - 110		
Chromium		50.0	49.3	ug/L	98.5	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1955902
Report generated 03/29/2011 15:56

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030925 Run Date: 03/29/2011 Sample ID: WG360228-20
Instrument ID: ELAN-ICP Run Time: 15:44 Method: 6020
File ID: EL.032911.154451 Analyst: EDL QC Key: DOD4
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 29-MAR-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	49.7	ug/L	99.4	90 - 110		
Chromium		50.0	50.1	ug/L	100	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1955902
Report generated 03/29/2011 15:56

Microbac Laboratories Inc.
LOW LEVEL CALIBRATION VERIFICATION

Login Number: L11030925 Run Date: 03/28/2011 Sample ID: WG360145-07
Instrument ID: ELAN-ICP Run Time: 11:58 Method: 6020
File ID: EL.032811.115825 Analyst: EDL QC Key: DOD4
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 28-MAR-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		0.200	0.217	ug/L	109	80 - 120		
Chromium		0.800	0.794	ug/L	99.3	80 - 120		

* Exceeds LIMITS Criteria

LLCCV - Modified 1/7/2010
PDF File ID: 1955904
Report generated 03/29/2011 15:24

Microbac Laboratories Inc.
LOW LEVEL CALIBRATION VERIFICATION

Login Number: L11030925 Run Date: 03/29/2011 Sample ID: WG360228-07
Instrument ID: ELAN-ICP Run Time: 09:34 Method: 6020
File ID: EL.032911.093424 Analyst: EDL QC Key: DOD4
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 29-MAR-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		0.200	0.202	ug/L	101	80 - 120		
Chromium		0.800	0.774	ug/L	96.8	80 - 120		

* Exceeds LIMITS Criteria

LLCCV - Modified 1/7/2010
PDF File ID: 1955904
Report generated 03/29/2011 15:24

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11030925 **Workgroup (AAB#):** WG360123
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG360145-08 **File ID:** EL.032811.120514 **Units:** ug/L
Sol. AB : WG360145-09 **File ID:** EL.032811.121202 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Cadmium	NS	0.0322	NS	100	99.6	99.6	
Chromium	NS	-0.175	NS	100	96.6	96.6	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1955901
Report generated 03/29/2011 15:24

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11030925 **Workgroup (AAB#):** WG360123
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG360228-08 **File ID:** EL.032911.094113 **Units:** ug/L
Sol. AB : WG360228-09 **File ID:** EL.032911.094801 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Cadmium	NS	0.0234	NS	100	100	100	
Chromium	NS	-0.130	NS	100	96.2	96.2	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1955901
Report generated 03/29/2011 15:24

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L11030925 **Analytical Method:** 6020
Analytical Workgroup: WG360123 **Matrix:** 7
Instrument: ELAN-ICP **Analyst:** EDL
ICAL Date: 28-MAR-2011 11:17

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L11030925-01	SAMP	28-MAR-2011 15:53	109.392	113.082	112.898	112.762
L11030925-02	SAMP	28-MAR-2011 16:00	109.125	113.774	113.162	111.789
L11030925-03	SAMP	28-MAR-2011 16:09	105.833	113.39	111.207	110.012
L11030925-04	SAMP	28-MAR-2011 16:15	105.647	114.987	111.337	109.42
L11030925-06	SAMP	28-MAR-2011 16:30	104.74	113.939	111.765	112.478
WG360101-02	BLANK	28-MAR-2011 15:39	102.638	104.732	107.041	108.071
WG360101-03	LCS	28-MAR-2011 15:46	112.565	113.734	116.574	116.791
WG360123-01	PSPK	28-MAR-2011 16:36	103.197	114.412	110.337	110.872
WG360123-02	SERIAL	28-MAR-2011 16:43	102.621	114.08	110.961	109.387
WG360145-05	ICV	28-MAR-2011 11:44	93.909	96.876	99.448	101.419
WG360145-06	ICB	28-MAR-2011 11:51	97.39	100.01	102.519	103.661
WG360145-07	LLICV	28-MAR-2011 11:58	97.539	98.873	102.022	102.815
WG360145-08	ICS	28-MAR-2011 12:05	94.371	99.076	99.197	100.074
WG360145-09	ICS	28-MAR-2011 12:12	94.609	95.507	94.103	96.047
WG360145-10	CCV	28-MAR-2011 12:18	96.591	100.468	101.419	102.395
WG360145-11	CCB	28-MAR-2011 12:26	95.215	97.768	99.118	100.778
WG360145-16	CCV	28-MAR-2011 15:18	105.213	110.945	111.318	111.187
WG360145-17	CCB	28-MAR-2011 15:26	107.396	110.436	112.055	113.157
WG360145-19	CCV	28-MAR-2011 16:50	102.433	113.921	114.589	112.233
WG360145-20	CCB	28-MAR-2011 16:57	104.106	116.997	114.452	114.298

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1955897
Report generated: 03/29/2011 15:56

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L11030925 **Analytical Method:** 6020
Analytical Workgroup: WG360123 **Matrix:** 7
Instrument: ELAN-ICP **Analyst:** EDL
ICAL Date: 29-MAR-2011 08:53

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L11030925-05	SAMP	29-MAR-2011 14:56	98.544	95.743	91.865	97.361
WG360123-01	PSPK	29-MAR-2011 15:03	97.685	92.286	90.955	96.476
WG360123-02	SERIAL	29-MAR-2011 15:09	99.75	92.218	91.389	94.854
WG360228-05	ICV	29-MAR-2011 09:20	99.905	98.539	100.628	101.694
WG360228-06	ICB	29-MAR-2011 09:27	104.029	102.926	104.14	104.978
WG360228-07	LLICV	29-MAR-2011 09:34	101.824	101.382	104.172	102.327
WG360228-08	ICS	29-MAR-2011 09:41	99.833	98.703	98.211	99.285
WG360228-09	ICS	29-MAR-2011 09:48	101.632	98.763	97.058	97.861
WG360228-10	CCV	29-MAR-2011 09:54	100.428	99.111	99.866	100.605
WG360228-11	CCB	29-MAR-2011 10:01	103.033	100.09	102.446	102.549
WG360228-18	CCV	29-MAR-2011 14:42	102.49	93.25	92.388	95.66
WG360228-19	CCB	29-MAR-2011 14:49	100.596	94.396	94.164	96.42
WG360228-20	CCV	29-MAR-2011 15:44	97.598	93.349	92.78	94.703
WG360228-21	CCB	29-MAR-2011 15:51	99.612	93.762	94.169	95.864

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1955897
Report generated: 03/29/2011 15:56

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L11030925 **Date:** 12/07/2010
Insturment ID: ELAN-ICP **Method:** 6020

Analyte	Integration Time (Sec.)	Concentration (ug/L)
Antimony	1.00	100.0
Arsenic	1.00	100.0
Barium	1.00	100.0
Cadmium	1.00	100.0
Chromium	1.00	100.0
Cobalt	1.00	100.0
Copper	1.00	100.0
Lead	1.00	100.0
Manganese	1.00	100.0
Nickel	1.00	100.0
Selenium	1.00	100.0
Silver	1.00	100.0
Thallium	1.00	100.0
Uranium	1.00	100.0
Vanadium	1.00	100.0
Zinc	1.00	100.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

2.1.2.3 Raw Data

Instrument Tuning Report

File Name: 06302008.tun
File Path: C:\Elandata\Tuning\06302008.tun

Sample Information

Sample Date/Time: Monday, March 28, 2011 08:10:07

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	619	2060	0.765	
Li	7.016	7.029	1586	2060	0.717	
Co	58.933	58.928	14278	1990	0.671	
Ce	139.905	139.829	33975	2025	0.690	
Tl	204.975	204.976	49689	2255	0.700	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.507
3.000	0.648
4.000	24.732
5.000	19.265
6.000	1.015
7.000	1.701
8.000	15.704
9.000	2.225
58.000	0.443
59.000	0.960
60.000	12.001
139.000	1.896
140.000	0.943
141.000	14.557
204.000	0.960
205.000	1.042
206.000	1.089

Report Date/Time: Monday, March 28, 2011 08:11:19
Page 1

Approved: March 29, 2011

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, March 28, 2011 08:16:04
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\elandata\Dataset\032211\Sample.509
Tuning File: C:\Elandata\Tuning\06302008.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	48496.8	48496.814	162.704	0.3
	Rh	102.9	220611.1	220611.138	783.593	0.4
	In	114.9	488532.0	488531.958	2935.610	0.6
	Pb	208.0	187413.7	187413.694	1626.796	0.9
	U	238.1	22.4	22.400	2.510	11.2
⌈>	Ba	137.9	266874.0	266873.999	2109.812	0.8
⌊	Ba++	69.0	3998.6	0.015	0.000	1.9
⌈>	Ce	139.9	269808.9	269808.920	830.600	0.3
⌊	CeO	155.9	5496.3	0.020	0.000	2.0
	Bkgd	220.0	17.0	17.000	3.518	20.7
	Ar2	79.9	4693270.2	4693270.166	12098.179	0.3

Current Optimization File Data

Current Value	Description
0.97	Nebulizer Gas Flow
6.40	Lens Voltage
1500.00	ICP RF Power
-1862.50	Analog Stage Voltage
1000.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	5.3	3999.5
Co	59	33	6.0	120809.0
Rh	103	33	6.8	174421.7
Pb	208	33	7.8	173459.1

Sample ID: Sample
Report Date/Time: Monday, March 28, 2011 08:18:12
Page 1

Approved: March 29, 2011
Erin D. Long

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, March 28, 2011 11:11:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18249.973					ug/L
|	Be	9	12.000					ug/L
|	Al	27	5034.602					ug/L
|>	Sc	45	144317.686					ug/L
⌈	Ti	49	76.675					ug/L
|	V	51	2441.376					ug/L
|	Cr	52	7971.923					ug/L
|	Cr	53	336.706					ug/L
|	Mn	55	391.012					ug/L
|	Co	59	67.001					ug/L
|	Ni	60	50.334					ug/L
|	Cu	65	146.336					ug/L
|	Zn	66	421.013					ug/L
|>	Ge	72	307883.118					ug/L
|	As	75	-128.972					ug/L
|	Se	77	49.333					ug/L
|	Se	82	8.496					ug/L
⌊	Rb	85	23.667					mg/L
	Y	89	211657.564					ug/L
	Rh	103	12.667					ug/L
⌈	Mo	98	32.877					ug/L
|	Ag	107	27.667					ug/L
|	Cd	114	-1.937					ug/L
|>	In	115	300680.378					ug/L
|	Sn	118	130.001					ug/L
⌊	Sb	123	44.362					ug/L
⌈	Ba	135	28.334					ug/L
|	Ce	140	40.004					ug/L
⌊>	Tb	159	387242.951					ug/L
⌈	Ho	165	20.002					ug/L
|	Tl	203	24.667					ug/L
|	Tl	205	33.337					ug/L
|	Pb	206	288.007					ug/L
|	Pb	207	278.007					ug/L
|	Pb	208	1207.707					ug/L
|	U	238	25.334					ug/L
⌊>	Bi	209	344874.610					ug/L

Sample ID: Blank
Report Date/Time: Monday, March 28, 2011 11:13:19
Page 1

Approved: March 29, 2011

⌈	Na	23	13453.723	mg/L
|	Mg	24	416.717	mg/L
|	K	39	342583.183	mg/L
|	Ca	43	326.705	mg/L
|	Fe	54	32478.349	mg/L
|	Fe	57	5578.783	mg/L
⌊>	Sc-1	45	144317.686	mg/L
	Cl	35	13861.604	mg/L
	Kr	83	58.001	mg/L
	Br	81	4889.862	mg/L
	P	31	5416.801	mg/L
	S	34	147414.873	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Blank
Report Date/Time: Monday, March 28, 2011 11:13:19
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Monday, March 28, 2011 11:13:19
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, March 28, 2011 11:17:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18049.610	0.00				ug/L
|	Be	9	17.333	0.00				ug/L
|	Al	27	5101.308	0.00				ug/L
⌊>	Sc	45	141460.302	141460.30				ug/L
⌈	Ti	49	63.340	-0.00				ug/L
|	V	51	2441.466	0.00				ug/L
|	Cr	52	7819.134	-0.00				ug/L
|	Cr	53	393.381	0.00				ug/L
|	Mn	55	366.010	-0.00				ug/L
|	Co	59	60.001	-0.00				ug/L
|	Ni	60	42.334	-0.00				ug/L
|	Cu	65	150.669	0.00				ug/L
|	Zn	66	452.681	0.00				ug/L
|>	Ge	72	307109.427	307109.43				ug/L
|	As	75	-118.113	0.00				ug/L
|	Se	77	50.667	0.00				ug/L
|	Se	82	3.415	-0.00				ug/L
⌊	Rb	85	30.000	0.00				mg/L
	Y	89	213775.318	2117.75				ug/L
	Rh	103	18.000	5.33				ug/L
⌈	Mo	98	28.648	-0.00				ug/L
|	Ag	107	28.334	0.00				ug/L
|	Cd	114	1.306	0.00				ug/L
|>	In	115	300101.421	300101.42				ug/L
|	Sn	118	126.001	-0.00				ug/L
⌊	Sb	123	43.613	-0.00				ug/L
⌈	Ba	135	20.334	-0.00				ug/L
|	Ce	140	40.004	0.00				ug/L
⌊>	Tb	159	385137.329	385137.33				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	28.334	0.00				ug/L
|	Tl	205	53.339	0.00				ug/L
|	Pb	206	302.008	0.00				ug/L
|	Pb	207	258.339	-0.00				ug/L
|	Pb	208	1196.040	0.00				ug/L
|	U	238	23.667	-0.00				ug/L
⌊>	Bi	209	337474.076	337474.08				ug/L

Sample ID: Standard 1
Report Date/Time: Monday, March 28, 2011 11:20:03
Page 1

Approved: March 29, 2011

⌈	Na	23	12892.928	-0.00		mg/L
|	Mg	24	313.370	-0.00		mg/L
|	K	39	370730.125	0.25		mg/L
|	Ca	43	320.037	-0.00		mg/L
|	Fe	54	30258.728	-0.01		mg/L
|	Fe	57	5735.554	0.00		mg/L
⌊>	Sc-1	45	141460.302	141460.30		mg/L
	Cl	35	14122.636	261.03		mg/L
	Kr	83	67.334	9.33		mg/L
	Br	81	4951.893	62.03		mg/L
	P	31	5449.485	32.68		mg/L
	S	34	154614.140	7199.27		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
\>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
\>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 1
Report Date/Time: Monday, March 28, 2011 11:20:03
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Monday, March 28, 2011 11:20:03
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, March 28, 2011 11:24:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16313.356	-0.01				ug/L
|	Be	9	132.668	0.00				ug/L
|	Al	27	6285.325	0.01				ug/L
|>	Sc	45	141730.973	141730.97				ug/L
⌈	Ti	49	383.379	0.00				ug/L
|	V	51	5074.194	0.01				ug/L
|	Cr	52	10051.151	0.01				ug/L
|	Cr	53	606.746	0.00				ug/L
|	Mn	55	4385.339	0.01				ug/L
|	Co	59	2964.802	0.01				ug/L
|	Ni	60	711.366	0.00				ug/L
|	Cu	65	803.040	0.00				ug/L
|	Zn	66	2459.994	0.01				ug/L
|>	Ge	72	298726.902	298726.90				ug/L
|	As	75	153.601	0.00				ug/L
|	Se	77	82.667	0.00				ug/L
|	Se	82	9.304	0.00				ug/L
⌊	Rb	85	43.667	0.00				mg/L
	Y	89	206072.153	-5585.41				ug/L
	Rh	103	12.333	-0.33				ug/L
⌈	Mo	98	2078.785	0.01				ug/L
|	Ag	107	2175.592	0.01				ug/L
|	Cd	114	436.743	0.00				ug/L
|>	In	115	294937.023	294937.02				ug/L
|	Sn	118	2239.851	0.01				ug/L
⌊	Sb	123	1482.069	0.00				ug/L
⌈	Ba	135	627.026	0.00				ug/L
|	Ce	140	40.004	0.00				ug/L
|>	Tb	159	380527.353	380527.35				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	2622.370	0.01				ug/L
|	Tl	205	6436.047	0.02				ug/L
|	Pb	206	2414.983	0.01				ug/L
|	Pb	207	2287.285	0.01				ug/L
|	Pb	208	10070.429	0.03				ug/L
|	U	238	12936.158	0.04				ug/L
|>	Bi	209	330935.886	330935.89				ug/L

Sample ID: Standard 2
Report Date/Time: Monday, March 28, 2011 11:26:48
Page 1

Approved: March 29, 2011

⌈	Na	23	211045.496	1.40		mg/L
|	Mg	24	139852.749	0.98		mg/L
|	K	39	581036.787	1.73		mg/L
|	Ca	43	1160.183	0.01		mg/L
|	Fe	54	48975.917	0.12		mg/L
|	Fe	57	13183.336	0.05		mg/L
⌊>	Sc-1	45	141730.973	141730.97		mg/L
	Cl	35	12971.075	-890.53		mg/L
	Kr	83	80.001	22.00		mg/L
	Br	81	4679.762	-210.10		mg/L
	P	31	5242.051	-174.75		mg/L
	S	34	142905.687	-4509.19		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 2
Report Date/Time: Monday, March 28, 2011 11:26:48
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Monday, March 28, 2011 11:26:48
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, March 28, 2011 11:31:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16897.634	-0.01				ug/L
|	Be	9	12936.364	0.09	50.0000	1.686	3.373	ug/L
|	Al	27	243990.745	1.68	50.0000	1.384	2.768	ug/L
⌊>	Sc	45	142102.874	142102.87				ug/L
⌈	Ti	49	44339.205	0.15	100.0000	2.592	2.592	ug/L
|	V	51	360601.971	1.18	50.0000	0.758	1.516	ug/L
|	Cr	52	316906.091	1.02	50.0000	0.303	0.605	ug/L
|	Cr	53	37176.022	0.12	50.0000	0.297	0.594	ug/L
|	Mn	55	483829.940	1.59	50.0000	0.140	0.280	ug/L
|	Co	59	369016.524	1.21	50.0000	0.306	0.611	ug/L
|	Ni	60	77176.781	0.25	50.0000	0.166	0.331	ug/L
|	Cu	65	79738.457	0.26	50.0000	0.131	0.262	ug/L
|	Zn	66	52087.829	0.17	50.0000	0.140	0.280	ug/L
| >	Ge	72	304260.113	304260.11				ug/L
|	As	75	48574.751	0.16	50.0000	0.456	0.912	ug/L
|	Se	77	3802.723	0.01	50.0000	1.856	3.712	ug/L
|	Se	82	4643.204	0.02	50.0000	0.325	0.650	ug/L
⌊	Rb	85	1914.536	0.01				mg/L
	Y	89	211368.495	-289.07				ug/L
	Rh	103	31.000	18.33				ug/L
⌈	Mo	98	265512.103	0.88	100.0000	0.704	0.704	ug/L
|	Ag	107	278960.989	0.93	50.0000	0.819	1.637	ug/L
|	Cd	114	57903.381	0.19	50.0000	1.410	2.819	ug/L
| >	In	115	301493.034	301493.03				ug/L
|	Sn	118	204604.340	0.68	50.0000	0.171	0.342	ug/L
⌊	Sb	123	184841.598	0.61	50.0000	0.744	1.487	ug/L
⌈	Ba	135	74251.387	0.19	50.0000	0.250	0.499	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	391659.332	391659.33				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	326755.347	0.98	50.0000	0.498	0.995	ug/L
|	Tl	205	800112.290	2.41	50.0000	0.557	1.115	ug/L
|	Pb	206	262886.618	0.79	50.0000	0.826	1.651	ug/L
|	Pb	207	247545.639	0.74	50.0000	0.541	1.081	ug/L
|	Pb	208	1098904.978	3.30	50.0000	0.655	1.310	ug/L
|	U	238	1621007.289	4.87	50.0000	1.071	2.143	ug/L
⌊>	Bi	209	332642.435	332642.44				ug/L

Sample ID: Standard 3
Report Date/Time: Monday, March 28, 2011 11:33:34
Page 1

Approved: March 29, 2011

⌈	Na	23	19527998.148	137.37	5.0000	0.093	1.870	mg/L
|	Mg	24	13517221.355	95.14	5.0000	0.071	1.425	mg/L
|	K	39	25248032.505	175.35	5.0000	0.127	2.546	mg/L
|	Ca	43	63591.233	0.45	5.0000	0.097	1.945	mg/L
|	Fe	54	2264597.512	15.72	5.0000	0.184	3.685	mg/L
|	Fe	57	953460.556	6.67	5.0000	0.139	2.786	mg/L
⌊>	Sc-1	45	142102.874	142102.87				mg/L
	Cl	35	12914.334	-947.27				mg/L
	Kr	83	71.334	13.33				mg/L
	Br	81	5035.270	145.41				mg/L
	P	31	5503.523	86.72				mg/L
	S	34	138323.939	-9090.93				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 3
Report Date/Time: Monday, March 28, 2011 11:33:34
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Monday, March 28, 2011 11:33:34
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Monday, March 28, 2011 11:38:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

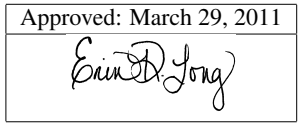
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16697.308	-0.01				ug/L
|	Be	9	25110.154	0.18	98.3495	2.180	2.217	ug/L
|	Al	27	441128.378	3.06	95.1420	2.282	2.399	ug/L
|>	Sc	45	142711.593	142711.59				ug/L
⌈	Ti	49	87984.212	0.29	199.3104	4.286	2.150	ug/L
|	V	51	716362.295	2.35	99.8535	1.348	1.350	ug/L
|	Cr	52	620071.472	2.01	99.5456	1.147	1.152	ug/L
|	Cr	53	73392.330	0.24	99.5982	1.402	1.407	ug/L
|	Mn	55	952231.668	3.13	99.2557	0.988	0.995	ug/L
|	Co	59	728663.427	2.40	99.3979	0.671	0.675	ug/L
|	Ni	60	151328.926	0.50	99.0770	0.432	0.436	ug/L
|	Cu	65	155259.605	0.51	98.7480	0.579	0.587	ug/L
|	Zn	66	99922.408	0.33	98.9476	0.657	0.664	ug/L
|>	Ge	72	304092.436	304092.44				ug/L
|	As	75	95994.490	0.32	99.3122	1.001	1.008	ug/L
|	Se	77	7516.824	0.02	99.7935	0.861	0.863	ug/L
|	Se	82	9235.856	0.03	99.6091	1.452	1.458	ug/L
⌊	Rb	85	3718.729	0.01				mg/L
	Y	89	207086.800	-4570.76				ug/L
	Rh	103	47.334	34.67				ug/L
⌈	Mo	98	524171.167	1.76	200.1922	1.962	0.980	ug/L
|	Ag	107	544692.733	1.83	99.5436	1.085	1.090	ug/L
|	Cd	114	116619.210	0.39	101.0755	1.412	1.397	ug/L
|>	In	115	297022.439	297022.44				ug/L
|	Sn	118	408979.951	1.38	100.7962	0.072	0.071	ug/L
⌊	Sb	123	371286.167	1.25	100.9591	0.516	0.511	ug/L
⌈	Ba	135	149246.493	0.38	99.8886	0.875	0.876	ug/L
|	Ce	140	66.674	0.00				ug/L
|>	Tb	159	394622.198	394622.20				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	630714.534	1.95	99.6864	1.860	1.866	ug/L
|	Tl	205	1548268.694	4.79	99.8153	2.543	2.547	ug/L
|	Pb	206	513160.960	1.59	100.2694	1.633	1.629	ug/L
|	Pb	207	482421.600	1.49	100.1885	0.642	0.641	ug/L
|	Pb	208	2134797.976	6.60	100.0306	0.865	0.865	ug/L
|	U	238	3034107.037	9.39	98.1439	0.838	0.853	ug/L
|>	Bi	209	323080.798	323080.80				ug/L

Sample ID: Standard 4
Report Date/Time: Monday, March 28, 2011 11:40:21
Page 1

Approved: March 29, 2011



Na	23	38586333.965	270.44	9.9270	0.329	3.316	mg/L	
Mg	24	26231355.764	183.87	9.8350	0.248	2.522	mg/L	
K	39	50789592.318	353.53	10.0447	0.159	1.587	mg/L	
Ca	43	124279.991	0.87	9.8890	0.179	1.814	mg/L	
Fe	54	4426764.640	30.81	9.8979	0.232	2.344	mg/L	
Fe	57	1881095.217	13.15	9.9258	0.222	2.232	mg/L	
> Sc-1	45	142711.593	142711.59				mg/L	
Cl	35	13658.655	-202.95				mg/L	
Kr	83	64.334	6.33				mg/L	
Br	81	5071.953	182.09				mg/L	
P	31	5252.047	-164.75				mg/L	
S	34	142064.441	-5350.43				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209					
Na	23					

Sample ID: Standard 4
Report Date/Time: Monday, March 28, 2011 11:40:21

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 4
Report Date/Time: Monday, March 28, 2011 11:40:21
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, March 28, 2011 11:44:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 11
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

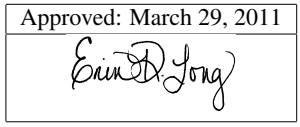
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15011.316	-0.02				ug/L
|	Be	9	12448.412	0.09	49.2447	1.184	2.404	ug/L
|	Al	27	240988.193	1.67	52.1536	2.174	4.168	ug/L
⌊>	Sc	45	141071.442	141071.44				ug/L
⌈	Ti	49	48686.440	0.16	112.4063	2.038	1.813	ug/L
|	V	51	354858.459	1.18	50.2697	0.441	0.878	ug/L
|	Cr	52	312404.308	1.02	50.5176	0.428	0.847	ug/L
|	Cr	53	36456.645	0.12	50.2200	0.482	0.961	ug/L
|	Mn	55	483427.104	1.62	51.3452	0.300	0.584	ug/L
|	Co	59	359538.869	1.21	49.9974	0.306	0.612	ug/L
|	Ni	60	76002.150	0.25	50.6959	0.371	0.732	ug/L
|	Cu	65	78664.653	0.26	50.9539	0.571	1.120	ug/L
|	Zn	66	50505.389	0.17	49.9558	0.208	0.416	ug/L
| >	Ge	72	298263.703	298263.70				ug/L
|	As	75	47817.299	0.16	50.5553	0.668	1.321	ug/L
|	Se	77	3910.098	0.01	52.5859	0.938	1.784	ug/L
|	Se	82	4693.964	0.02	51.7588	1.023	1.977	ug/L
⌊	Rb	85	1888.197	0.01				mg/L
	Y	89	209012.874	-2644.69				ug/L
	Rh	103	34.000	21.33				ug/L
⌈	Mo	98	290695.856	0.97	110.2809	0.956	0.867	ug/L
|	Ag	107	282283.552	0.94	51.2427	0.350	0.683	ug/L
|	Cd	114	57997.798	0.19	49.9384	0.458	0.916	ug/L
| >	In	115	299019.368	299019.37				ug/L
|	Sn	118	228408.538	0.76	55.8484	0.317	0.567	ug/L
⌊	Sb	123	180901.189	0.60	48.8600	0.346	0.708	ug/L
⌈	Ba	135	74243.997	0.19	49.9133	0.325	0.652	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	392738.303	392738.30				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	319772.088	0.99	50.4156	0.554	1.099	ug/L
|	Tl	205	780850.305	2.41	50.2166	1.238	2.466	ug/L
|	Pb	206	265679.845	0.82	51.7576	0.756	1.460	ug/L
|	Pb	207	234529.801	0.72	48.5606	1.097	2.258	ug/L
|	Pb	208	1082250.833	3.34	50.5595	0.867	1.714	ug/L
|	U	238	1520738.243	4.70	49.0654	0.007	0.015	ug/L
⌊>	Bi	209	323868.786	323868.79				ug/L

Sample ID: QC Std 1
Report Date/Time: Monday, March 28, 2011 11:47:05
Page 1

Approved: March 29, 2011



Na	23	19721989.110	139.72	5.1230	0.141	2.753	mg/L	
Mg	24	13337297.298	94.54	5.0507	0.009	0.176	mg/L	
K	39	25541559.813	178.67	5.0719	0.122	2.398	mg/L	
Ca	43	63306.113	0.45	5.0686	0.095	1.880	mg/L	
Fe	54	2235192.966	15.62	5.0191	0.055	1.091	mg/L	
Fe	57	948497.735	6.69	5.0464	0.051	1.008	mg/L	
> Sc-1	45	141071.442	141071.44				mg/L	
Cl	35	12876.285	-985.32				mg/L	
Kr	83	63.001	5.00				mg/L	
Br	81	5021.262	131.40				mg/L	
P	31	5365.463	-51.34				mg/L	
S	34	130400.112	-17014.76				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9	98.489				
Al	27	104.307				
> Sc	45					
Ti	49	112.406				
V	51	100.539				
Cr	52	101.035				
Cr	53					
Mn	55	102.690				
Co	59	99.995				
Ni	60	101.392				
Cu	65	101.908				
Zn	66	99.912				
> Ge	72		96.876			
As	75	101.111				
Se	77					
Se	82	103.518				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	102.485				
Cd	114	99.877				
> In	115		99.448			
Sn	118					
Sb	123	97.720				
Ba	135	99.827				
Ce	140					
> Tb	159		101.419			
Ho	165					
Tl	203	100.831				
Tl	205					
Pb	206					
Pb	207					
Pb	208	101.119				
U	238	98.131				
> Bi	209		93.909			
Na	23	102.460				

Sample ID: QC Std 1
Report Date/Time: Monday, March 28, 2011 11:47:05

Approved: March 29, 2011

	Mg	24	101.014
	K	39	101.439
	Ca	43	101.372
	Fe	54	100.382
	Fe	57	100.927
>	Sc-1	45	
	Cl	35	
	Kr	83	
	Br	81	
	P	31	
	S	34	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Monday, March 28, 2011 11:47:05

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, March 28, 2011 11:51:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16680.619	-0.01				ug/L
|	Be	9	16.000	0.00	-0.0611	0.026	42.451	ug/L
|	Al	27	5084.640	0.00	0.1290	0.168	129.904	ug/L
⌊>	Sc	45	143338.771	143338.77				ug/L
⌈	Ti	49	50.005	-0.00	0.0280	0.044	158.476	ug/L
|	V	51	2166.078	-0.00	-0.0231	0.005	23.631	ug/L
|	Cr	52	7202.999	-0.00	-0.1068	0.018	16.868	ug/L
|	Cr	53	270.031	-0.00	-0.0783	0.026	33.479	ug/L
|	Mn	55	425.347	0.00	-0.0219	0.002	10.739	ug/L
|	Co	59	83.335	0.00	-0.0005	0.002	289.501	ug/L
|	Ni	60	53.001	0.00	-0.0402	0.005	11.916	ug/L
|	Cu	65	164.003	0.00	-0.0174	0.007	42.482	ug/L
|	Zn	66	398.679	-0.00	-1.7350	0.013	0.765	ug/L
|>	Ge	72	307912.710	307912.71				ug/L
|	As	75	-162.771	-0.00	0.0726	0.046	63.429	ug/L
|	Se	77	53.333	0.00	-0.0214	0.083	387.750	ug/L
|	Se	82	-4.296	-0.00	0.2521	0.075	29.786	ug/L
⌊	Rb	85	23.667	0.00				mg/L
	Y	89	213499.823	1842.26				ug/L
	Rh	103	15.000	2.33				ug/L
⌈	Mo	98	181.286	0.00	0.0672	0.001	2.097	ug/L
|	Ag	107	46.334	0.00	0.0077	0.001	19.392	ug/L
|	Cd	114	2.837	0.00	0.0213	0.004	17.446	ug/L
|>	In	115	308253.824	308253.82				ug/L
|	Sn	118	329.872	0.00	-0.0783	0.002	2.869	ug/L
⌊	Sb	123	450.166	0.00	0.1121	0.006	5.178	ug/L
⌈	Ba	135	27.667	-0.00	-0.0171	0.000	2.586	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	401419.407	401419.41				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	61.001	0.00	0.0045	0.001	17.245	ug/L
|	Tl	205	116.679	0.00	0.0022	0.003	144.848	ug/L
|	Pb	206	317.342	0.00	-0.0015	0.002	154.031	ug/L
|	Pb	207	279.007	0.00	-0.0085	0.005	61.004	ug/L
|	Pb	208	1272.045	0.00	-0.0037	0.002	51.885	ug/L
|	U	238	152.336	0.00	-0.0039	0.001	25.644	ug/L
⌊>	Bi	209	335874.756	335874.76				ug/L

Sample ID: QC Std 2
Report Date/Time: Monday, March 28, 2011 11:53:49
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	18021.368	0.03	-0.0101	0.000	3.550	mg/L
|	Mg	24	856.789	0.00	-0.0126	0.000	0.183	mg/L
|	K	39	355159.164	0.11	-0.0060	0.003	49.643	mg/L
|	Ca	43	340.040	0.00	-0.0262	0.005	18.018	mg/L
|	Fe	54	30931.650	-0.01	-0.0018	0.003	169.402	mg/L
|	Fe	57	4841.656	-0.00	-0.0047	0.002	37.023	mg/L
⌊>	Sc-1	45	143338.771	143338.77				mg/L
	Cl	35	12226.136	-1635.47				mg/L
	Kr	83	72.334	14.33				mg/L
	Br	81	5223.367	333.50				mg/L
	P	31	5612.915	196.11				mg/L
	S	34	127917.687	-19497.19				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.010			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.519			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.661			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.390			
⌈	Na	23					

Sample ID: QC Std 2
Report Date/Time: Monday, March 28, 2011 11:53:49
Page 2

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Monday, March 28, 2011 11:53:49
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, March 28, 2011 11:58:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

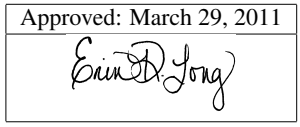
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15996.144	-0.01				ug/L
|	Be	9	18.000	0.00	-0.0525	0.027	51.307	ug/L
|	Al	27	2767.052	-0.02	-0.3644	0.066	18.109	ug/L
⌊>	Sc	45	140277.309	140277.31				ug/L
⌈	Ti	49	43.338	-0.00	0.0143	0.035	242.595	ug/L
|	V	51	5166.724	0.01	0.3995	0.023	5.848	ug/L
|	Cr	52	12669.816	0.02	0.7943	0.042	5.271	ug/L
|	Cr	53	823.450	0.00	0.6797	0.109	16.080	ug/L
|	Mn	55	5291.119	0.02	0.4856	0.005	0.962	ug/L
|	Co	59	3126.187	0.01	0.4143	0.005	1.180	ug/L
|	Ni	60	2626.705	0.01	1.6447	0.012	0.732	ug/L
|	Cu	65	1418.782	0.00	0.7819	0.015	1.883	ug/L
|	Zn	66	6723.994	0.02	4.6614	0.024	0.521	ug/L
|>	Ge	72	304412.595	304412.60				ug/L
|	As	75	268.260	0.00	0.5151	0.033	6.488	ug/L
|	Se	77	95.334	0.00	0.5485	0.261	47.570	ug/L
|	Se	82	43.050	0.00	0.7601	0.077	10.075	ug/L
⌊	Rb	85	24.667	0.00				mg/L
	Y	89	216309.970	4652.41				ug/L
	Rh	103	14.667	2.00				ug/L
⌈	Mo	98	121.508	0.00	0.0454	0.002	5.422	ug/L
|	Ag	107	2389.643	0.01	0.4223	0.009	2.198	ug/L
|	Cd	114	236.354	0.00	0.2173	0.008	3.728	ug/L
|>	In	115	306759.023	306759.02				ug/L
|	Sn	118	258.937	0.00	-0.0949	0.002	2.483	ug/L
⌊	Sb	123	1680.643	0.01	0.4366	0.009	2.094	ug/L
⌈	Ba	135	1179.081	0.00	0.7472	0.011	1.521	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	398142.968	398142.97				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	600.691	0.00	0.0864	0.003	4.043	ug/L
|	Tl	205	1390.236	0.00	0.0810	0.007	8.616	ug/L
|	Pb	206	2423.651	0.01	0.3940	0.013	3.424	ug/L
|	Pb	207	2255.944	0.01	0.3860	0.008	2.197	ug/L
|	Pb	208	10112.458	0.03	0.3943	0.007	1.651	ug/L
|	U	238	12713.871	0.04	0.3864	0.004	1.120	ug/L
⌊>	Bi	209	336388.023	336388.02				ug/L

Sample ID: QC Std 3
Report Date/Time: Monday, March 28, 2011 12:00:39
Page 1

Approved: March 29, 2011



⌈	Na	23	12529.101	-0.00	-0.0115	0.000	0.843	mg/L
|	Mg	24	410.050	0.00	-0.0127	0.000	0.461	mg/L
|	K	39	364159.051	0.22	-0.0028	0.001	37.934	mg/L
|	Ca	43	353.375	0.00	-0.0246	0.006	25.747	mg/L
|	Fe	54	30198.740	-0.01	-0.0020	0.002	83.104	mg/L
|	Fe	57	5085.138	-0.00	-0.0029	0.002	54.927	mg/L
⌊>	Sc-1	45	140277.309	140277.31				mg/L
	Cl	35	12797.520	-1064.08				mg/L
	Kr	83	71.001	13.00				mg/L
	Br	81	5252.713	362.85				mg/L
	P	31	5229.377	-187.42				mg/L
	S	34	135120.893	-12293.98				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	99.874				
|	Cr	52	99.292				
|	Cr	53					
|	Mn	55	97.127				
|	Co	59	103.569				
|	Ni	60	102.793				
|	Cu	65	97.743				
|	Zn	66	74.582				
\>	Ge	72		98.873			
|	As	75	128.767				
|	Se	77					
|	Se	82	190.032				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	105.584				
|	Cd	114	108.645				
\>	In	115		102.022			
|	Sn	118					
⌊	Sb	123	109.162				
⌈	Ba	135	99.624				
|	Ce	140					
⌊>	Tb	159		102.815			
⌈	Ho	165					
|	Tl	203	108.033				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	98.585				
|	U	238	96.599				
⌊>	Bi	209		97.539			
⌈	Na	23					

Sample ID: QC Std 3
Report Date/Time: Monday, March 28, 2011 12:00:39
Page 2

Approved: March 29, 2011

Erin D. Long

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Se	82	LLICV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 3
Report Date/Time: Monday, March 28, 2011 12:00:39
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, March 28, 2011 12:05:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16931.001	0.00				ug/L
|	Be	9	14.667	0.00	-0.0624	0.006	9.056	ug/L
|	Al	27	13102838.528	98.31	3057.4556	103.199	3.375	ug/L
⌊>	Sc	45	133265.531	133265.53				ug/L
⌈	Ti	49	28653.875	0.09	64.6765	2.767	4.278	ug/L
|	V	51	1926.919	-0.00	-0.0538	0.028	52.170	ug/L
|	Cr	52	6713.320	-0.00	-0.1752	0.007	4.080	ug/L
|	Cr	53	693.427	0.00	0.5025	0.191	38.070	ug/L
|	Mn	55	1697.161	0.00	0.1109	0.006	5.755	ug/L
|	Co	59	952.388	0.00	0.1178	0.008	6.750	ug/L
|	Ni	60	386.011	0.00	0.1776	0.009	5.001	ug/L
|	Cu	65	459.015	0.00	0.1709	0.010	5.956	ug/L
|	Zn	66	599.357	0.00	-1.5290	0.021	1.400	ug/L
|>	Ge	72	305039.688	305039.69				ug/L
|	As	75	-111.513	0.00	0.1238	0.068	55.321	ug/L
|	Se	77	104.667	0.00	0.6681	0.182	27.287	ug/L
|	Se	82	0.374	-0.00	0.3022	0.028	9.424	ug/L
⌊	Rb	85	1181.748	0.00				mg/L
	Y	89	203003.974	-8653.59				ug/L
	Rh	103	20.334	7.67				ug/L
⌈	Mo	98	178475.578	0.60	67.9100	1.855	2.731	ug/L
|	Ag	107	72.334	0.00	0.0127	0.001	5.201	ug/L
|	Cd	114	15.182	0.00	0.0322	0.006	19.866	ug/L
|>	In	115	298265.614	298265.61				ug/L
|	Sn	118	174.535	0.00	-0.1139	0.001	0.888	ug/L
⌊	Sb	123	168.614	0.00	0.0398	0.008	19.638	ug/L
⌈	Ba	135	51.334	0.00	-0.0003	0.000	130.957	ug/L
|	Ce	140	193.355	0.00				ug/L
⌊>	Tb	159	387529.294	387529.29				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	31.000	0.00	0.0001	0.000	327.455	ug/L
|	Tl	205	86.676	0.00	0.0004	0.002	355.328	ug/L
|	Pb	206	344.676	0.00	0.0057	0.002	42.494	ug/L
|	Pb	207	282.340	0.00	-0.0060	0.001	15.540	ug/L
|	Pb	208	1331.715	0.00	0.0009	0.001	119.631	ug/L
|	U	238	49.001	0.00	-0.0071	0.000	0.728	ug/L
⌊>	Bi	209	325460.167	325460.17				ug/L

Sample ID: QC Std 4
Report Date/Time: Monday, March 28, 2011 12:07:27
Page 1

Approved: March 29, 2011

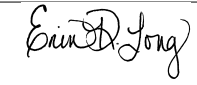
Na	23	31383143.223	235.37	8.6381	0.163	1.889	mg/L	
Mg	24	8749046.707	65.65	3.5035	0.050	1.438	mg/L	
K	39	16688901.085	122.88	3.4856	0.098	2.821	mg/L	
Ca	43	118719.215	0.89	10.1154	0.219	2.168	mg/L	
Fe	54	3717810.532	27.68	8.8921	0.119	1.343	mg/L	
Fe	57	1571230.541	11.75	8.8733	0.185	2.082	mg/L	
> Sc-1	45	133265.531	133265.53				mg/L	
Cl	35	947599.813	933738.21				mg/L	
Kr	83	72.001	14.00				mg/L	
Br	81	5020.595	130.73				mg/L	
P	31	865091.144	859674.34				mg/L	
S	34	205467.413	58052.54				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		99.076			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		99.197			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		100.074			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		94.371			
Na	23					

Sample ID: QC Std 4
Report Date/Time: Monday, March 28, 2011 12:07:27
Page 2

Approved: March 29, 2011



|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	Se	82	ICSA IS OUT OF LIMITS (+/-RL)

Sample ID: QC Std 4
Report Date/Time: Monday, March 28, 2011 12:07:27
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, March 28, 2011 12:12:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16947.708	0.00				ug/L
|	Be	9	24560.125	0.19	104.7482	4.035	3.852	ug/L
|	Al	27	18044289.231	137.72	4282.7860	210.032	4.904	ug/L
⌊>	Sc	45	131121.261	131121.26				ug/L
⌈	Ti	49	40629.790	0.14	95.1474	2.903	3.051	ug/L
|	V	51	651064.582	2.21	93.8297	0.549	0.586	ug/L
|	Cr	52	582237.403	1.95	96.6234	0.303	0.313	ug/L
|	Cr	53	81945.890	0.28	115.0696	0.829	0.720	ug/L
|	Mn	55	915761.697	3.11	98.7217	1.150	1.165	ug/L
|	Co	59	697209.023	2.37	98.3557	0.594	0.604	ug/L
|	Ni	60	148526.162	0.50	100.5629	1.232	1.225	ug/L
|	Cu	65	154024.755	0.52	101.3137	1.079	1.065	ug/L
|	Zn	66	97326.978	0.33	99.6847	0.468	0.469	ug/L
|>	Ge	72	294050.048	294050.05				ug/L
|	As	75	92710.260	0.32	99.1938	0.726	0.732	ug/L
|	Se	77	8420.210	0.03	115.7248	1.494	1.291	ug/L
|	Se	82	8979.173	0.03	100.1457	0.978	0.976	ug/L
⌊	Rb	85	1695.161	0.01				mg/L
	Y	89	198187.696	-13469.87				ug/L
	Rh	103	55.334	42.67				ug/L
⌈	Mo	98	256838.110	0.91	102.9687	0.428	0.415	ug/L
|	Ag	107	510817.306	1.81	97.9942	0.639	0.652	ug/L
|	Cd	114	109437.871	0.39	99.5639	0.052	0.052	ug/L
|>	In	115	282949.255	282949.25				ug/L
|	Sn	118	495.879	0.00	-0.0283	0.007	26.267	ug/L
⌊	Sb	123	348167.733	1.23	99.3811	1.291	1.299	ug/L
⌈	Ba	135	137730.432	0.37	97.8183	1.175	1.201	ug/L
|	Ce	140	186.687	0.00				ug/L
⌊>	Tb	159	371933.625	371933.62				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	625994.087	1.92	97.9724	1.687	1.722	ug/L
|	Tl	205	1559392.000	4.78	99.5416	1.415	1.422	ug/L
|	Pb	206	534098.398	1.64	103.3414	1.476	1.428	ug/L
|	Pb	207	469104.661	1.44	96.4766	2.159	2.238	ug/L
|	Pb	208	2155068.040	6.60	99.9931	1.293	1.293	ug/L
|	U	238	3094745.762	9.49	99.1327	1.984	2.001	ug/L
⌊>	Bi	209	326283.894	326283.89				ug/L

Sample ID: QC Std 5
Report Date/Time: Monday, March 28, 2011 12:14:15
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	44534964.732	339.83	12.4769	0.492	3.944	mg/L
|	Mg	24	12070674.200	92.14	4.9220	0.214	4.355	mg/L
|	K	39	23956824.609	180.40	5.1211	0.127	2.483	mg/L
|	Ca	43	168789.591	1.29	14.6514	0.618	4.219	mg/L
|	Fe	54	5303083.277	40.25	12.9301	0.452	3.499	mg/L
|	Fe	57	2273276.856	17.31	13.0669	0.336	2.574	mg/L
⌊>	Sc-1	45	131121.261	131121.26				mg/L
	Cl	35	21098593.708	21084732.10				mg/L
	Kr	83	78.668	20.67				mg/L
	Br	81	6497.445	1607.58				mg/L
	P	31	1185077.073	1179660.27				mg/L
	S	34	223615.793	76200.92				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	93.830				
|	Cr	52	96.623				
|	Cr	53					
|	Mn	55	98.722				
|	Co	59	98.356				
|	Ni	60	100.563				
|	Cu	65	101.314				
|	Zn	66	99.685				
|>	Ge	72		95.507			
|	As	75	99.194				
|	Se	77					
|	Se	82	100.146				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	97.994				
|	Cd	114	99.564				
|>	In	115		94.103			
|	Sn	118					
⌊	Sb	123	99.381				
⌈	Ba	135	97.818				
|	Ce	140					
⌊>	Tb	159		96.047			
⌈	Ho	165					
|	Tl	203	97.972				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.993				
|	U	238	99.133				
⌊>	Bi	209		94.609			
⌈	Na	23					

Sample ID: QC Std 5
Report Date/Time: Monday, March 28, 2011 12:14:15
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Monday, March 28, 2011 12:14:15
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 28, 2011 12:18:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16012.827	-0.01				ug/L
|	Be	9	12890.305	0.09	50.5987	2.421	4.784	ug/L
|	Al	27	230254.650	1.59	49.3982	2.724	5.515	ug/L
|>	Sc	45	142323.156	142323.16				ug/L
⌈	Ti	49	44925.191	0.14	100.0063	0.406	0.406	ug/L
|	V	51	367174.864	1.18	50.1556	0.314	0.625	ug/L
|	Cr	52	319993.675	1.01	49.8892	0.876	1.756	ug/L
|	Cr	53	39682.542	0.13	52.7525	1.479	2.805	ug/L
|	Mn	55	486912.782	1.57	49.8639	0.498	0.998	ug/L
|	Co	59	375469.419	1.21	50.3463	0.169	0.336	ug/L
|	Ni	60	78229.276	0.25	50.3205	0.441	0.876	ug/L
|	Cu	65	82321.612	0.27	51.4323	1.214	2.361	ug/L
|	Zn	66	51755.111	0.17	49.3452	0.788	1.596	ug/L
|>	Ge	72	309322.553	309322.55				ug/L
|	As	75	49486.002	0.16	50.4649	1.215	2.408	ug/L
|	Se	77	4158.866	0.01	53.9892	3.155	5.844	ug/L
|	Se	82	4953.675	0.02	52.6715	0.772	1.465	ug/L
⌊	Rb	85	1945.875	0.01				mg/L
	Y	89	213541.072	1883.51				ug/L
	Rh	103	30.000	17.33				ug/L
⌈	Mo	98	271378.215	0.89	100.9563	1.158	1.147	ug/L
|	Ag	107	282545.865	0.93	50.2980	0.808	1.607	ug/L
|	Cd	114	59150.657	0.19	49.9454	0.720	1.442	ug/L
|>	In	115	304947.897	304947.90				ug/L
|	Sn	118	207306.869	0.68	49.6877	0.513	1.033	ug/L
⌊	Sb	123	188351.128	0.62	49.8820	0.174	0.349	ug/L
⌈	Ba	135	75639.792	0.19	50.3714	0.851	1.689	ug/L
|	Ce	140	43.338	0.00				ug/L
|>	Tb	159	396515.562	396515.56				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	326644.125	0.98	50.0697	0.607	1.212	ug/L
|	Tl	205	797467.529	2.39	49.8540	0.677	1.357	ug/L
|	Pb	206	266563.771	0.80	50.4876	0.668	1.323	ug/L
|	Pb	207	250720.633	0.75	50.4728	0.574	1.138	ug/L
|	Pb	208	1116265.060	3.35	50.6993	0.389	0.767	ug/L
|	U	238	1704652.110	5.12	53.4770	0.598	1.118	ug/L
|>	Bi	209	333118.596	333118.60				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 12:21:02
Page 1

Approved: March 29, 2011

⌈	Na	23	19540760.711	137.34	5.0355	0.264	5.245	mg/L
|	Mg	24	13425465.149	94.43	5.0450	0.245	4.860	mg/L
|	K	39	26201996.258	181.89	5.1636	0.201	3.890	mg/L
|	Ca	43	64409.862	0.45	5.1158	0.158	3.086	mg/L
|	Fe	54	2281385.570	15.82	5.0845	0.283	5.569	mg/L
|	Fe	57	979907.158	6.86	5.1762	0.337	6.509	mg/L
⌊>	Sc-1	45	142323.156	142323.16				mg/L
	Cl	35	27949.842	14088.24				mg/L
	Kr	83	73.334	15.33				mg/L
	Br	81	5194.016	304.15				mg/L
	P	31	4978.576	-438.22				mg/L
	S	34	126346.542	-21068.33				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	100.311				
|	Cr	52	99.778				
|	Cr	53					
|	Mn	55	99.728				
|	Co	59	100.693				
|	Ni	60	100.641				
|	Cu	65	102.865				
|	Zn	66	98.690				
|>	Ge	72		100.468			
|	As	75	100.930				
|	Se	77					
|	Se	82	105.343				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	100.596				
|	Cd	114	99.891				
|>	In	115		101.419			
|	Sn	118					
⌊	Sb	123	99.764				
⌈	Ba	135	100.743				
|	Ce	140					
⌊>	Tb	159		102.395			
⌈	Ho	165					
|	Tl	203	100.139				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	101.399				
|	U	238	106.954				
⌊>	Bi	209		96.591			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 12:21:02
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 12:21:02
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 28, 2011 12:26:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15979.424	-0.01				ug/L
|	Be	9	12.000	0.00	-0.0754	0.016	20.674	ug/L
|	Al	27	5084.647	0.00	0.1593	0.152	95.173	ug/L
⌊>	Sc	45	138773.527	138773.53				ug/L
⌈	Ti	49	56.673	-0.00	0.0462	0.074	160.500	ug/L
|	V	51	2252.380	-0.00	-0.0040	0.021	521.769	ug/L
|	Cr	52	7550.592	-0.00	-0.0232	0.013	54.345	ug/L
|	Cr	53	1383.568	0.00	1.4634	0.197	13.489	ug/L
|	Mn	55	440.014	0.00	-0.0193	0.001	6.766	ug/L
|	Co	59	70.668	0.00	-0.0020	0.001	57.323	ug/L
|	Ni	60	49.001	-0.00	-0.0420	0.004	8.581	ug/L
|	Cu	65	152.669	0.00	-0.0223	0.010	43.715	ug/L
|	Zn	66	392.678	-0.00	-1.7320	0.022	1.280	ug/L
|>	Ge	72	301010.228	301010.23				ug/L
|	As	75	-156.624	-0.00	0.0754	0.093	122.760	ug/L
|	Se	77	63.334	0.00	0.1296	0.203	156.872	ug/L
|	Se	82	-7.368	-0.00	0.2181	0.364	166.702	ug/L
⌊	Rb	85	35.667	0.00				mg/L
	Y	89	213807.584	2150.02				ug/L
	Rh	103	14.667	2.00				ug/L
⌈	Mo	98	126.878	0.00	0.0487	0.003	6.083	ug/L
|	Ag	107	45.334	0.00	0.0078	0.001	12.380	ug/L
|	Cd	114	1.980	0.00	0.0207	0.004	20.251	ug/L
|>	In	115	298028.640	298028.64				ug/L
|	Sn	118	261.470	0.00	-0.0925	0.004	4.272	ug/L
⌊	Sb	123	212.864	0.00	0.0518	0.007	13.214	ug/L
⌈	Ba	135	27.334	-0.00	-0.0168	0.002	11.040	ug/L
|	Ce	140	40.004	-0.00				ug/L
⌊>	Tb	159	390253.787	390253.79				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	96.335	0.00	0.0102	0.001	11.022	ug/L
|	Tl	205	250.028	0.00	0.0107	0.002	15.319	ug/L
|	Pb	206	302.008	0.00	-0.0031	0.004	118.736	ug/L
|	Pb	207	280.673	0.00	-0.0068	0.002	26.470	ug/L
|	Pb	208	1251.043	0.00	-0.0033	0.003	83.254	ug/L
|	U	238	134.669	0.00	-0.0043	0.001	18.912	ug/L
⌊>	Bi	209	328373.559	328373.56				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 12:28:17
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	14969.368	0.01	-0.0108	0.000	0.806	mg/L
|	Mg	24	773.441	0.00	-0.0126	0.000	0.253	mg/L
|	K	39	359586.778	0.22	-0.0029	0.001	49.844	mg/L
|	Ca	43	336.706	0.00	-0.0258	0.006	24.130	mg/L
|	Fe	54	32209.268	0.01	0.0035	0.002	69.531	mg/L
|	Fe	57	5055.124	-0.00	-0.0028	0.002	74.360	mg/L
⌊>	Sc-1	45	138773.527	138773.53				mg/L
	Cl	35	18831.048	4969.44				mg/L
	Kr	83	80.668	22.67				mg/L
	Br	81	5407.462	517.60				mg/L
	P	31	5426.147	9.35				mg/L
	S	34	133349.536	-14065.34				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.768			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.118			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.778			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.215			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 12:28:17

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 12:28:17

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103053001

Sample Date/Time: Monday, March 28, 2011 12:32:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: ~~10~~ 50

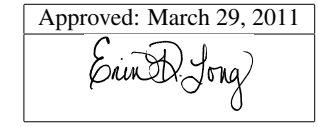
User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16547.048	-0.01				ug/L
|	Be	9	12.667	0.00	-0.0731	0.027	36.965	ug/L
|	Al	27	17899.697	0.09	2.9857	0.655	21.924	ug/L
⌊>	Sc	45	140159.014	140159.01				ug/L
⌈	Ti	49	170.019	0.00	0.3008	0.093	30.966	ug/L
|	V	51	2390.860	-0.00	0.0112	0.021	191.195	ug/L
|	Cr	52	8111.038	0.00	0.0517	0.045	87.449	ug/L
|	Cr	53	873.460	0.00	0.7439	0.251	33.779	ug/L
|	Mn	55	160698.948	0.53	16.6486	0.200	1.204	ug/L
|	Co	59	155.669	0.00	0.0094	0.002	26.299	ug/L
|	Ni	60	336.009	0.00	0.1451	0.017	11.461	ug/L
|	Cu	65	236.672	0.00	0.0297	0.010	32.431	ug/L
|	Zn	66	2536.014	0.01	0.4247	0.017	4.023	ug/L
| >	Ge	72	304968.325	304968.32				ug/L
|	As	75	-154.350	-0.00	0.0793	0.069	86.428	ug/L
|	Se	77	54.667	0.00	0.0043	0.193	4431.206	ug/L
|	Se	82	-2.951	-0.00	0.2659	0.076	28.567	ug/L
⌊	Rb	85	703.032	0.00				mg/L
	Y	89	211790.394	132.83				ug/L
	Rh	103	30.334	17.67				ug/L
⌈	Mo	98	87.581	0.00	0.0338	0.004	12.531	ug/L
|	Ag	107	44.334	0.00	0.0076	0.001	19.295	ug/L
|	Cd	114	-5.834	-0.00	0.0139	0.005	39.119	ug/L
| >	In	115	297756.909	297756.91				ug/L
|	Sn	118	204.002	0.00	-0.1065	0.005	4.377	ug/L
⌊	Sb	123	122.857	0.00	0.0274	0.006	22.219	ug/L
⌈	Ba	135	185.004	0.00	0.0915	0.005	5.468	ug/L
|	Ce	140	480.060	0.00				ug/L
⌊>	Tb	159	385391.473	385391.47				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	71.668	0.00	0.0065	0.002	27.094	ug/L
|	Tl	205	163.351	0.00	0.0054	0.002	28.368	ug/L
|	Pb	206	320.008	0.00	0.0011	0.002	181.326	ug/L
|	Pb	207	307.008	0.00	-0.0007	0.002	324.742	ug/L
|	Pb	208	1287.045	0.00	-0.0009	0.002	201.285	ug/L
|	U	238	12618.416	0.04	0.3980	0.005	1.325	ug/L
⌊>	Bi	209	324295.734	324295.73				ug/L

Sample ID: L1103053001
Report Date/Time: Monday, March 28, 2011 12:35:01
Page 1

Approved: March 29, 2011



⌈	Na	23	20856580.990	148.78	5.4562	0.196	3.592	mg/L
|	Mg	24	5453044.027	38.91	2.0715	0.053	2.553	mg/L
|	K	39	1321339.009	7.06	0.1916	0.007	3.416	mg/L
|	Ca	43	46716.866	0.33	3.7521	0.078	2.092	mg/L
|	Fe	54	31384.109	-0.00	0.0008	0.002	219.117	mg/L
|	Fe	57	7039.850	0.01	0.0077	0.001	15.710	mg/L
⌊>	Sc-1	45	140159.014	140159.01				mg/L
	Cl	35	24933.049	11071.44				mg/L
	Kr	83	71.001	13.00				mg/L
	Br	81	6116.537	1226.67				mg/L
	P	31	4953.896	-462.91				mg/L
	S	34	329324.584	181909.71				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.053			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.028			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.522			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.033			
⌈	Na	23					

Sample ID: L1103053001
Report Date/Time: Monday, March 28, 2011 12:35:01
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: PBW 44 WG359563-04

Sample Date/Time: Monday, March 28, 2011 12:39:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17331.679	-0.01				ug/L
|	Be	9	14.667	0.00	-0.0712	0.015	20.879	ug/L
|	Al	27	24647.117	0.12	3.9628	0.359	9.066	ug/L
⌊>	Sc	45	155213.814	155213.81				ug/L
⌈	Ti	49	43.338	-0.00	0.0113	0.012	108.842	ug/L
|	V	51	2551.893	0.00	0.0234	0.017	73.935	ug/L
|	Cr	52	9354.802	0.00	0.2098	0.034	16.060	ug/L
|	Cr	53	783.443	0.00	0.5933	0.155	26.101	ug/L
|	Mn	55	2779.414	0.01	0.2152	0.004	1.685	ug/L
|	Co	59	112.668	0.00	0.0031	0.000	3.083	ug/L
|	Ni	60	164.336	0.00	0.0298	0.007	22.260	ug/L
|	Cu	65	296.674	0.00	0.0625	0.012	19.216	ug/L
|	Zn	66	2837.098	0.01	0.6468	0.097	14.971	ug/L
|>	Ge	72	313923.892	313923.89				ug/L
|	As	75	-79.590	0.00	0.1589	0.059	37.206	ug/L
|	Se	77	66.000	0.00	0.1296	0.188	144.902	ug/L
|	Se	82	23.734	0.00	0.5448	0.089	16.423	ug/L
⌊	Rb	85	96.335	0.00				mg/L
	Y	89	221372.200	9714.64				ug/L
	Rh	103	22.334	9.67				ug/L
⌈	Mo	98	82.288	0.00	0.0307	0.003	10.807	ug/L
|	Ag	107	71.334	0.00	0.0121	0.003	24.973	ug/L
|	Cd	114	-1.813	0.00	0.0174	0.002	9.659	ug/L
|>	In	115	308428.168	308428.17				ug/L
|	Sn	118	272.004	0.00	-0.0921	0.002	2.674	ug/L
⌊	Sb	123	195.074	0.00	0.0452	0.003	7.255	ug/L
⌈	Ba	135	309.341	0.00	0.1679	0.019	11.435	ug/L
|	Ce	140	146.682	0.00				ug/L
⌊>	Tb	159	402316.116	402316.12				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	57.001	0.00	0.0039	0.000	12.516	ug/L
|	Tl	205	100.011	0.00	0.0011	0.002	207.444	ug/L
|	Pb	206	397.345	0.00	0.0134	0.005	34.003	ug/L
|	Pb	207	325.342	0.00	0.0006	0.001	206.235	ug/L
|	Pb	208	1552.397	0.00	0.0088	0.001	16.591	ug/L
|	U	238	91.001	0.00	-0.0058	0.000	3.428	ug/L
⌊>	Bi	209	336739.311	336739.31				ug/L

Sample ID: PBW 44 WG359563-04
Report Date/Time: Monday, March 28, 2011 12:41:46
Page 1

Approved: March 29, 2011

⌈	Na	23	173028.548	1.02	0.0262	0.001	3.720	mg/L
|	Mg	24	80053.916	0.51	0.0148	0.001	7.261	mg/L
|	K	39	407715.975	0.26	-0.0018	0.003	157.521	mg/L
|	Ca	43	1103.505	0.00	0.0277	0.003	9.865	mg/L
|	Fe	54	72349.220	0.24	0.0789	0.008	10.690	mg/L
|	Fe	57	9422.046	0.02	0.0156	0.001	9.592	mg/L
⌊>	Sc-1	45	155213.814	155213.81				mg/L
	Cl	35	54610.745	40749.14				mg/L
	Kr	83	69.001	11.00				mg/L
	Br	81	17290.272	12400.41				mg/L
	P	31	11250.997	5834.20				mg/L
	S	34	132162.322	-15252.55				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.962			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.577			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.892			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.641			
⌈	Na	23					

Sample ID: PBW 44 WG359563-04
Report Date/Time: Monday, March 28, 2011 12:41:46
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 44 WG359563-04
Report Date/Time: Monday, March 28, 2011 12:41:46

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: LCSW 44 WG359563-05

Sample Date/Time: Monday, March 28, 2011 12:46:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17682.375	-0.01				ug/L
|	Be	9	6261.294	0.04	23.6293	0.396	1.677	ug/L
|	Al	27	123744.390	0.81	25.1538	1.595	6.342	ug/L
⌊>	Sc	45	147531.769	147531.77				ug/L
⌈	Ti	49	93.343	0.00	0.1219	0.056	46.181	ug/L
|	V	51	187859.101	0.59	25.2124	0.260	1.029	ug/L
|	Cr	52	173082.419	0.53	26.0878	0.244	0.934	ug/L
|	Cr	53	19437.492	0.06	25.3110	0.802	3.169	ug/L
|	Mn	55	261241.068	0.83	26.4207	0.171	0.646	ug/L
|	Co	59	196976.532	0.63	26.1078	0.199	0.763	ug/L
|	Ni	60	41504.033	0.13	26.3578	0.161	0.611	ug/L
|	Cu	65	42881.511	0.14	26.4218	0.181	0.686	ug/L
|	Zn	66	38646.933	0.12	35.8649	0.367	1.023	ug/L
|>	Ge	72	312853.035	312853.04				ug/L
|	As	75	23063.703	0.07	23.3743	0.279	1.193	ug/L
|	Se	77	1755.487	0.01	22.0943	0.468	2.117	ug/L
|	Se	82	2055.355	0.01	21.7762	0.641	2.945	ug/L
⌊	Rb	85	67.334	0.00				mg/L
	Y	89	221048.569	9391.01				ug/L
	Rh	103	23.667	11.00				ug/L
⌈	Mo	98	76.325	0.00	0.0286	0.001	4.432	ug/L
|	Ag	107	133421.447	0.43	23.5378	0.480	2.039	ug/L
|	Cd	114	28504.384	0.09	23.8638	0.223	0.937	ug/L
|>	In	115	307665.783	307665.78				ug/L
|	Sn	118	1870.309	0.01	0.2889	0.035	12.124	ug/L
⌊	Sb	123	91066.914	0.30	23.9015	0.312	1.307	ug/L
⌈	Ba	135	39751.935	0.10	26.2265	0.302	1.150	ug/L
|	Ce	140	186.687	0.00				ug/L
⌊>	Tb	159	399920.801	399920.80				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	169051.981	0.49	25.1719	0.128	0.510	ug/L
|	Tl	205	421928.470	1.23	25.6225	0.489	1.909	ug/L
|	Pb	206	143149.744	0.42	26.3100	0.139	0.530	ug/L
|	Pb	207	126383.900	0.37	24.6839	0.108	0.440	ug/L
|	Pb	208	578480.765	1.68	25.4949	0.134	0.526	ug/L
|	U	238	844567.484	2.46	25.7336	0.257	1.000	ug/L
⌊>	Bi	209	342876.394	342876.39				ug/L

Sample ID: LCSW 44 WG359563-05
Report Date/Time: Monday, March 28, 2011 12:48:32
Page 1

Approved: March 29, 2011

⌈	Na	23	134306.279	0.82	0.0187	0.001	4.014	mg/L
|	Mg	24	70840.672	0.48	0.0128	0.001	5.186	mg/L
|	K	39	409531.141	0.41	0.0024	0.004	157.261	mg/L
|	Ca	43	1260.206	0.01	0.0446	0.018	39.282	mg/L
|	Fe	54	66203.495	0.22	0.0733	0.009	12.371	mg/L
|	Fe	57	6065.781	0.00	0.0009	0.002	288.778	mg/L
⌊>	Sc-1	45	147531.769	147531.77				mg/L
	Cl	35	48789.416	34927.81				mg/L
	Kr	83	64.001	6.00				mg/L
	Br	81	7268.643	2378.78				mg/L
	P	31	12107.342	6690.54				mg/L
	S	34	126015.874	-21399.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.614			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.323			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.274			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.421			
⌈	Na	23					

Sample ID: LCSW 44 WG359563-05
Report Date/Time: Monday, March 28, 2011 12:48:32
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 44 WG359563-05
Report Date/Time: Monday, March 28, 2011 12:48:32
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057801 WG359563-01

Sample Date/Time: Monday, March 28, 2011 12:53:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21924.012	0.04				ug/L
|	Be	9	9.333	-0.00	-0.0848	0.022	25.838	ug/L
|	Al	27	21055.574	0.12	3.9218	0.408	10.411	ug/L
⌊>	Sc	45	133688.158	133688.16				ug/L
⌈	Ti	49	2583.926	0.01	6.0053	0.312	5.197	ug/L
|	V	51	2705.944	0.00	0.0712	0.014	20.080	ug/L
|	Cr	52	8678.184	0.00	0.2037	0.013	6.525	ug/L
|	Cr	53	536.735	0.00	0.3191	0.120	37.528	ug/L
|	Mn	55	9723884.573	33.25	1054.5753	23.548	2.233	ug/L
|	Co	59	1714.831	0.01	0.2315	0.010	4.377	ug/L
|	Ni	60	3113.516	0.01	2.0467	0.028	1.386	ug/L
|	Cu	65	1431.117	0.00	0.8271	0.031	3.755	ug/L
|	Zn	66	3943.151	0.01	2.0146	0.161	7.974	ug/L
|>	Ge	72	292445.831	292445.83				ug/L
|	As	75	164.910	0.00	0.4156	0.039	9.355	ug/L
|	Se	77	74.667	0.00	0.3126	0.069	22.125	ug/L
|	Se	82	103.405	0.00	1.4541	0.041	2.816	ug/L
⌊	Rb	85	3960.157	0.01				mg/L
	Y	89	201323.049	-10334.52				ug/L
	Rh	103	203.337	190.67				ug/L
⌈	Mo	98	994.977	0.00	0.4056	0.026	6.337	ug/L
|	Ag	107	51.334	0.00	0.0095	0.002	21.874	ug/L
|	Cd	114	-3.322	-0.00	0.0159	0.003	16.057	ug/L
|>	In	115	278445.796	278445.80				ug/L
|	Sn	118	346.406	0.00	-0.0656	0.003	4.143	ug/L
⌊	Sb	123	129.319	0.00	0.0316	0.000	1.295	ug/L
⌈	Ba	135	1751.171	0.00	1.2181	0.022	1.795	ug/L
|	Ce	140	546.736	0.00				ug/L
⌊>	Tb	159	369106.448	369106.45				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	100.002	0.00	0.0121	0.004	30.776	ug/L
|	Tl	205	146.682	0.00	0.0050	0.003	59.221	ug/L
|	Pb	206	328.009	0.00	0.0072	0.003	46.718	ug/L
|	Pb	207	302.674	0.00	0.0027	0.004	153.364	ug/L
|	Pb	208	1335.715	0.00	0.0057	0.001	20.798	ug/L
|	U	238	173325.323	0.57	5.9668	0.163	2.728	ug/L
⌊>	Bi	209	303253.476	303253.48				ug/L

Sample ID: L1103057801 WG359563-01
Report Date/Time: Monday, March 28, 2011 12:55:17
Page 1

Approved: March 29, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	107524888.699	805.01	43.1023	2.063	4.786	mg/L
|	K	39	7437033.506	53.29	1.5065	0.057	3.767	mg/L
|	Ca	43	398179.291	2.98	33.9660	1.598	4.705	mg/L
|	Fe	54	37469.820	0.06	0.0190	0.004	23.281	mg/L
|	Fe	57	20115.571	0.11	0.0834	0.004	4.439	mg/L
⌊>	Sc-1	45	133688.158	133688.16				mg/L
	Cl	35	213882.608	200021.00				mg/L
	Kr	83	68.668	10.67				mg/L
	Br	81	46363.232	41473.37				mg/L
	P	31	6626.887	1210.09				mg/L
	S	34	3703104.871	3555690.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.986			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.605			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.317			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		87.932			
⌈	Na	23					

Sample ID: L1103057801 WG359563-01
Report Date/Time: Monday, March 28, 2011 12:55:17
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103057801 WG359563-01
Report Date/Time: Monday, March 28, 2011 12:55:17
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057802S WG359563-06

Sample Date/Time: Monday, March 28, 2011 12:59:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

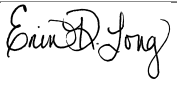
User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23043.203	0.03				ug/L
|	Be	9	1492.779	0.01	5.5229	0.569	10.305	ug/L
|	Al	27	65899.812	0.41	12.8763	0.635	4.931	ug/L
⌊>	Sc	45	148055.349	148055.35				ug/L
⌈	Ti	49	2750.654	0.01	6.0246	0.240	3.978	ug/L
|	V	51	43100.991	0.13	5.5879	0.199	3.560	ug/L
|	Cr	52	44007.079	0.12	5.7532	0.234	4.072	ug/L
|	Cr	53	4644.878	0.01	5.7719	0.475	8.237	ug/L
|	Mn	55	11287108.570	36.40	1154.5931	38.827	3.363	ug/L
|	Co	59	43729.534	0.14	5.8394	0.213	3.650	ug/L
|	Ni	60	12936.499	0.04	8.2357	0.278	3.373	ug/L
|	Cu	65	11205.726	0.04	6.8776	0.314	4.566	ug/L
|	Zn	66	51291.420	0.16	48.7460	1.435	2.943	ug/L
| >	Ge	72	310193.789	310193.79				ug/L
|	As	75	5616.319	0.02	5.9227	0.115	1.936	ug/L
|	Se	77	529.347	0.00	6.2251	0.808	12.975	ug/L
|	Se	82	656.792	0.00	7.2192	0.269	3.724	ug/L
⌊	Rb	85	4274.290	0.01				mg/L
	Y	89	212039.581	382.02				ug/L
	Rh	103	206.004	193.34				ug/L
⌈	Mo	98	1938.043	0.01	0.7546	0.048	6.422	ug/L
|	Ag	107	21502.645	0.07	4.0034	0.109	2.734	ug/L
|	Cd	114	6024.309	0.02	5.3379	0.278	5.208	ug/L
| >	In	115	291585.228	291585.23				ug/L
|	Sn	118	374.407	0.00	-0.0626	0.004	5.615	ug/L
⌊	Sb	123	19489.332	0.07	5.3935	0.164	3.034	ug/L
⌈	Ba	135	10574.701	0.03	7.2162	0.324	4.487	ug/L
|	Ce	140	710.097	0.00				ug/L
⌊>	Tb	159	385367.301	385367.30				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	34536.893	0.11	5.5426	0.018	0.332	ug/L
|	Tl	205	86087.630	0.27	5.6346	0.026	0.455	ug/L
|	Pb	206	29717.771	0.09	5.8424	0.182	3.112	ug/L
|	Pb	207	26332.240	0.08	5.4970	0.142	2.583	ug/L
|	Pb	208	120932.317	0.38	5.7010	0.182	3.194	ug/L
|	U	238	376382.821	1.18	12.3674	0.388	3.139	ug/L
⌊>	Bi	209	317921.306	317921.31				ug/L

Sample ID: L1103057802S WG359563-06
Report Date/Time: Monday, March 28, 2011 13:02:03
Page 1

Approved: March 29, 2011



⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	105171984.836	710.62	38.0471	0.893	2.348	mg/L
|	K	39	7808065.491	50.37	1.4235	0.034	2.371	mg/L
|	Ca	43	455971.743	3.08	35.1154	1.094	3.116	mg/L
|	Fe	54	39672.153	0.04	0.0150	0.004	26.845	mg/L
|	Fe	57	23239.438	0.12	0.0881	0.007	8.058	mg/L
⌊>	Sc-1	45	148055.349	148055.35				mg/L
	Cl	35	343151.553	329289.95				mg/L
	Kr	83	66.001	8.00				mg/L
	Br	81	69112.679	64222.82				mg/L
	P	31	7670.960	2254.16				mg/L
	S	34	3716130.167	3568715.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.751			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.975			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.516			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.185			
⌈	Na	23					

Sample ID: L1103057802S WG359563-06
Report Date/Time: Monday, March 28, 2011 13:02:03
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103057802S WG359563-06
Report Date/Time: Monday, March 28, 2011 13:02:03
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057803SD WG359563-07

Sample Date/Time: Monday, March 28, 2011 13:06:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 17
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22759.222	0.03				ug/L
|	Be	9	1395.431	0.01	5.3091	0.277	5.222	ug/L
|	Al	27	45554.085	0.28	8.8858	1.038	11.685	ug/L
⌊>	Sc	45	143776.459	143776.46				ug/L
⌈	Ti	49	3280.869	0.01	7.1886	0.731	10.166	ug/L
|	V	51	41545.706	0.13	5.3575	0.190	3.541	ug/L
|	Cr	52	42012.173	0.11	5.4140	0.206	3.814	ug/L
|	Cr	53	4344.713	0.01	5.3486	0.351	6.554	ug/L
|	Mn	55	10589442.789	34.04	1079.7413	25.630	2.374	ug/L
|	Co	59	41619.517	0.13	5.5390	0.128	2.310	ug/L
|	Ni	60	11641.889	0.04	7.3819	0.126	1.708	ug/L
|	Cu	65	10181.617	0.03	6.2181	0.181	2.918	ug/L
|	Zn	66	9252.371	0.03	7.0165	0.197	2.809	ug/L
|>	Ge	72	311121.966	311121.97				ug/L
|	As	75	5437.842	0.02	5.7260	0.250	4.368	ug/L
|	Se	77	492.679	0.00	5.7168	0.348	6.081	ug/L
|	Se	82	619.085	0.00	6.8070	0.350	5.147	ug/L
⌊	Rb	85	4248.612	0.01				mg/L
	Y	89	212829.195	1171.63				ug/L
	Rh	103	225.005	212.34				ug/L
⌈	Mo	98	1019.528	0.00	0.3910	0.017	4.370	ug/L
|	Ag	107	24794.951	0.08	4.5444	0.096	2.103	ug/L
|	Cd	114	5801.755	0.02	5.0609	0.127	2.507	ug/L
|>	In	115	296182.092	296182.09				ug/L
|	Sn	118	202.269	0.00	-0.1067	0.002	1.641	ug/L
⌊	Sb	123	19256.290	0.06	5.2465	0.135	2.571	ug/L
⌈	Ba	135	9389.502	0.02	6.3397	0.227	3.585	ug/L
|	Ce	140	620.082	0.00				ug/L
⌊>	Tb	159	389214.004	389214.00				ug/L
⌈	Ho	165	53.339	0.00				ug/L
|	Tl	203	33388.985	0.10	5.3150	0.111	2.089	ug/L
|	Tl	205	82867.007	0.26	5.3812	0.224	4.172	ug/L
|	Pb	206	28758.582	0.09	5.6063	0.084	1.495	ug/L
|	Pb	207	25100.069	0.08	5.1954	0.252	4.844	ug/L
|	Pb	208	116068.872	0.36	5.4252	0.162	2.988	ug/L
|	U	238	358909.199	1.12	11.6954	0.250	2.135	ug/L
⌊>	Bi	209	320556.448	320556.45				ug/L

Sample ID: L1103057803SD WG359563-07
Report Date/Time: Monday, March 28, 2011 13:08:50
Page 1

Approved: March 29, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	118770923.811	826.38	44.2467	1.469	3.321	mg/L
|	K	39	8252967.214	55.05	1.5563	0.040	2.551	mg/L
|	Ca	43	435131.068	3.03	34.5128	1.797	5.208	mg/L
|	Fe	54	40421.396	0.06	0.0192	0.001	4.156	mg/L
|	Fe	57	21909.536	0.11	0.0849	0.008	9.458	mg/L
⌊>	Sc-1	45	143776.459	143776.46				mg/L
	Cl	35	231133.332	217271.73				mg/L
	Kr	83	70.334	12.33				mg/L
	Br	81	53246.724	48356.86				mg/L
	P	31	6676.234	1259.43				mg/L
	S	34	4091555.519	3944140.65				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.052			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.504			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.509			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.949			
⌈	Na	23					

Sample ID: L1103057803SD WG359563-07
Report Date/Time: Monday, March 28, 2011 13:08:50
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103057803SD WG359563-07
Report Date/Time: Monday, March 28, 2011 13:08:50
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057801 WG359563-01

Sample Date/Time: Monday, March 28, 2011 13:13:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 200

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18316.880	0.01				ug/L
|	Be	9	15.333	0.00	-0.0604	0.011	18.995	ug/L
|	Al	27	5601.572	0.01	0.3169	0.036	11.216	ug/L
⌊>	Sc	45	134448.282	134448.28				ug/L
⌈	Ti	49	136.681	0.00	0.2281	0.058	25.486	ug/L
|	V	51	2713.847	0.00	0.0598	0.013	21.907	ug/L
|	Cr	52	8913.060	0.00	0.1955	0.019	9.602	ug/L
|	Cr	53	396.715	0.00	0.1032	0.139	135.098	ug/L
|	Mn	55	253109.969	0.84	26.5129	0.239	0.902	ug/L
|	Co	59	103.668	0.00	0.0025	0.002	76.608	ug/L
|	Ni	60	129.335	0.00	0.0108	0.012	108.018	ug/L
|	Cu	65	248.006	0.00	0.0384	0.008	21.370	ug/L
|	Zn	66	2712.728	0.01	0.6294	0.049	7.864	ug/L
| >	Ge	72	302061.291	302061.29				ug/L
|	As	75	-138.302	-0.00	0.0948	0.012	12.688	ug/L
|	Se	77	55.333	0.00	0.0188	0.123	651.105	ug/L
|	Se	82	1.693	-0.00	0.3159	0.104	32.815	ug/L
⌊	Rb	85	141.002	0.00				mg/L
	Y	89	206191.124	-5466.44				ug/L
	Rh	103	26.334	13.67				ug/L
⌈	Mo	98	52.060	0.00	0.0208	0.002	10.152	ug/L
|	Ag	107	51.334	0.00	0.0091	0.001	8.859	ug/L
|	Cd	114	-1.378	0.00	0.0177	0.004	24.142	ug/L
| >	In	115	290443.020	290443.02				ug/L
|	Sn	118	187.468	0.00	-0.1095	0.002	1.811	ug/L
⌊	Sb	123	45.446	0.00	0.0067	0.003	45.846	ug/L
⌈	Ba	135	75.001	0.00	0.0185	0.004	22.333	ug/L
|	Ce	140	70.007	0.00				ug/L
⌊>	Tb	159	368001.380	368001.38				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	34.334	0.00	0.0007	0.000	50.988	ug/L
|	Tl	205	56.673	0.00	-0.0014	0.001	93.125	ug/L
|	Pb	206	310.675	0.00	-0.0002	0.001	614.356	ug/L
|	Pb	207	265.673	0.00	-0.0088	0.003	31.684	ug/L
|	Pb	208	1226.708	0.00	-0.0033	0.001	39.555	ug/L
|	U	238	4176.580	0.01	0.1271	0.000	0.234	ug/L
⌊>	Bi	209	321696.027	321696.03				ug/L

Sample ID: L1103057801 WG359563-01
Report Date/Time: Monday, March 28, 2011 13:15:36
Page 1

Approved: March 29, 2011

⌈	Na	23	16639830.067	123.79	4.5376	0.236	5.204	mg/L
|	Mg	24	2884200.475	21.46	1.1368	0.038	3.307	mg/L
|	K	39	561385.797	1.80	0.0422	0.003	7.107	mg/L
|	Ca	43	10443.164	0.08	0.8337	0.039	4.647	mg/L
|	Fe	54	31063.919	0.01	0.0032	0.006	182.709	mg/L
|	Fe	57	8087.418	0.02	0.0152	0.003	22.685	mg/L
⌊>	Sc-1	45	134448.282	134448.28				mg/L
	Cl	35	18700.140	4838.54				mg/L
	Kr	83	73.668	15.67				mg/L
	Br	81	9106.146	4216.28				mg/L
	P	31	4521.690	-895.11				mg/L
	S	34	257949.555	110534.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.109			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.595			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.031			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.279			
⌈	Na	23					

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057802S WG359563-06

Sample Date/Time: Monday, March 28, 2011 13:20:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 19
Method File: C:\elandata\Method\6020a.mth
Sample Description: 200

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18183.188	-0.01				ug/L
|	Be	9	53.333	0.00	0.0680	0.009	13.739	ug/L
|	Al	27	6869.026	0.01	0.4037	0.113	27.938	ug/L
⌊>	Sc	45	155079.369	155079.37				ug/L
⌈	Ti	49	180.020	0.00	0.3000	0.067	22.271	ug/L
|	V	51	3705.888	0.00	0.1648	0.008	4.970	ug/L
|	Cr	52	9721.489	0.00	0.2223	0.031	13.807	ug/L
|	Cr	53	450.055	0.00	0.1353	0.101	74.350	ug/L
|	Mn	55	280656.718	0.87	27.4535	0.207	0.756	ug/L
|	Co	59	1127.075	0.00	0.1328	0.003	2.075	ug/L
|	Ni	60	382.344	0.00	0.1610	0.015	9.464	ug/L
|	Cu	65	481.683	0.00	0.1678	0.010	6.203	ug/L
|	Zn	66	3897.465	0.01	1.5728	0.059	3.722	ug/L
| >	Ge	72	323500.812	323500.81				ug/L
|	As	75	-0.281	0.00	0.2380	0.042	17.475	ug/L
|	Se	77	71.334	0.00	0.1708	0.067	39.201	ug/L
|	Se	82	19.479	0.00	0.4944	0.148	29.983	ug/L
⌊	Rb	85	131.669	0.00				mg/L
	Y	89	222725.435	11067.87				ug/L
	Rh	103	20.667	8.00				ug/L
⌈	Mo	98	69.950	0.00	0.0257	0.000	0.664	ug/L
|	Ag	107	652.028	0.00	0.1120	0.006	5.233	ug/L
|	Cd	114	148.167	0.00	0.1402	0.008	5.446	ug/L
| >	In	115	314486.939	314486.94				ug/L
|	Sn	118	183.335	0.00	-0.1140	0.004	3.687	ug/L
⌊	Sb	123	545.051	0.00	0.1340	0.007	5.243	ug/L
⌈	Ba	135	288.674	0.00	0.1520	0.003	1.843	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	407085.823	407085.82				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	859.046	0.00	0.1183	0.009	7.278	ug/L
|	Tl	205	2013.737	0.01	0.1125	0.001	0.689	ug/L
|	Pb	206	1072.068	0.00	0.1287	0.009	7.218	ug/L
|	Pb	207	881.048	0.00	0.1016	0.004	3.962	ug/L
|	Pb	208	4240.067	0.01	0.1190	0.003	2.770	ug/L
|	U	238	8790.285	0.02	0.2489	0.002	0.861	ug/L
⌊>	Bi	209	356706.725	356706.73				ug/L

Sample ID: L1103057802S WG359563-06
Report Date/Time: Monday, March 28, 2011 13:22:23
Page 1

Approved: March 29, 2011

Na	23	16336081.059	105.42	3.8627	0.162	4.198	mg/L	
Mg	24	2768492.553	17.87	0.9445	0.032	3.375	mg/L	
K	39	569335.440	1.31	0.0280	0.006	22.937	mg/L	
Ca	43	11431.011	0.07	0.7903	0.065	8.283	mg/L	
Fe	54	32632.943	-0.01	-0.0034	0.004	123.755	mg/L	
Fe	57	7530.257	0.01	0.0065	0.003	40.467	mg/L	
Sc-1	45	155079.369	155079.37				mg/L	
Cl	35	21418.249	7556.65				mg/L	
Kr	83	60.001	2.00				mg/L	
Br	81	8023.218	3133.36				mg/L	
P	31	5458.828	42.03				mg/L	
S	34	257559.447	110144.57				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		105.073			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		104.592			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		105.124			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		103.431			
Na	23					

Sample ID: L1103057802S WG359563-06
Report Date/Time: Monday, March 28, 2011 13:22:23
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103057802S WG359563-06
Report Date/Time: Monday, March 28, 2011 13:22:23
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057803SD WG359563-07

Sample Date/Time: Monday, March 28, 2011 13:26:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 20
Method File: C:\elandata\Method\6020a.mth
Sample Description: 200

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17565.436	-0.01				ug/L
|	Be	9	43.333	0.00	0.0407	0.031	75.821	ug/L
|	Al	27	6735.603	0.01	0.4459	0.072	16.201	ug/L
⌊>	Sc	45	147226.837	147226.84				ug/L
⌈	Ti	49	170.019	0.00	0.2937	0.188	63.958	ug/L
|	V	51	3533.166	0.00	0.1596	0.020	12.523	ug/L
|	Cr	52	9504.277	0.00	0.2436	0.063	26.037	ug/L
|	Cr	53	423.385	0.00	0.1223	0.108	88.697	ug/L
|	Mn	55	265945.743	0.85	26.9820	0.813	3.014	ug/L
|	Co	59	1075.735	0.00	0.1313	0.005	3.960	ug/L
|	Ni	60	348.343	0.00	0.1481	0.011	7.678	ug/L
|	Cu	65	435.014	0.00	0.1499	0.030	20.306	ug/L
|	Zn	66	2683.387	0.01	0.5129	0.054	10.619	ug/L
| >	Ge	72	312032.265	312032.26				ug/L
|	As	75	-24.630	0.00	0.2143	0.031	14.691	ug/L
|	Se	77	69.334	0.00	0.1767	0.181	102.610	ug/L
|	Se	82	14.038	0.00	0.4444	0.084	18.879	ug/L
⌊	Rb	85	126.002	0.00				mg/L
	Y	89	212516.312	858.75				ug/L
	Rh	103	24.667	12.00				ug/L
⌈	Mo	98	57.877	0.00	0.0221	0.002	7.771	ug/L
|	Ag	107	672.363	0.00	0.1198	0.003	2.380	ug/L
|	Cd	114	166.074	0.00	0.1601	0.019	12.074	ug/L
| >	In	115	303303.394	303303.39				ug/L
|	Sn	118	205.735	0.00	-0.1070	0.003	3.144	ug/L
⌊	Sb	123	525.756	0.00	0.1342	0.005	3.952	ug/L
⌈	Ba	135	253.006	0.00	0.1364	0.009	6.664	ug/L
|	Ce	140	46.671	0.00				ug/L
⌊>	Tb	159	389216.958	389216.96				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	880.048	0.00	0.1270	0.004	3.286	ug/L
|	Tl	205	2147.113	0.01	0.1262	0.014	11.019	ug/L
|	Pb	206	989.726	0.00	0.1221	0.003	2.457	ug/L
|	Pb	207	911.384	0.00	0.1152	0.007	6.404	ug/L
|	Pb	208	4112.043	0.01	0.1216	0.007	5.657	ug/L
|	U	238	8480.014	0.02	0.2513	0.011	4.243	ug/L
⌊>	Bi	209	341057.203	341057.20				ug/L

Sample ID: L1103057803SD WG359563-07
Report Date/Time: Monday, March 28, 2011 13:29:11
Page 1

Approved: March 29, 2011

⌈	Na	23	17562563.395	119.34	4.3741	0.211	4.829	mg/L
|	Mg	24	3096837.997	21.05	1.1149	0.057	5.096	mg/L
|	K	39	588769.173	1.63	0.0372	0.003	7.372	mg/L
|	Ca	43	10953.769	0.07	0.7961	0.043	5.427	mg/L
|	Fe	54	32572.264	-0.00	-0.0001	0.003	3670.350	mg/L
|	Fe	57	7670.376	0.01	0.0092	0.003	29.404	mg/L
⌊>	Sc-1	45	147226.837	147226.84				mg/L
	Cl	35	18533.826	4672.22				mg/L
	Kr	83	72.334	14.33				mg/L
	Br	81	7110.528	2220.67				mg/L
	P	31	5098.635	-318.17				mg/L
	S	34	272134.521	124719.65				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.348			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.872			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.510			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.893			
⌈	Na	23					

Sample ID: L1103057803SD WG359563-07
Report Date/Time: Monday, March 28, 2011 13:29:11
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103057803SD WG359563-07
Report Date/Time: Monday, March 28, 2011 13:29:11
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 28, 2011 13:33:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16847.534	-0.00				ug/L
|	Be	9	13046.507	0.09	52.9948	1.708	3.223	ug/L
|	Al	27	234878.989	1.67	52.1559	1.448	2.776	ug/L
⌊>	Sc	45	137523.738	137523.74				ug/L
⌈	Ti	49	45276.786	0.15	102.8970	0.411	0.399	ug/L
|	V	51	363120.802	1.19	50.6404	0.496	0.980	ug/L
|	Cr	52	319936.047	1.03	50.9393	0.562	1.102	ug/L
|	Cr	53	36710.938	0.12	49.7804	0.859	1.726	ug/L
|	Mn	55	489033.966	1.61	51.1318	0.690	1.349	ug/L
|	Co	59	374829.096	1.24	51.3123	0.320	0.623	ug/L
|	Ni	60	78993.622	0.26	51.8712	0.828	1.597	ug/L
|	Cu	65	81289.595	0.27	51.8342	0.743	1.432	ug/L
|	Zn	66	52101.907	0.17	50.7654	0.500	0.986	ug/L
⌊>	Ge	72	302978.296	302978.30				ug/L
|	As	75	49476.659	0.16	51.4899	0.149	0.290	ug/L
|	Se	77	3983.461	0.01	52.7362	2.108	3.998	ug/L
|	Se	82	4842.999	0.02	52.5647	1.365	2.597	ug/L
⌊	Rb	85	1894.198	0.01				mg/L
	Y	89	209955.461	-1702.10				ug/L
	Rh	103	26.667	14.00				ug/L
⌈	Mo	98	267740.506	0.89	101.1534	1.110	1.098	ug/L
|	Ag	107	279712.367	0.93	50.5615	0.232	0.458	ug/L
|	Cd	114	59367.174	0.20	50.9073	0.428	0.841	ug/L
⌊>	In	115	300274.904	300274.90				ug/L
|	Sn	118	207147.192	0.69	50.4232	0.446	0.885	ug/L
⌊	Sb	123	187592.411	0.62	50.4602	0.644	1.276	ug/L
⌈	Ba	135	75850.037	0.19	51.3104	0.143	0.278	ug/L
|	Ce	140	60.006	0.00				ug/L
⌊>	Tb	159	390309.797	390309.80				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	325234.606	0.99	50.5046	0.906	1.794	ug/L
|	Tl	205	798795.249	2.43	50.5894	0.360	0.712	ug/L
|	Pb	206	265798.317	0.81	50.9980	0.467	0.916	ug/L
|	Pb	207	249336.054	0.76	50.8503	0.657	1.291	ug/L
|	Pb	208	1107461.875	3.36	50.9583	0.648	1.271	ug/L
|	U	238	1743894.977	5.30	55.4229	0.596	1.075	ug/L
⌊>	Bi	209	328812.870	328812.87				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 13:35:58
Page 1

Approved: March 29, 2011

⌈	Na	23	20092103.447	146.18	5.3606	0.253	4.710	mg/L
|	Mg	24	13701966.576	99.76	5.3302	0.232	4.345	mg/L
|	K	39	25974044.199	186.82	5.3038	0.311	5.868	mg/L
|	Ca	43	64752.109	0.47	5.3285	0.268	5.036	mg/L
|	Fe	54	2263818.900	16.26	5.2259	0.302	5.771	mg/L
|	Fe	57	961949.393	6.97	5.2581	0.237	4.514	mg/L
⌊>	Sc-1	45	137523.738	137523.74				mg/L
	Cl	35	12998.444	-863.16				mg/L
	Kr	83	67.668	9.67				mg/L
	Br	81	5825.030	935.17				mg/L
	P	31	5200.021	-216.78				mg/L
	S	34	139377.628	-8037.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	101.281				
|	Cr	52	101.879				
|	Cr	53					
|	Mn	55	102.264				
|	Co	59	102.625				
|	Ni	60	103.742				
|	Cu	65	103.668				
|	Zn	66	101.531				
|>	Ge	72		98.407			
|	As	75	102.980				
|	Se	77					
|	Se	82	105.129				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	101.123				
|	Cd	114	101.815				
|>	In	115		99.865			
|	Sn	118					
⌊	Sb	123	100.920				
⌈	Ba	135	102.621				
|	Ce	140					
⌊>	Tb	159		100.792			
⌈	Ho	165					
|	Tl	203	101.009				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	101.917				
|	U	238	110.846				
⌊>	Bi	209		95.343			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 13:35:58
Page 2

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 13:35:58
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 28, 2011 13:41:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15895.989	-0.01				ug/L
|	Be	9	14.000	0.00	-0.0671	0.016	23.412	ug/L
|	Al	27	4867.851	0.00	0.1232	0.054	44.163	ug/L
|>	Sc	45	137607.716	137607.72				ug/L
⌈	Ti	49	56.673	-0.00	0.0460	0.073	159.745	ug/L
|	V	51	2199.021	-0.00	-0.0108	0.009	83.921	ug/L
|	Cr	52	7359.781	-0.00	-0.0513	0.021	41.830	ug/L
|	Cr	53	266.697	-0.00	-0.0737	0.012	16.284	ug/L
|	Mn	55	334.009	-0.00	-0.0304	0.001	4.756	ug/L
|	Co	59	57.001	-0.00	-0.0039	0.001	19.203	ug/L
|	Ni	60	40.000	-0.00	-0.0479	0.001	1.402	ug/L
|	Cu	65	151.336	0.00	-0.0229	0.006	27.419	ug/L
|	Zn	66	346.343	-0.00	-1.7784	0.013	0.738	ug/L
|>	Ge	72	300246.353	300246.35				ug/L
|	As	75	-91.725	0.00	0.1433	0.086	59.973	ug/L
|	Se	77	61.334	0.00	0.1062	0.171	161.293	ug/L
|	Se	82	21.166	0.00	0.5301	0.237	44.746	ug/L
⌊	Rb	85	31.667	0.00				mg/L
	Y	89	210085.235	-1572.33				ug/L
	Rh	103	14.000	1.33				ug/L
⌈	Mo	98	96.764	0.00	0.0375	0.002	6.465	ug/L
|	Ag	107	36.000	0.00	0.0061	0.001	14.484	ug/L
|	Cd	114	-8.134	-0.00	0.0119	0.002	14.225	ug/L
|>	In	115	296167.907	296167.91				ug/L
|	Sn	118	258.670	0.00	-0.0927	0.004	4.121	ug/L
⌊	Sb	123	52.026	0.00	0.0083	0.001	10.748	ug/L
⌈	Ba	135	22.334	-0.00	-0.0200	0.007	34.061	ug/L
|	Ce	140	13.335	-0.00				ug/L
|>	Tb	159	384785.106	384785.11				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	42.334	0.00	0.0019	0.002	128.085	ug/L
|	Tl	205	50.005	0.00	-0.0019	0.001	32.019	ug/L
|	Pb	206	296.341	0.00	-0.0041	0.005	127.845	ug/L
|	Pb	207	256.006	-0.00	-0.0119	0.002	16.816	ug/L
|	Pb	208	1178.706	0.00	-0.0066	0.001	18.212	ug/L
|	U	238	100.335	0.00	-0.0054	0.001	11.110	ug/L
|>	Bi	209	328172.383	328172.38				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 13:43:12
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	20830.422	0.06	-0.0092	0.000	1.731	mg/L
|	Mg	24	533.402	0.00	-0.0127	0.000	0.435	mg/L
|	K	39	351243.692	0.18	-0.0040	0.003	66.898	mg/L
|	Ca	43	323.371	0.00	-0.0266	0.002	7.646	mg/L
|	Fe	54	31101.027	0.00	0.0015	0.001	44.670	mg/L
|	Fe	57	5178.526	-0.00	-0.0018	0.001	49.533	mg/L
⌊>	Sc-1	45	137607.716	137607.72				mg/L
	Cl	35	12095.978	-1765.63				mg/L
	Kr	83	57.667	-0.33				mg/L
	Br	81	5682.281	792.42				mg/L
	P	31	4735.791	-681.01				mg/L
	S	34	131048.514	-16366.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.520			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.499			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.365			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.157			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 13:43:12

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 7	Se	82	CCB IS OUT OF LIMITS (+/-1/2RL)

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 13:43:12
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057801PS WG359640-03

Sample Date/Time: Monday, March 28, 2011 13:47:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21389.525	0.03				ug/L
|	Be	9	12756.283	0.09	52.6128	8.761	16.652	ug/L
|	Al	27	233054.231	1.69	52.5633	9.145	17.398	ug/L
⌊>	Sc	45	135309.987	135309.99				ug/L
⌈	Ti	49	2507.233	0.01	5.8030	0.472	8.139	ug/L
|	V	51	374213.472	1.27	53.8994	9.828	18.234	ug/L
|	Cr	52	323942.912	1.08	53.3125	9.638	18.079	ug/L
|	Cr	53	37094.234	0.13	51.9477	10.532	20.275	ug/L
|	Mn	55	9783247.911	33.35	1057.6894	11.607	1.097	ug/L
|	Co	59	375719.276	1.28	53.1099	9.579	18.036	ug/L
|	Ni	60	81581.771	0.28	55.3178	9.279	16.775	ug/L
|	Cu	65	80856.796	0.28	53.2343	8.647	16.243	ug/L
|	Zn	66	52024.421	0.18	52.4026	9.239	17.631	ug/L
| >	Ge	72	293399.018	293399.02				ug/L
|	As	75	49555.949	0.17	53.2400	8.738	16.413	ug/L
|	Se	77	4003.479	0.01	54.7577	8.132	14.851	ug/L
|	Se	82	4862.669	0.02	54.4846	8.747	16.054	ug/L
⌊	Rb	85	3822.102	0.01				mg/L
	Y	89	204156.506	-7501.06				ug/L
	Rh	103	197.337	184.67				ug/L
⌈	Mo	98	1003.425	0.00	0.4019	0.028	6.943	ug/L
|	Ag	107	249973.534	0.88	47.7958	6.801	14.230	ug/L
|	Cd	114	54784.971	0.19	49.7294	9.826	19.758	ug/L
| >	In	115	283912.949	283912.95				ug/L
|	Sn	118	242.136	0.00	-0.0942	0.002	1.879	ug/L
⌊	Sb	123	185439.490	0.65	52.7692	9.355	17.728	ug/L
⌈	Ba	135	74166.677	0.20	52.6890	9.658	18.330	ug/L
|	Ce	140	546.736	0.00				ug/L
⌊>	Tb	159	371764.171	371764.17				ug/L
⌈	Ho	165	73.341	0.00				ug/L
|	Tl	203	311895.823	1.06	54.0267	8.087	14.968	ug/L
|	Tl	205	773114.295	2.62	54.6146	7.799	14.281	ug/L
|	Pb	206	261175.273	0.89	55.9027	9.962	17.820	ug/L
|	Pb	207	231139.396	0.78	52.5832	9.604	18.264	ug/L
|	Pb	208	1067479.813	3.62	54.7935	9.687	17.680	ug/L
|	U	238	1720659.486	5.84	61.0055	10.018	16.422	ug/L
⌊>	Bi	209	294723.822	294723.82				ug/L

Sample ID: L1103057801PS WG359640-03
Report Date/Time: Monday, March 28, 2011 13:50:00
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	104034982.790	769.27	41.1881	0.972	2.359	mg/L
|	K	39	7137065.771	50.40	1.4243	0.042	2.956	mg/L
|	Ca	43	376643.794	2.78	31.7326	0.753	2.374	mg/L
|	Fe	54	36806.605	0.05	0.0163	0.004	21.893	mg/L
|	Fe	57	18048.079	0.09	0.0706	0.005	7.290	mg/L
⌊>	Sc-1	45	135309.987	135309.99				mg/L
	Cl	35	201744.761	187883.16				mg/L
	Kr	83	71.001	13.00				mg/L
	Br	81	41190.731	36300.87				mg/L
	P	31	5978.464	561.66				mg/L
	S	34	3502980.505	3355565.63				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.296			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.424			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.003			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		85.458			
⌈	Na	23					

Sample ID: L1103057801PS WG359640-03
Report Date/Time: Monday, March 28, 2011 13:50:00
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103057801PS WG359640-03
Report Date/Time: Monday, March 28, 2011 13:50:00
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057801SDL WG359640-04

Sample Date/Time: Monday, March 28, 2011 13:54:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 22
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20771.567	0.01				ug/L
|	Be	9	14.000	0.00	-0.0723	0.031	43.109	ug/L
|	Al	27	24179.389	0.13	4.0301	0.625	15.505	ug/L
⌊>	Sc	45	150474.526	150474.53				ug/L
⌈	Ti	49	550.070	0.00	1.0753	0.157	14.554	ug/L
|	V	51	2909.650	0.00	0.0558	0.007	12.277	ug/L
|	Cr	52	9410.521	0.00	0.1583	0.015	9.550	ug/L
|	Cr	53	346.708	-0.00	-0.0034	0.112	3279.289	ug/L
|	Mn	55	2090417.843	6.39	202.5591	1.443	0.712	ug/L
|	Co	59	433.347	0.00	0.0432	0.004	8.687	ug/L
|	Ni	60	824.709	0.00	0.4275	0.029	6.693	ug/L
|	Cu	65	585.023	0.00	0.2257	0.007	3.087	ug/L
|	Zn	66	4289.630	0.01	1.8989	0.037	1.975	ug/L
|>	Ge	72	327250.068	327250.07				ug/L
|	As	75	-43.947	0.00	0.1960	0.061	31.115	ug/L
|	Se	77	69.334	0.00	0.1345	0.192	142.542	ug/L
|	Se	82	28.424	0.00	0.5807	0.170	29.263	ug/L
⌊	Rb	85	894.716	0.00				mg/L
	Y	89	221743.861	10086.30				ug/L
	Rh	103	54.667	42.00				ug/L
⌈	Mo	98	248.658	0.00	0.0909	0.008	9.190	ug/L
|	Ag	107	65.334	0.00	0.0109	0.001	13.003	ug/L
|	Cd	114	-3.086	-0.00	0.0164	0.003	16.381	ug/L
|>	In	115	311980.162	311980.16				ug/L
|	Sn	118	450.677	0.00	-0.0509	0.002	3.152	ug/L
⌊	Sb	123	402.704	0.00	0.0986	0.014	14.359	ug/L
⌈	Ba	135	404.346	0.00	0.2299	0.015	6.691	ug/L
|	Ce	140	166.685	0.00				ug/L
⌊>	Tb	159	402709.365	402709.36				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	52.334	0.00	0.0030	0.002	81.975	ug/L
|	Tl	205	123.346	0.00	0.0024	0.002	95.154	ug/L
|	Pb	206	362.344	0.00	0.0054	0.004	71.078	ug/L
|	Pb	207	326.675	0.00	-0.0004	0.002	419.284	ug/L
|	Pb	208	1466.390	0.00	0.0036	0.001	20.897	ug/L
|	U	238	35365.803	0.10	1.0668	0.015	1.365	ug/L
⌊>	Bi	209	343695.918	343695.92				ug/L

Sample ID: L1103057801SDL WG359640-04
Report Date/Time: Monday, March 28, 2011 13:56:48
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	135941719.541	903.59	33.1941	0.597	1.798	mg/L
|	Mg	24	23985530.160	159.48	8.5289	0.206	2.415	mg/L
|	K	39	1855159.923	9.96	0.2742	0.010	3.806	mg/L
|	Ca	43	83613.124	0.55	6.2940	0.235	3.732	mg/L
|	Fe	54	35485.119	0.01	0.0047	0.004	91.134	mg/L
|	Fe	57	9635.606	0.03	0.0181	0.002	12.198	mg/L
⌊>	Sc-1	45	150474.526	150474.53				mg/L
	Cl	35	55132.919	41271.32				mg/L
	Kr	83	66.334	8.33				mg/L
	Br	81	14489.160	9599.30				mg/L
	P	31	5481.503	64.70				mg/L
	S	34	1090356.264	942941.39				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.290			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.758			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.994			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.658			
⌈	Na	23					

Sample ID: L1103057801SDL WG359640-04
Report Date/Time: Monday, March 28, 2011 13:56:48
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103057801SDL WG359640-04
Report Date/Time: Monday, March 28, 2011 13:56:48
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057801PS WG359640-03

Sample Date/Time: Monday, March 28, 2011 14:01:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 23
Method File: C:\elandata\Method\6020a.mth
Sample Description: 200

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19786.263	-0.00				ug/L
|	Be	9	14315.578	0.09	50.7601	2.287	4.506	ug/L
|	Al	27	247953.950	1.54	47.9889	0.870	1.812	ug/L
⌊>	Sc	45	157497.785	157497.79				ug/L
⌈	Ti	49	183.353	0.00	0.2945	0.114	38.610	ug/L
|	V	51	389499.221	1.16	49.2769	0.263	0.533	ug/L
|	Cr	52	351141.460	1.03	50.7210	0.406	0.801	ug/L
|	Cr	53	41125.197	0.12	50.5989	0.893	1.764	ug/L
|	Mn	55	822432.173	2.46	78.0473	1.233	1.580	ug/L
|	Co	59	409537.761	1.23	50.8641	0.884	1.739	ug/L
|	Ni	60	86465.466	0.26	51.5134	0.586	1.138	ug/L
|	Cu	65	90224.889	0.27	52.1971	0.762	1.461	ug/L
|	Zn	66	58240.395	0.17	51.5134	0.630	1.223	ug/L
|>	Ge	72	333933.515	333933.52				ug/L
|	As	75	52296.063	0.16	49.3884	0.227	0.460	ug/L
|	Se	77	4244.901	0.01	50.9658	1.187	2.328	ug/L
|	Se	82	5156.148	0.02	50.7816	1.168	2.301	ug/L
⌊	Rb	85	131.336	0.00				mg/L
	Y	89	232269.787	20612.22				ug/L
	Rh	103	46.334	33.67				ug/L
⌈	Mo	98	83.763	0.00	0.0300	0.007	24.549	ug/L
|	Ag	107	301306.179	0.93	50.7273	0.299	0.588	ug/L
|	Cd	114	62852.509	0.19	50.1868	0.665	1.326	ug/L
|>	In	115	322416.894	322416.89				ug/L
|	Sn	118	224.936	0.00	-0.1056	0.003	2.817	ug/L
⌊	Sb	123	197354.625	0.61	49.4336	0.218	0.442	ug/L
⌈	Ba	135	79353.094	0.19	50.0770	0.311	0.621	ug/L
|	Ce	140	76.675	0.00				ug/L
⌊>	Tb	159	418372.486	418372.49				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	346282.845	0.96	49.0837	0.526	1.072	ug/L
|	Tl	205	855434.362	2.37	49.4536	0.648	1.310	ug/L
|	Pb	206	291471.397	0.81	51.0471	0.539	1.057	ug/L
|	Pb	207	258705.384	0.72	48.1550	0.353	0.732	ug/L
|	Pb	208	1188996.176	3.30	49.9366	0.360	0.721	ug/L
|	U	238	1729985.762	4.80	50.1826	0.680	1.356	ug/L
⌊>	Bi	209	360224.025	360224.03				ug/L

Sample ID: L1103057801PS WG359640-03
Report Date/Time: Monday, March 28, 2011 14:03:33
Page 1

Approved: March 29, 2011

⌈	Na	23	18171337.666	115.32	4.2266	0.155	3.675	mg/L
|	Mg	24	3210718.720	20.39	1.0793	0.032	2.979	mg/L
|	K	39	601825.866	1.45	0.0321	0.003	9.263	mg/L
|	Ca	43	11728.054	0.07	0.7965	0.028	3.509	mg/L
|	Fe	54	35998.509	0.00	0.0023	0.005	194.923	mg/L
|	Fe	57	7220.005	0.01	0.0044	0.003	62.854	mg/L
⌊>	Sc-1	45	157497.785	157497.79				mg/L
	Cl	35	18204.555	4342.95				mg/L
	Kr	83	69.334	11.33				mg/L
	Br	81	7532.837	2642.97				mg/L
	P	31	5792.348	375.55				mg/L
	S	34	270733.512	123318.64				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		108.461			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.229			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.039			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.451			
⌈	Na	23					

Sample ID: L1103057801PS WG359640-03
Report Date/Time: Monday, March 28, 2011 14:03:33
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103057801PS WG359640-03
Report Date/Time: Monday, March 28, 2011 14:03:33
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 28, 2011 14:08:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19001.373	-0.00				ug/L
|	Be	9	14206.751	0.09	51.1445	1.019	1.993	ug/L
|	Al	27	254190.458	1.60	50.0031	0.196	0.392	ug/L
|>	Sc	45	155059.822	155059.82				ug/L
⌈	Ti	49	49668.058	0.15	101.4805	1.613	1.590	ug/L
|	V	51	397757.474	1.17	49.8798	0.839	1.682	ug/L
|	Cr	52	350716.752	1.01	50.1940	0.705	1.405	ug/L
|	Cr	53	39876.691	0.12	48.6168	1.414	2.909	ug/L
|	Mn	55	534653.390	1.59	50.2661	0.380	0.756	ug/L
|	Co	59	407646.971	1.21	50.1831	0.749	1.492	ug/L
|	Ni	60	86426.067	0.26	51.0353	0.832	1.630	ug/L
|	Cu	65	88947.155	0.26	51.0091	1.598	3.132	ug/L
|	Zn	66	56804.789	0.17	49.7266	0.219	0.441	ug/L
|>	Ge	72	336955.390	336955.39				ug/L
|	As	75	53853.040	0.16	50.3999	0.746	1.480	ug/L
|	Se	77	4292.921	0.01	51.0933	1.353	2.648	ug/L
|	Se	82	5209.184	0.02	50.8492	0.343	0.675	ug/L
⌊	Rb	85	2111.577	0.01				mg/L
	Y	89	228853.106	17195.54				ug/L
	Rh	103	28.000	15.33				ug/L
⌈	Mo	98	288194.196	0.87	99.1677	1.607	1.620	ug/L
|	Ag	107	304141.562	0.92	50.0747	0.276	0.550	ug/L
|	Cd	114	63958.182	0.19	49.9467	0.244	0.489	ug/L
|>	In	115	329691.056	329691.06				ug/L
|	Sn	118	221005.905	0.67	48.9908	0.008	0.017	ug/L
⌊	Sb	123	200512.241	0.61	49.1201	0.410	0.835	ug/L
⌈	Ba	135	80773.047	0.19	50.2248	0.369	0.736	ug/L
|	Ce	140	46.672	0.00				ug/L
|>	Tb	159	424622.637	424622.64				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	351390.687	0.97	49.6697	0.387	0.779	ug/L
|	Tl	205	860917.845	2.38	49.6319	0.622	1.254	ug/L
|	Pb	206	285530.273	0.79	49.8697	0.673	1.349	ug/L
|	Pb	207	269568.451	0.75	50.0403	0.084	0.167	ug/L
|	Pb	208	1197216.293	3.31	50.1437	0.397	0.792	ug/L
|	U	238	1906215.395	5.28	55.1436	0.025	0.046	ug/L
|>	Bi	209	361222.744	361222.74				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 14:10:20
Page 1

Approved: March 29, 2011

Erin D. Long

Na	23	22020526.766	141.96	5.2054	0.129	2.485	mg/L	
Mg	24	14914874.429	96.19	5.1393	0.046	0.895	mg/L	
K	39	28517427.104	181.56	5.1541	0.061	1.182	mg/L	
Ca	43	69984.364	0.45	5.0987	0.059	1.165	mg/L	
Fe	54	2552209.226	16.24	5.2185	0.173	3.307	mg/L	
Fe	57	1063703.226	6.82	5.1507	0.132	2.568	mg/L	
> Sc-1	45	155059.822	155059.82				mg/L	
Cl	35	12352.293	-1509.31				mg/L	
Kr	83	68.334	10.33				mg/L	
Br	81	6111.202	1221.34				mg/L	
P	31	6378.045	961.24				mg/L	
S	34	142643.771	-4771.10				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	99.760				
Cr	52	100.388				
Cr	53					
Mn	55	100.532				
Co	59	100.366				
Ni	60	102.071				
Cu	65	102.018				
Zn	66	99.453				
> Ge	72		109.443			
As	75	100.800				
Se	77					
Se	82	101.698				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.149				
Cd	114	99.893				
> In	115		109.648			
Sn	118					
Sb	123	98.240				
Ba	135	100.450				
Ce	140					
> Tb	159		109.653			
Ho	165					
Tl	203	99.339				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.287				
U	238	110.287				
> Bi	209		104.740			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 14:10:20

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 14:10:20
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 28, 2011 14:15:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17565.446	-0.01				ug/L
|	Be	9	8.667	-0.00	-0.0927	0.003	3.694	ug/L
|	Al	27	5168.009	-0.00	0.0637	0.129	201.919	ug/L
⌊>	Sc	45	154705.254	154705.25				ug/L
⌈	Ti	49	60.006	-0.00	0.0400	0.042	104.762	ug/L
|	V	51	2366.326	-0.00	-0.0214	0.003	12.307	ug/L
|	Cr	52	7906.204	-0.00	-0.0945	0.008	8.494	ug/L
|	Cr	53	263.363	-0.00	-0.1158	0.080	68.798	ug/L
|	Mn	55	369.344	-0.00	-0.0307	0.002	6.982	ug/L
|	Co	59	62.667	-0.00	-0.0040	0.001	26.593	ug/L
|	Ni	60	42.667	-0.00	-0.0491	0.001	1.219	ug/L
|	Cu	65	169.003	0.00	-0.0227	0.005	24.172	ug/L
|	Zn	66	412.679	-0.00	-1.7537	0.007	0.391	ug/L
|>	Ge	72	334405.396	334405.40				ug/L
|	As	75	-107.800	0.00	0.1375	0.015	10.878	ug/L
|	Se	77	59.334	0.00	-0.0030	0.165	5526.145	ug/L
|	Se	82	7.751	-0.00	0.3735	0.029	7.812	ug/L
⌊	Rb	85	28.667	0.00				mg/L
	Y	89	231844.079	20186.52				ug/L
	Rh	103	17.000	4.33				ug/L
⌈	Mo	98	108.947	0.00	0.0378	0.004	11.519	ug/L
|	Ag	107	41.667	0.00	0.0063	0.001	14.275	ug/L
|	Cd	114	1.355	0.00	0.0200	0.000	1.187	ug/L
|>	In	115	331169.816	331169.82				ug/L
|	Sn	118	278.937	0.00	-0.0950	0.005	5.181	ug/L
⌊	Sb	123	203.368	0.00	0.0437	0.003	7.553	ug/L
⌈	Ba	135	26.667	-0.00	-0.0186	0.002	9.547	ug/L
|	Ce	140	33.337	-0.00				ug/L
⌊>	Tb	159	422106.737	422106.74				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	43.334	0.00	0.0014	0.000	35.828	ug/L
|	Tl	205	70.007	0.00	-0.0011	0.001	104.767	ug/L
|	Pb	206	334.342	0.00	-0.0029	0.001	30.363	ug/L
|	Pb	207	290.007	-0.00	-0.0105	0.005	47.854	ug/L
|	Pb	208	1344.049	0.00	-0.0049	0.001	29.598	ug/L
|	U	238	112.335	0.00	-0.0054	0.001	9.907	ug/L
⌊>	Bi	209	362347.555	362347.55				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 14:17:34
Page 1

Approved: March 29, 2011

Na	23	26557.893	0.08	-0.0084	0.000	4.556	mg/L
Mg	24	450.055	0.00	-0.0127	0.000	0.193	mg/L
K	39	368223.112	0.01	-0.0089	0.003	32.816	mg/L
Ca	43	323.371	-0.00	-0.0294	0.008	25.844	mg/L
Fe	54	33684.331	-0.01	-0.0012	0.003	215.282	mg/L
Fe	57	5668.852	-0.00	-0.0026	0.002	79.422	mg/L
Sc-1	45	154705.254	154705.25				mg/L
Cl	35	12250.834	-1610.77				mg/L
Kr	83	67.001	9.00				mg/L
Br	81	6243.282	1353.42				mg/L
P	31	6476.764	1059.96				mg/L
S	34	145022.721	-2392.15				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		108.614			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		110.140			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		109.003			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		105.066			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 14:17:34

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 14:17:34

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: PBW 81 WG359793-04

Sample Date/Time: Monday, March 28, 2011 14:24:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 24
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20103.585	-0.01				ug/L
|	Be	9	11.333	-0.00	-0.0855	0.021	24.895	ug/L
|	Al	27	17264.931	0.07	2.2578	0.249	11.024	ug/L
⌊>	Sc	45	166120.250	166120.25				ug/L
⌈	Ti	49	96.677	0.00	0.1057	0.047	44.384	ug/L
|	V	51	2518.692	-0.00	-0.0169	0.016	95.559	ug/L
|	Cr	52	9486.927	0.00	0.0738	0.004	6.019	ug/L
|	Cr	53	400.048	0.00	0.0318	0.129	404.686	ug/L
|	Mn	55	1856.191	0.00	0.1022	0.004	4.005	ug/L
|	Co	59	95.668	0.00	-0.0005	0.001	139.888	ug/L
|	Ni	60	146.003	0.00	0.0085	0.016	193.745	ug/L
|	Cu	65	357.343	0.00	0.0767	0.003	3.602	ug/L
|	Zn	66	5004.969	0.01	2.2561	0.008	0.339	ug/L
|>	Ge	72	350749.867	350749.87				ug/L
|	As	75	-156.723	-0.00	0.0983	0.014	14.683	ug/L
|	Se	77	54.000	-0.00	-0.0987	0.092	93.471	ug/L
|	Se	82	-4.278	-0.00	0.2581	0.038	14.552	ug/L
⌊	Rb	85	63.668	0.00				mg/L
	Y	89	243022.605	31365.04				ug/L
	Rh	103	17.334	4.67				ug/L
⌈	Mo	98	70.284	0.00	0.0235	0.001	5.733	ug/L
|	Ag	107	43.667	0.00	0.0064	0.000	6.173	ug/L
|	Cd	114	-1.123	0.00	0.0182	0.007	40.159	ug/L
|>	In	115	346115.653	346115.65				ug/L
|	Sn	118	637.620	0.00	-0.0217	0.004	16.896	ug/L
⌊	Sb	123	184.824	0.00	0.0371	0.006	15.478	ug/L
⌈	Ba	135	202.004	0.00	0.0853	0.022	25.421	ug/L
|	Ce	140	116.679	0.00				ug/L
⌊>	Tb	159	441885.312	441885.31				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	38.000	0.00	0.0004	0.001	163.588	ug/L
|	Tl	205	63.340	0.00	-0.0016	0.001	53.159	ug/L
|	Pb	206	402.345	0.00	0.0066	0.004	61.028	ug/L
|	Pb	207	348.676	0.00	-0.0018	0.003	159.399	ug/L
|	Pb	208	1615.734	0.00	0.0042	0.001	31.714	ug/L
|	U	238	88.001	0.00	-0.0062	0.000	3.938	ug/L
⌊>	Bi	209	374896.311	374896.31				ug/L

Sample ID: PBW 81 WG359793-04
Report Date/Time: Monday, March 28, 2011 14:26:55
Page 1

Approved: March 29, 2011

⌈	Na	23	141042.539	0.76	0.0165	0.001	8.218	mg/L
|	Mg	24	94830.324	0.57	0.0177	0.001	5.946	mg/L
|	K	39	448462.877	0.33	0.0003	0.003	1345.687	mg/L
|	Ca	43	1270.208	0.01	0.0338	0.002	7.097	mg/L
|	Fe	54	73564.574	0.22	0.0714	0.008	11.884	mg/L
|	Fe	57	7099.897	0.00	0.0020	0.001	47.642	mg/L
⌊>	Sc-1	45	166120.250	166120.25				mg/L
	Cl	35	26862.700	13001.10				mg/L
	Kr	83	70.334	12.33				mg/L
	Br	81	8404.867	3515.00				mg/L
	P	31	13326.281	7909.48				mg/L
	S	34	154109.238	6694.37				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.923			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		115.111			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		114.111			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		108.705			
⌈	Na	23					

Sample ID: PBW 81 WG359793-04
Report Date/Time: Monday, March 28, 2011 14:26:55
Page 2

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 81 WG359793-04
Report Date/Time: Monday, March 28, 2011 14:26:55

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: LCSW 81 WG359793-05

Sample Date/Time: Monday, March 28, 2011 14:31:29
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 25
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18767.631	-0.01				ug/L
|	Be	9	6544.142	0.04	22.9580	0.588	2.561	ug/L
|	Al	27	133672.219	0.81	25.2391	1.510	5.983	ug/L
⌊>	Sc	45	158683.612	158683.61				ug/L
⌈	Ti	49	113.345	0.00	0.1534	0.064	41.644	ug/L
|	V	51	202091.618	0.61	25.7747	0.232	0.900	ug/L
|	Cr	52	185102.692	0.54	26.5264	0.261	0.982	ug/L
|	Cr	53	21104.369	0.06	26.1228	0.821	3.141	ug/L
|	Mn	55	293825.165	0.89	28.2371	0.168	0.593	ug/L
|	Co	59	208039.597	0.63	26.1980	0.455	1.735	ug/L
|	Ni	60	43841.682	0.13	26.4525	0.432	1.633	ug/L
|	Cu	65	45426.409	0.14	26.5935	0.340	1.280	ug/L
|	Zn	66	40044.092	0.12	35.2750	0.516	1.463	ug/L
|>	Ge	72	329288.643	329288.64				ug/L
|	As	75	24516.348	0.07	23.6051	0.226	0.957	ug/L
|	Se	77	1860.840	0.01	22.2541	0.485	2.180	ug/L
|	Se	82	2214.104	0.01	22.2834	0.433	1.941	ug/L
⌊	Rb	85	47.001	0.00				mg/L
	Y	89	232819.164	21161.60				ug/L
	Rh	103	26.334	13.67				ug/L
⌈	Mo	98	63.909	0.00	0.0223	0.002	8.392	ug/L
|	Ag	107	141482.730	0.43	23.1739	0.324	1.397	ug/L
|	Cd	114	30414.532	0.09	23.6404	0.303	1.281	ug/L
|>	In	115	331382.964	331382.96				ug/L
|	Sn	118	211.869	0.00	-0.1099	0.001	1.187	ug/L
⌊	Sb	123	96787.646	0.29	23.5849	0.255	1.082	ug/L
⌈	Ba	135	41170.322	0.10	25.4652	0.065	0.257	ug/L
|	Ce	140	100.011	0.00				ug/L
⌊>	Tb	159	426575.149	426575.15				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	176236.196	0.49	25.0537	0.565	2.255	ug/L
|	Tl	205	432750.959	1.21	25.0964	0.990	3.946	ug/L
|	Pb	206	149812.620	0.42	26.2931	0.986	3.749	ug/L
|	Pb	207	132673.661	0.37	24.7373	0.368	1.489	ug/L
|	Pb	208	608323.661	1.69	25.5969	0.561	2.193	ug/L
|	U	238	880215.267	2.45	25.6064	0.730	2.850	ug/L
⌊>	Bi	209	359219.624	359219.62				ug/L

Sample ID: LCSW 81 WG359793-05
Report Date/Time: Monday, March 28, 2011 14:33:41
Page 1

Approved: March 29, 2011

⌈	Na	23	87937.417	0.46	0.0056	0.001	19.255	mg/L
|	Mg	24	23596.847	0.15	-0.0049	0.000	7.017	mg/L
|	K	39	396699.032	0.13	-0.0055	0.002	29.522	mg/L
|	Ca	43	740.101	0.00	-0.0001	0.004	6213.099	mg/L
|	Fe	54	69534.763	0.21	0.0697	0.007	9.979	mg/L
|	Fe	57	5755.567	-0.00	-0.0028	0.002	77.621	mg/L
⌊>	Sc-1	45	158683.612	158683.61				mg/L
	Cl	35	22383.024	8521.42				mg/L
	Kr	83	58.667	0.67				mg/L
	Br	81	6800.317	1910.45				mg/L
	P	31	11738.931	6322.13				mg/L
	S	34	140503.990	-6910.88				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.952			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.211			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.157			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.159			
⌈	Na	23					

Sample ID: LCSW 81 WG359793-05
Report Date/Time: Monday, March 28, 2011 14:33:41
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 81 WG359793-05
Report Date/Time: Monday, March 28, 2011 14:33:41
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103074401

Sample Date/Time: Monday, March 28, 2011 14:38:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19168.391	-0.01				ug/L
|	Be	9	16.667	0.00	-0.0649	0.023	34.921	ug/L
|	Al	27	1764113.330	11.06	344.0469	1.736	0.505	ug/L
⌊>	Sc	45	159022.436	159022.44				ug/L
⌈	Ti	49	3094.122	0.01	6.3993	0.258	4.032	ug/L
|	V	51	20483.358	0.05	2.3261	0.096	4.125	ug/L
|	Cr	52	33081.314	0.07	3.7090	0.132	3.571	ug/L
|	Cr	53	3240.851	0.01	3.6431	0.321	8.803	ug/L
|	Mn	55	504340.443	1.53	48.5722	1.020	2.100	ug/L
|	Co	59	5008.971	0.02	0.6200	0.008	1.290	ug/L
|	Ni	60	27200.571	0.08	16.4035	0.564	3.437	ug/L
|	Cu	65	17188.599	0.05	9.9994	0.150	1.501	ug/L
|	Zn	66	72317.275	0.22	65.5006	0.595	0.909	ug/L
|>	Ge	72	328919.868	328919.87				ug/L
|	As	75	318.920	0.00	0.5429	0.023	4.277	ug/L
|	Se	77	88.667	0.00	0.3705	0.070	18.872	ug/L
|	Se	82	41.833	0.00	0.7139	0.052	7.291	ug/L
⌊	Rb	85	17571.602	0.05				mg/L
	Y	89	233248.721	21591.16				ug/L
	Rh	103	51.334	38.67				ug/L
⌈	Mo	98	1331.353	0.00	0.4692	0.008	1.649	ug/L
|	Ag	107	210.671	0.00	0.0350	0.002	6.683	ug/L
|	Cd	114	348.315	0.00	0.2974	0.030	10.175	ug/L
|>	In	115	322194.131	322194.13				ug/L
|	Sn	118	1368.894	0.00	0.1547	0.003	2.044	ug/L
⌊	Sb	123	545.466	0.00	0.1309	0.007	5.652	ug/L
⌈	Ba	135	34658.318	0.08	21.5799	0.488	2.262	ug/L
|	Ce	140	13507.138	0.03				ug/L
⌊>	Tb	159	423667.957	423667.96				ug/L
⌈	Ho	165	270.031	0.00				ug/L
|	Tl	203	219.671	0.00	0.0263	0.005	17.926	ug/L
|	Tl	205	573.407	0.00	0.0280	0.005	17.508	ug/L
|	Pb	206	17991.350	0.05	3.0886	0.033	1.054	ug/L
|	Pb	207	15092.866	0.04	2.7444	0.034	1.254	ug/L
|	Pb	208	70359.606	0.19	2.8929	0.036	1.227	ug/L
|	U	238	3162.532	0.01	0.0830	0.001	1.139	ug/L
⌊>	Bi	209	360808.949	360808.95				ug/L

Sample ID: L1103074401
Report Date/Time: Monday, March 28, 2011 14:40:26
Page 1

Approved: March 29, 2011

⌈	Na	23	44934432.964	282.61	10.3741	0.192	1.849	mg/L
|	Mg	24	12285821.370	77.29	4.1271	0.082	1.982	mg/L
|	K	39	6242944.312	36.91	1.0405	0.025	2.437	mg/L
|	Ca	43	326244.394	2.05	23.3709	0.293	1.254	mg/L
|	Fe	54	449008.419	2.60	0.8365	0.022	2.670	mg/L
|	Fe	57	164597.408	1.00	0.7515	0.014	1.839	mg/L
⌊>	Sc-1	45	159022.436	159022.44				mg/L
	Cl	35	275265.247	261403.64				mg/L
	Kr	83	57.667	-0.33				mg/L
	Br	81	14626.023	9736.16				mg/L
	P	31	21888.649	16471.85				mg/L
	S	34	439828.320	292413.45				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.833			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.155			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.406			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.620			
⌈	Na	23					

Sample ID: L1103074401
Report Date/Time: Monday, March 28, 2011 14:40:26
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103074402 WG359793-02

Sample Date/Time: Monday, March 28, 2011 14:45:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 27
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18567.281	-0.01				ug/L
|	Be	9	12.667	-0.00	-0.0783	0.016	20.862	ug/L
|	Al	27	746641.780	4.79	149.1145	3.820	2.562	ug/L
⌊>	Sc	45	154721.138	154721.14				ug/L
⌈	Ti	49	1310.219	0.00	2.7607	0.598	21.644	ug/L
|	V	51	21678.300	0.06	2.5837	0.044	1.707	ug/L
|	Cr	52	20929.760	0.04	1.9983	0.055	2.743	ug/L
|	Cr	53	2417.201	0.01	2.7168	0.132	4.873	ug/L
|	Mn	55	334956.460	1.05	33.4263	0.343	1.025	ug/L
|	Co	59	3560.670	0.01	0.4539	0.012	2.647	ug/L
|	Ni	60	11360.231	0.04	7.0609	0.175	2.472	ug/L
|	Cu	65	49679.628	0.16	30.2035	0.489	1.620	ug/L
|	Zn	66	119162.329	0.37	113.4198	1.508	1.329	ug/L
| >	Ge	72	317233.479	317233.48				ug/L
|	As	75	319.503	0.00	0.5547	0.083	15.047	ug/L
|	Se	77	132.668	0.00	0.9759	0.281	28.826	ug/L
|	Se	82	27.479	0.00	0.5813	0.060	10.242	ug/L
⌊	Rb	85	7836.481	0.02				mg/L
	Y	89	222619.579	10962.01				ug/L
	Rh	103	34.334	21.67				ug/L
⌈	Mo	98	1868.257	0.01	0.6806	0.005	0.719	ug/L
|	Ag	107	143.669	0.00	0.0246	0.001	3.378	ug/L
|	Cd	114	718.295	0.00	0.6123	0.016	2.583	ug/L
| >	In	115	311582.596	311582.60				ug/L
|	Sn	118	428.543	0.00	-0.0559	0.004	7.324	ug/L
⌊	Sb	123	1135.022	0.00	0.2884	0.008	2.797	ug/L
⌈	Ba	135	27354.976	0.07	17.5610	0.216	1.229	ug/L
|	Ce	140	4131.267	0.01				ug/L
⌊>	Tb	159	410755.058	410755.06				ug/L
⌈	Ho	165	80.008	0.00				ug/L
|	Tl	203	118.335	0.00	0.0128	0.001	9.379	ug/L
|	Tl	205	263.363	0.00	0.0108	0.001	13.572	ug/L
|	Pb	206	27050.478	0.08	4.8984	0.049	0.992	ug/L
|	Pb	207	22687.267	0.07	4.3578	0.085	1.961	ug/L
|	Pb	208	106303.175	0.31	4.6133	0.065	1.414	ug/L
|	U	238	5331.474	0.02	0.1531	0.003	2.205	ug/L
⌊>	Bi	209	344520.661	344520.66				ug/L

Sample ID: L1103074402 WG359793-02
Report Date/Time: Monday, March 28, 2011 14:47:12
Page 1

Approved: March 29, 2011

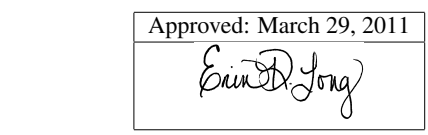
⌈	Na	23	137468122.115	888.43	32.6368	0.282	0.864	mg/L
|	Mg	24	10046930.316	64.94	3.4652	0.043	1.253	mg/L
|	K	39	5163806.969	31.00	0.8726	0.021	2.367	mg/L
|	Ca	43	240205.145	1.55	17.6666	0.290	1.643	mg/L
|	Fe	54	232678.806	1.28	0.4120	0.005	1.145	mg/L
|	Fe	57	79643.972	0.48	0.3584	0.011	2.990	mg/L
⌊>	Sc-1	45	154721.138	154721.14				mg/L
	Cl	35	757362.185	743500.58				mg/L
	Kr	83	60.001	2.00				mg/L
	Br	81	18326.782	13436.92				mg/L
	P	31	13601.383	8184.58				mg/L
	S	34	361854.569	214439.70				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.037			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.626			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.072			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.897			
⌈	Na	23					

Sample ID: L1103074402 WG359793-02
Report Date/Time: Monday, March 28, 2011 14:47:12
Page 2

Approved: March 29, 2011



| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103074402S WG359793-08

Sample Date/Time: Monday, March 28, 2011 14:51:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 28
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18851.085	-0.01				ug/L
|	Be	9	6700.245	0.04	23.7818	0.533	2.241	ug/L
|	Al	27	695867.522	4.40	137.0396	9.777	7.134	ug/L
⌊>	Sc	45	156803.133	156803.13				ug/L
⌈	Ti	49	1020.155	0.00	2.0994	0.390	18.578	ug/L
|	V	51	212744.374	0.65	27.7584	0.216	0.779	ug/L
|	Cr	52	186807.752	0.55	27.4033	0.303	1.107	ug/L
|	Cr	53	21842.688	0.07	27.6643	0.857	3.099	ug/L
|	Mn	55	594135.120	1.84	58.4344	0.521	0.892	ug/L
|	Co	59	202112.049	0.63	26.0158	0.093	0.358	ug/L
|	Ni	60	53006.984	0.16	32.7101	0.447	1.368	ug/L
|	Cu	65	92561.728	0.29	55.5239	1.227	2.209	ug/L
|	Zn	66	145355.952	0.45	136.6633	1.084	0.793	ug/L
| >	Ge	72	322154.589	322154.59				ug/L
|	As	75	24547.718	0.08	24.1546	0.346	1.432	ug/L
|	Se	77	1880.844	0.01	23.0162	0.121	0.527	ug/L
|	Se	82	2144.093	0.01	22.0626	0.702	3.181	ug/L
⌊	Rb	85	7395.141	0.02				mg/L
	Y	89	220108.349	8450.78				ug/L
	Rh	103	50.334	37.67				ug/L
⌈	Mo	98	1930.375	0.01	0.7053	0.032	4.520	ug/L
|	Ag	107	126478.791	0.41	22.0937	0.315	1.427	ug/L
|	Cd	114	28945.346	0.09	23.9921	0.347	1.447	ug/L
| >	In	115	310743.381	310743.38				ug/L
|	Sn	118	369.207	0.00	-0.0697	0.003	4.023	ug/L
⌊	Sb	123	90989.619	0.29	23.6459	0.230	0.971	ug/L
⌈	Ba	135	66714.140	0.16	42.7898	0.506	1.182	ug/L
|	Ce	140	3847.793	0.01				ug/L
⌊>	Tb	159	411623.707	411623.71				ug/L
⌈	Ho	165	110.012	0.00				ug/L
|	Tl	203	171666.220	0.50	25.4405	0.264	1.036	ug/L
|	Tl	205	427670.169	1.24	25.8528	0.484	1.871	ug/L
|	Pb	206	172687.695	0.50	31.6037	0.313	0.990	ug/L
|	Pb	207	151145.219	0.44	29.3943	0.134	0.457	ug/L
|	Pb	208	696537.190	2.02	30.5674	0.275	0.900	ug/L
|	U	238	899523.030	2.61	27.2830	0.264	0.969	ug/L
⌊>	Bi	209	344482.155	344482.16				ug/L

Sample ID: L1103074402S WG359793-08
Report Date/Time: Monday, March 28, 2011 14:53:59
Page 1

Approved: March 29, 2011

⌈	Na	23	147024729.534	937.57	34.4429	1.211	3.517	mg/L
|	Mg	24	10436365.845	66.55	3.5518	0.011	0.313	mg/L
|	K	39	5276831.572	31.28	0.8804	0.011	1.225	mg/L
|	Ca	43	248658.494	1.58	18.0472	0.269	1.492	mg/L
|	Fe	54	220370.460	1.18	0.3803	0.006	1.673	mg/L
|	Fe	57	73147.220	0.43	0.3220	0.006	1.979	mg/L
⌊>	Sc-1	45	156803.133	156803.13				mg/L
	Cl	35	753512.124	739650.52				mg/L
	Kr	83	58.001	0.00				mg/L
	Br	81	18104.377	13214.51				mg/L
	P	31	14654.165	9237.36				mg/L
	S	34	364767.404	217352.53				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.635			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.347			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.296			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.886			
⌈	Na	23					

Sample ID: L1103074402S WG359793-08
Report Date/Time: Monday, March 28, 2011 14:53:59
Page 2

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Sample ID: L1103074402S WG359793-08
Report Date/Time: Monday, March 28, 2011 14:53:59
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103079017

Sample Date/Time: Monday, March 28, 2011 14:58:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18416.987	-0.01				ug/L
|	Be	9	23.333	0.00	-0.0406	0.026	64.374	ug/L
|	Al	27	1933785.175	12.27	381.6075	16.111	4.222	ug/L
⌊>	Sc	45	157397.652	157397.65				ug/L
⌈	Ti	49	2700.638	0.01	5.7498	0.589	10.251	ug/L
|	V	51	8867.738	0.02	0.8607	0.041	4.720	ug/L
|	Cr	52	14373.136	0.02	0.9658	0.053	5.491	ug/L
|	Cr	53	1877.031	0.00	1.9995	0.110	5.518	ug/L
|	Mn	55	8235225.213	25.84	819.5785	37.955	4.631	ug/L
|	Co	59	5977.180	0.02	0.7663	0.034	4.495	ug/L
|	Ni	60	3084.507	0.01	1.8542	0.125	6.744	ug/L
|	Cu	65	2614.368	0.01	1.4681	0.082	5.556	ug/L
|	Zn	66	29518.481	0.09	26.3563	0.925	3.511	ug/L
|>	Ge	72	318786.061	318786.06				ug/L
|	As	75	937.635	0.00	1.1622	0.079	6.760	ug/L
|	Se	77	144.001	0.00	1.1113	0.016	1.418	ug/L
|	Se	82	118.069	0.00	1.5097	0.124	8.232	ug/L
⌊	Rb	85	10430.880	0.03				mg/L
	Y	89	227849.550	16191.99				ug/L
	Rh	103	47.667	35.00				ug/L
⌈	Mo	98	1237.815	0.00	0.4513	0.010	2.274	ug/L
|	Ag	107	93.668	0.00	0.0158	0.002	11.892	ug/L
|	Cd	114	25.293	0.00	0.0398	0.005	13.280	ug/L
|>	In	115	311500.808	311500.81				ug/L
|	Sn	118	948.045	0.00	0.0663	0.006	8.876	ug/L
⌊	Sb	123	377.288	0.00	0.0919	0.004	4.090	ug/L
⌈	Ba	135	77060.610	0.19	49.2454	0.845	1.716	ug/L
|	Ce	140	26731.717	0.06				ug/L
⌊>	Tb	159	413148.929	413148.93				ug/L
⌈	Ho	165	590.077	0.00				ug/L
|	Tl	203	153.336	0.00	0.0182	0.002	9.187	ug/L
|	Tl	205	333.372	0.00	0.0152	0.005	32.172	ug/L
|	Pb	206	2801.087	0.01	0.4567	0.018	3.902	ug/L
|	Pb	207	2438.655	0.01	0.4150	0.006	1.544	ug/L
|	Pb	208	11122.198	0.03	0.4321	0.008	1.834	ug/L
|	U	238	5718.360	0.02	0.1663	0.005	3.160	ug/L
⌊>	Bi	209	341647.169	341647.17				ug/L

Sample ID: L1103079017
Report Date/Time: Monday, March 28, 2011 15:00:46
Page 1

Approved: March 29, 2011

⌈	Na	23	157430047.415	1001.62	36.7966	1.919	5.215	mg/L
|	Mg	24	22120114.163	140.61	7.5183	0.232	3.084	mg/L
|	K	39	10584669.894	64.99	1.8390	0.114	6.215	mg/L
|	Ca	43	366043.535	2.33	26.5196	1.198	4.516	mg/L
|	Fe	54	399131.355	2.31	0.7442	0.048	6.430	mg/L
|	Fe	57	152271.445	0.93	0.7012	0.050	7.199	mg/L
⌊>	Sc-1	45	157397.652	157397.65				mg/L
	Cl	35	1239461.851	1225600.25				mg/L
	Kr	83	69.001	11.00				mg/L
	Br	81	125789.746	120899.88				mg/L
	P	31	22832.745	17415.94				mg/L
	S	34	364650.454	217235.58				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.541			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.599			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.690			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.064			
⌈	Na	23					

Sample ID: L1103079017
Report Date/Time: Monday, March 28, 2011 15:00:46
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103079017
Report Date/Time: Monday, March 28, 2011 15:00:46
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103074401PS WG359899-05

Sample Date/Time: Monday, March 28, 2011 15:05:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 30
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19702.769	0.00				ug/L
|	Be	9	13161.323	0.08	47.1679	0.347	0.737	ug/L
|	Al	27	1928161.058	12.35	384.1704	6.449	1.679	ug/L
⌊>	Sc	45	155702.983	155702.98				ug/L
⌈	Ti	49	3007.422	0.01	6.4564	0.531	8.232	ug/L
|	V	51	394419.573	1.24	52.6153	0.086	0.163	ug/L
|	Cr	52	356290.964	1.10	54.3335	0.318	0.586	ug/L
|	Cr	53	41068.279	0.13	53.2910	1.319	2.475	ug/L
|	Mn	55	998372.155	3.15	99.8811	1.282	1.283	ug/L
|	Co	59	394104.574	1.24	51.5936	0.671	1.301	ug/L
|	Ni	60	107470.178	0.34	67.5139	0.907	1.344	ug/L
|	Cu	65	99428.596	0.31	60.6525	0.890	1.467	ug/L
|	Zn	66	119244.105	0.38	113.6424	1.790	1.575	ug/L
| >	Ge	72	316821.555	316821.55				ug/L
|	As	75	47949.164	0.15	47.7406	0.621	1.300	ug/L
|	Se	77	3609.985	0.01	45.6072	0.690	1.514	ug/L
|	Se	82	4324.447	0.01	44.9294	0.991	2.206	ug/L
⌊	Rb	85	17179.252	0.05				mg/L
	Y	89	220830.678	9173.11				ug/L
	Rh	103	60.334	47.67				ug/L
⌈	Mo	98	1321.192	0.00	0.4836	0.024	4.932	ug/L
|	Ag	107	278302.607	0.90	48.6967	0.479	0.984	ug/L
|	Cd	114	57349.487	0.18	47.6019	0.552	1.159	ug/L
| >	In	115	310203.210	310203.21				ug/L
|	Sn	118	1349.158	0.00	0.1621	0.008	5.213	ug/L
⌊	Sb	123	185261.347	0.60	48.2330	0.245	0.509	ug/L
⌈	Ba	135	109361.508	0.27	70.1222	0.571	0.814	ug/L
|	Ce	140	14087.997	0.03				ug/L
⌊>	Tb	159	411873.606	411873.61				ug/L
⌈	Ho	165	256.696	0.00				ug/L
|	Tl	203	338695.380	0.98	50.1365	0.337	0.673	ug/L
|	Tl	205	853387.801	2.47	51.5224	0.201	0.391	ug/L
|	Pb	206	305441.580	0.88	55.8744	0.538	0.964	ug/L
|	Pb	207	271382.932	0.79	52.7644	0.781	1.481	ug/L
|	Pb	208	1244989.069	3.61	54.6141	0.441	0.807	ug/L
|	U	238	1788694.608	5.19	54.1866	0.352	0.650	ug/L
⌊>	Bi	209	344927.863	344927.86				ug/L

Sample ID: L1103074401PS WG359899-05
Report Date/Time: Monday, March 28, 2011 15:07:33
Page 1

Approved: March 29, 2011

⌈	Na	23	44658761.596	286.77	10.5271	0.178	1.686	mg/L
|	Mg	24	12066227.282	77.49	4.1376	0.014	0.335	mg/L
|	K	39	6197446.603	37.44	1.0556	0.029	2.704	mg/L
|	Ca	43	326386.632	2.09	23.8743	0.193	0.806	mg/L
|	Fe	54	432586.069	2.55	0.8218	0.039	4.716	mg/L
|	Fe	57	160595.588	0.99	0.7486	0.021	2.742	mg/L
⌊>	Sc-1	45	155702.983	155702.98				mg/L
	Cl	35	266814.065	252952.46				mg/L
	Kr	83	64.334	6.33				mg/L
	Br	81	17956.784	13066.92				mg/L
	P	31	19901.812	14485.01				mg/L
	S	34	425065.530	277650.66				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.903			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.167			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.361			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.015			
⌈	Na	23					

Sample ID: L1103074401PS WG359899-05
Report Date/Time: Monday, March 28, 2011 15:07:33
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Sample ID: L1103074401PS WG359899-05
Report Date/Time: Monday, March 28, 2011 15:07:33
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103074401SDL WG359899-06

Sample Date/Time: Monday, March 28, 2011 15:12:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 31
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19919.845	-0.00				ug/L
|	Be	9	9.333	-0.00	-0.0915	0.010	11.032	ug/L
|	Al	27	389699.161	2.40	74.8278	1.681	2.246	ug/L
⌊>	Sc	45	159919.147	159919.15				ug/L
⌈	Ti	49	753.437	0.00	1.4384	0.116	8.051	ug/L
|	V	51	5980.424	0.01	0.4233	0.021	4.988	ug/L
|	Cr	52	12777.286	0.01	0.5887	0.006	1.027	ug/L
|	Cr	53	1030.157	0.00	0.8098	0.143	17.713	ug/L
|	Mn	55	105247.672	0.31	9.7223	0.048	0.497	ug/L
|	Co	59	1134.076	0.00	0.1262	0.005	4.262	ug/L
|	Ni	60	5727.364	0.02	3.2713	0.010	0.300	ug/L
|	Cu	65	3735.068	0.01	2.0001	0.031	1.538	ug/L
|	Zn	66	18872.316	0.05	14.8875	0.201	1.347	ug/L
| >	Ge	72	341066.178	341066.18				ug/L
|	As	75	-33.530	0.00	0.2077	0.013	6.399	ug/L
|	Se	77	71.334	0.00	0.1246	0.260	208.753	ug/L
|	Se	82	10.826	0.00	0.4016	0.072	17.931	ug/L
⌊	Rb	85	3725.064	0.01				mg/L
	Y	89	231154.516	19496.95				ug/L
	Rh	103	19.000	6.33				ug/L
⌈	Mo	98	302.249	0.00	0.1038	0.004	3.604	ug/L
|	Ag	107	71.001	0.00	0.0111	0.001	11.746	ug/L
|	Cd	114	70.512	0.00	0.0737	0.000	0.322	ug/L
| >	In	115	331742.789	331742.79				ug/L
|	Sn	118	384.674	0.00	-0.0718	0.001	1.851	ug/L
⌊	Sb	123	428.125	0.00	0.0983	0.006	6.331	ug/L
⌈	Ba	135	7336.764	0.02	4.4312	0.044	1.003	ug/L
|	Ce	140	3007.420	0.01				ug/L
⌊>	Tb	159	434014.242	434014.24				ug/L
⌈	Ho	165	46.671	0.00				ug/L
|	Tl	203	68.334	0.00	0.0045	0.001	11.975	ug/L
|	Tl	205	156.684	0.00	0.0036	0.001	39.570	ug/L
|	Pb	206	4008.177	0.01	0.6114	0.007	1.211	ug/L
|	Pb	207	3422.287	0.01	0.5461	0.013	2.343	ug/L
|	Pb	208	16012.897	0.04	0.5833	0.001	0.133	ug/L
|	U	238	726.700	0.00	0.0116	0.000	1.186	ug/L
⌊>	Bi	209	376427.403	376427.40				ug/L

Sample ID: L1103074401SDL WG359899-06
Report Date/Time: Monday, March 28, 2011 15:14:21
Page 1

Approved: March 29, 2011

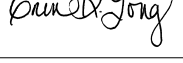
⌈	Na	23	9166092.923	57.26	2.0928	0.071	3.402	mg/L
|	Mg	24	2596119.450	16.24	0.8569	0.020	2.352	mg/L
|	K	39	1823161.085	9.03	0.2478	0.012	4.732	mg/L
|	Ca	43	68957.312	0.43	4.8735	0.295	6.058	mg/L
|	Fe	54	118469.790	0.52	0.1669	0.003	1.800	mg/L
|	Fe	57	38728.728	0.20	0.1527	0.007	4.690	mg/L
⌊>	Sc-1	45	159919.147	159919.15				mg/L
	Cl	35	67463.473	53601.87				mg/L
	Kr	83	58.334	0.33				mg/L
	Br	81	9391.074	4501.21				mg/L
	P	31	10087.753	4670.95				mg/L
	S	34	210076.689	62661.82				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		110.778			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.331			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		112.078			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.149			
⌈	Na	23					

Sample ID: L1103074401SDL WG359899-06
Report Date/Time: Monday, March 28, 2011 15:14:21

Approved: March 29, 2011



Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103074401SDL WG359899-06
Report Date/Time: Monday, March 28, 2011 15:14:21

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 28, 2011 15:18:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18383.653	-0.00				ug/L
|	Be	9	14239.466	0.10	53.3301	0.706	1.324	ug/L
|	Al	27	253175.279	1.66	51.8714	4.140	7.981	ug/L
⌊>	Sc	45	149035.825	149035.82				ug/L
⌈	Ti	49	49721.637	0.15	100.2915	4.371	4.358	ug/L
|	V	51	396464.367	1.15	49.0408	0.713	1.455	ug/L
|	Cr	52	348599.024	0.99	49.2001	0.927	1.884	ug/L
|	Cr	53	40656.556	0.12	48.8955	0.322	0.658	ug/L
|	Mn	55	531144.275	1.55	49.2728	1.167	2.369	ug/L
|	Co	59	406612.621	1.19	49.3939	1.461	2.957	ug/L
|	Ni	60	85351.883	0.25	49.7268	1.106	2.225	ug/L
|	Cu	65	87837.324	0.26	49.6949	1.399	2.815	ug/L
|	Zn	66	56708.918	0.16	48.9454	0.603	1.232	ug/L
| >	Ge	72	341580.094	341580.09				ug/L
|	As	75	54227.485	0.16	50.0762	0.890	1.778	ug/L
|	Se	77	4272.246	0.01	50.1527	1.244	2.481	ug/L
|	Se	82	5345.277	0.02	51.4812	1.133	2.201	ug/L
⌊	Rb	85	2115.578	0.01				mg/L
	Y	89	231618.446	19960.88				ug/L
	Rh	103	33.334	20.67				ug/L
⌈	Mo	98	289184.703	0.86	98.0084	0.439	0.448	ug/L
|	Ag	107	304300.196	0.91	49.3527	0.859	1.741	ug/L
|	Cd	114	64641.927	0.19	49.7302	1.106	2.223	ug/L
| >	In	115	334710.988	334710.99				ug/L
|	Sn	118	226728.772	0.68	49.5084	0.171	0.345	ug/L
⌊	Sb	123	204734.246	0.61	49.4006	0.129	0.261	ug/L
⌈	Ba	135	83222.696	0.19	51.0363	0.412	0.807	ug/L
|	Ce	140	56.672	0.00				ug/L
⌊>	Tb	159	430565.683	430565.68				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	356726.207	0.98	50.1966	0.439	0.875	ug/L
|	Tl	205	876749.534	2.42	50.3201	1.512	3.006	ug/L
|	Pb	206	288869.686	0.80	50.2258	0.738	1.469	ug/L
|	Pb	207	272532.509	0.75	50.3638	0.254	0.505	ug/L
|	Pb	208	1207124.847	3.32	50.3311	0.559	1.110	ug/L
|	U	238	1876626.067	5.17	54.0444	0.505	0.935	ug/L
⌊>	Bi	209	362854.172	362854.17				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 15:21:08
Page 1

Approved: March 29, 2011

⌈	Na	23	22187716.345	148.80	5.4568	0.102	1.864	mg/L
|	Mg	24	14975458.181	100.49	5.3692	0.058	1.077	mg/L
|	K	39	28294158.991	187.49	5.3228	0.059	1.104	mg/L
|	Ca	43	68339.583	0.46	5.1803	0.053	1.022	mg/L
|	Fe	54	2506073.120	16.59	5.3313	0.073	1.366	mg/L
|	Fe	57	1052890.654	7.03	5.3035	0.111	2.087	mg/L
⌊>	Sc-1	45	149035.825	149035.82				mg/L
	Cl	35	13513.124	-348.48				mg/L
	Kr	83	66.001	8.00				mg/L
	Br	81	6872.364	1982.50				mg/L
	P	31	6376.699	959.90				mg/L
	S	34	153709.022	6294.15				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	98.082				
|	Cr	52	98.400				
|	Cr	53					
|	Mn	55	98.546				
|	Co	59	98.788				
|	Ni	60	99.454				
|	Cu	65	99.390				
|	Zn	66	97.891				
|>	Ge	72		110.945			
|	As	75	100.152				
|	Se	77					
|	Se	82	102.962				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	98.705				
|	Cd	114	99.460				
|>	In	115		111.318			
|	Sn	118					
⌊	Sb	123	98.801				
⌈	Ba	135	102.073				
|	Ce	140					
⌊>	Tb	159		111.187			
⌈	Ho	165					
|	Tl	203	100.393				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	100.662				
|	U	238	108.089				
⌊>	Bi	209		105.213			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 15:21:08
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 15:21:08

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 28, 2011 15:26:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17949.434	-0.01				ug/L
|	Be	9	6.000	-0.00	-0.1022	0.008	7.537	ug/L
|	Al	27	5051.278	-0.00	0.0391	0.080	204.487	ug/L
⌊>	Sc	45	154620.221	154620.22				ug/L
⌈	Ti	49	43.338	-0.00	0.0042	0.051	1216.275	ug/L
|	V	51	2298.454	-0.00	-0.0348	0.006	15.917	ug/L
|	Cr	52	7669.016	-0.00	-0.1481	0.009	6.052	ug/L
|	Cr	53	313.370	-0.00	-0.0603	0.049	80.601	ug/L
|	Mn	55	348.010	-0.00	-0.0332	0.001	3.507	ug/L
|	Co	59	47.001	-0.00	-0.0060	0.001	9.665	ug/L
|	Ni	60	41.667	-0.00	-0.0501	0.002	4.079	ug/L
|	Cu	65	162.670	0.00	-0.0280	0.005	19.102	ug/L
|	Zn	66	402.012	-0.00	-1.7696	0.002	0.132	ug/L
|>	Ge	72	340012.522	340012.52				ug/L
|	As	75	-90.970	0.00	0.1546	0.040	25.576	ug/L
|	Se	77	54.000	-0.00	-0.0797	0.063	79.326	ug/L
|	Se	82	16.841	0.00	0.4599	0.104	22.598	ug/L
⌊	Rb	85	27.000	0.00				mg/L
	Y	89	236763.570	25106.01				ug/L
	Rh	103	17.000	4.33				ug/L
⌈	Mo	98	113.467	0.00	0.0386	0.004	10.614	ug/L
|	Ag	107	32.000	0.00	0.0047	0.001	22.700	ug/L
|	Cd	114	-6.317	-0.00	0.0141	0.008	54.164	ug/L
|>	In	115	336926.178	336926.18				ug/L
|	Sn	118	279.604	0.00	-0.0960	0.004	4.376	ug/L
⌊	Sb	123	85.780	0.00	0.0146	0.001	10.060	ug/L
⌈	Ba	135	24.334	-0.00	-0.0207	0.003	14.617	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	438191.339	438191.34				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	53.334	0.00	0.0026	0.001	27.227	ug/L
|	Tl	205	93.343	0.00	0.0002	0.003	2135.817	ug/L
|	Pb	206	330.009	0.00	-0.0049	0.003	64.824	ug/L
|	Pb	207	292.674	-0.00	-0.0112	0.002	15.206	ug/L
|	Pb	208	1316.380	0.00	-0.0072	0.000	5.031	ug/L
|	U	238	92.335	0.00	-0.0060	0.000	5.998	ug/L
⌊>	Bi	209	370380.746	370380.75				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 15:28:22
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	15289.902	0.01	-0.0111	0.000	2.103	mg/L
|	Mg	24	493.395	0.00	-0.0127	0.000	0.211	mg/L
|	K	39	362777.703	-0.03	-0.0098	0.003	32.437	mg/L
|	Ca	43	273.364	-0.00	-0.0333	0.003	9.426	mg/L
|	Fe	54	34309.822	-0.00	0.0002	0.003	1545.893	mg/L
|	Fe	57	5375.315	-0.00	-0.0040	0.001	30.188	mg/L
⌊>	Sc-1	45	154620.221	154620.22				mg/L
	Cl	35	12883.631	-977.97				mg/L
	Kr	83	56.667	-1.33				mg/L
	Br	81	6693.573	1803.71				mg/L
	P	31	6548.147	1131.35				mg/L
	S	34	153630.375	6215.50				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		110.436			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		112.055			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		113.157			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		107.396			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 15:28:22
Page 2

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 7	Se	82	CCB IS OUT OF LIMITS (+/-1/2RL)

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 15:28:22
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, March 28, 2011 15:32:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18233.345	-0.01				ug/L
|	Be	9	20.000	0.00	-0.0541	0.015	28.064	ug/L
|	Al	27	3300.551	-0.01	-0.3374	0.113	33.510	ug/L
⌊>	Sc	45	161072.407	161072.41				ug/L
⌈	Ti	49	50.005	-0.00	0.0171	0.034	198.716	ug/L
|	V	51	5565.747	0.01	0.3732	0.025	6.624	ug/L
|	Cr	52	13349.372	0.01	0.6758	0.061	9.035	ug/L
|	Cr	53	940.138	0.00	0.7038	0.080	11.296	ug/L
|	Mn	55	5746.041	0.02	0.4698	0.013	2.759	ug/L
|	Co	59	3444.294	0.01	0.4079	0.005	1.253	ug/L
|	Ni	60	2871.775	0.01	1.6058	0.027	1.699	ug/L
|	Cu	65	1562.138	0.00	0.7679	0.005	0.663	ug/L
|	Zn	66	7353.109	0.02	4.5118	0.122	2.696	ug/L
|>	Ge	72	340483.755	340483.76				ug/L
|	As	75	256.940	0.00	0.4754	0.007	1.468	ug/L
|	Se	77	93.334	0.00	0.3920	0.193	49.316	ug/L
|	Se	82	47.462	0.00	0.7540	0.071	9.438	ug/L
⌊	Rb	85	22.000	-0.00				mg/L
	Y	89	242746.858	31089.29				ug/L
	Rh	103	13.333	0.67				ug/L
⌈	Mo	98	65.621	0.00	0.0222	0.003	13.624	ug/L
|	Ag	107	2565.688	0.01	0.4073	0.018	4.429	ug/L
|	Cd	114	271.672	0.00	0.2236	0.004	1.595	ug/L
|>	In	115	341612.995	341612.99				ug/L
|	Sn	118	186.135	0.00	-0.1168	0.004	3.319	ug/L
⌊	Sb	123	1631.551	0.00	0.3799	0.006	1.675	ug/L
⌈	Ba	135	1293.097	0.00	0.7442	0.039	5.283	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	438252.675	438252.67				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	611.692	0.00	0.0787	0.003	4.409	ug/L
|	Tl	205	1586.952	0.00	0.0832	0.009	10.312	ug/L
|	Pb	206	2650.378	0.01	0.3863	0.007	1.880	ug/L
|	Pb	207	2462.995	0.01	0.3778	0.020	5.201	ug/L
|	Pb	208	11108.563	0.03	0.3887	0.012	3.194	ug/L
|	U	238	14330.074	0.04	0.3916	0.007	1.855	ug/L
⌊>	Bi	209	374188.103	374188.10				ug/L

Sample ID: QC Std 8
Report Date/Time: Monday, March 28, 2011 15:35:12
Page 1

Approved: March 29, 2011

Na	23	11778.114	-0.02	-0.0121	0.000	1.714	mg/L
Mg	24	246.695	-0.00	-0.0128	0.000	0.194	mg/L
K	39	354799.444	-0.17	-0.0139	0.003	22.343	mg/L
Ca	43	316.704	-0.00	-0.0310	0.007	21.132	mg/L
Fe	54	32296.467	-0.02	-0.0067	0.001	14.841	mg/L
Fe	57	5161.852	-0.01	-0.0060	0.001	23.374	mg/L
Sc-1	45	161072.407	161072.41				mg/L
Cl	35	12788.175	-1073.43				mg/L
Kr	83	62.001	4.00				mg/L
Br	81	6618.858	1729.00				mg/L
P	31	5770.336	353.54				mg/L
S	34	153085.023	5670.15				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	93.301				
Cr	52	84.477				
Cr	53					
Mn	55	93.951				
Co	59	101.978				
Ni	60	100.362				
Cu	65	95.991				
Zn	66	72.189				
Ge	72		110.589			
As	75	118.859				
Se	77					
Se	82	188.511				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.835				
Cd	114	111.797				
In	115		113.613			
Sn	118					
Sb	123	94.965				
Ba	135	99.222				
Ce	140					
Tb	159		113.173			
Ho	165					
Tl	203	98.357				
Tl	205					
Pb	206					
Pb	207					
Pb	208	97.170				
U	238	97.901				
Bi	209		108.500			
Na	23					

Sample ID: QC Std 8
Report Date/Time: Monday, March 28, 2011 15:35:12

Approved: March 29, 2011

Erin D. Long

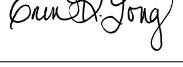
|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Zn	66	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Se	82	LLCCV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 8
Report Date/Time: Monday, March 28, 2011 15:35:12
Page 3

Approved: March 29, 2011



Method 6020 - Summary Report

Sample ID: PBS 3B WG360101-02

Sample Date/Time: Monday, March 28, 2011 15:39:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 32
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18350.223	-0.01				ug/L
|	Be	9	11.333	-0.00	-0.0822	0.004	5.251	ug/L
|	Al	27	21022.172	0.10	3.3315	0.340	10.214	ug/L
⌊>	Sc	45	151675.070	151675.07				ug/L
⌈	Ti	49	180.020	0.00	0.3010	0.057	18.961	ug/L
|	V	51	2387.344	-0.00	-0.0074	0.009	123.156	ug/L
|	Cr	52	8517.045	0.00	0.0425	0.032	75.037	ug/L
|	Cr	53	383.379	0.00	0.0510	0.045	87.726	ug/L
|	Mn	55	2616.035	0.01	0.1916	0.006	2.954	ug/L
|	Co	59	96.001	0.00	0.0006	0.001	150.748	ug/L
|	Ni	60	106.002	0.00	-0.0090	0.004	44.083	ug/L
|	Cu	65	339.676	0.00	0.0834	0.013	15.774	ug/L
|	Zn	66	2931.792	0.01	0.6636	0.017	2.615	ug/L
|>	Ge	72	322450.797	322450.80				ug/L
|	As	75	-119.052	0.00	0.1227	0.021	16.991	ug/L
|	Se	77	55.333	0.00	-0.0280	0.214	764.033	ug/L
|	Se	82	4.794	-0.00	0.3465	0.069	19.892	ug/L
⌊	Rb	85	73.668	0.00				mg/L
	Y	89	223955.916	12298.35				ug/L
	Rh	103	17.667	5.00				ug/L
⌈	Mo	98	97.471	0.00	0.0348	0.002	7.148	ug/L
|	Ag	107	51.667	0.00	0.0082	0.001	13.451	ug/L
|	Cd	114	-164.637	-0.00	-0.1130	0.209	185.241	ug/L
|>	In	115	321851.553	321851.55				ug/L
|	Sn	118	9930.405	0.03	2.1088	2.107	99.935	ug/L
⌊	Sb	123	122.030	0.00	0.0247	0.001	4.924	ug/L
⌈	Ba	135	519.685	0.00	0.2928	0.006	1.902	ug/L
|	Ce	140	90.009	0.00				ug/L
⌊>	Tb	159	418499.022	418499.02				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	36.000	0.00	0.0004	0.001	289.582	ug/L
|	Tl	205	70.007	0.00	-0.0010	0.002	211.987	ug/L
|	Pb	206	435.014	0.00	0.0164	0.002	10.067	ug/L
|	Pb	207	400.345	0.00	0.0117	0.001	6.849	ug/L
|	Pb	208	1757.411	0.00	0.0142	0.002	16.175	ug/L
|	U	238	62.334	0.00	-0.0068	0.000	5.692	ug/L
⌊>	Bi	209	353970.949	353970.95				ug/L

Approved: March 29, 2011

⌈	Na	23	65413.182	0.34	0.0011	0.001	50.841	mg/L
|	Mg	24	24997.062	0.16	-0.0041	0.000	10.128	mg/L
|	K	39	392912.218	0.22	-0.0029	0.001	40.691	mg/L
|	Ca	43	646.753	0.00	-0.0047	0.010	224.353	mg/L
|	Fe	54	56754.053	0.15	0.0491	0.005	10.279	mg/L
|	Fe	57	6025.751	0.00	-0.0002	0.001	346.019	mg/L
⌊>	Sc-1	45	151675.070	151675.07				mg/L
	Cl	35	14766.228	904.62				mg/L
	Kr	83	62.001	4.00				mg/L
	Br	81	6361.357	1471.49				mg/L
	P	31	9419.117	4002.32				mg/L
	S	34	143778.939	-3635.93				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.732			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.041			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.071			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.638			
⌈	Na	23					

Sample ID: PBS 3B WG360101-02
Report Date/Time: Monday, March 28, 2011 15:42:00
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 3B WG360101-02
Report Date/Time: Monday, March 28, 2011 15:42:00

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: LCSS 3B WG360101-03

Sample Date/Time: Monday, March 28, 2011 15:46:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 33
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21005.417	-0.00				ug/L
|	Be	9	6837.003	0.04	22.1745	0.384	1.732	ug/L
|	Al	27	142457.798	0.80	24.8500	0.644	2.593	ug/L
⌊>	Sc	45	171542.249	171542.25				ug/L
⌈	Ti	49	70.007	-0.00	0.0540	0.039	72.720	ug/L
|	V	51	205377.812	0.58	24.6184	0.215	0.872	ug/L
|	Cr	52	188749.205	0.51	25.3844	0.085	0.335	ug/L
|	Cr	53	21562.047	0.06	25.0814	0.526	2.096	ug/L
|	Mn	55	287987.502	0.82	26.0216	0.225	0.863	ug/L
|	Co	59	213137.900	0.61	25.2402	0.221	0.874	ug/L
|	Ni	60	45311.896	0.13	25.7080	0.464	1.805	ug/L
|	Cu	65	47248.166	0.13	26.0086	0.238	0.913	ug/L
|	Zn	66	31206.265	0.09	25.2799	0.157	0.622	ug/L
|>	Ge	72	350169.002	350169.00				ug/L
|	As	75	25434.558	0.07	23.0348	0.194	0.843	ug/L
|	Se	77	1975.529	0.01	22.2136	0.736	3.315	ug/L
|	Se	82	2308.081	0.01	21.8480	0.702	3.215	ug/L
⌊	Rb	85	51.334	0.00				mg/L
	Y	89	245477.536	33819.97				ug/L
	Rh	103	25.667	13.00				ug/L
⌈	Mo	98	66.092	0.00	0.0219	0.002	8.893	ug/L
|	Ag	107	144867.247	0.41	22.4358	0.319	1.424	ug/L
|	Cd	114	31381.022	0.09	23.0652	0.525	2.278	ug/L
|>	In	115	350514.098	350514.10				ug/L
|	Sn	118	235.469	0.00	-0.1075	0.002	1.551	ug/L
⌊	Sb	123	99441.220	0.28	22.9115	0.387	1.690	ug/L
⌈	Ba	135	42380.708	0.09	24.7257	0.295	1.191	ug/L
|	Ce	140	413.383	0.00				ug/L
⌊>	Tb	159	452263.989	452263.99				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	181992.979	0.47	23.9347	0.276	1.152	ug/L
|	Tl	205	450365.676	1.16	24.1568	0.057	0.238	ug/L
|	Pb	206	155631.928	0.40	25.2614	0.107	0.425	ug/L
|	Pb	207	137263.696	0.35	23.6759	0.200	0.845	ug/L
|	Pb	208	631709.104	1.62	24.5881	0.256	1.041	ug/L
|	U	238	920586.138	2.37	24.7756	0.372	1.502	ug/L
⌊>	Bi	209	388207.404	388207.40				ug/L

Sample ID: LCSS 3B WG360101-03
Report Date/Time: Monday, March 28, 2011 15:48:48
Page 1

Approved: March 29, 2011

⌈	Na	23	55834.398	0.23	-0.0028	0.000	8.609	mg/L
|	Mg	24	9815.804	0.05	-0.0098	0.000	1.333	mg/L
|	K	39	381754.482	-0.15	-0.0133	0.001	4.554	mg/L
|	Ca	43	496.729	0.00	-0.0204	0.006	29.093	mg/L
|	Fe	54	62978.364	0.14	0.0468	0.003	6.457	mg/L
|	Fe	57	5728.884	-0.01	-0.0050	0.002	34.796	mg/L
⌊>	Sc-1	45	171542.249	171542.25				mg/L
	Cl	35	15106.736	1245.13				mg/L
	Kr	83	64.001	6.00				mg/L
	Br	81	6906.385	2016.52				mg/L
	P	31	11186.260	5769.46				mg/L
	S	34	157296.864	9881.99				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.734			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		116.574			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		116.791			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		112.565			
⌈	Na	23					

Sample ID: LCSS 3B WG360101-03
Report Date/Time: Monday, March 28, 2011 15:48:48
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 3B WG360101-03
Report Date/Time: Monday, March 28, 2011 15:48:48
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092501

Sample Date/Time: Monday, March 28, 2011 15:53:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 34
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19853.100	-0.01				ug/L
|	Be	9	64.667	0.00	0.0875	0.067	76.164	ug/L
|	Al	27	28221077.244	165.77	5155.2876	95.025	1.843	ug/L
⌊>	Sc	45	170169.625	170169.63				ug/L
⌈	Ti	49	240.027	0.00	0.3916	0.156	39.791	ug/L
|	V	51	15576.175	0.04	1.5805	0.095	5.988	ug/L
|	Cr	52	12093.434	0.01	0.4541	0.062	13.759	ug/L
|	Cr	53	883.461	0.00	0.6106	0.186	30.530	ug/L
|	Mn	55	506557.456	1.45	46.0910	2.045	4.437	ug/L
|	Co	59	4407.683	0.01	0.5135	0.021	4.118	ug/L
|	Ni	60	1128.742	0.00	0.5716	0.026	4.622	ug/L
|	Cu	65	497.351	0.00	0.1561	0.020	12.742	ug/L
|	Zn	66	3508.317	0.01	0.9669	0.111	11.503	ug/L
|>	Ge	72	348161.704	348161.70				ug/L
|	As	75	-106.914	0.00	0.1422	0.029	20.384	ug/L
|	Se	77	106.001	0.00	0.5121	0.157	30.679	ug/L
|	Se	82	16.018	0.00	0.4487	0.161	35.877	ug/L
⌊	Rb	85	9499.946	0.03				mg/L
	Y	89	310214.104	98556.54				ug/L
	Rh	103	11.667	-1.00				ug/L
⌈	Mo	98	26.685	-0.00	0.0094	0.004	43.120	ug/L
|	Ag	107	49.001	0.00	0.0074	0.001	11.807	ug/L
|	Cd	114	12.094	0.00	0.0281	0.003	11.765	ug/L
|>	In	115	339461.011	339461.01				ug/L
|	Sn	118	138.134	-0.00	-0.1270	0.002	1.371	ug/L
⌊	Sb	123	52.322	0.00	0.0065	0.002	25.516	ug/L
⌈	Ba	135	10670.137	0.02	6.4200	0.253	3.935	ug/L
|	Ce	140	447885.762	1.03				ug/L
⌊>	Tb	159	436664.044	436664.04				ug/L
⌈	Ho	165	4968.401	0.01				ug/L
|	Tl	203	175.337	0.00	0.0190	0.002	8.804	ug/L
|	Tl	205	420.051	0.00	0.0181	0.001	5.035	ug/L
|	Pb	206	1832.186	0.00	0.2456	0.005	1.843	ug/L
|	Pb	207	1472.790	0.00	0.1979	0.001	0.378	ug/L
|	Pb	208	7332.161	0.02	0.2333	0.007	3.027	ug/L
|	U	238	3021.821	0.01	0.0751	0.005	6.222	ug/L
⌊>	Bi	209	377266.125	377266.13				ug/L

Sample ID: L1103092501
Report Date/Time: Monday, March 28, 2011 15:55:37
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	222073.755	1.21	0.0332	0.002	6.730	mg/L
|	Mg	24	153143.965	0.90	0.0353	0.001	3.489	mg/L
|	K	39	993090.470	3.47	0.0894	0.007	8.144	mg/L
|	Ca	43	526.733	0.00	-0.0181	0.005	27.585	mg/L
|	Fe	54	2013142.149	11.60	3.7289	0.058	1.548	mg/L
|	Fe	57	841823.431	4.91	3.7050	0.041	1.108	mg/L
⌊>	Sc-1	45	170169.625	170169.63				mg/L
	Cl	35	12778.828	-1082.78				mg/L
	Kr	83	74.668	16.67				mg/L
	Br	81	5945.102	1055.24				mg/L
	P	31	17392.466	11975.66				mg/L
	S	34	124997.633	-22417.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.082			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		112.898			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		112.762			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.392			
⌈	Na	23					

Sample ID: L1103092501
Report Date/Time: Monday, March 28, 2011 15:55:37
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092501
Report Date/Time: Monday, March 28, 2011 15:55:37
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092502

Sample Date/Time: Monday, March 28, 2011 16:00:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 35
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19585.857	-0.02				ug/L
|	Be	9	36.000	0.00	-0.0139	0.022	160.885	ug/L
|	Al	27	23698060.350	129.52	4027.8709	90.464	2.246	ug/L
⌊>	Sc	45	182941.609	182941.61				ug/L
⌈	Ti	49	5101.812	0.01	9.9521	0.227	2.278	ug/L
|	V	51	102128.974	0.28	12.0763	0.524	4.335	ug/L
|	Cr	52	47708.773	0.11	5.4701	0.247	4.517	ug/L
|	Cr	53	5161.852	0.01	5.6670	0.413	7.292	ug/L
|	Mn	55	333935.373	0.95	30.1730	1.007	3.337	ug/L
|	Co	59	3784.421	0.01	0.4364	0.012	2.800	ug/L
|	Ni	60	3079.838	0.01	1.6772	0.015	0.888	ug/L
|	Cu	65	3857.449	0.01	2.0120	0.064	3.184	ug/L
|	Zn	66	6561.218	0.02	3.6285	0.117	3.230	ug/L
|>	Ge	72	350291.119	350291.12				ug/L
|	As	75	37.765	0.00	0.2724	0.016	5.793	ug/L
|	Se	77	77.334	0.00	0.1721	0.132	76.654	ug/L
|	Se	82	4.107	-0.00	0.3363	0.036	10.723	ug/L
⌊	Rb	85	21663.337	0.06				mg/L
	Y	89	259609.114	47951.55				ug/L
	Rh	103	17.667	5.00				ug/L
⌈	Mo	98	98.389	0.00	0.0333	0.007	21.005	ug/L
|	Ag	107	71.668	0.00	0.0109	0.002	18.387	ug/L
|	Cd	114	96.772	0.00	0.0921	0.013	14.574	ug/L
|>	In	115	340255.650	340255.65				ug/L
|	Sn	118	150.268	0.00	-0.1244	0.002	1.383	ug/L
⌊	Sb	123	49.152	-0.00	0.0057	0.001	18.951	ug/L
⌈	Ba	135	23182.082	0.05	14.1134	0.325	2.302	ug/L
|	Ce	140	190524.958	0.44				ug/L
⌊>	Tb	159	432894.054	432894.05				ug/L
⌈	Ho	165	1670.308	0.00				ug/L
|	Tl	203	293.007	0.00	0.0350	0.001	1.493	ug/L
|	Tl	205	710.096	0.00	0.0342	0.004	11.250	ug/L
|	Pb	206	16853.371	0.04	2.7675	0.107	3.883	ug/L
|	Pb	207	14357.783	0.04	2.4972	0.077	3.087	ug/L
|	Pb	208	67336.017	0.18	2.6492	0.080	3.023	ug/L
|	U	238	15934.521	0.04	0.4339	0.016	3.589	ug/L
⌊>	Bi	209	376343.974	376343.97				ug/L

Sample ID: L1103092502
Report Date/Time: Monday, March 28, 2011 16:02:22
Page 1

Approved: March 29, 2011

⌈	Na	23	195512.506	0.98	0.0245	0.001	3.774	mg/L
|	Mg	24	530964.956	2.90	0.1426	0.003	1.967	mg/L
|	K	39	1251808.147	4.47	0.1180	0.007	5.598	mg/L
|	Ca	43	1890.368	0.01	0.0645	0.006	8.977	mg/L
|	Fe	54	3233419.765	17.45	5.6081	0.305	5.432	mg/L
|	Fe	57	1410866.207	7.67	5.7934	0.183	3.152	mg/L
⌊>	Sc-1	45	182941.609	182941.61				mg/L
	Cl	35	12466.433	-1395.17				mg/L
	Kr	83	64.334	6.33				mg/L
	Br	81	6295.316	1405.45				mg/L
	P	31	22136.484	16719.68				mg/L
	S	34	114864.197	-32550.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.774			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		113.162			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.789			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.125			
⌈	Na	23					

Sample ID: L1103092502
Report Date/Time: Monday, March 28, 2011 16:02:22
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092502
Report Date/Time: Monday, March 28, 2011 16:02:22
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092503

Sample Date/Time: Monday, March 28, 2011 16:09:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 36
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18083.018	-0.04				ug/L
|	Be	9	69.334	0.00	0.0517	0.019	37.460	ug/L
|	Al	27	30649809.908	138.63	4311.2621	64.645	1.499	ug/L
⌊>	Sc	45	221016.727	221016.73				ug/L
⌈	Ti	49	33643.237	0.10	66.3229	2.202	3.320	ug/L
|	V	51	295446.787	0.84	35.6640	0.327	0.916	ug/L
|	Cr	52	89638.523	0.23	11.4304	0.076	0.662	ug/L
|	Cr	53	9942.605	0.03	11.3623	0.375	3.305	ug/L
|	Mn	55	1695986.264	4.86	154.0282	0.659	0.428	ug/L
|	Co	59	21350.982	0.06	2.5255	0.013	0.512	ug/L
|	Ni	60	5255.433	0.01	2.9249	0.053	1.800	ug/L
|	Cu	65	13754.591	0.04	7.5092	0.072	0.960	ug/L
|	Zn	66	14777.396	0.04	10.8874	0.288	2.649	ug/L
| >	Ge	72	349107.410	349107.41				ug/L
|	As	75	1259.581	0.00	1.3710	0.034	2.469	ug/L
|	Se	77	84.000	0.00	0.2531	0.106	41.682	ug/L
|	Se	82	9.684	0.00	0.3885	0.152	39.117	ug/L
⌊	Rb	85	42759.988	0.12				mg/L
	Y	89	249714.727	38057.16				ug/L
	Rh	103	20.667	8.00				ug/L
⌈	Mo	98	223.137	0.00	0.0762	0.005	6.273	ug/L
|	Ag	107	108.335	0.00	0.0171	0.001	6.983	ug/L
|	Cd	114	2.475	0.00	0.0209	0.016	78.025	ug/L
| >	In	115	334377.786	334377.79				ug/L
|	Sn	118	226.003	0.00	-0.1072	0.002	1.792	ug/L
⌊	Sb	123	47.737	-0.00	0.0056	0.004	66.132	ug/L
⌈	Ba	135	25221.353	0.06	15.6075	0.205	1.310	ug/L
|	Ce	140	247120.572	0.58				ug/L
⌊>	Tb	159	426011.960	426011.96				ug/L
⌈	Ho	165	1486.926	0.00				ug/L
|	Tl	203	477.016	0.00	0.0620	0.002	3.687	ug/L
|	Tl	205	1010.153	0.00	0.0525	0.008	14.791	ug/L
|	Pb	206	33530.459	0.09	5.7414	0.019	0.324	ug/L
|	Pb	207	28755.252	0.08	5.2252	0.103	1.964	ug/L
|	Pb	208	133424.602	0.36	5.4761	0.064	1.176	ug/L
|	U	238	21673.022	0.06	0.6119	0.014	2.326	ug/L
⌊>	Bi	209	364990.103	364990.10				ug/L

Sample ID: L1103092503
Report Date/Time: Monday, March 28, 2011 16:11:18
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	969012.977	4.29	0.1464	0.003	2.210	mg/L
|	Mg	24	1032648.660	4.67	0.2374	0.003	1.260	mg/L
|	K	39	2258345.249	7.85	0.2140	0.003	1.277	mg/L
|	Ca	43	953.474	0.00	-0.0042	0.004	94.594	mg/L
|	Fe	54	12332553.668	55.59	17.8599	0.442	2.474	mg/L
|	Fe	57	5312802.177	24.01	18.1295	0.617	3.405	mg/L
⌊>	Sc-1	45	221016.727	221016.73				mg/L
	Cl	35	13350.914	-510.69				mg/L
	Kr	83	74.668	16.67				mg/L
	Br	81	6806.983	1917.12				mg/L
	P	31	89265.332	83848.53				mg/L
	S	34	131454.740	-15960.13				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.390			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.207			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.012			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.833			
⌈	Na	23					

Sample ID: L1103092503
Report Date/Time: Monday, March 28, 2011 16:11:18
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092504

Sample Date/Time: Monday, March 28, 2011 16:15:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 37
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18316.763	-0.03				ug/L
|	Be	9	74.667	0.00	0.0910	0.026	28.471	ug/L
|	Al	27	42315689.750	217.76	6771.9785	292.481	4.319	ug/L
⌊>	Sc	45	194405.317	194405.32				ug/L
⌈	Ti	49	68249.107	0.19	132.7962	5.701	4.293	ug/L
|	V	51	242159.306	0.68	28.7682	0.853	2.964	ug/L
|	Cr	52	46497.678	0.11	5.2307	0.175	3.350	ug/L
|	Cr	53	4778.288	0.01	5.1553	0.347	6.740	ug/L
|	Mn	55	1012828.826	2.86	90.6952	2.567	2.830	ug/L
|	Co	59	20420.035	0.06	2.3816	0.061	2.567	ug/L
|	Ni	60	6509.518	0.02	3.5903	0.155	4.307	ug/L
|	Cu	65	10967.123	0.03	5.8800	0.222	3.782	ug/L
|	Zn	66	17457.734	0.05	13.0384	0.331	2.540	ug/L
|>	Ge	72	354026.927	354026.93				ug/L
|	As	75	463.736	0.00	0.6498	0.017	2.633	ug/L
|	Se	77	82.667	0.00	0.2236	0.062	27.739	ug/L
|	Se	82	19.670	0.00	0.4802	0.075	15.601	ug/L
⌊	Rb	85	59468.296	0.17				mg/L
	Y	89	274770.953	63113.39				ug/L
	Rh	103	21.000	8.33				ug/L
⌈	Mo	98	176.291	0.00	0.0602	0.004	7.410	ug/L
|	Ag	107	87.001	0.00	0.0136	0.003	20.673	ug/L
|	Cd	114	1.226	0.00	0.0199	0.004	18.844	ug/L
|>	In	115	334769.587	334769.59				ug/L
|	Sn	118	220.269	0.00	-0.1086	0.002	1.684	ug/L
⌊	Sb	123	42.942	-0.00	0.0044	0.001	18.137	ug/L
⌈	Ba	135	35803.713	0.08	22.2882	0.564	2.532	ug/L
|	Ce	140	536319.156	1.27				ug/L
⌊>	Tb	159	423721.147	423721.15				ug/L
⌈	Ho	165	2743.985	0.01				ug/L
|	Tl	203	362.344	0.00	0.0460	0.002	5.351	ug/L
|	Tl	205	870.125	0.00	0.0446	0.006	14.370	ug/L
|	Pb	206	15540.893	0.04	2.6330	0.059	2.251	ug/L
|	Pb	207	13336.027	0.04	2.3932	0.087	3.630	ug/L
|	Pb	208	62641.184	0.17	2.5432	0.066	2.592	ug/L
|	U	238	15845.377	0.04	0.4459	0.014	3.210	ug/L
⌊>	Bi	209	364348.324	364348.32				ug/L

Sample ID: L1103092504
Report Date/Time: Monday, March 28, 2011 16:18:04
Page 1

Approved: March 29, 2011

⌈	Na	23	107168.793	0.46	0.0055	0.001	10.719	mg/L
|	Mg	24	1212273.576	6.24	0.3213	0.015	4.665	mg/L
|	K	39	2624571.309	11.13	0.3075	0.013	4.309	mg/L
|	Ca	43	846.788	0.00	-0.0036	0.012	334.783	mg/L
|	Fe	54	7445957.828	38.10	12.2411	0.617	5.040	mg/L
|	Fe	57	3176410.671	16.31	12.3134	0.525	4.264	mg/L
⌊>	Sc-1	45	194405.317	194405.32				mg/L
	Cl	35	13920.349	58.75				mg/L
	Kr	83	76.334	18.33				mg/L
	Br	81	6696.909	1807.05				mg/L
	P	31	57343.313	51926.51				mg/L
	S	34	122729.377	-24685.50				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		114.987			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.337			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.420			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.647			
⌈	Na	23					

Sample ID: L1103092504
Report Date/Time: Monday, March 28, 2011 16:18:04
Page 2

Approved: March 29, 2011

Erin D. Long

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092504
Report Date/Time: Monday, March 28, 2011 16:18:04
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092505

Sample Date/Time: Monday, March 28, 2011 16:23:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17515.343	-0.03				ug/L
|	Be	9	136.668	0.00	0.3060	0.074	24.172	ug/L
|	Al	27	25967531.855	145.79	4533.9232	300.486	6.627	ug/L
⌊>	Sc	45	178259.410	178259.41				ug/L
⌈	Ti	49	1596.956	0.00	3.0569	0.566	18.502	ug/L
|	V	51	50789.987	0.14	5.8377	0.374	6.406	ug/L
|	Cr	52	26516.761	0.05	2.4757	0.177	7.166	ug/L
|	Cr	53	2517.236	0.01	2.5349	0.220	8.664	ug/L
|	Mn	55	2890509.386	8.24	261.4509	11.966	4.577	ug/L
|	Co	59	82771.641	0.24	9.7824	0.536	5.476	ug/L
|	Ni	60	6569.229	0.02	3.6585	0.245	6.688	ug/L
|	Cu	65	5108.024	0.01	2.7010	0.147	5.446	ug/L
|	Zn	66	12401.481	0.03	8.7474	0.352	4.029	ug/L
| >	Ge	72	350601.421	350601.42				ug/L
|	As	75	652.889	0.00	0.8231	0.034	4.191	ug/L
|	Se	77	128.001	0.00	0.7589	0.121	15.909	ug/L
|	Se	82	32.183	0.00	0.5986	0.131	21.960	ug/L
⌊	Rb	85	18769.473	0.05				mg/L
	Y	89	433109.727	221452.16				ug/L
	Rh	103	14.333	1.67				ug/L
⌈	Mo	98	59.841	0.00	0.0210	0.001	5.371	ug/L
|	Ag	107	131.669	0.00	0.0212	0.002	8.601	ug/L
|	Cd	114	33.142	0.00	0.0448	0.007	14.825	ug/L
| >	In	115	330201.195	330201.20				ug/L
|	Sn	118	132.934	-0.00	-0.1273	0.001	0.812	ug/L
⌊	Sb	123	39.024	-0.00	0.0036	0.002	41.576	ug/L
⌈	Ba	135	11087.931	0.03	6.7439	0.327	4.847	ug/L
|	Ce	140	860832.219	1.99				ug/L
⌊>	Tb	159	432145.051	432145.05				ug/L
⌈	Ho	165	14154.770	0.04				ug/L
|	Tl	203	465.016	0.00	0.0621	0.005	8.581	ug/L
|	Tl	205	1060.162	0.00	0.0570	0.004	7.233	ug/L
|	Pb	206	6143.616	0.02	1.0313	0.026	2.535	ug/L
|	Pb	207	4488.054	0.01	0.7841	0.045	5.685	ug/L
|	Pb	208	22336.655	0.06	0.8914	0.047	5.263	ug/L
|	U	238	7981.940	0.02	0.2262	0.015	6.431	ug/L
⌊>	Bi	209	355180.632	355180.63				ug/L

Sample ID: L1103092505
Report Date/Time: Monday, March 28, 2011 16:25:35
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	146122.737	0.73	0.0154	0.002	12.309	mg/L
|	Mg	24	360458.124	2.02	0.0955	0.005	5.754	mg/L
|	K	39	1375342.451	5.35	0.1429	0.013	9.047	mg/L
|	Ca	43	1526.937	0.01	0.0447	0.014	31.490	mg/L
|	Fe	54	24702627.147	138.40	44.4640	2.048	4.605	mg/L
|	Fe	57	10605842.056	59.49	44.9151	2.648	5.896	mg/L
⌊>	Sc-1	45	178259.410	178259.41				mg/L
	Cl	35	15134.112	1272.51				mg/L
	Kr	83	94.001	36.00				mg/L
	Br	81	6869.695	1979.83				mg/L
	P	31	37906.455	32489.65				mg/L
	S	34	134791.881	-12622.99				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.875			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.818			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.595			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.988			
⌈	Na	23					

Sample ID: L1103092505
Report Date/Time: Monday, March 28, 2011 16:25:35
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092506

Sample Date/Time: Monday, March 28, 2011 16:30:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 39
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18734.213	-0.03				ug/L
|	Be	9	128.667	0.00	0.2653	0.007	2.766	ug/L
|	Al	27	26309943.345	142.28	4424.8508	154.763	3.498	ug/L
⌊>	Sc	45	184876.905	184876.91				ug/L
⌈	Ti	49	4371.450	0.01	8.4944	2.533	29.820	ug/L
|	V	51	74713.451	0.21	8.7361	0.408	4.675	ug/L
|	Cr	52	58177.460	0.14	6.9370	0.347	5.004	ug/L
|	Cr	53	6042.435	0.02	6.6996	0.516	7.701	ug/L
|	Mn	55	1201346.912	3.42	108.5896	6.574	6.054	ug/L
|	Co	59	53574.953	0.15	6.3258	0.391	6.187	ug/L
|	Ni	60	9992.095	0.03	5.6019	0.267	4.767	ug/L
|	Cu	65	12788.977	0.04	6.9408	0.342	4.933	ug/L
|	Zn	66	9984.086	0.03	6.6235	0.386	5.832	ug/L
| >	Ge	72	350798.210	350798.21				ug/L
|	As	75	518.482	0.00	0.7025	0.020	2.806	ug/L
|	Se	77	135.334	0.00	0.8437	0.105	12.399	ug/L
|	Se	82	21.931	0.00	0.5026	0.064	12.804	ug/L
⌊	Rb	85	21232.755	0.06				mg/L
	Y	89	375806.300	164148.74				ug/L
	Rh	103	15.667	3.00				ug/L
⌈	Mo	98	149.509	0.00	0.0509	0.000	0.759	ug/L
|	Ag	107	95.335	0.00	0.0149	0.002	12.814	ug/L
|	Cd	114	12.651	0.00	0.0286	0.004	13.011	ug/L
| >	In	115	336054.068	336054.07				ug/L
|	Sn	118	138.934	-0.00	-0.1265	0.001	0.688	ug/L
⌊	Sb	123	64.611	0.00	0.0096	0.002	17.161	ug/L
⌈	Ba	135	16734.179	0.04	10.1145	0.452	4.472	ug/L
|	Ce	140	820937.588	1.88				ug/L
⌊>	Tb	159	435563.986	435563.99				ug/L
⌈	Ho	165	9462.089	0.03				ug/L
|	Tl	203	179.670	0.00	0.0206	0.002	8.389	ug/L
|	Tl	205	483.394	0.00	0.0228	0.004	18.445	ug/L
|	Pb	206	12435.866	0.03	2.1141	0.131	6.179	ug/L
|	Pb	207	10119.891	0.03	1.8172	0.089	4.906	ug/L
|	Pb	208	48502.338	0.13	1.9734	0.105	5.315	ug/L
|	U	238	11885.199	0.03	0.3354	0.026	7.834	ug/L
⌊>	Bi	209	361221.387	361221.39				ug/L

Sample ID: L1103092506
Report Date/Time: Monday, March 28, 2011 16:32:21
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	310326.259	1.59	0.0469	0.002	3.835	mg/L
|	Mg	24	394234.765	2.13	0.1013	0.005	4.727	mg/L
|	K	39	1381751.224	5.10	0.1359	0.008	5.831	mg/L
|	Ca	43	1146.847	0.00	0.0174	0.004	21.565	mg/L
|	Fe	54	6100191.945	32.77	10.5297	0.391	3.717	mg/L
|	Fe	57	2678968.150	14.45	10.9117	0.629	5.764	mg/L
⌊>	Sc-1	45	184876.905	184876.91				mg/L
	Cl	35	13313.524	-548.08				mg/L
	Kr	83	84.668	26.67				mg/L
	Br	81	6729.598	1839.74				mg/L
	P	31	54762.385	49345.58				mg/L
	S	34	124325.592	-23089.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.939			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.765			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		112.478			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.740			
⌈	Na	23					

Sample ID: L1103092506
Report Date/Time: Monday, March 28, 2011 16:32:21
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092506PS WG360123-01

Sample Date/Time: Monday, March 28, 2011 16:36:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 40
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18149.799	-0.03				ug/L
|	Be	9	17642.226	0.09	51.9263	3.268	6.294	ug/L
|	Al	27	29033309.151	153.10	4761.0799	389.708	8.185	ug/L
⌊>	Sc	45	189904.575	189904.57				ug/L
⌈	Ti	49	3967.853	0.01	7.6847	0.655	8.521	ug/L
|	V	51	566115.364	1.60	68.0557	3.979	5.847	ug/L
|	Cr	52	495615.793	1.38	68.3339	4.543	6.649	ug/L
|	Cr	53	58037.513	0.16	67.8985	5.330	7.850	ug/L
|	Mn	55	2013451.696	5.72	181.3495	11.252	6.205	ug/L
|	Co	59	594230.870	1.69	70.0124	3.977	5.680	ug/L
|	Ni	60	123823.618	0.35	70.0022	3.944	5.635	ug/L
|	Cu	65	131821.926	0.37	72.4020	5.789	7.995	ug/L
|	Zn	66	83444.656	0.24	70.7789	4.318	6.101	ug/L
| >	Ge	72	352255.895	352255.90				ug/L
|	As	75	70863.915	0.20	63.4201	4.360	6.875	ug/L
|	Se	77	6039.827	0.02	69.0379	4.735	6.859	ug/L
|	Se	82	7157.496	0.02	66.7861	4.917	7.362	ug/L
⌊	Rb	85	23017.726	0.07				mg/L
	Y	89	387812.198	176154.63				ug/L
	Rh	103	43.334	30.67				ug/L
⌈	Mo	98	185.300	0.00	0.0638	0.005	7.756	ug/L
|	Ag	107	388247.599	1.17	63.5323	3.438	5.411	ug/L
|	Cd	114	81692.494	0.25	63.4059	2.320	3.659	ug/L
| >	In	115	331762.903	331762.90				ug/L
|	Sn	118	199.069	0.00	-0.1128	0.002	1.906	ug/L
⌊	Sb	123	245902.145	0.74	59.8738	2.834	4.733	ug/L
⌈	Ba	135	116560.500	0.27	71.7209	4.465	6.226	ug/L
|	Ce	140	892654.112	2.08				ug/L
⌊>	Tb	159	429343.792	429343.79				ug/L
⌈	Ho	165	10399.812	0.03				ug/L
|	Tl	203	425643.093	1.20	61.0706	3.442	5.635	ug/L
|	Tl	205	1053704.143	2.96	61.6623	3.501	5.677	ug/L
|	Pb	206	369645.110	1.04	65.5494	3.908	5.962	ug/L
|	Pb	207	327491.530	0.92	61.7198	2.202	3.567	ug/L
|	Pb	208	1504202.920	4.22	63.9634	2.780	4.346	ug/L
|	U	238	2044003.068	5.74	60.0181	2.463	4.104	ug/L
⌊>	Bi	209	355900.404	355900.40				ug/L

Sample ID: L1103092506PS WG360123-01
Report Date/Time: Monday, March 28, 2011 16:39:08
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	346916.855	1.74	0.0525	0.006	11.655	mg/L
|	Mg	24	438362.995	2.31	0.1109	0.008	7.087	mg/L
|	K	39	1539511.755	5.74	0.1541	0.013	8.713	mg/L
|	Ca	43	1363.564	0.00	0.0288	0.014	48.654	mg/L
|	Fe	54	6850995.949	35.93	11.5448	1.066	9.236	mg/L
|	Fe	57	2926270.910	15.39	11.6214	0.799	6.877	mg/L
⌊>	Sc-1	45	189904.575	189904.57				mg/L
	Cl	35	13421.669	-439.94				mg/L
	Kr	83	101.335	43.33				mg/L
	Br	81	6857.687	1967.82				mg/L
	P	31	60850.790	55433.99				mg/L
	S	34	122478.833	-24936.04				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		114.412			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.337			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.872			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.197			
⌈	Na	23					

Sample ID: L1103092506PS WG360123-01
Report Date/Time: Monday, March 28, 2011 16:39:08
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092506SDL WG360123-02

Sample Date/Time: Monday, March 28, 2011 16:43:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 41
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18517.197	-0.01				ug/L
|	Be	9	31.333	0.00	-0.0132	0.021	161.349	ug/L
|	Al	27	4444132.852	28.09	873.6968	28.295	3.239	ug/L
⌊>	Sc	45	158022.215	158022.22				ug/L
⌈	Ti	49	676.758	0.00	1.2457	0.250	20.075	ug/L
|	V	51	14781.752	0.03	1.4673	0.018	1.217	ug/L
|	Cr	52	16245.682	0.02	1.0234	0.016	1.564	ug/L
|	Cr	53	1210.195	0.00	0.9871	0.196	19.903	ug/L
|	Mn	55	203425.317	0.58	18.3070	0.281	1.535	ug/L
|	Co	59	9142.269	0.03	1.0682	0.015	1.437	ug/L
|	Ni	60	1760.839	0.00	0.9245	0.013	1.384	ug/L
|	Cu	65	2280.950	0.01	1.1371	0.013	1.145	ug/L
|	Zn	66	4232.605	0.01	1.5741	0.064	4.089	ug/L
|>	Ge	72	351231.952	351231.95				ug/L
|	As	75	-14.555	0.00	0.2256	0.010	4.250	ug/L
|	Se	77	68.667	0.00	0.0693	0.030	43.211	ug/L
|	Se	82	13.336	0.00	0.4226	0.093	21.958	ug/L
⌊	Rb	85	3632.363	0.01				mg/L
	Y	89	267110.849	55453.28				ug/L
	Rh	103	17.000	4.33				ug/L
⌈	Mo	98	47.247	0.00	0.0165	0.001	5.120	ug/L
|	Ag	107	52.334	0.00	0.0080	0.001	13.796	ug/L
|	Cd	114	-1.586	0.00	0.0177	0.005	28.564	ug/L
|>	In	115	333637.547	333637.55				ug/L
|	Sn	118	113.867	-0.00	-0.1318	0.001	0.920	ug/L
⌊	Sb	123	353.038	0.00	0.0795	0.006	7.298	ug/L
⌈	Ba	135	2836.097	0.01	1.7336	0.011	0.607	ug/L
|	Ce	140	139378.479	0.33				ug/L
⌊>	Tb	159	423594.679	423594.68				ug/L
⌈	Ho	165	1690.312	0.00				ug/L
|	Tl	203	71.001	0.00	0.0055	0.002	38.340	ug/L
|	Tl	205	156.684	0.00	0.0041	0.001	30.640	ug/L
|	Pb	206	2406.981	0.01	0.3684	0.015	3.990	ug/L
|	Pb	207	1959.545	0.00	0.3075	0.007	2.396	ug/L
|	Pb	208	9224.421	0.02	0.3338	0.002	0.520	ug/L
|	U	238	1970.881	0.01	0.0496	0.000	0.861	ug/L
⌊>	Bi	209	353912.724	353912.72				ug/L

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	75212.624	0.38	0.0027	0.000	12.381	mg/L
|	Mg	24	66231.940	0.42	0.0096	0.000	2.349	mg/L
|	K	39	562182.631	1.18	0.0246	0.002	7.282	mg/L
|	Ca	43	440.054	0.00	-0.0216	0.005	23.536	mg/L
|	Fe	54	1108423.040	6.79	2.1822	0.011	0.519	mg/L
|	Fe	57	452711.978	2.83	2.1331	0.042	1.949	mg/L
⌊>	Sc-1	45	158022.215	158022.22				mg/L
	Cl	35	11499.275	-2362.33				mg/L
	Kr	83	76.334	18.33				mg/L
	Br	81	6800.314	1910.45				mg/L
	P	31	12299.570	6882.77				mg/L
	S	34	125918.538	-21496.34				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		114.080			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.961			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.387			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.621			
⌈	Na	23					

Sample ID: L1103092506SDL WG360123-02
Report Date/Time: Monday, March 28, 2011 16:45:55
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092506SDL WG360123-02
Report Date/Time: Monday, March 28, 2011 16:45:55
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 28, 2011 16:50:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17148.027	-0.02				ug/L
|	Be	9	14485.152	0.09	51.2917	0.798	1.557	ug/L
|	Al	27	261613.884	1.63	50.6621	2.559	5.052	ug/L
⌊>	Sc	45	157633.068	157633.07				ug/L
⌈	Ti	49	53920.424	0.15	105.8465	1.757	1.660	ug/L
|	V	51	444432.515	1.26	53.5624	0.445	0.830	ug/L
|	Cr	52	394938.124	1.10	54.4063	0.483	0.888	ug/L
|	Cr	53	44660.640	0.13	52.3471	1.376	2.629	ug/L
|	Mn	55	595385.655	1.70	53.7864	1.173	2.181	ug/L
|	Co	59	469033.202	1.34	55.4731	0.912	1.644	ug/L
|	Ni	60	98872.038	0.28	56.0969	0.851	1.517	ug/L
|	Cu	65	99713.015	0.28	54.9391	0.981	1.786	ug/L
|	Zn	66	61841.623	0.17	52.1014	0.339	0.651	ug/L
| >	Ge	72	350744.567	350744.57				ug/L
|	As	75	60469.730	0.17	54.3525	0.687	1.265	ug/L
|	Se	77	4975.905	0.01	56.9778	1.686	2.959	ug/L
|	Se	82	6001.299	0.02	56.2508	0.857	1.523	ug/L
⌊	Rb	85	2339.964	0.01				mg/L
	Y	89	245316.861	33659.30				ug/L
	Rh	103	35.667	23.00				ug/L
⌈	Mo	98	325785.169	0.95	107.2590	0.292	0.272	ug/L
|	Ag	107	339713.828	0.99	53.5183	0.444	0.829	ug/L
|	Cd	114	70468.084	0.20	52.6582	1.420	2.696	ug/L
| >	In	115	344545.627	344545.63				ug/L
|	Sn	118	246102.284	0.71	52.2122	0.370	0.709	ug/L
⌊	Sb	123	219013.500	0.64	51.3370	0.188	0.367	ug/L
⌈	Ba	135	88521.667	0.20	53.7798	0.033	0.062	ug/L
|	Ce	140	73.341	0.00				ug/L
⌊>	Tb	159	434613.473	434613.47				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	367760.667	1.04	53.1542	0.342	0.644	ug/L
|	Tl	205	911914.647	2.58	53.7578	0.210	0.391	ug/L
|	Pb	206	299571.418	0.85	53.5053	0.451	0.842	ug/L
|	Pb	207	282782.813	0.80	53.6851	0.632	1.176	ug/L
|	Pb	208	1252134.070	3.54	53.6347	0.766	1.428	ug/L
|	U	238	1903076.402	5.39	56.2944	0.412	0.733	ug/L
⌊>	Bi	209	353266.461	353266.46				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 16:52:42
Page 1

Approved: March 29, 2011

Na	23	21613400.995	137.04	5.0247	0.084	1.669	mg/L
Mg	24	14883878.090	94.44	5.0454	0.089	1.769	mg/L
K	39	31051442.115	194.62	5.5257	0.186	3.364	mg/L
Ca	43	74275.564	0.47	5.3264	0.116	2.180	mg/L
Fe	54	2823344.968	17.69	5.6842	0.119	2.101	mg/L
Fe	57	1184757.974	7.48	5.6471	0.205	3.626	mg/L
Sc-1	45	157633.068	157633.07				mg/L
Cl	35	12418.381	-1443.22				mg/L
Kr	83	69.334	11.33				mg/L
Br	81	6924.397	2034.53				mg/L
P	31	7416.083	1999.28				mg/L
S	34	148015.818	600.94				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	107.125				
Cr	52	108.813				
Cr	53					
Mn	55	107.573				
Co	59	110.946				
Ni	60	112.194				
Cu	65	109.878				
Zn	66	104.203				
Ge	72		113.921			
As	75	108.705				
Se	77					
Se	82	112.502				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	107.037				
Cd	114	105.316				
In	115		114.589			
Sn	118					
Sb	123	102.674				
Ba	135	107.560				
Ce	140					
Tb	159		112.233			
Ho	165					
Tl	203	106.308				
Tl	205					
Pb	206					
Pb	207					
Pb	208	107.269				
U	238	112.589				
Bi	209		102.433			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 16:52:42

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Co	59	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	Ni	60	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	Se	82	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 16:52:42
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 28, 2011 16:57:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17849.360	-0.02				ug/L
|	Be	9	16.000	0.00	-0.0683	0.023	33.162	ug/L
|	Al	27	5985.135	0.00	0.1714	0.136	79.305	ug/L
⌊>	Sc	45	162273.740	162273.74				ug/L
⌈	Ti	49	43.338	-0.00	-0.0009	0.029	3226.123	ug/L
|	V	51	2792.742	-0.00	0.0074	0.007	95.097	ug/L
|	Cr	52	9065.199	-0.00	-0.0192	0.023	122.328	ug/L
|	Cr	53	223.358	-0.00	-0.1848	0.028	15.352	ug/L
|	Mn	55	558.021	0.00	-0.0166	0.002	13.233	ug/L
|	Co	59	65.668	-0.00	-0.0042	0.001	17.348	ug/L
|	Ni	60	61.667	0.00	-0.0404	0.007	17.287	ug/L
|	Cu	65	183.004	0.00	-0.0222	0.004	17.694	ug/L
|	Zn	66	659.362	0.00	-1.5702	0.016	1.019	ug/L
|>	Ge	72	360212.820	360212.82				ug/L
|	As	75	-198.677	-0.00	0.0655	0.019	28.287	ug/L
|	Se	77	75.334	0.00	0.1250	0.094	74.795	ug/L
|	Se	82	1.296	-0.00	0.3099	0.095	30.771	ug/L
⌊	Rb	85	34.334	0.00				mg/L
	Y	89	253634.838	41977.27				ug/L
	Rh	103	16.000	3.33				ug/L
⌈	Mo	98	119.362	0.00	0.0398	0.009	22.778	ug/L
|	Ag	107	42.001	0.00	0.0061	0.001	11.176	ug/L
|	Cd	114	0.204	0.00	0.0191	0.002	9.945	ug/L
|>	In	115	344133.433	344133.43				ug/L
|	Sn	118	231.469	0.00	-0.1075	0.003	3.101	ug/L
⌊	Sb	123	137.988	0.00	0.0265	0.004	14.025	ug/L
⌈	Ba	135	34.000	0.00	-0.0150	0.002	14.791	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	442611.803	442611.80				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	48.001	0.00	0.0021	0.001	43.794	ug/L
|	Tl	205	96.677	0.00	0.0005	0.001	267.157	ug/L
|	Pb	206	327.342	0.00	-0.0036	0.002	63.404	ug/L
|	Pb	207	282.007	-0.00	-0.0115	0.002	16.980	ug/L
|	Pb	208	1278.711	0.00	-0.0071	0.001	18.414	ug/L
|	U	238	74.334	0.00	-0.0065	0.000	4.761	ug/L
⌊>	Bi	209	359036.662	359036.66				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 16:59:57
Page 1

Approved: March 29, 2011

Na	23	16541.993	0.01	-0.0110	0.000	0.552	mg/L
Mg	24	403.382	-0.00	-0.0127	0.000	0.112	mg/L
K	39	385785.205	0.01	-0.0090	0.002	25.815	mg/L
Ca	43	476.726	0.00	-0.0199	0.001	6.201	mg/L
Fe	54	37786.824	0.01	0.0037	0.002	44.200	mg/L
Fe	57	7223.337	0.01	0.0033	0.001	27.207	mg/L
> Sc-1	45	162273.740	162273.74				mg/L
Cl	35	11274.352	-2587.25				mg/L
Kr	83	81.001	23.00				mg/L
Br	81	7380.723	2490.86				mg/L
P	31	6620.219	1203.42				mg/L
S	34	130395.569	-17019.30				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		116.997			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		114.452			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		114.298			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		104.106			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 16:59:57

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 16:59:57
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092601 WG360101-01

Sample Date/Time: Monday, March 28, 2011 17:04:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 42
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18767.677	-0.03				ug/L
|	Be	9	43.333	0.00	0.0056	0.012	223.926	ug/L
|	Al	27	21938224.551	117.50	3654.0667	213.000	5.829	ug/L
⌊>	Sc	45	186847.236	186847.24				ug/L
⌈	Ti	49	6619.519	0.02	12.8453	0.131	1.017	ug/L
|	V	51	110761.125	0.31	13.0282	0.455	3.496	ug/L
|	Cr	52	51358.797	0.12	5.9336	0.238	4.006	ug/L
|	Cr	53	5381.988	0.01	5.8818	0.323	5.487	ug/L
|	Mn	55	420085.593	1.19	37.7054	1.634	4.333	ug/L
|	Co	59	3538.995	0.01	0.4044	0.014	3.571	ug/L
|	Ni	60	2420.651	0.01	1.2926	0.048	3.731	ug/L
|	Cu	65	5225.084	0.01	2.7473	0.039	1.419	ug/L
|	Zn	66	10530.647	0.03	7.0484	0.142	2.017	ug/L
|>	Ge	72	352824.945	352824.94				ug/L
|	As	75	124.593	0.00	0.3495	0.063	17.904	ug/L
|	Se	77	79.334	0.00	0.1892	0.121	63.886	ug/L
|	Se	82	12.977	0.00	0.4187	0.177	42.245	ug/L
⌊	Rb	85	30043.075	0.09				mg/L
	Y	89	259859.727	48202.16				ug/L
	Rh	103	17.667	5.00				ug/L
⌈	Mo	98	140.660	0.00	0.0476	0.005	10.328	ug/L
|	Ag	107	105.335	0.00	0.0164	0.001	9.078	ug/L
|	Cd	114	256.595	0.00	0.2141	0.027	12.525	ug/L
|>	In	115	338489.715	338489.72				ug/L
|	Sn	118	193.069	0.00	-0.1150	0.001	1.182	ug/L
⌊	Sb	123	285.035	0.00	0.0621	0.009	14.201	ug/L
⌈	Ba	135	16193.941	0.04	10.0427	0.239	2.381	ug/L
|	Ce	140	166706.454	0.39				ug/L
⌊>	Tb	159	424480.717	424480.72				ug/L
⌈	Ho	165	1230.199	0.00				ug/L
|	Tl	203	268.673	0.00	0.0334	0.003	9.641	ug/L
|	Tl	205	656.754	0.00	0.0329	0.006	19.306	ug/L
|	Pb	206	20884.004	0.06	3.6044	0.138	3.819	ug/L
|	Pb	207	17772.967	0.05	3.2508	0.090	2.767	ug/L
|	Pb	208	82599.102	0.23	3.4151	0.083	2.433	ug/L
|	U	238	15706.150	0.04	0.4475	0.012	2.571	ug/L
⌊>	Bi	209	359961.186	359961.19				ug/L

Sample ID: L1103092601 WG360101-01
Report Date/Time: Monday, March 28, 2011 17:06:44
Page 1

Approved: March 29, 2011

⌈	Na	23	61209.755	0.23	-0.0027	0.001	32.788	mg/L
|	Mg	24	733710.292	3.93	0.1977	0.013	6.525	mg/L
|	K	39	1323833.470	4.72	0.1250	0.010	7.916	mg/L
|	Ca	43	5505.400	0.03	0.2829	0.007	2.635	mg/L
|	Fe	54	4171518.024	22.11	7.1056	0.353	4.962	mg/L
|	Fe	57	1818428.611	9.70	7.3212	0.308	4.206	mg/L
⌊>	Sc-1	45	186847.236	186847.24				mg/L
	Cl	35	13160.655	-700.95				mg/L
	Kr	83	79.334	21.33				mg/L
	Br	81	7661.601	2771.74				mg/L
	P	31	44587.955	39171.15				mg/L
	S	34	121418.071	-25996.80				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		114.597			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		112.575			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.616			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.375			
⌈	Na	23					

Sample ID: L1103092601 WG360101-01
Report Date/Time: Monday, March 28, 2011 17:06:44
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092601 WG360101-01
Report Date/Time: Monday, March 28, 2011 17:06:44
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092602

Sample Date/Time: Monday, March 28, 2011 17:11:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 43
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18684.144	-0.03				ug/L
|	Be	9	58.667	0.00	0.0448	0.026	57.877	ug/L
|	Al	27	34718932.501	178.35	5546.5422	196.892	3.550	ug/L
⌊>	Sc	45	194574.888	194574.89				ug/L
⌈	Ti	49	17744.195	0.05	34.3235	1.719	5.009	ug/L
|	V	51	224236.401	0.62	26.5076	0.951	3.589	ug/L
|	Cr	52	84687.425	0.21	10.5169	0.274	2.607	ug/L
|	Cr	53	9552.190	0.03	10.6981	0.555	5.183	ug/L
|	Mn	55	615680.845	1.73	54.8852	1.976	3.601	ug/L
|	Co	59	7728.065	0.02	0.8903	0.030	3.414	ug/L
|	Ni	60	4906.587	0.01	2.6762	0.080	3.006	ug/L
|	Cu	65	10451.566	0.03	5.5741	0.122	2.184	ug/L
|	Zn	66	16800.611	0.05	12.4084	0.399	3.215	ug/L
|>	Ge	72	355382.903	355382.90				ug/L
|	As	75	697.099	0.00	0.8540	0.058	6.772	ug/L
|	Se	77	83.334	0.00	0.2287	0.196	85.756	ug/L
|	Se	82	-8.449	-0.00	0.2194	0.189	86.330	ug/L
⌊	Rb	85	49442.139	0.14				mg/L
	Y	89	257389.470	45731.91				ug/L
	Rh	103	15.667	3.00				ug/L
⌈	Mo	98	214.511	0.00	0.0732	0.011	14.432	ug/L
|	Ag	107	135.002	0.00	0.0214	0.003	14.629	ug/L
|	Cd	114	280.842	0.00	0.2347	0.027	11.413	ug/L
|>	In	115	334812.939	334812.94				ug/L
|	Sn	118	186.802	0.00	-0.1159	0.002	1.418	ug/L
⌊	Sb	123	167.821	0.00	0.0346	0.002	6.195	ug/L
⌈	Ba	135	26572.226	0.06	16.6337	0.580	3.484	ug/L
|	Ce	140	158750.771	0.38				ug/L
⌊>	Tb	159	421139.634	421139.63				ug/L
⌈	Ho	165	1443.583	0.00				ug/L
|	Tl	203	410.013	0.00	0.0532	0.002	4.641	ug/L
|	Tl	205	973.479	0.00	0.0511	0.012	22.745	ug/L
|	Pb	206	23155.036	0.06	3.9929	0.195	4.894	ug/L
|	Pb	207	19559.656	0.05	3.5758	0.162	4.524	ug/L
|	Pb	208	91851.044	0.25	3.7954	0.172	4.541	ug/L
|	U	238	19326.867	0.05	0.5513	0.024	4.409	ug/L
⌊>	Bi	209	360862.182	360862.18				ug/L

Sample ID: L1103092602
Report Date/Time: Monday, March 28, 2011 17:13:32
Page 1

Approved: March 29, 2011

⌈	Na	23	74030.442	0.29	-0.0008	0.000	23.764	mg/L
|	Mg	24	1050215.040	5.39	0.2762	0.002	0.703	mg/L
|	K	39	1849934.897	7.14	0.1939	0.023	11.675	mg/L
|	Ca	43	6325.966	0.03	0.3177	0.010	3.096	mg/L
|	Fe	54	8695483.453	44.46	14.2836	0.459	3.212	mg/L
|	Fe	57	3777629.437	19.37	14.6267	0.239	1.633	mg/L
⌊>	Sc-1	45	194574.888	194574.89				mg/L
	Cl	35	13731.421	-130.18				mg/L
	Kr	83	90.001	32.00				mg/L
	Br	81	7212.601	2322.74				mg/L
	P	31	65609.228	60192.43				mg/L
	S	34	118210.515	-29204.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		115.428			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.352			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.753			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.636			
⌈	Na	23					

Sample ID: L1103092602
Report Date/Time: Monday, March 28, 2011 17:13:32
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092602
Report Date/Time: Monday, March 28, 2011 17:13:32
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092603S WG360101-04

Sample Date/Time: Monday, March 28, 2011 17:18:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 44
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17849.260	-0.04				ug/L
|	Be	9	1648.803	0.01	4.4687	0.176	3.940	ug/L
|	Al	27	29582760.147	147.15	4576.1498	135.158	2.954	ug/L
⌊>	Sc	45	200832.118	200832.12				ug/L
⌈	Ti	49	18325.330	0.05	34.8293	2.625	7.536	ug/L
|	V	51	233632.196	0.64	27.1434	1.755	6.466	ug/L
|	Cr	52	112614.461	0.29	14.1279	0.863	6.109	ug/L
|	Cr	53	12432.340	0.03	13.8057	1.327	9.614	ug/L
|	Mn	55	532900.849	1.47	46.6646	2.720	5.828	ug/L
|	Co	59	55824.478	0.15	6.3907	0.310	4.858	ug/L
|	Ni	60	15119.919	0.04	8.2536	0.374	4.528	ug/L
|	Cu	65	19186.937	0.05	10.1510	0.485	4.777	ug/L
|	Zn	66	20812.536	0.06	15.5657	0.821	5.273	ug/L
| >	Ge	72	361771.972	361771.97				ug/L
|	As	75	4681.141	0.01	4.3002	0.236	5.484	ug/L
|	Se	77	246.670	0.00	2.0467	0.120	5.879	ug/L
|	Se	82	256.643	0.00	2.6183	0.438	16.734	ug/L
⌊	Rb	85	44136.413	0.12				mg/L
	Y	89	255341.232	43683.67				ug/L
	Rh	103	19.667	7.00				ug/L
⌈	Mo	98	166.843	0.00	0.0572	0.003	4.735	ug/L
|	Ag	107	32647.627	0.10	5.3154	0.327	6.149	ug/L
|	Cd	114	7773.425	0.02	6.0196	0.248	4.118	ug/L
| >	In	115	333507.313	333507.31				ug/L
|	Sn	118	223.202	0.00	-0.1077	0.002	1.989	ug/L
⌊	Sb	123	4447.855	0.01	1.0717	0.051	4.758	ug/L
⌈	Ba	135	28108.142	0.07	17.4574	0.844	4.836	ug/L
|	Ce	140	138079.596	0.33				ug/L
⌊>	Tb	159	424471.785	424471.78				ug/L
⌈	Ho	165	1113.507	0.00				ug/L
|	Tl	203	39620.220	0.11	5.5762	0.299	5.354	ug/L
|	Tl	205	97371.724	0.27	5.5897	0.172	3.085	ug/L
|	Pb	206	53009.482	0.15	9.1753	0.358	3.905	ug/L
|	Pb	207	45814.670	0.13	8.4209	0.394	4.678	ug/L
|	Pb	208	212768.457	0.58	8.8292	0.429	4.860	ug/L
|	U	238	211588.071	0.58	6.0914	0.340	5.580	ug/L
⌊>	Bi	209	362511.516	362511.52				ug/L

Sample ID: L1103092603S WG360101-04
Report Date/Time: Monday, March 28, 2011 17:20:20
Page 1

Approved: March 29, 2011

⌈	Na	23	68702.308	0.25	-0.0022	0.000	8.736	mg/L
|	Mg	24	964999.151	4.80	0.2444	0.004	1.496	mg/L
|	K	39	1811244.144	6.66	0.1804	0.022	12.148	mg/L
|	Ca	43	5965.711	0.03	0.2859	0.018	6.388	mg/L
|	Fe	54	7056202.911	34.91	11.2151	0.147	1.307	mg/L
|	Fe	57	2999098.042	14.89	11.2436	0.078	0.697	mg/L
⌊>	Sc-1	45	200832.118	200832.12				mg/L
	Cl	35	13326.876	-534.73				mg/L
	Kr	83	80.334	22.33				mg/L
	Br	81	7570.865	2681.00				mg/L
	P	31	57046.072	51629.27				mg/L
	S	34	122380.391	-25034.48				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		117.503			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.918			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.614			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.114			
⌈	Na	23					

Sample ID: L1103092603S WG360101-04
Report Date/Time: Monday, March 28, 2011 17:20:20
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092603S WG360101-04
Report Date/Time: Monday, March 28, 2011 17:20:20
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092604SD WG360101-05

Sample Date/Time: Monday, March 28, 2011 17:24:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 45
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18266.760	-0.03				ug/L
|	Be	9	1594.794	0.01	4.5049	0.376	8.355	ug/L
|	Al	27	29630538.495	153.59	4776.4206	216.733	4.538	ug/L
⌊>	Sc	45	192995.456	192995.46				ug/L
⌈	Ti	49	23981.144	0.07	45.4900	1.717	3.775	ug/L
|	V	51	242608.393	0.66	28.1279	1.257	4.469	ug/L
|	Cr	52	108579.813	0.27	13.5401	0.667	4.924	ug/L
|	Cr	53	12115.219	0.03	13.4071	0.559	4.171	ug/L
|	Mn	55	611390.950	1.68	53.4153	2.696	5.048	ug/L
|	Co	59	54470.590	0.15	6.2202	0.198	3.188	ug/L
|	Ni	60	14525.705	0.04	7.9069	0.407	5.143	ug/L
|	Cu	65	18982.210	0.05	10.0165	0.428	4.273	ug/L
|	Zn	66	20890.040	0.06	15.5885	0.860	5.516	ug/L
|>	Ge	72	362610.139	362610.14				ug/L
|	As	75	4574.916	0.01	4.1982	0.224	5.326	ug/L
|	Se	77	258.003	0.00	2.1675	0.313	14.428	ug/L
|	Se	82	216.583	0.00	2.2508	0.171	7.605	ug/L
⌊	Rb	85	46901.632	0.13				mg/L
	Y	89	258665.106	47007.54				ug/L
	Rh	103	22.667	10.00				ug/L
⌈	Mo	98	183.697	0.00	0.0615	0.005	7.320	ug/L
|	Ag	107	31202.650	0.09	4.9581	0.288	5.800	ug/L
|	Cd	114	7562.567	0.02	5.7169	0.304	5.323	ug/L
|>	In	115	341747.879	341747.88				ug/L
|	Sn	118	512.413	0.00	-0.0468	0.007	14.389	ug/L
⌊	Sb	123	3329.034	0.01	0.7813	0.050	6.440	ug/L
⌈	Ba	135	28444.741	0.07	17.6275	0.873	4.951	ug/L
|	Ce	140	153184.335	0.36				ug/L
⌊>	Tb	159	425543.134	425543.13				ug/L
⌈	Ho	165	1106.839	0.00				ug/L
|	Tl	203	37924.259	0.10	5.3054	0.330	6.226	ug/L
|	Tl	205	94598.641	0.26	5.3972	0.317	5.868	ug/L
|	Pb	206	52996.045	0.14	9.1169	0.482	5.283	ug/L
|	Pb	207	46255.969	0.13	8.4511	0.463	5.478	ug/L
|	Pb	208	213812.109	0.58	8.8193	0.503	5.699	ug/L
|	U	238	203798.422	0.56	5.8320	0.367	6.290	ug/L
⌊>	Bi	209	364918.249	364918.25				ug/L

Sample ID: L1103092604SD WG360101-05
Report Date/Time: Monday, March 28, 2011 17:27:09
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	70121.991	0.27	-0.0014	0.000	31.040	mg/L
|	Mg	24	1032519.478	5.35	0.2738	0.014	5.162	mg/L
|	K	39	1830081.294	7.11	0.1931	0.012	6.167	mg/L
|	Ca	43	5528.749	0.03	0.2735	0.005	1.978	mg/L
|	Fe	54	7420067.924	38.25	12.2875	0.832	6.770	mg/L
|	Fe	57	3141560.680	16.25	12.2662	0.710	5.790	mg/L
⌊>	Sc-1	45	192995.456	192995.46				mg/L
	Cl	35	12654.670	-1206.93				mg/L
	Kr	83	87.001	29.00				mg/L
	Br	81	7682.954	2793.09				mg/L
	P	31	58462.714	53045.91				mg/L
	S	34	123455.085	-23959.79				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		117.775			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		113.658			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.890			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.812			
⌈	Na	23					

Sample ID: L1103092604SD WG360101-05
Report Date/Time: Monday, March 28, 2011 17:27:09
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092604SD WG360101-05
Report Date/Time: Monday, March 28, 2011 17:27:09
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092605

Sample Date/Time: Monday, March 28, 2011 17:31:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 46
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18350.165	-0.03				ug/L
|	Be	9	69.334	0.00	0.0799	0.029	36.501	ug/L
|	Al	27	39377321.381	207.85	6463.9459	408.808	6.324	ug/L
⌊>	Sc	45	189667.035	189667.04				ug/L
⌈	Ti	49	42802.391	0.12	82.1375	2.056	2.503	ug/L
|	V	51	258382.624	0.71	30.3066	0.935	3.086	ug/L
|	Cr	52	95396.018	0.24	11.8831	0.321	2.702	ug/L
|	Cr	53	10399.793	0.03	11.5709	0.689	5.959	ug/L
|	Mn	55	902715.230	2.52	79.7551	2.522	3.163	ug/L
|	Co	59	14754.701	0.04	1.6947	0.066	3.899	ug/L
|	Ni	60	5834.760	0.02	3.1662	0.056	1.764	ug/L
|	Cu	65	13183.153	0.04	6.9965	0.200	2.854	ug/L
|	Zn	66	39571.239	0.11	31.8008	0.952	2.993	ug/L
|>	Ge	72	358727.707	358727.71				ug/L
|	As	75	1189.367	0.00	1.2794	0.047	3.708	ug/L
|	Se	77	76.000	0.00	0.1361	0.064	47.122	ug/L
|	Se	82	20.012	0.00	0.4811	0.166	34.445	ug/L
⌊	Rb	85	63251.856	0.18				mg/L
	Y	89	263424.348	51766.78				ug/L
	Rh	103	24.334	11.67				ug/L
⌈	Mo	98	302.551	0.00	0.1030	0.012	12.090	ug/L
|	Ag	107	121.002	0.00	0.0192	0.002	12.698	ug/L
|	Cd	114	206.769	0.00	0.1782	0.016	9.174	ug/L
|>	In	115	334462.485	334462.48				ug/L
|	Sn	118	194.135	0.00	-0.1142	0.003	2.296	ug/L
⌊	Sb	123	108.360	0.00	0.0203	0.001	5.907	ug/L
⌈	Ba	135	24221.219	0.06	14.9907	0.360	2.404	ug/L
|	Ce	140	413771.334	0.97				ug/L
⌊>	Tb	159	425889.536	425889.54				ug/L
⌈	Ho	165	1533.605	0.00				ug/L
|	Tl	203	506.685	0.00	0.0667	0.007	9.932	ug/L
|	Tl	205	1180.188	0.00	0.0627	0.009	13.704	ug/L
|	Pb	206	27583.282	0.08	4.7461	0.164	3.464	ug/L
|	Pb	207	23311.047	0.06	4.2542	0.132	3.092	ug/L
|	Pb	208	110128.571	0.30	4.5417	0.149	3.280	ug/L
|	U	238	21306.900	0.06	0.6058	0.023	3.719	ug/L
⌊>	Bi	209	362485.328	362485.33				ug/L

Sample ID: L1103092605
Report Date/Time: Monday, March 28, 2011 17:33:57
Page 1

Approved: March 29, 2011

⌈	Na	23	276153.486	1.36	0.0388	0.001	3.510	mg/L
|	Mg	24	883684.104	4.66	0.2369	0.010	4.278	mg/L
|	K	39	1965891.344	8.00	0.2184	0.013	5.733	mg/L
|	Ca	43	1850.357	0.01	0.0582	0.011	18.799	mg/L
|	Fe	54	9342917.963	49.08	15.7669	0.887	5.626	mg/L
|	Fe	57	4049917.157	21.33	16.1047	0.628	3.898	mg/L
⌊>	Sc-1	45	189667.035	189667.04				mg/L
	Cl	35	12921.680	-939.92				mg/L
	Kr	83	75.334	17.33				mg/L
	Br	81	7181.912	2292.05				mg/L
	P	31	53807.093	48390.29				mg/L
	S	34	122768.240	-24646.63				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		116.514			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.235			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.980			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.106			
⌈	Na	23					

Sample ID: L1103092605
Report Date/Time: Monday, March 28, 2011 17:33:57
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092605
Report Date/Time: Monday, March 28, 2011 17:33:57
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092606

Sample Date/Time: Monday, March 28, 2011 17:38:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 47
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18333.538	-0.03				ug/L
|	Be	9	84.667	0.00	0.1286	0.048	37.011	ug/L
|	Al	27	39687880.639	212.18	6598.5986	108.277	1.641	ug/L
⌊>	Sc	45	187050.656	187050.66				ug/L
⌈	Ti	49	81146.033	0.23	156.0418	2.754	1.765	ug/L
|	V	51	232183.366	0.64	27.2462	0.874	3.207	ug/L
|	Cr	52	59430.343	0.14	6.9399	0.137	1.972	ug/L
|	Cr	53	6486.092	0.02	7.0668	0.596	8.441	ug/L
|	Mn	55	864364.651	2.41	76.4804	0.940	1.229	ug/L
|	Co	59	18455.200	0.05	2.1259	0.041	1.929	ug/L
|	Ni	60	6293.710	0.02	3.4268	0.101	2.954	ug/L
|	Cu	65	11886.179	0.03	6.3054	0.008	0.132	ug/L
|	Zn	66	18447.856	0.05	13.7104	0.338	2.467	ug/L
| >	Ge	72	358185.777	358185.78				ug/L
|	As	75	795.284	0.00	0.9355	0.019	2.037	ug/L
|	Se	77	74.667	0.00	0.1218	0.128	105.163	ug/L
|	Se	82	15.670	0.00	0.4413	0.114	25.791	ug/L
⌊	Rb	85	66855.792	0.19				mg/L
	Y	89	258942.265	47284.70				ug/L
	Rh	103	19.000	6.33				ug/L
⌈	Mo	98	258.362	0.00	0.0879	0.006	6.392	ug/L
|	Ag	107	109.668	0.00	0.0173	0.004	22.580	ug/L
|	Cd	114	2.277	0.00	0.0207	0.005	26.163	ug/L
| >	In	115	335073.662	335073.66				ug/L
|	Sn	118	207.735	0.00	-0.1113	0.001	1.105	ug/L
⌊	Sb	123	46.359	-0.00	0.0053	0.001	17.192	ug/L
⌈	Ba	135	23573.326	0.06	14.7812	0.364	2.462	ug/L
|	Ce	140	317719.849	0.76				ug/L
⌊>	Tb	159	420424.684	420424.68				ug/L
⌈	Ho	165	1650.301	0.00				ug/L
|	Tl	203	497.017	0.00	0.0655	0.003	4.205	ug/L
|	Tl	205	1170.186	0.00	0.0623	0.005	7.645	ug/L
|	Pb	206	30899.309	0.08	5.3383	0.031	0.581	ug/L
|	Pb	207	26276.410	0.07	4.8165	0.043	0.889	ug/L
|	Pb	208	124058.313	0.34	5.1378	0.021	0.407	ug/L
|	U	238	17770.955	0.05	0.5052	0.005	0.953	ug/L
⌊>	Bi	209	361458.932	361458.93				ug/L

Sample ID: L1103092606
Report Date/Time: Monday, March 28, 2011 17:40:43
Page 1

Approved: March 29, 2011

⌈	Na	23	43227.546	0.14	-0.0063	0.000	2.914	mg/L
|	Mg	24	1477190.024	7.90	0.4102	0.008	2.015	mg/L
|	K	39	3036880.572	13.87	0.3852	0.008	1.952	mg/L
|	Ca	43	586.743	0.00	-0.0176	0.002	11.510	mg/L
|	Fe	54	8094986.948	43.07	13.8377	0.357	2.580	mg/L
|	Fe	57	3546800.633	18.93	14.2907	0.243	1.702	mg/L
⌊>	Sc-1	45	187050.656	187050.66				mg/L
	Cl	35	12784.835	-1076.77				mg/L
	Kr	83	76.334	18.33				mg/L
	Br	81	6792.974	1903.11				mg/L
	P	31	42068.326	36651.53				mg/L
	S	34	121044.964	-26369.91				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		116.338			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.438			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.569			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.809			
⌈	Na	23					

Sample ID: L1103092606
Report Date/Time: Monday, March 28, 2011 17:40:43
Page 2

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 28, 2011 17:45:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18016.243	-0.01				ug/L
|	Be	9	14369.651	0.09	50.5089	1.528	3.025	ug/L
|	Al	27	272703.874	1.68	52.4067	0.586	1.117	ug/L
⌊>	Sc	45	158835.158	158835.16				ug/L
⌈	Ti	49	52971.925	0.15	102.8551	1.805	1.755	ug/L
|	V	51	436261.510	1.22	51.9926	0.515	0.991	ug/L
|	Cr	52	387781.021	1.07	52.7992	0.496	0.940	ug/L
|	Cr	53	46137.494	0.13	53.4869	1.143	2.138	ug/L
|	Mn	55	589478.019	1.66	52.6634	0.046	0.087	ug/L
|	Co	59	461465.285	1.30	53.9772	0.247	0.457	ug/L
|	Ni	60	98596.673	0.28	55.3244	0.143	0.259	ug/L
|	Cu	65	99741.332	0.28	54.3492	0.780	1.435	ug/L
|	Zn	66	60784.816	0.17	50.5968	0.736	1.455	ug/L
| >	Ge	72	354598.029	354598.03				ug/L
|	As	75	60012.949	0.17	53.3535	0.521	0.976	ug/L
|	Se	77	4850.509	0.01	54.8998	0.304	0.554	ug/L
|	Se	82	5876.242	0.02	54.4836	0.993	1.823	ug/L
⌊	Rb	85	2344.965	0.01				mg/L
	Y	89	244094.026	32436.46				ug/L
	Rh	103	37.000	24.33				ug/L
⌈	Mo	98	323103.158	0.94	106.5473	1.113	1.045	ug/L
|	Ag	107	337621.034	0.98	53.2760	0.865	1.625	ug/L
|	Cd	114	67849.010	0.20	50.7849	0.783	1.542	ug/L
| >	In	115	344013.375	344013.38				ug/L
|	Sn	118	244326.442	0.71	51.9202	0.838	1.615	ug/L
⌊	Sb	123	215683.063	0.63	50.6396	0.773	1.526	ug/L
⌈	Ba	135	88357.249	0.20	53.4876	0.639	1.194	ug/L
|	Ce	140	76.675	0.00				ug/L
⌊>	Tb	159	436165.355	436165.35				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	372874.577	1.03	52.7193	0.834	1.582	ug/L
|	Tl	205	930785.658	2.58	53.6792	1.266	2.359	ug/L
|	Pb	206	300942.942	0.83	52.5754	0.690	1.311	ug/L
|	Pb	207	283456.429	0.78	52.6339	0.994	1.889	ug/L
|	Pb	208	1260761.460	3.49	52.8177	0.632	1.197	ug/L
|	U	238	1980124.013	5.48	57.2940	0.294	0.513	ug/L
⌊>	Bi	209	361157.324	361157.32				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 17:47:30
Page 1

Approved: March 29, 2011

Na	23	21959266.462	138.19	5.0667	0.079	1.556	mg/L
Mg	24	15161436.211	95.48	5.1010	0.124	2.429	mg/L
K	39	30842225.842	191.89	5.4480	0.181	3.330	mg/L
Ca	43	76166.572	0.48	5.4220	0.154	2.848	mg/L
Fe	54	2687098.875	16.70	5.3659	0.169	3.149	mg/L
Fe	57	1189808.262	7.45	5.6273	0.136	2.416	mg/L
> Sc-1	45	158835.158	158835.16				mg/L
Cl	35	11554.008	-2307.60				mg/L
Kr	83	67.001	9.00				mg/L
Br	81	6838.338	1948.48				mg/L
P	31	7050.492	1633.69				mg/L
S	34	141905.211	-5509.66				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	103.985				
Cr	52	105.598				
Cr	53					
Mn	55	105.327				
Co	59	107.954				
Ni	60	110.649				
Cu	65	108.698				
Zn	66	101.194				
> Ge	72		115.173			
As	75	106.707				
Se	77					
Se	82	108.967				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	106.552				
Cd	114	101.570				
> In	115		114.412			
Sn	118					
Sb	123	101.279				
Ba	135	106.975				
Ce	140					
> Tb	159		112.634			
Ho	165					
Tl	203	105.439				
Tl	205					
Pb	206					
Pb	207					
Pb	208	105.635				
U	238	114.588				
> Bi	209		104.721			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 17:47:30

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Ni	60	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 17:47:30
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 28, 2011 17:52:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17264.896	-0.02				ug/L
|	Be	9	18.667	0.00	-0.0600	0.027	45.031	ug/L
|	Al	27	6435.415	0.00	0.2544	0.128	50.418	ug/L
⌊>	Sc	45	162509.999	162510.00				ug/L
⌈	Ti	49	36.670	-0.00	-0.0142	0.022	153.129	ug/L
|	V	51	2727.147	-0.00	-0.0027	0.007	264.170	ug/L
|	Cr	52	9019.156	-0.00	-0.0345	0.017	48.793	ug/L
|	Cr	53	230.026	-0.00	-0.1790	0.057	32.057	ug/L
|	Mn	55	586.023	0.00	-0.0145	0.002	13.684	ug/L
|	Co	59	59.667	-0.00	-0.0050	0.001	18.226	ug/L
|	Ni	60	57.334	-0.00	-0.0430	0.007	16.909	ug/L
|	Cu	65	181.670	0.00	-0.0236	0.009	39.035	ug/L
|	Zn	66	653.028	0.00	-1.5796	0.007	0.430	ug/L
|>	Ge	72	362852.716	362852.72				ug/L
|	As	75	-130.433	0.00	0.1257	0.018	14.710	ug/L
|	Se	77	68.000	0.00	0.0364	0.058	158.652	ug/L
|	Se	82	15.418	0.00	0.4367	0.126	28.797	ug/L
⌊	Rb	85	42.334	0.00				mg/L
	Y	89	253265.608	41608.04				ug/L
	Rh	103	19.000	6.33				ug/L
⌈	Mo	98	126.997	0.00	0.0419	0.009	20.639	ug/L
|	Ag	107	31.667	-0.00	0.0045	0.000	10.969	ug/L
|	Cd	114	-2.766	-0.00	0.0169	0.003	15.308	ug/L
|>	In	115	348205.012	348205.01				ug/L
|	Sn	118	240.670	0.00	-0.1061	0.002	1.537	ug/L
⌊	Sb	123	63.031	0.00	0.0087	0.002	25.177	ug/L
⌈	Ba	135	26.000	-0.00	-0.0198	0.002	11.730	ug/L
|	Ce	140	43.338	-0.00				ug/L
⌊>	Tb	159	443618.087	443618.09				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	46.334	0.00	0.0017	0.002	95.639	ug/L
|	Tl	205	80.008	0.00	-0.0005	0.001	184.949	ug/L
|	Pb	206	292.674	-0.00	-0.0106	0.002	22.585	ug/L
|	Pb	207	273.006	-0.00	-0.0140	0.004	28.355	ug/L
|	Pb	208	1251.044	-0.00	-0.0092	0.002	17.285	ug/L
|	U	238	74.001	0.00	-0.0065	0.000	1.626	ug/L
⌊>	Bi	209	365253.410	365253.41				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 17:54:44
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	16976.097	0.01	-0.0109	0.000	0.731	mg/L
|	Mg	24	446.722	-0.00	-0.0127	0.000	0.275	mg/L
|	K	39	363121.410	-0.14	-0.0131	0.000	2.182	mg/L
|	Ca	43	343.374	-0.00	-0.0293	0.005	16.423	mg/L
|	Fe	54	39568.564	0.02	0.0071	0.003	39.308	mg/L
|	Fe	57	7233.346	0.01	0.0034	0.003	78.521	mg/L
⌊>	Sc-1	45	162509.999	162510.00				mg/L
	Cl	35	10534.214	-3327.39				mg/L
	Kr	83	67.001	9.00				mg/L
	Br	81	7478.796	2588.93				mg/L
	P	31	6603.522	1186.72				mg/L
	S	34	126867.764	-20547.11				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		117.854			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		115.806			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		114.558			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.909			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 17:54:44

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 7	Se	82	CCB IS OUT OF LIMITS (+/-1/2RL)

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 17:54:44
Page 3

Approved: March 29, 2011

Instrument Tuning Report

File Name: 06302008.tun
File Path: C:\Elandata\Tuning\06302008.tun

Sample Information

Sample Date/Time: Tuesday, March 29, 2011 08:22:20

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	621	2060	0.762	
Li	7.016	7.029	1588	2060	0.722	
Co	58.933	58.929	14276	1990	0.677	
Ce	139.905	139.979	33992	2025	0.684	
Tl	204.975	204.976	49689	2255	0.708	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.665
3.000	0.750
4.000	28.770
5.000	21.840
6.000	1.916
7.000	1.975
8.000	24.207
9.000	2.952
58.000	1.545
59.000	0.815
60.000	10.047
139.000	8.242
140.000	0.749
141.000	23.541
204.000	2.682
205.000	1.541
206.000	1.366

Report Date/Time: Tuesday, March 29, 2011 08:23:32
Page 1

Approved: March 30, 2011
Erin D. Long

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Tuesday, March 29, 2011 08:27:04
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\elandata\Dataset\032811\Sample.109
Tuning File: C:\Elandata\Tuning\06302008.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	49661.7	49661.711	229.687	0.5
	Rh	102.9	247696.8	247696.819	1256.509	0.5
	In	114.9	517301.4	517301.353	2691.389	0.5
	Pb	208.0	197300.9	197300.874	386.898	0.2
	U	238.1	21.0	21.000	3.142	15.0
⌈>	Ba	137.9	277017.8	277017.787	1325.308	0.5
⌊	Ba++	69.0	4287.4	0.015	0.000	1.4
⌈>	Ce	139.9	280280.5	280280.520	1949.157	0.7
⌊	CeO	155.9	5821.7	0.021	0.000	0.2
	Bkgd	220.0	19.6	19.600	3.029	15.5
	Ar2	79.9	5354853.8	5354853.761	16659.301	0.3

Current Optimization File Data

Current Value	Description
0.98	Nebulizer Gas Flow
6.40	Lens Voltage
1500.00	ICP RF Power
-1862.50	Analog Stage Voltage
1000.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	5.3	3999.5
Co	59	33	6.0	120809.0
Rh	103	33	6.8	174421.7
Pb	208	33	7.8	173459.1

Sample ID: Sample
Report Date/Time: Tuesday, March 29, 2011 08:29:12
Page 1

Approved: March 30, 2011
Erin D. Long

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, March 29, 2011 08:47:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15428.584					ug/L
|	Be	9	15.333					ug/L
|	Al	27	5935.106					ug/L
|>	Sc	45	136880.546					ug/L
⌈	Ti	49	53.339					ug/L
|	V	51	3096.272					ug/L
|	Cr	52	10239.342					ug/L
|	Cr	53	350.041					ug/L
|	Mn	55	526.019					ug/L
|	Co	59	125.669					ug/L
|	Ni	60	103.335					ug/L
|	Cu	65	163.670					ug/L
|	Zn	66	512.685					ug/L
|>	Ge	72	314884.833					ug/L
|	As	75	-156.915					ug/L
|	Se	77	68.000					ug/L
|	Se	82	2.374					ug/L
⌊	Rb	85	39.334					mg/L
	Y	89	216036.948					ug/L
	Rh	103	24.667					ug/L
⌈	Mo	98	22.096					ug/L
|	Ag	107	31.334					ug/L
|	Cd	114	-4.640					ug/L
|>	In	115	300930.476					ug/L
|	Sn	118	145.334					ug/L
⌊	Sb	123	31.445					ug/L
⌈	Ba	135	66.668					ug/L
|	Ce	140	33.337					ug/L
⌊>	Tb	159	379402.143					ug/L
⌈	Ho	165	23.336					ug/L
|	Tl	203	29.334					ug/L
|	Tl	205	26.669					ug/L
|	Pb	206	277.340					ug/L
|	Pb	207	265.673					ug/L
|	Pb	208	1131.036					ug/L
|	U	238	20.334					ug/L
⌊>	Bi	209	316425.939					ug/L

Sample ID: Blank
Report Date/Time: Tuesday, March 29, 2011 08:49:18
Page 1

Approved: March 30, 2011

⌈	Na	23	189042.797	mg/L
|	Mg	24	313.370	mg/L
|	K	39	361107.468	mg/L
|	Ca	43	350.041	mg/L
|	Fe	54	31638.407	mg/L
|	Fe	57	6936.442	mg/L
⌊>	Sc-1	45	136880.546	mg/L
	Cl	35	9850.184	mg/L
	Kr	83	72.001	mg/L
	Br	81	6025.154	mg/L
	P	31	5733.005	mg/L
	S	34	117919.220	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Blank
Report Date/Time: Tuesday, March 29, 2011 08:49:18
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Tuesday, March 29, 2011 08:49:18
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, March 29, 2011 08:47:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15428.584					ug/L
|	Be	9	15.333					ug/L
|	Al	27	5935.106					ug/L
|>	Sc	45	136880.546					ug/L
⌈	Ti	49	53.339					ug/L
|	V	51	3096.272					ug/L
|	Cr	52	10239.342					ug/L
|	Cr	53	350.041					ug/L
|	Mn	55	526.019					ug/L
|	Co	59	125.669					ug/L
|	Ni	60	103.335					ug/L
|	Cu	65	163.670					ug/L
|	Zn	66	512.685					ug/L
|>	Ge	72	314884.833					ug/L
|	As	75	-156.915					ug/L
|	Se	77	68.000					ug/L
|	Se	82	2.374					ug/L
⌊	Rb	85	39.334					mg/L
	Y	89	216036.948					ug/L
	Rh	103	24.667					ug/L
⌈	Mo	98	22.096					ug/L
|	Ag	107	31.334					ug/L
|	Cd	114	-4.640					ug/L
|>	In	115	300930.476					ug/L
|	Sn	118	145.334					ug/L
⌊	Sb	123	31.445					ug/L
⌈	Ba	135	66.668					ug/L
|	Ce	140	33.337					ug/L
⌊>	Tb	159	379402.143					ug/L
⌈	Ho	165	23.336					ug/L
|	Tl	203	29.334					ug/L
|	Tl	205	26.669					ug/L
|	Pb	206	277.340					ug/L
|	Pb	207	265.673					ug/L
|	Pb	208	1131.036					ug/L
|	U	238	20.334					ug/L
⌊>	Bi	209	316425.939					ug/L

Sample ID: Blank
Report Date/Time: Tuesday, March 29, 2011 10:45:26
Page 1

Approved: March 30, 2011

⌈	Na	23	189042.797	mg/L
|	Mg	24	313.370	mg/L
|	K	39	361107.468	mg/L
|	Ca	43	350.041	mg/L
|	Fe	54	31638.407	mg/L
|	Fe	57	6936.442	mg/L
⌊>	Sc-1	45	136880.546	mg/L
	Cl	35	9850.184	mg/L
	Kr	83	72.001	mg/L
	Br	81	6025.154	mg/L
	P	31	5733.005	mg/L
	S	34	117919.220	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Blank
Report Date/Time: Tuesday, March 29, 2011 10:45:26
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Tuesday, March 29, 2011 10:45:26
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, March 29, 2011 08:53:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17097.946	0.01				ug/L
|	Be	9	12.667	-0.00				ug/L
|	Al	27	6685.573	0.00				ug/L
⌊>	Sc	45	140514.179	140514.18				ug/L
⌈	Ti	49	36.670	-0.00				ug/L
|	V	51	2992.530	-0.00				ug/L
|	Cr	52	9946.044	-0.00				ug/L
|	Cr	53	296.701	-0.00				ug/L
|	Mn	55	485.683	-0.00				ug/L
|	Co	59	107.668	-0.00				ug/L
|	Ni	60	91.335	-0.00				ug/L
|	Cu	65	153.336	-0.00				ug/L
|	Zn	66	638.360	0.00				ug/L
|>	Ge	72	322364.555	322364.55				ug/L
|	As	75	-154.254	0.00				ug/L
|	Se	77	61.334	-0.00				ug/L
|	Se	82	-0.710	-0.00				ug/L
⌊	Rb	85	35.334	-0.00				mg/L
	Y	89	221022.145	4985.20				ug/L
	Rh	103	23.000	-1.67				ug/L
⌈	Mo	98	19.173	-0.00				ug/L
|	Ag	107	28.667	-0.00				ug/L
|	Cd	114	-5.355	-0.00				ug/L
|>	In	115	304675.459	304675.46				ug/L
|	Sn	118	133.868	-0.00				ug/L
⌊	Sb	123	21.443	-0.00				ug/L
⌈	Ba	135	63.001	-0.00				ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	386062.262	386062.26				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	25.667	-0.00				ug/L
|	Tl	205	53.339	0.00				ug/L
|	Pb	206	269.340	-0.00				ug/L
|	Pb	207	240.672	-0.00				ug/L
|	Pb	208	1071.366	-0.00				ug/L
|	U	238	21.000	0.00				ug/L
⌊>	Bi	209	320135.621	320135.62				ug/L

Sample ID: Standard 1
Report Date/Time: Tuesday, March 29, 2011 08:56:02
Page 1

Approved: March 30, 2011

Na	23	186291.473	-0.05		mg/L
Mg	24	276.698	-0.00		mg/L
K	39	343746.049	-0.19		mg/L
Ca	43	303.368	-0.00		mg/L
Fe	54	33740.445	0.01		mg/L
Fe	57	6539.458	-0.00		mg/L
Sc-1	45	140514.179	140514.18		mg/L
Cl	35	9247.611	-602.57		mg/L
Kr	83	81.668	9.67		mg/L
Br	81	6142.554	117.40		mg/L
P	31	5787.677	54.67		mg/L
S	34	109480.032	-8439.19		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209					
Na	23					

Sample ID: Standard 1
Report Date/Time: Tuesday, March 29, 2011 08:56:02

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Tuesday, March 29, 2011 08:56:02
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, March 29, 2011 08:53:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

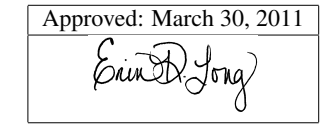
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17097.946	0.01				ug/L
|	Be	9	12.667	-0.00	0.0146	0.023	155.941	ug/L
|	Al	27	6685.573	0.00	-0.2699	0.114	42.086	ug/L
⌊>	Sc	45	140514.179	140514.18				ug/L
⌈	Ti	49	36.670	-0.00	-0.1223	0.030	24.250	ug/L
|	V	51	2992.530	-0.00	0.0189	0.004	22.263	ug/L
|	Cr	52	9946.044	-0.00	0.0419	0.011	25.711	ug/L
|	Cr	53	296.701	-0.00	0.0643	0.073	114.179	ug/L
|	Mn	55	485.683	-0.00	-0.1239	0.006	4.629	ug/L
|	Co	59	107.668	-0.00	0.0008	0.001	142.264	ug/L
|	Ni	60	91.335	-0.00	-0.0220	0.004	17.053	ug/L
|	Cu	65	153.336	-0.00	-0.0104	0.006	58.046	ug/L
|	Zn	66	638.360	0.00	-2.7746	0.025	0.906	ug/L
| >	Ge	72	322364.555	322364.55				ug/L
|	As	75	-154.254	0.00	0.0030	0.039	1333.192	ug/L
|	Se	77	61.334	-0.00	-0.2475	0.062	24.915	ug/L
|	Se	82	-0.710	-0.00	0.0845	0.149	175.964	ug/L
⌊	Rb	85	35.334	-0.00				mg/L
	Y	89	221022.145	4985.20				ug/L
	Rh	103	23.000	-1.67				ug/L
⌈	Mo	98	19.173	-0.00	-0.0024	0.002	102.940	ug/L
|	Ag	107	28.667	-0.00	0.0012	0.001	52.021	ug/L
|	Cd	114	-5.355	-0.00	-0.0089	0.005	61.301	ug/L
| >	In	115	304675.459	304675.46				ug/L
|	Sn	118	133.868	-0.00	-0.0792	0.002	2.261	ug/L
⌊	Sb	123	21.443	-0.00	0.0153	0.001	5.519	ug/L
⌈	Ba	135	63.001	-0.00	0.0150	0.003	17.473	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	386062.262	386062.26				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	25.667	-0.00	0.0113	0.001	10.489	ug/L
|	Tl	205	53.339	0.00	0.0038	0.002	40.118	ug/L
|	Pb	206	269.340	-0.00	0.0034	0.005	134.972	ug/L
|	Pb	207	240.672	-0.00	0.0053	0.002	43.828	ug/L
|	Pb	208	1071.366	-0.00	0.0020	0.002	97.710	ug/L
|	U	238	21.000	0.00	-0.0019	0.000	5.661	ug/L
⌊>	Bi	209	320135.621	320135.62				ug/L

Sample ID: Standard 1
Report Date/Time: Tuesday, March 29, 2011 10:45:27
Page 1

Approved: March 30, 2011



⌈	Na	23	186291.473	-0.05	0.0103	0.001	12.390	mg/L
|	Mg	24	276.698	-0.00	-0.0046	0.000	0.123	mg/L
|	K	39	343746.049	-0.19	-0.0108	0.003	24.073	mg/L
|	Ca	43	303.368	-0.00	-0.0086	0.003	33.089	mg/L
|	Fe	54	33740.445	0.01	-0.0010	0.003	307.292	mg/L
|	Fe	57	6539.458	-0.00	-0.0056	0.001	19.311	mg/L
⌊>	Sc-1	45	140514.179	140514.18				mg/L
	Cl	35	9247.611	-602.57				mg/L
	Kr	83	81.668	9.67				mg/L
	Br	81	6142.554	117.40				mg/L
	P	31	5787.677	54.67				mg/L
	S	34	109480.032	-8439.19				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 1
Report Date/Time: Tuesday, March 29, 2011 10:45:27
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Tuesday, March 29, 2011 10:45:27
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, March 29, 2011 09:00:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16263.263	0.00				ug/L
|	Be	9	111.334	0.00				ug/L
|	Al	27	9904.920	0.03				ug/L
|>	Sc	45	141156.608	141156.61				ug/L
⌈	Ti	49	503.396	0.00				ug/L
|	V	51	6198.546	0.01				ug/L
|	Cr	52	12592.716	0.01				ug/L
|	Cr	53	580.075	0.00				ug/L
|	Mn	55	6169.631	0.02				ug/L
|	Co	59	3471.637	0.01				ug/L
|	Ni	60	841.711	0.00				ug/L
|	Cu	65	896.049	0.00				ug/L
|	Zn	66	4114.554	0.01				ug/L
|>	Ge	72	326018.316	326018.32				ug/L
|	As	75	293.991	0.00				ug/L
|	Se	77	118.667	0.00				ug/L
|	Se	82	33.259	0.00				ug/L
⌊	Rb	85	66.334	0.00				mg/L
	Y	89	222810.827	6773.88				ug/L
	Rh	103	26.000	1.33				ug/L
⌈	Mo	98	2480.173	0.01				ug/L
|	Ag	107	2498.004	0.01				ug/L
|	Cd	114	524.733	0.00				ug/L
|>	In	115	307544.077	307544.08				ug/L
|	Sn	118	2327.471	0.01				ug/L
⌊	Sb	123	1648.927	0.01				ug/L
⌈	Ba	135	683.030	0.00				ug/L
|	Ce	140	46.671	0.00				ug/L
|>	Tb	159	388506.135	388506.13				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	2714.729	0.01				ug/L
|	Tl	205	6759.626	0.02				ug/L
|	Pb	206	2473.997	0.01				ug/L
|	Pb	207	2303.622	0.01				ug/L
|	Pb	208	10342.223	0.03				ug/L
|	U	238	13990.921	0.04				ug/L
|>	Bi	209	325028.207	325028.21				ug/L

Sample ID: Standard 2
Report Date/Time: Tuesday, March 29, 2011 09:02:47
Page 1

Approved: March 30, 2011

⌈	Na	23	307926.716	0.80		mg/L
|	Mg	24	125100.262	0.88		mg/L
|	K	39	621214.110	1.76		mg/L
|	Ca	43	953.474	0.00		mg/L
|	Fe	54	53434.283	0.15		mg/L
|	Fe	57	15737.283	0.06		mg/L
⌊>	Sc-1	45	141156.608	141156.61		mg/L
	Cl	35	9788.789	-61.39		mg/L
	Kr	83	85.335	13.33		mg/L
	Br	81	5952.438	-72.72		mg/L
	P	31	5410.131	-322.87		mg/L
	S	34	119394.042	1474.82		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 2
Report Date/Time: Tuesday, March 29, 2011 09:02:47
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Tuesday, March 29, 2011 09:02:47
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, March 29, 2011 09:00:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16263.263	0.00				ug/L
|	Be	9	111.334	0.00	0.4000	0.028	6.937	ug/L
|	Al	27	9904.920	0.03	0.4000	0.094	23.408	ug/L
⌊>	Sc	45	141156.608	141156.61				ug/L
⌈	Ti	49	503.396	0.00	0.8000	0.107	13.389	ug/L
|	V	51	6198.546	0.01	0.4000	0.008	2.003	ug/L
|	Cr	52	12592.716	0.01	0.4000	0.021	5.270	ug/L
|	Cr	53	580.075	0.00	0.4000	0.121	30.235	ug/L
|	Mn	55	6169.631	0.02	0.4000	0.012	3.072	ug/L
|	Co	59	3471.637	0.01	0.4000	0.006	1.496	ug/L
|	Ni	60	841.711	0.00	0.4000	0.017	4.237	ug/L
|	Cu	65	896.049	0.00	0.4000	0.014	3.423	ug/L
|	Zn	66	4114.554	0.01	0.4000	0.065	16.325	ug/L
| >	Ge	72	326018.316	326018.32				ug/L
|	As	75	293.991	0.00	0.4000	0.093	23.243	ug/L
|	Se	77	118.667	0.00	0.4000	0.023	5.736	ug/L
|	Se	82	33.259	0.00	0.4000	0.195	48.648	ug/L
⌊	Rb	85	66.334	0.00				mg/L
	Y	89	222810.827	6773.88				ug/L
	Rh	103	26.000	1.33				ug/L
⌈	Mo	98	2480.173	0.01	0.8000	0.009	1.164	ug/L
|	Ag	107	2498.004	0.01	0.4000	0.013	3.289	ug/L
|	Cd	114	524.733	0.00	0.4000	0.007	1.651	ug/L
| >	In	115	307544.077	307544.08				ug/L
|	Sn	118	2327.471	0.01	0.4000	0.011	2.814	ug/L
⌊	Sb	123	1648.927	0.01	0.4000	0.009	2.314	ug/L
⌈	Ba	135	683.030	0.00	0.4000	0.020	5.076	ug/L
|	Ce	140	46.671	0.00				ug/L
⌊>	Tb	159	388506.135	388506.13				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	2714.729	0.01	0.4000	0.008	2.015	ug/L
|	Tl	205	6759.626	0.02	0.4000	0.008	2.020	ug/L
|	Pb	206	2473.997	0.01	0.4000	0.011	2.688	ug/L
|	Pb	207	2303.622	0.01	0.4000	0.015	3.871	ug/L
|	Pb	208	10342.223	0.03	0.4000	0.007	1.873	ug/L
|	U	238	13990.921	0.04	0.4000	0.006	1.601	ug/L
⌊>	Bi	209	325028.207	325028.21				ug/L

Sample ID: Standard 2
Report Date/Time: Tuesday, March 29, 2011 10:45:29
Page 1

Approved: March 30, 2011

⌈	Na	23	307926.716	0.80	0.0400	0.003	8.193	mg/L
|	Mg	24	125100.262	0.88	0.0400	0.002	4.711	mg/L
|	K	39	621214.110	1.76	0.0400	0.002	5.034	mg/L
|	Ca	43	953.474	0.00	0.0400	0.004	10.834	mg/L
|	Fe	54	53434.283	0.15	0.0400	0.007	16.732	mg/L
|	Fe	57	15737.283	0.06	0.0400	0.004	9.995	mg/L
⌊>	Sc-1	45	141156.608	141156.61				mg/L
	Cl	35	9788.789	-61.39				mg/L
	Kr	83	85.335	13.33				mg/L
	Br	81	5952.438	-72.72				mg/L
	P	31	5410.131	-322.87				mg/L
	S	34	119394.042	1474.82				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 2
Report Date/Time: Tuesday, March 29, 2011 10:45:29
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\└>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Tuesday, March 29, 2011 10:45:29

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Tuesday, March 29, 2011 09:07:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15295.128	-0.01				ug/L
|	Be	9	13308.851	0.09	50.0000	0.963	1.927	ug/L
|	Al	27	258841.226	1.73	50.0000	1.145	2.290	ug/L
|>	Sc	45	145839.275	145839.28				ug/L
⌈	Ti	49	50207.473	0.16	100.0000	4.612	4.612	ug/L
|	V	51	414326.423	1.28	50.0000	1.616	3.232	ug/L
|	Cr	52	362029.940	1.10	50.0000	1.508	3.017	ug/L
|	Cr	53	41828.141	0.13	50.0000	0.847	1.694	ug/L
|	Mn	55	541690.364	1.69	50.0000	1.645	3.289	ug/L
|	Co	59	422315.993	1.32	50.0000	1.174	2.349	ug/L
|	Ni	60	89310.272	0.28	50.0000	1.128	2.257	ug/L
|	Cu	65	91739.137	0.29	50.0000	1.311	2.622	ug/L
|	Zn	66	58331.555	0.18	50.0000	1.426	2.852	ug/L
|>	Ge	72	320970.318	320970.32				ug/L
|	As	75	55605.207	0.17	50.0000	1.606	3.212	ug/L
|	Se	77	4409.639	0.01	50.0000	1.682	3.363	ug/L
|	Se	82	5278.481	0.02	50.0000	1.613	3.227	ug/L
⌊	Rb	85	2201.264	0.01				mg/L
	Y	89	218578.041	2541.09				ug/L
	Rh	103	48.001	23.33				ug/L
⌈	Mo	98	310201.502	1.01	100.0000	1.436	1.436	ug/L
|	Ag	107	313725.606	1.02	50.0000	1.186	2.371	ug/L
|	Cd	114	65244.377	0.21	50.0000	0.883	1.766	ug/L
|>	In	115	307868.341	307868.34				ug/L
|	Sn	118	230357.305	0.75	50.0000	0.625	1.251	ug/L
⌊	Sb	123	212106.498	0.69	50.0000	0.349	0.699	ug/L
⌈	Ba	135	81662.234	0.21	50.0000	0.772	1.545	ug/L
|	Ce	140	83.342	0.00				ug/L
⌊>	Tb	159	388090.643	388090.64				ug/L
⌈	Ho	165	50.005	0.00				ug/L
|	Tl	203	342182.570	1.06	50.0000	0.640	1.280	ug/L
|	Tl	205	844059.130	2.62	50.0000	1.004	2.007	ug/L
|	Pb	206	273944.690	0.85	50.0000	0.683	1.365	ug/L
|	Pb	207	258244.606	0.80	50.0000	0.562	1.124	ug/L
|	Pb	208	1149356.874	3.57	50.0000	0.689	1.379	ug/L
|	U	238	1735013.924	5.39	50.0000	0.194	0.389	ug/L
⌊>	Bi	209	321633.073	321633.07				ug/L

Sample ID: Standard 3
Report Date/Time: Tuesday, March 29, 2011 09:09:33
Page 1

Approved: March 30, 2011

Na	23	21101622.206	143.33	5.0000	0.081	1.615	mg/L
Mg	24	14365946.987	98.50	5.0000	0.061	1.225	mg/L
K	39	28407242.224	192.14	5.0000	0.042	0.850	mg/L
Ca	43	69128.404	0.47	5.0000	0.025	0.493	mg/L
Fe	54	2512967.579	17.00	5.0000	0.112	2.236	mg/L
Fe	57	1070998.660	7.29	5.0000	0.063	1.253	mg/L
> Sc-1	45	145839.275	145839.28				mg/L
Cl	35	10974.688	1124.50				mg/L
Kr	83	77.334	5.33				mg/L
Br	81	6083.184	58.03				mg/L
P	31	5446.824	-286.18				mg/L
S	34	133954.223	16035.00				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209					
Na	23					

Sample ID: Standard 3
Report Date/Time: Tuesday, March 29, 2011 09:09:33
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Tuesday, March 29, 2011 09:09:33

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Tuesday, March 29, 2011 09:07:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15295.128	-0.01				ug/L
|	Be	9	13308.851	0.09	50.2153	0.968	1.927	ug/L
|	Al	27	258841.226	1.73	51.1974	1.173	2.290	ug/L
⌊>	Sc	45	145839.275	145839.28				ug/L
⌈	Ti	49	50207.473	0.16	100.7260	4.646	4.612	ug/L
|	V	51	414326.423	1.28	50.2477	1.624	3.232	ug/L
|	Cr	52	362029.940	1.10	50.5932	1.526	3.017	ug/L
|	Cr	53	41828.141	0.13	50.7881	0.860	1.694	ug/L
|	Mn	55	541690.364	1.69	50.6138	1.665	3.289	ug/L
|	Co	59	422315.993	1.32	50.9137	1.196	2.349	ug/L
|	Ni	60	89310.272	0.28	51.0270	1.152	2.257	ug/L
|	Cu	65	91739.137	0.29	51.5457	1.352	2.622	ug/L
|	Zn	66	58331.555	0.18	50.8719	1.451	2.853	ug/L
|>	Ge	72	320970.318	320970.32				ug/L
|	As	75	55605.207	0.17	49.9754	1.605	3.212	ug/L
|	Se	77	4409.639	0.01	50.2409	1.690	3.364	ug/L
|	Se	82	5278.481	0.02	49.9243	1.611	3.227	ug/L
⌊	Rb	85	2201.264	0.01				mg/L
	Y	89	218578.041	2541.09				ug/L
	Rh	103	48.001	23.33				ug/L
⌈	Mo	98	310201.502	1.01	101.0246	1.451	1.436	ug/L
|	Ag	107	313725.606	1.02	50.6102	1.200	2.372	ug/L
|	Cd	114	65244.377	0.21	50.2812	0.888	1.766	ug/L
|>	In	115	307868.341	307868.34				ug/L
|	Sn	118	230357.305	0.75	50.1906	0.628	1.251	ug/L
⌊	Sb	123	212106.498	0.69	50.0900	0.350	0.699	ug/L
⌈	Ba	135	81662.234	0.21	50.7448	0.784	1.545	ug/L
|	Ce	140	83.342	0.00				ug/L
⌊>	Tb	159	388090.643	388090.64				ug/L
⌈	Ho	165	50.005	0.00				ug/L
|	Tl	203	342182.570	1.06	50.0097	0.640	1.280	ug/L
|	Tl	205	844059.130	2.62	50.3968	1.012	2.007	ug/L
|	Pb	206	273944.690	0.85	49.8468	0.681	1.365	ug/L
|	Pb	207	258244.606	0.80	49.9851	0.562	1.124	ug/L
|	Pb	208	1149356.874	3.57	49.9106	0.688	1.379	ug/L
|	U	238	1735013.924	5.39	50.4383	0.196	0.389	ug/L
⌊>	Bi	209	321633.073	321633.07				ug/L

Sample ID: Standard 3
Report Date/Time: Tuesday, March 29, 2011 10:45:30
Page 1

Approved: March 30, 2011

Na	23	21101622.206	143.33	4.9763	0.080	1.615	mg/L	
Mg	24	14365946.987	98.50	4.9599	0.061	1.225	mg/L	
K	39	28407242.224	192.14	4.9905	0.042	0.850	mg/L	
Ca	43	69128.404	0.47	4.9944	0.025	0.493	mg/L	
Fe	54	2512967.579	17.00	5.0282	0.112	2.237	mg/L	
Fe	57	1070998.660	7.29	5.1072	0.064	1.253	mg/L	
> Sc-1	45	145839.275	145839.28				mg/L	
Cl	35	10974.688	1124.50				mg/L	
Kr	83	77.334	5.33				mg/L	
Br	81	6083.184	58.03				mg/L	
P	31	5446.824	-286.18				mg/L	
S	34	133954.223	16035.00				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209					
Na	23					

Sample ID: Standard 3
Report Date/Time: Tuesday, March 29, 2011 10:45:30

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Tuesday, March 29, 2011 10:45:30
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Tuesday, March 29, 2011 09:14:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15678.963	-0.00				ug/L
|	Be	9	26013.124	0.18	99.5710	1.164	1.169	ug/L
|	Al	27	479181.192	3.29	97.6148	2.518	2.580	ug/L
⌊>	Sc	45	143793.268	143793.27				ug/L
⌈	Ti	49	97697.996	0.31	198.5539	1.950	0.982	ug/L
|	V	51	807906.392	2.54	99.5066	0.502	0.504	ug/L
|	Cr	52	689542.184	2.14	98.8183	2.245	2.272	ug/L
|	Cr	53	79848.822	0.25	98.4302	0.641	0.651	ug/L
|	Mn	55	1042761.682	3.29	98.7772	0.733	0.742	ug/L
|	Co	59	804403.903	2.54	98.1800	1.726	1.758	ug/L
|	Ni	60	169245.199	0.53	97.9543	0.328	0.335	ug/L
|	Cu	65	170263.292	0.54	96.9211	0.305	0.315	ug/L
|	Zn	66	107978.257	0.34	98.2632	0.785	0.799	ug/L
|>	Ge	72	316975.791	316975.79				ug/L
|	As	75	110137.052	0.35	100.0490	0.916	0.915	ug/L
|	Se	77	8550.321	0.03	99.5202	0.906	0.910	ug/L
|	Se	82	10470.986	0.03	100.1508	1.030	1.029	ug/L
⌊	Rb	85	4182.250	0.01				mg/L
	Y	89	213666.869	-2370.08				ug/L
	Rh	103	53.001	28.33				ug/L
⌈	Mo	98	597618.481	1.97	197.9589	2.997	1.514	ug/L
|	Ag	107	602126.979	1.99	98.7844	0.405	0.410	ug/L
|	Cd	114	126856.829	0.42	99.4399	1.364	1.372	ug/L
|>	In	115	302699.831	302699.83				ug/L
|	Sn	118	449083.133	1.48	99.6203	0.697	0.700	ug/L
⌊	Sb	123	415634.619	1.37	99.8208	1.080	1.082	ug/L
⌈	Ba	135	159477.950	0.41	98.5163	0.591	0.599	ug/L
|	Ce	140	83.342	0.00				ug/L
⌊>	Tb	159	390431.169	390431.17				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	670783.636	2.13	99.9806	1.467	1.467	ug/L
|	Tl	205	1629257.289	5.17	99.2096	0.951	0.958	ug/L
|	Pb	206	540235.713	1.71	100.3052	1.286	1.282	ug/L
|	Pb	207	506473.531	1.61	100.0296	1.675	1.674	ug/L
|	Pb	208	2260916.816	7.17	100.1781	0.986	0.984	ug/L
|	U	238	3342706.684	10.60	99.1268	2.179	2.198	ug/L
⌊>	Bi	209	315334.950	315334.95				ug/L

Sample ID: Standard 4
Report Date/Time: Tuesday, March 29, 2011 09:16:19
Page 1

Approved: March 30, 2011

⌈	Na	23	41858655.202	289.75	10.0472	0.112	1.116	mg/L
|	Mg	24	28771345.378	200.10	10.0800	0.062	0.611	mg/L
|	K	39	55815164.103	385.52	10.0190	0.076	0.758	mg/L
|	Ca	43	136164.603	0.94	10.0112	0.282	2.816	mg/L
|	Fe	54	4865516.433	33.61	9.9438	0.302	3.041	mg/L
|	Fe	57	2016221.219	13.97	9.7864	0.127	1.301	mg/L
⌊>	Sc-1	45	143793.268	143793.27				mg/L
	Cl	35	12059.267	2209.08				mg/L
	Kr	83	78.334	6.33				mg/L
	Br	81	5762.995	-262.16				mg/L
	P	31	5654.267	-78.74				mg/L
	S	34	146324.902	28405.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 4
Report Date/Time: Tuesday, March 29, 2011 09:16:19
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\└>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 4
Report Date/Time: Tuesday, March 29, 2011 09:16:19
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Tuesday, March 29, 2011 09:14:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15678.963	-0.00				ug/L
|	Be	9	26013.124	0.18	99.5710	1.164	1.169	ug/L
|	Al	27	479181.192	3.29	97.6148	2.518	2.580	ug/L
⌊>	Sc	45	143793.268	143793.27				ug/L
⌈	Ti	49	97697.996	0.31	198.5539	1.950	0.982	ug/L
|	V	51	807906.392	2.54	99.5066	0.502	0.504	ug/L
|	Cr	52	689542.184	2.14	98.8183	2.245	2.272	ug/L
|	Cr	53	79848.822	0.25	98.4302	0.641	0.651	ug/L
|	Mn	55	1042761.682	3.29	98.7772	0.733	0.742	ug/L
|	Co	59	804403.903	2.54	98.1800	1.726	1.758	ug/L
|	Ni	60	169245.199	0.53	97.9543	0.328	0.335	ug/L
|	Cu	65	170263.292	0.54	96.9211	0.305	0.315	ug/L
|	Zn	66	107978.257	0.34	98.2632	0.785	0.799	ug/L
|>	Ge	72	316975.791	316975.79				ug/L
|	As	75	110137.052	0.35	100.0490	0.916	0.915	ug/L
|	Se	77	8550.321	0.03	99.5202	0.906	0.910	ug/L
|	Se	82	10470.986	0.03	100.1508	1.030	1.029	ug/L
⌊	Rb	85	4182.250	0.01				mg/L
	Y	89	213666.869	-2370.08				ug/L
	Rh	103	53.001	28.33				ug/L
⌈	Mo	98	597618.481	1.97	197.9589	2.997	1.514	ug/L
|	Ag	107	602126.979	1.99	98.7844	0.405	0.410	ug/L
|	Cd	114	126856.829	0.42	99.4399	1.364	1.372	ug/L
|>	In	115	302699.831	302699.83				ug/L
|	Sn	118	449083.133	1.48	99.6203	0.697	0.700	ug/L
⌊	Sb	123	415634.619	1.37	99.8208	1.080	1.082	ug/L
⌈	Ba	135	159477.950	0.41	98.5163	0.591	0.599	ug/L
|	Ce	140	83.342	0.00				ug/L
⌊>	Tb	159	390431.169	390431.17				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	670783.636	2.13	99.9806	1.467	1.467	ug/L
|	Tl	205	1629257.289	5.17	99.2096	0.951	0.958	ug/L
|	Pb	206	540235.713	1.71	100.3052	1.286	1.282	ug/L
|	Pb	207	506473.531	1.61	100.0296	1.675	1.674	ug/L
|	Pb	208	2260916.816	7.17	100.1781	0.986	0.984	ug/L
|	U	238	3342706.684	10.60	99.1268	2.179	2.198	ug/L
⌊>	Bi	209	315334.950	315334.95				ug/L

Sample ID: Standard 4
Report Date/Time: Tuesday, March 29, 2011 10:45:31
Page 1

Approved: March 30, 2011

⌈	Na	23	41858655.202	289.75	10.0472	0.112	1.116	mg/L
|	Mg	24	28771345.378	200.10	10.0800	0.062	0.611	mg/L
|	K	39	55815164.103	385.52	10.0190	0.076	0.758	mg/L
|	Ca	43	136164.603	0.94	10.0112	0.282	2.816	mg/L
|	Fe	54	4865516.433	33.61	9.9438	0.302	3.041	mg/L
|	Fe	57	2016221.219	13.97	9.7864	0.127	1.301	mg/L
⌊>	Sc-1	45	143793.268	143793.27				mg/L
	Cl	35	12059.267	2209.08				mg/L
	Kr	83	78.334	6.33				mg/L
	Br	81	5762.995	-262.16				mg/L
	P	31	5654.267	-78.74				mg/L
	S	34	146324.902	28405.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 4
Report Date/Time: Tuesday, March 29, 2011 10:45:31
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 4
Report Date/Time: Tuesday, March 29, 2011 10:45:31
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, March 29, 2011 09:20:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 11
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15011.272	-0.01				ug/L
|	Be	9	12778.159	0.09	49.4690	0.980	1.981	ug/L
|	Al	27	266266.344	1.83	54.1461	2.111	3.899	ug/L
⌊>	Sc	45	142153.727	142153.73				ug/L
⌈	Ti	49	55814.321	0.18	115.8219	4.384	3.785	ug/L
|	V	51	398441.142	1.27	49.9632	0.679	1.360	ug/L
|	Cr	52	353245.269	1.11	51.0569	0.420	0.823	ug/L
|	Cr	53	40298.425	0.13	50.6199	1.933	3.819	ug/L
|	Mn	55	532981.969	1.72	51.5057	1.284	2.492	ug/L
|	Co	59	402396.134	1.30	50.1719	0.885	1.764	ug/L
|	Ni	60	85649.826	0.28	50.6059	0.759	1.500	ug/L
|	Cu	65	87458.410	0.28	50.8113	0.476	0.937	ug/L
|	Zn	66	55520.592	0.18	50.0204	0.504	1.008	ug/L
| >	Ge	72	310284.515	310284.52				ug/L
|	As	75	54827.733	0.18	50.9484	0.326	0.639	ug/L
|	Se	77	4292.255	0.01	50.5834	1.644	3.251	ug/L
|	Se	82	5257.467	0.02	51.4176	0.478	0.929	ug/L
⌊	Rb	85	2168.924	0.01				mg/L
	Y	89	209237.133	-6799.82				ug/L
	Rh	103	44.334	19.67				ug/L
⌈	Mo	98	329763.546	1.09	109.1957	2.183	1.999	ug/L
|	Ag	107	307043.351	1.01	50.3565	0.592	1.176	ug/L
|	Cd	114	63638.508	0.21	49.8624	0.625	1.254	ug/L
| >	In	115	302818.940	302818.94				ug/L
|	Sn	118	251057.693	0.83	55.6267	0.588	1.057	ug/L
⌊	Sb	123	200946.792	0.66	48.2531	0.894	1.853	ug/L
⌈	Ba	135	80073.789	0.21	50.0489	0.762	1.522	ug/L
|	Ce	140	80.008	0.00				ug/L
⌊>	Tb	159	385828.287	385828.29				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	337654.408	1.07	50.2069	0.589	1.173	ug/L
|	Tl	205	814895.168	2.58	49.4982	0.740	1.495	ug/L
|	Pb	206	282860.962	0.89	52.3696	0.921	1.758	ug/L
|	Pb	207	252212.789	0.80	49.6701	0.811	1.632	ug/L
|	Pb	208	1153850.401	3.65	50.9757	0.307	0.602	ug/L
|	U	238	1687411.356	5.34	49.9114	0.396	0.793	ug/L
⌊>	Bi	209	316126.469	316126.47				ug/L

Sample ID: QC Std 1
Report Date/Time: Tuesday, March 29, 2011 09:23:04
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	20637064.901	143.81	4.9928	0.086	1.717	mg/L
|	Mg	24	14371670.963	101.12	5.0918	0.117	2.291	mg/L
|	K	39	28232361.164	196.07	5.0927	0.162	3.187	mg/L
|	Ca	43	69433.826	0.49	5.1502	0.151	2.939	mg/L
|	Fe	54	2470629.477	17.16	5.0737	0.149	2.946	mg/L
|	Fe	57	1040335.955	7.27	5.0903	0.092	1.805	mg/L
⌊>	Sc-1	45	142153.727	142153.73				mg/L
	Cl	35	11374.467	1524.28				mg/L
	Kr	83	77.668	5.67				mg/L
	Br	81	5511.519	-513.63				mg/L
	P	31	5095.303	-637.70				mg/L
	S	34	134240.737	16321.52				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9	98.938				
|	Al	27	108.292				
⌊>	Sc	45					
⌈	Ti	49	115.822				
|	V	51	99.926				
|	Cr	52	102.114				
|	Cr	53					
|	Mn	55	103.011				
|	Co	59	100.344				
|	Ni	60	101.212				
|	Cu	65	101.623				
|	Zn	66	100.041				
|>	Ge	72		98.539			
|	As	75	101.897				
|	Se	77					
|	Se	82	102.835				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	100.713				
|	Cd	114	99.725				
|>	In	115		100.628			
|	Sn	118					
⌊	Sb	123	96.506				
⌈	Ba	135	100.098				
|	Ce	140					
⌊>	Tb	159		101.694			
⌈	Ho	165					
|	Tl	203	100.414				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	101.951				
|	U	238	99.823				
⌊>	Bi	209		99.905			
⌈	Na	23	99.855				

Sample ID: QC Std 1
Report Date/Time: Tuesday, March 29, 2011 09:23:04
Page 2

Approved: March 30, 2011

|	Mg	24	101.837
|	K	39	101.854
|	Ca	43	103.003
|	Fe	54	101.475
|	Fe	57	101.806
|>	Sc-1	45	
	Cl	35	
	Kr	83	
	Br	81	
	P	31	
	S	34	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Tuesday, March 29, 2011 09:23:04
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, March 29, 2011 09:27:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16279.951	-0.01				ug/L
|	Be	9	17.333	0.00	0.0281	0.028	98.596	ug/L
|	Al	27	5734.998	-0.01	-0.5669	0.149	26.286	ug/L
⌊>	Sc	45	152199.507	152199.51				ug/L
⌈	Ti	49	56.673	0.00	-0.0827	0.041	49.429	ug/L
|	V	51	2860.400	-0.00	0.0009	0.007	727.613	ug/L
|	Cr	52	9376.155	-0.00	-0.0467	0.026	55.952	ug/L
|	Cr	53	210.023	-0.00	-0.0432	0.024	56.581	ug/L
|	Mn	55	433.347	-0.00	-0.1291	0.001	0.548	ug/L
|	Co	59	111.335	-0.00	0.0012	0.001	104.334	ug/L
|	Ni	60	86.668	-0.00	-0.0250	0.006	22.213	ug/L
|	Cu	65	170.003	0.00	-0.0017	0.014	864.047	ug/L
|	Zn	66	552.021	0.00	-2.8570	0.010	0.340	ug/L
|>	Ge	72	324098.491	324098.49				ug/L
|	As	75	-108.747	0.00	0.0437	0.012	28.382	ug/L
|	Se	77	64.667	-0.00	-0.2127	0.081	37.957	ug/L
|	Se	82	5.061	0.00	0.1371	0.116	84.453	ug/L
⌊	Rb	85	35.667	-0.00				mg/L
	Y	89	224082.186	8045.24				ug/L
	Rh	103	25.334	0.67				ug/L
⌈	Mo	98	232.772	0.00	0.0658	0.004	5.785	ug/L
|	Ag	107	67.334	0.00	0.0072	0.002	24.788	ug/L
|	Cd	114	2.081	0.00	-0.0032	0.006	176.307	ug/L
|>	In	115	313388.184	313388.18				ug/L
|	Sn	118	412.008	0.00	-0.0204	0.004	18.066	ug/L
⌊	Sb	123	526.670	0.00	0.1324	0.014	10.758	ug/L
⌈	Ba	135	47.667	-0.00	0.0045	0.002	41.709	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	398288.501	398288.50				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	67.668	0.00	0.0171	0.000	1.410	ug/L
|	Tl	205	96.677	0.00	0.0063	0.003	50.768	ug/L
|	Pb	206	312.008	0.00	0.0096	0.002	25.724	ug/L
|	Pb	207	268.340	-0.00	0.0092	0.003	35.549	ug/L
|	Pb	208	1225.708	0.00	0.0073	0.000	6.281	ug/L
|	U	238	153.003	0.00	0.0018	0.000	27.651	ug/L
⌊>	Bi	209	329175.113	329175.11				ug/L

Sample ID: QC Std 2
Report Date/Time: Tuesday, March 29, 2011 09:29:48
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	199793.683	-0.07	0.0099	0.002	15.311	mg/L
|	Mg	24	1083.501	0.00	-0.0043	0.000	1.260	mg/L
|	K	39	386450.437	-0.10	-0.0085	0.001	9.269	mg/L
|	Ca	43	370.044	-0.00	-0.0058	0.002	39.576	mg/L
|	Fe	54	33987.429	-0.01	-0.0061	0.004	60.558	mg/L
|	Fe	57	5635.485	-0.01	-0.0123	0.001	6.140	mg/L
⌊>	Sc-1	45	152199.507	152199.51				mg/L
	Cl	35	10943.319	1093.13				mg/L
	Kr	83	69.668	-2.33				mg/L
	Br	81	6147.222	122.07				mg/L
	P	31	6141.899	408.89				mg/L
	S	34	131790.126	13870.91				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.926			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.140			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.978			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.029			
⌈	Na	23					

Sample ID: QC Std 2
Report Date/Time: Tuesday, March 29, 2011 09:29:48
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Tuesday, March 29, 2011 09:29:48
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, March 29, 2011 09:34:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15278.367	-0.01				ug/L
|	Be	9	18.667	0.00	0.0360	0.022	60.503	ug/L
|	Al	27	3667.360	-0.02	-0.9368	0.168	17.923	ug/L
⌊>	Sc	45	145435.157	145435.16				ug/L
⌈	Ti	49	56.673	0.00	-0.0804	0.063	78.968	ug/L
|	V	51	6116.525	0.01	0.4059	0.012	3.051	ug/L
|	Cr	52	14920.606	0.01	0.7742	0.059	7.653	ug/L
|	Cr	53	816.782	0.00	0.7068	0.118	16.648	ug/L
|	Mn	55	5902.467	0.02	0.3870	0.015	3.959	ug/L
|	Co	59	3545.997	0.01	0.4178	0.008	1.830	ug/L
|	Ni	60	2953.466	0.01	1.6249	0.042	2.561	ug/L
|	Cu	65	1589.809	0.00	0.8032	0.018	2.234	ug/L
|	Zn	66	7292.064	0.02	3.4505	0.104	3.022	ug/L
|>	Ge	72	319235.970	319235.97				ug/L
|	As	75	308.852	0.00	0.4181	0.049	11.782	ug/L
|	Se	77	126.001	0.00	0.5143	0.304	59.036	ug/L
|	Se	82	41.670	0.00	0.4842	0.107	22.191	ug/L
⌊	Rb	85	31.000	-0.00				mg/L
	Y	89	219464.659	3427.71				ug/L
	Rh	103	16.000	-8.67				ug/L
⌈	Mo	98	117.997	0.00	0.0290	0.004	12.557	ug/L
|	Ag	107	2574.691	0.01	0.4046	0.017	4.096	ug/L
|	Cd	114	273.054	0.00	0.2018	0.032	15.872	ug/L
|>	In	115	313485.371	313485.37				ug/L
|	Sn	118	274.404	0.00	-0.0499	0.003	6.153	ug/L
⌊	Sb	123	1868.639	0.01	0.4435	0.006	1.416	ug/L
⌈	Ba	135	1268.760	0.00	0.7640	0.005	0.681	ug/L
|	Ce	140	33.337	-0.00				ug/L
⌊>	Tb	159	388232.721	388232.72				ug/L
⌈	Ho	165	36.670	0.00				ug/L
|	Tl	203	616.358	0.00	0.0974	0.002	1.986	ug/L
|	Tl	205	1560.280	0.00	0.0935	0.013	13.982	ug/L
|	Pb	206	2535.013	0.01	0.4150	0.007	1.599	ug/L
|	Pb	207	2329.962	0.01	0.4089	0.012	2.945	ug/L
|	Pb	208	10448.256	0.03	0.4085	0.004	1.024	ug/L
|	U	238	13845.051	0.04	0.3993	0.007	1.711	ug/L
⌊>	Bi	209	322198.623	322198.62				ug/L

Sample ID: QC Std 3
Report Date/Time: Tuesday, March 29, 2011 09:36:38
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	13386.959	-1.29	-0.0324	0.000	0.584	mg/L
|	Mg	24	570.074	0.00	-0.0045	0.000	0.678	mg/L
|	K	39	396354.959	0.09	-0.0035	0.003	89.041	mg/L
|	Ca	43	353.375	-0.00	-0.0057	0.007	118.547	mg/L
|	Fe	54	32064.781	-0.01	-0.0068	0.003	37.156	mg/L
|	Fe	57	6122.487	-0.01	-0.0087	0.001	14.118	mg/L
⌊>	Sc-1	45	145435.157	145435.16				mg/L
	Cl	35	11484.595	1634.41				mg/L
	Kr	83	76.334	4.33				mg/L
	Br	81	5986.458	-38.70				mg/L
	P	31	6498.801	765.80				mg/L
	S	34	136903.725	18984.51				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	101.470				
|	Cr	52	96.773				
|	Cr	53					
|	Mn	55	77.394				
|	Co	59	104.439				
|	Ni	60	101.556				
|	Cu	65	100.401				
|	Zn	66	55.209				
|>	Ge	72		101.382			
|	As	75	104.529				
|	Se	77					
|	Se	82	121.053				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	101.140				
|	Cd	114	100.889				
|>	In	115		104.172			
|	Sn	118					
⌊	Sb	123	110.885				
⌈	Ba	135	101.870				
|	Ce	140					
⌊>	Tb	159		102.327			
⌈	Ho	165					
|	Tl	203	121.751				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	102.122				
|	U	238	99.820				
⌊>	Bi	209		101.824			
⌈	Na	23					

Sample ID: QC Std 3
Report Date/Time: Tuesday, March 29, 2011 09:36:38
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Zn	66	LLICV IS OUT OF LIMITS (+/-20%)
QC Std 3	Tl	203	LLICV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 3
Report Date/Time: Tuesday, March 29, 2011 09:36:38

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, March 29, 2011 09:41:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16163.127	0.00				ug/L
|	Be	9	11.333	-0.00	0.0100	0.011	110.585	ug/L
|	Al	27	14067881.236	101.15	3013.3680	148.684	4.934	ug/L
⌊>	Sc	45	139145.233	139145.23				ug/L
⌈	Ti	49	31452.568	0.10	65.0712	2.751	4.228	ug/L
|	V	51	2412.622	-0.00	-0.0408	0.021	51.666	ug/L
|	Cr	52	8427.301	-0.01	-0.1303	0.025	19.436	ug/L
|	Cr	53	876.794	0.00	0.8081	0.198	24.560	ug/L
|	Mn	55	1936.207	0.00	0.0181	0.006	33.886	ug/L
|	Co	59	1140.076	0.00	0.1299	0.003	2.450	ug/L
|	Ni	60	471.683	0.00	0.2046	0.014	6.791	ug/L
|	Cu	65	540.353	0.00	0.2177	0.005	2.498	ug/L
|	Zn	66	647.694	0.00	-2.7435	0.020	0.714	ug/L
|>	Ge	72	310801.890	310801.89				ug/L
|	As	75	-154.389	0.00	-0.0029	0.046	1594.740	ug/L
|	Se	77	124.001	0.00	0.5307	0.187	35.186	ug/L
|	Se	82	3.319	0.00	0.1230	0.142	115.492	ug/L
⌊	Rb	85	1349.105	0.00				mg/L
	Y	89	207124.215	-8912.73				ug/L
	Rh	103	23.000	-1.67				ug/L
⌈	Mo	98	200911.468	0.68	68.1614	1.016	1.490	ug/L
|	Ag	107	94.001	0.00	0.0123	0.002	19.849	ug/L
|	Cd	114	35.052	0.00	0.0234	0.005	23.245	ug/L
|>	In	115	295545.791	295545.79				ug/L
|	Sn	118	188.935	0.00	-0.0658	0.001	1.304	ug/L
⌊	Sb	123	197.740	0.00	0.0588	0.003	5.222	ug/L
⌈	Ba	135	55.001	-0.00	0.0109	0.003	23.853	ug/L
|	Ce	140	156.684	0.00				ug/L
⌊>	Tb	159	376689.062	376689.06				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	45.334	0.00	0.0142	0.002	10.590	ug/L
|	Tl	205	66.674	0.00	0.0047	0.001	20.448	ug/L
|	Pb	206	351.010	0.00	0.0192	0.002	11.803	ug/L
|	Pb	207	296.674	0.00	0.0169	0.005	27.820	ug/L
|	Pb	208	1330.381	0.00	0.0141	0.001	6.193	ug/L
|	U	238	41.000	0.00	-0.0013	0.000	12.582	ug/L
⌊>	Bi	209	315898.639	315898.64				ug/L

Sample ID: QC Std 4
Report Date/Time: Tuesday, March 29, 2011 09:43:26
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	33870566.815	242.18	8.3997	0.277	3.302	mg/L	
Mg	24	9345931.945	67.22	3.3831	0.145	4.283	mg/L	
K	39	18535830.948	130.62	3.3908	0.090	2.642	mg/L	
Ca	43	130424.839	0.93	9.9099	0.153	1.543	mg/L	
Fe	54	4142122.716	29.56	8.7433	0.335	3.829	mg/L	
Fe	57	1756500.540	12.58	8.8132	0.388	4.400	mg/L	
Sc-1	45	139145.233	139145.23				mg/L	
Cl	35	1034181.362	1024331.18				mg/L	
Kr	83	78.334	6.33				mg/L	
Br	81	5720.970	-304.18				mg/L	
P	31	937298.172	931565.17				mg/L	
S	34	207006.288	89087.07				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		98.703			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		98.211			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		99.285			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		99.833			
Na	23					

Sample ID: QC Std 4
Report Date/Time: Tuesday, March 29, 2011 09:43:26
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Tuesday, March 29, 2011 09:43:26
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, March 29, 2011 09:48:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17515.390	0.02				ug/L
|	Be	9	26352.682	0.19	106.2672	2.204	2.074	ug/L
|	Al	27	20264218.401	148.44	4422.0687	102.007	2.307	ug/L
⌊>	Sc	45	136491.884	136491.88				ug/L
⌈	Ti	49	45779.156	0.15	94.7478	3.027	3.195	ug/L
|	V	51	748425.759	2.40	93.9631	2.499	2.660	ug/L
|	Cr	52	658941.776	2.09	96.2401	2.507	2.605	ug/L
|	Cr	53	94998.760	0.30	119.4308	2.889	2.419	ug/L
|	Mn	55	1026531.894	3.30	99.1311	1.864	1.881	ug/L
|	Co	59	786279.042	2.53	97.8253	1.465	1.498	ug/L
|	Ni	60	167315.910	0.54	98.7077	0.589	0.597	ug/L
|	Cu	65	172477.522	0.55	100.0854	1.172	1.171	ug/L
|	Zn	66	107793.016	0.35	100.0476	1.299	1.299	ug/L
| >	Ge	72	310989.636	310989.64				ug/L
|	As	75	105750.372	0.34	97.9313	1.424	1.454	ug/L
|	Se	77	9682.685	0.03	115.0398	1.980	1.721	ug/L
|	Se	82	10226.395	0.03	99.7048	0.856	0.858	ug/L
⌊	Rb	85	1966.546	0.01				mg/L
	Y	89	208114.090	-7922.86				ug/L
	Rh	103	69.668	45.00				ug/L
⌈	Mo	98	292627.120	1.00	100.4555	2.082	2.073	ug/L
|	Ag	107	573335.029	1.96	97.4807	0.496	0.509	ug/L
|	Cd	114	123125.779	0.42	100.0184	1.053	1.053	ug/L
| >	In	115	292078.280	292078.28				ug/L
|	Sn	118	674.156	0.00	0.0463	0.008	18.320	ug/L
⌊	Sb	123	398221.783	1.36	99.1179	1.176	1.186	ug/L
⌈	Ba	135	149223.101	0.40	96.9327	0.586	0.605	ug/L
|	Ce	140	283.366	0.00				ug/L
⌊>	Tb	159	371287.757	371287.76				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	667049.943	2.07	97.4881	0.559	0.573	ug/L
|	Tl	205	1616414.796	5.03	96.5097	1.254	1.300	ug/L
|	Pb	206	560116.711	1.74	101.9708	0.982	0.963	ug/L
|	Pb	207	498104.356	1.55	96.4591	1.559	1.616	ug/L
|	Pb	208	2281353.814	7.09	99.1124	0.628	0.634	ug/L
|	U	238	3456282.213	10.75	100.4882	1.016	1.011	ug/L
⌊>	Bi	209	321588.532	321588.53				ug/L

Sample ID: QC Std 5
Report Date/Time: Tuesday, March 29, 2011 09:50:14
Page 1

Approved: March 30, 2011

⌈	Na	23	48165913.999	351.52	12.1863	0.146	1.199	mg/L
|	Mg	24	13276410.164	97.28	4.8979	0.103	2.104	mg/L
|	K	39	27059721.197	195.60	5.0804	0.083	1.632	mg/L
|	Ca	43	188135.778	1.38	14.5832	0.225	1.543	mg/L
|	Fe	54	5991098.133	43.66	12.9176	0.163	1.259	mg/L
|	Fe	57	2548362.951	18.62	13.0431	0.194	1.484	mg/L
⌊>	Sc-1	45	136491.884	136491.88				mg/L
	Cl	35	23597742.979	23587892.80				mg/L
	Kr	83	78.334	6.33				mg/L
	Br	81	7520.831	1495.68				mg/L
	P	31	1298104.259	1292371.25				mg/L
	S	34	247921.234	130002.01				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	93.963				
|	Cr	52	96.240				
|	Cr	53					
|	Mn	55	99.131				
|	Co	59	97.825				
|	Ni	60	98.708				
|	Cu	65	100.085				
|	Zn	66	100.048				
|>	Ge	72		98.763			
|	As	75	97.931				
|	Se	77					
|	Se	82	99.705				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	97.481				
|	Cd	114	100.018				
|>	In	115		97.058			
|	Sn	118					
⌊	Sb	123	99.118				
⌈	Ba	135	96.933				
|	Ce	140					
⌊>	Tb	159		97.861			
⌈	Ho	165					
|	Tl	203	97.488				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.112				
|	U	238	100.488				
⌊>	Bi	209		101.632			
⌈	Na	23					

Sample ID: QC Std 5
Report Date/Time: Tuesday, March 29, 2011 09:50:14
Page 2

Approved: March 30, 2011

Erin D. Long

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Tuesday, March 29, 2011 09:50:14
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 09:54:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16997.775	0.01				ug/L
|	Be	9	12963.065	0.09	50.7776	0.744	1.466	ug/L
|	Al	27	243601.727	1.69	49.9901	2.336	4.672	ug/L
⌊>	Sc	45	140446.052	140446.05				ug/L
⌈	Ti	49	48451.932	0.16	99.9210	1.228	1.229	ug/L
|	V	51	392552.775	1.25	48.9345	0.458	0.937	ug/L
|	Cr	52	343479.669	1.07	49.3173	0.779	1.580	ug/L
|	Cr	53	42568.009	0.14	53.1575	0.488	0.919	ug/L
|	Mn	55	520189.113	1.67	49.9708	1.150	2.301	ug/L
|	Co	59	397849.646	1.27	49.3150	0.426	0.864	ug/L
|	Ni	60	83746.733	0.27	49.1931	0.226	0.459	ug/L
|	Cu	65	87080.056	0.28	50.3011	0.338	0.672	ug/L
|	Zn	66	54876.718	0.17	49.0946	0.505	1.028	ug/L
|>	Ge	72	312086.440	312086.44				ug/L
|	As	75	54068.334	0.17	49.9577	0.602	1.206	ug/L
|	Se	77	4422.312	0.01	51.8251	2.054	3.964	ug/L
|	Se	82	5242.920	0.02	50.9779	0.183	0.359	ug/L
⌊	Rb	85	2074.570	0.01				mg/L
	Y	89	211201.462	-4835.49				ug/L
	Rh	103	30.000	5.33				ug/L
⌈	Mo	98	293544.938	0.98	97.9272	0.568	0.580	ug/L
|	Ag	107	298721.634	0.99	49.3597	0.519	1.051	ug/L
|	Cd	114	62909.804	0.21	49.6657	0.253	0.509	ug/L
|>	In	115	300527.417	300527.42				ug/L
|	Sn	118	222649.182	0.74	49.6915	0.436	0.877	ug/L
⌊	Sb	123	207610.205	0.69	50.2237	0.399	0.794	ug/L
⌈	Ba	135	78861.191	0.21	49.8205	0.236	0.474	ug/L
|	Ce	140	46.671	0.00				ug/L
⌊>	Tb	159	381699.408	381699.41				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	337377.147	1.06	49.9016	0.315	0.632	ug/L
|	Tl	205	831630.212	2.62	50.2488	1.086	2.162	ug/L
|	Pb	206	271942.060	0.85	50.0764	0.732	1.462	ug/L
|	Pb	207	254219.206	0.80	49.7976	0.373	0.749	ug/L
|	Pb	208	1128464.140	3.55	49.5899	0.367	0.741	ug/L
|	U	238	1853852.942	5.83	54.5491	0.482	0.884	ug/L
⌊>	Bi	209	317779.584	317779.58				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 09:57:01
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	20251635.488	142.81	4.9583	0.034	0.693	mg/L
Mg	24	13848851.798	98.61	4.9650	0.049	0.990	mg/L
K	39	27084704.206	190.21	4.9403	0.096	1.935	mg/L
Ca	43	66399.716	0.47	4.9814	0.073	1.468	mg/L
Fe	54	2414997.735	16.96	5.0166	0.133	2.653	mg/L
Fe	57	1020291.664	7.21	5.0517	0.101	1.993	mg/L
> Sc-1	45	140446.052	140446.05				mg/L
Cl	35	36353.435	26503.25				mg/L
Kr	83	62.001	-10.00				mg/L
Br	81	5582.893	-442.26				mg/L
P	31	5356.105	-376.90				mg/L
S	34	135645.919	17726.70				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	97.869				
Cr	52	98.635				
Cr	53					
Mn	55	99.942				
Co	59	98.630				
Ni	60	98.386				
Cu	65	100.602				
Zn	66	98.189				
> Ge	72		99.111			
As	75	99.915				
Se	77					
Se	82	101.956				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.719				
Cd	114	99.331				
> In	115		99.866			
Sn	118					
Sb	123	100.447				
Ba	135	99.641				
Ce	140					
> Tb	159		100.605			
Ho	165					
Tl	203	99.803				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.180				
U	238	109.098				
> Bi	209		100.428			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 09:57:01

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 09:57:01

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 10:01:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15261.716	-0.01				ug/L
|	Be	9	18.667	0.00	0.0363	0.024	65.058	ug/L
|	Al	27	5734.989	-0.00	-0.5117	0.124	24.284	ug/L
⌊>	Sc	45	145162.881	145162.88				ug/L
⌈	Ti	49	73.341	0.00	-0.0453	0.031	69.179	ug/L
|	V	51	2674.646	-0.00	-0.0124	0.005	43.550	ug/L
|	Cr	52	8749.914	-0.00	-0.1003	0.024	23.766	ug/L
|	Cr	53	1306.883	0.00	1.3268	0.119	9.001	ug/L
|	Mn	55	534.686	0.00	-0.1182	0.002	1.550	ug/L
|	Co	59	98.668	-0.00	0.0000	0.001	2689.532	ug/L
|	Ni	60	87.001	-0.00	-0.0235	0.005	21.568	ug/L
|	Cu	65	152.336	-0.00	-0.0091	0.001	12.244	ug/L
|	Zn	66	470.349	-0.00	-2.9198	0.027	0.916	ug/L
|>	Ge	72	315167.972	315167.97				ug/L
|	As	75	-159.804	-0.00	-0.0054	0.046	846.346	ug/L
|	Se	77	69.334	0.00	-0.1381	0.192	138.902	ug/L
|	Se	82	2.391	0.00	0.1131	0.153	134.830	ug/L
⌊	Rb	85	27.000	-0.00				mg/L
	Y	89	219975.353	3938.40				ug/L
	Rh	103	20.334	-4.33				ug/L
⌈	Mo	98	163.254	0.00	0.0444	0.001	1.566	ug/L
|	Ag	107	56.334	0.00	0.0056	0.001	22.575	ug/L
|	Cd	114	4.635	0.00	-0.0012	0.001	96.995	ug/L
|>	In	115	308290.833	308290.83				ug/L
|	Sn	118	294.138	0.00	-0.0446	0.003	7.257	ug/L
⌊	Sb	123	213.864	0.00	0.0606	0.001	2.117	ug/L
⌈	Ba	135	47.001	-0.00	0.0048	0.005	106.854	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	389073.318	389073.32				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	101.668	0.00	0.0222	0.003	13.334	ug/L
|	Tl	205	223.358	0.00	0.0138	0.001	6.789	ug/L
|	Pb	206	300.008	0.00	0.0080	0.003	33.192	ug/L
|	Pb	207	283.674	0.00	0.0126	0.005	41.764	ug/L
|	Pb	208	1199.040	0.00	0.0066	0.001	22.158	ug/L
|	U	238	115.669	0.00	0.0008	0.000	60.085	ug/L
⌊>	Bi	209	326023.333	326023.33				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 10:03:46
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	192850.949	-0.05	0.0104	0.001	7.377	mg/L
|	Mg	24	650.086	0.00	-0.0045	0.000	0.424	mg/L
|	K	39	362281.273	-0.14	-0.0096	0.001	9.494	mg/L
|	Ca	43	326.705	-0.00	-0.0077	0.004	51.596	mg/L
|	Fe	54	33172.118	-0.00	-0.0045	0.002	37.833	mg/L
|	Fe	57	5748.897	-0.01	-0.0104	0.002	19.004	mg/L
⌊>	Sc-1	45	145162.881	145162.88				mg/L
	Cl	35	20709.422	10859.24				mg/L
	Kr	83	70.001	-2.00				mg/L
	Br	81	5782.338	-242.82				mg/L
	P	31	5536.867	-196.14				mg/L
	S	34	123190.460	5271.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.090			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.446			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.549			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.033			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 10:03:46

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 10:03:46
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103053301

Sample Date/Time: Tuesday, March 29, 2011 10:08:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16146.364	-0.01				ug/L
|	Be	9	17.333	0.00	0.0284	0.022	75.621	ug/L
|	Al	27	57733.028	0.34	9.7145	0.474	4.878	ug/L
⌊>	Sc	45	150845.970	150845.97				ug/L
⌈	Ti	49	373.378	0.00	0.5378	0.045	8.383	ug/L
|	V	51	3064.239	-0.00	0.0207	0.017	83.440	ug/L
|	Cr	52	11296.492	0.00	0.2051	0.042	20.380	ug/L
|	Cr	53	1500.263	0.00	1.4933	0.095	6.384	ug/L
|	Mn	55	15167.313	0.04	1.2198	0.021	1.682	ug/L
|	Co	59	356.677	0.00	0.0299	0.004	14.259	ug/L
|	Ni	60	471.683	0.00	0.1896	0.011	6.051	ug/L
|	Cu	65	557.021	0.00	0.2099	0.024	11.600	ug/L
|	Zn	66	6027.210	0.02	2.1100	0.146	6.925	ug/L
| >	Ge	72	328421.843	328421.84				ug/L
|	As	75	60.522	0.00	0.1932	0.025	12.989	ug/L
|	Se	77	122.667	0.00	0.4356	0.174	40.000	ug/L
|	Se	82	52.960	0.00	0.5785	0.078	13.534	ug/L
⌊	Rb	85	1885.197	0.01				mg/L
	Y	89	226860.501	10823.55				ug/L
	Rh	103	41.000	16.33				ug/L
⌈	Mo	98	223.959	0.00	0.0625	0.009	13.647	ug/L
|	Ag	107	102.335	0.00	0.0126	0.001	9.875	ug/L
|	Cd	114	16.574	0.00	0.0077	0.005	60.900	ug/L
| >	In	115	315638.911	315638.91				ug/L
|	Sn	118	631.620	0.00	0.0257	0.005	17.777	ug/L
⌊	Sb	123	278.491	0.00	0.0743	0.001	1.324	ug/L
⌈	Ba	135	12062.061	0.03	7.2622	0.219	3.017	ug/L
|	Ce	140	563.406	0.00				ug/L
⌊>	Tb	159	399393.629	399393.63				ug/L
⌈	Ho	165	60.006	0.00				ug/L
|	Tl	203	78.001	0.00	0.0187	0.002	10.155	ug/L
|	Tl	205	160.017	0.00	0.0100	0.001	13.513	ug/L
|	Pb	206	4087.544	0.01	0.6852	0.031	4.495	ug/L
|	Pb	207	3558.669	0.01	0.6354	0.018	2.761	ug/L
|	Pb	208	16263.015	0.05	0.6492	0.021	3.271	ug/L
|	U	238	252.672	0.00	0.0047	0.001	16.615	ug/L
⌊>	Bi	209	327521.286	327521.29				ug/L

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 10:10:31
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	164371605.609	1088.23	37.7008	0.271	0.720	mg/L
|	Mg	24	8002624.846	53.04	2.6688	0.033	1.246	mg/L
|	K	39	1546632.610	7.62	0.1922	0.002	1.272	mg/L
|	Ca	43	24589.323	0.16	1.6973	0.047	2.750	mg/L
|	Fe	54	97877.455	0.42	0.1198	0.002	1.474	mg/L
|	Fe	57	28356.369	0.14	0.0935	0.007	7.259	mg/L
⌊>	Sc-1	45	150845.970	150845.97				mg/L
	Cl	35	891299.485	881449.30				mg/L
	Kr	83	81.334	9.33				mg/L
	Br	81	60155.069	54129.91				mg/L
	P	31	34774.431	29041.43				mg/L
	S	34	171239.831	53320.61				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.299			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.888			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.269			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.506			
⌈	Na	23					

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 10:10:31
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103053301

Sample Date/Time: Tuesday, March 29, 2011 10:08:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16146.364	-0.01				ug/L
|	Be	9	17.333	0.00	0.0284	0.022	75.621	ug/L
|	Al	27	57733.028	0.34	9.7145	0.474	4.878	ug/L
⌊>	Sc	45	150845.970	150845.97				ug/L
⌈	Ti	49	373.378	0.00	0.5378	0.045	8.383	ug/L
|	V	51	3064.239	-0.00	0.0207	0.017	83.440	ug/L
|	Cr	52	11296.492	0.00	0.2051	0.042	20.380	ug/L
|	Cr	53	1500.263	0.00	1.4933	0.095	6.384	ug/L
|	Mn	55	15167.313	0.04	1.2198	0.021	1.682	ug/L
|	Co	59	356.677	0.00	0.0299	0.004	14.259	ug/L
|	Ni	60	471.683	0.00	0.1896	0.011	6.051	ug/L
|	Cu	65	557.021	0.00	0.2099	0.024	11.600	ug/L
|	Zn	66	6027.210	0.02	2.1100	0.146	6.925	ug/L
| >	Ge	72	328421.843	328421.84				ug/L
|	As	75	60.522	0.00	0.1932	0.025	12.989	ug/L
|	Se	77	122.667	0.00	0.4356	0.174	40.000	ug/L
|	Se	82	52.960	0.00	0.5785	0.078	13.534	ug/L
⌊	Rb	85	1885.197	0.01				mg/L
	Y	89	226860.501	10823.55				ug/L
	Rh	103	41.000	16.33				ug/L
⌈	Mo	98	223.959	0.00	0.0625	0.009	13.647	ug/L
|	Ag	107	102.335	0.00	0.0126	0.001	9.875	ug/L
|	Cd	114	16.574	0.00	0.0077	0.005	60.900	ug/L
| >	In	115	315638.911	315638.91				ug/L
|	Sn	118	631.620	0.00	0.0257	0.005	17.777	ug/L
⌊	Sb	123	278.491	0.00	0.0743	0.001	1.324	ug/L
⌈	Ba	135	12062.061	0.03	7.2622	0.219	3.017	ug/L
|	Ce	140	563.406	0.00				ug/L
⌊>	Tb	159	399393.629	399393.63				ug/L
⌈	Ho	165	60.006	0.00				ug/L
|	Tl	203	78.001	0.00	0.0187	0.002	10.155	ug/L
|	Tl	205	160.017	0.00	0.0100	0.001	13.513	ug/L
|	Pb	206	4087.544	0.01	0.6852	0.031	4.495	ug/L
|	Pb	207	3558.669	0.01	0.6354	0.018	2.761	ug/L
|	Pb	208	16263.015	0.05	0.6492	0.021	3.271	ug/L
|	U	238	252.672	0.00	0.0047	0.001	16.615	ug/L
⌊>	Bi	209	327521.286	327521.29				ug/L

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 10:47:06
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	164371605.609	1088.23	37.7008	0.271	0.720	mg/L
|	Mg	24	8002624.846	53.04	2.6688	0.033	1.246	mg/L
|	K	39	1546632.610	7.62	0.1922	0.002	1.272	mg/L
|	Ca	43	24589.323	0.16	1.6973	0.047	2.750	mg/L
|	Fe	54	97877.455	0.42	0.1198	0.002	1.474	mg/L
|	Fe	57	28356.369	0.14	0.0935	0.007	7.259	mg/L
⌊>	Sc-1	45	150845.970	150845.97				mg/L
	Cl	35	891299.485	881449.30				mg/L
	Kr	83	81.334	9.33				mg/L
	Br	81	60155.069	54129.91				mg/L
	P	31	34774.431	29041.43				mg/L
	S	34	171239.831	53320.61				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.299			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.888			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.269			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.506			
⌈	Na	23					

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 10:47:06
Page 2

Approved: March 30, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: PBS 76 WG359447-02

Sample Date/Time: Tuesday, March 29, 2011 10:15:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16747.352	0.12				ug/L
|	Be	9	14.000	0.00	0.0808	0.020	24.473	ug/L
|	Al	27	12040.637	0.08	2.1194	0.364	17.170	ug/L
⌊>	Sc	45	143067.259	143067.26				ug/L
⌈	Ti	49	60.006	0.00	0.0340	0.060	177.082	ug/L
|	V	51	2828.558	0.01	0.3842	0.014	3.654	ug/L
|	Cr	52	10257.027	0.03	1.5841	0.001	0.085	ug/L
|	Cr	53	763.439	0.00	1.0667	0.021	1.961	ug/L
|	Mn	55	807.374	0.00	-0.0437	0.002	4.910	ug/L
|	Co	59	130.002	0.00	0.0190	0.001	6.626	ug/L
|	Ni	60	139.669	0.00	0.0657	0.008	12.518	ug/L
|	Cu	65	237.672	0.00	0.1307	0.004	2.783	ug/L
|	Zn	66	3226.553	0.01	0.1064	0.129	121.542	ug/L
|>	Ge	72	322354.414	322354.41				ug/L
|	As	75	-191.348	-0.00	-0.1738	0.015	8.825	ug/L
|	Se	77	82.667	0.00	0.8031	0.286	35.596	ug/L
|	Se	82	-11.702	-0.00	0.0028	0.018	650.976	ug/L
⌊	Rb	85	74.334	0.00				mg/L
	Y	89	228146.265	228146.26				ug/L
	Rh	103	25.667	25.67				ug/L
⌈	Mo	98	71.430	0.00	0.0215	0.001	6.885	ug/L
|	Ag	107	144.336	0.00	0.0246	0.001	3.874	ug/L
|	Cd	114	-1.922	-0.00	-0.0100	0.006	55.966	ug/L
|>	In	115	313168.853	313168.85				ug/L
|	Sn	118	328.807	0.00	-0.0053	0.049	917.347	ug/L
⌊	Sb	123	153.443	0.00	0.0534	0.004	7.147	ug/L
⌈	Ba	135	79.001	0.00	0.0665	0.003	4.677	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	393444.121	393444.12				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	58.334	0.00	0.0202	0.001	6.241	ug/L
|	Tl	205	120.013	0.00	0.0093	0.003	33.011	ug/L
|	Pb	206	328.675	0.00	0.0644	0.002	2.601	ug/L
|	Pb	207	277.007	0.00	0.0636	0.001	0.903	ug/L
|	Pb	208	1278.711	0.00	0.0599	0.000	0.769	ug/L
|	U	238	58.334	0.00	-0.0003	0.000	43.038	ug/L
⌊>	Bi	209	326498.759	326498.76				ug/L

Sample ID: PBS 76 WG359447-02
Report Date/Time: Tuesday, March 29, 2011 10:17:58
Page 1

Approved: March 30, 2011

⌈	Na	23	99317.336	0.69	0.0363	0.001	2.613	mg/L
|	Mg	24	5855.633	0.04	-0.0025	0.000	3.933	mg/L
|	K	39	400759.648	2.80	0.0670	0.002	3.482	mg/L
|	Ca	43	453.389	0.00	0.0292	0.003	10.575	mg/L
|	Fe	54	60913.335	0.43	0.1224	0.007	5.805	mg/L
|	Fe	57	6526.120	0.05	0.0292	0.001	2.476	mg/L
⌊>	Sc-1	45	143067.259	143067.26				mg/L
	Cl	35	22472.558	22472.56				mg/L
	Kr	83	80.668	80.67				mg/L
	Br	81	9723.392	9723.39				mg/L
	P	31	9951.644	9951.64				mg/L
	S	34	133403.313	133403.31				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: PBS 76 WG359447-02
Report Date/Time: Tuesday, March 29, 2011 10:17:58
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 76 WG359447-02
Report Date/Time: Tuesday, March 29, 2011 10:17:58
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: PBS 76 WG359447-02

Sample Date/Time: Tuesday, March 29, 2011 10:15:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16747.352	0.00				ug/L
|	Be	9	14.000	-0.00	0.0191	0.020	103.562	ug/L
|	Al	27	12040.637	0.04	0.8275	0.364	43.974	ug/L
⌊>	Sc	45	143067.259	143067.26				ug/L
⌈	Ti	49	60.006	0.00	-0.0753	0.060	79.866	ug/L
|	V	51	2828.558	-0.00	-0.0011	0.014	1333.910	ug/L
|	Cr	52	10257.027	-0.00	0.0863	0.001	1.554	ug/L
|	Cr	53	763.439	0.00	0.6311	0.021	3.315	ug/L
|	Mn	55	807.374	0.00	-0.0939	0.002	2.284	ug/L
|	Co	59	130.002	0.00	0.0035	0.001	35.669	ug/L
|	Ni	60	139.669	0.00	0.0055	0.008	150.679	ug/L
|	Cu	65	237.672	0.00	0.0368	0.004	9.887	ug/L
|	Zn	66	3226.553	0.01	-0.3793	0.129	34.096	ug/L
|>	Ge	72	322354.414	322354.41				ug/L
|	As	75	-191.348	-0.00	-0.0306	0.015	50.200	ug/L
|	Se	77	82.667	0.00	-0.0013	0.286	22481.031	ug/L
|	Se	82	-11.702	-0.00	-0.0200	0.018	92.456	ug/L
⌊	Rb	85	74.334	0.00				mg/L
	Y	89	228146.265	12109.32				ug/L
	Rh	103	25.667	1.00				ug/L
⌈	Mo	98	71.430	0.00	0.0142	0.001	10.465	ug/L
|	Ag	107	144.336	0.00	0.0194	0.001	4.904	ug/L
|	Cd	114	-1.922	0.00	-0.0063	0.006	88.467	ug/L
|>	In	115	313168.853	313168.85				ug/L
|	Sn	118	328.807	0.00	-0.0378	0.049	129.209	ug/L
⌊	Sb	123	153.443	0.00	0.0459	0.004	8.331	ug/L
⌈	Ba	135	79.001	0.00	0.0241	0.003	12.905	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	393444.121	393444.12				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	58.334	0.00	0.0159	0.001	7.952	ug/L
|	Tl	205	120.013	0.00	0.0077	0.003	39.973	ug/L
|	Pb	206	328.675	0.00	0.0131	0.002	12.821	ug/L
|	Pb	207	277.007	0.00	0.0113	0.001	5.092	ug/L
|	Pb	208	1278.711	0.00	0.0100	0.000	4.632	ug/L
|	U	238	58.334	0.00	-0.0009	0.000	13.657	ug/L
⌊>	Bi	209	326498.759	326498.76				ug/L

Approved: March 30, 2011

⌈	Na	23	99317.336	-0.69	-0.0115	0.001	8.208	mg/L
|	Mg	24	5855.633	0.04	-0.0026	0.000	3.760	mg/L
|	K	39	400759.648	0.17	-0.0016	0.002	147.973	mg/L
|	Ca	43	453.389	0.00	0.0021	0.003	145.339	mg/L
|	Fe	54	60913.335	0.20	0.0540	0.007	13.154	mg/L
|	Fe	57	6526.120	-0.01	-0.0063	0.001	11.573	mg/L
⌊>	Sc-1	45	143067.259	143067.26				mg/L
	Cl	35	22472.558	12622.37				mg/L
	Kr	83	80.668	8.67				mg/L
	Br	81	9723.392	3698.24				mg/L
	P	31	9951.644	4218.64				mg/L
	S	34	133403.313	15484.09				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.372			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.067			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.701			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.183			
⌈	Na	23					

Sample ID: PBS 76 WG359447-02
Report Date/Time: Tuesday, March 29, 2011 10:47:07
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 76 WG359447-02
Report Date/Time: Tuesday, March 29, 2011 10:47:07
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: LCSS 76 WG359447-03

Sample Date/Time: Tuesday, March 29, 2011 10:22:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16914.296	0.11				ug/L
|	Be	9	6632.199	0.04	24.0862	1.015	4.213	ug/L
|	Al	27	131357.399	0.87	25.4004	1.497	5.895	ug/L
⌊>	Sc	45	151912.808	151912.81				ug/L
⌈	Ti	49	100.011	0.00	0.1105	0.054	49.290	ug/L
|	V	51	208584.350	0.63	24.8907	0.447	1.795	ug/L
|	Cr	52	192213.285	0.58	27.0416	0.427	1.580	ug/L
|	Cr	53	22771.510	0.07	27.2786	0.594	2.178	ug/L
|	Mn	55	288265.412	0.88	26.2481	0.492	1.873	ug/L
|	Co	59	218204.845	0.66	25.6772	0.290	1.129	ug/L
|	Ni	60	46468.180	0.14	25.9300	0.395	1.522	ug/L
|	Cu	65	47878.154	0.15	26.2965	0.534	2.029	ug/L
|	Zn	66	31251.739	0.10	25.4717	0.319	1.253	ug/L
|>	Ge	72	328889.051	328889.05				ug/L
|	As	75	27343.534	0.08	23.9072	0.456	1.907	ug/L
|	Se	77	1989.531	0.01	22.3763	0.753	3.367	ug/L
|	Se	82	2492.716	0.01	23.0765	0.627	2.717	ug/L
⌊	Rb	85	64.334	0.00				mg/L
	Y	89	227600.349	227600.35				ug/L
	Rh	103	35.000	35.00				ug/L
⌈	Mo	98	84.097	0.00	0.0253	0.001	4.264	ug/L
|	Ag	107	143622.200	0.45	22.5475	0.275	1.218	ug/L
|	Cd	114	31835.658	0.10	23.8689	0.158	0.661	ug/L
|>	In	115	316360.334	316360.33				ug/L
|	Sn	118	451.610	0.00	0.0197	0.004	19.783	ug/L
⌊	Sb	123	104472.182	0.33	24.0218	0.159	0.662	ug/L
⌈	Ba	135	41522.108	0.10	24.9081	0.106	0.424	ug/L
|	Ce	140	90.009	0.00				ug/L
⌊>	Tb	159	402470.061	402470.06				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	177130.116	0.53	25.0384	0.503	2.007	ug/L
|	Tl	205	428691.413	1.29	24.7494	0.253	1.021	ug/L
|	Pb	206	150259.415	0.45	26.4655	0.402	1.518	ug/L
|	Pb	207	133156.359	0.40	24.9508	0.106	0.423	ug/L
|	Pb	208	609071.995	1.83	25.6006	0.134	0.524	ug/L
|	U	238	914374.390	2.75	25.7040	0.248	0.964	ug/L
⌊>	Bi	209	332618.997	332619.00				ug/L

Sample ID: LCSS 76 WG359447-03
Report Date/Time: Tuesday, March 29, 2011 10:24:43
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	48438.546	0.32	0.0233	0.001	2.258	mg/L
|	Mg	24	12549.124	0.08	-0.0004	0.000	28.991	mg/L
|	K	39	365028.747	2.40	0.0567	0.002	3.962	mg/L
|	Ca	43	496.729	0.00	0.0303	0.005	16.886	mg/L
|	Fe	54	61276.305	0.40	0.1157	0.003	2.494	mg/L
|	Fe	57	6656.213	0.04	0.0280	0.001	3.971	mg/L
⌊>	Sc-1	45	151912.808	151912.81				mg/L
	Cl	35	23181.507	23181.51				mg/L
	Kr	83	73.334	73.33				mg/L
	Br	81	7263.975	7263.97				mg/L
	P	31	9900.239	9900.24				mg/L
	S	34	123617.877	123617.88				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: LCSS 76 WG359447-03
Report Date/Time: Tuesday, March 29, 2011 10:24:43
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 76 WG359447-03
Report Date/Time: Tuesday, March 29, 2011 10:24:43
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: LCSS 76 WG359447-03

Sample Date/Time: Tuesday, March 29, 2011 10:22:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16914.296	-0.00				ug/L
|	Be	9	6632.199	0.04	24.0246	1.015	4.223	ug/L
|	Al	27	131357.399	0.82	24.1085	1.497	6.211	ug/L
⌊>	Sc	45	151912.808	151912.81				ug/L
⌈	Ti	49	100.011	0.00	0.0013	0.054	4195.012	ug/L
|	V	51	208584.350	0.62	24.5055	0.447	1.824	ug/L
|	Cr	52	192213.285	0.55	25.5439	0.427	1.672	ug/L
|	Cr	53	22771.510	0.07	26.8429	0.594	2.213	ug/L
|	Mn	55	288265.412	0.87	26.1978	0.492	1.877	ug/L
|	Co	59	218204.845	0.66	25.6618	0.290	1.130	ug/L
|	Ni	60	46468.180	0.14	25.8697	0.395	1.525	ug/L
|	Cu	65	47878.154	0.15	26.2027	0.534	2.036	ug/L
|	Zn	66	31251.739	0.09	24.9860	0.319	1.277	ug/L
| >	Ge	72	328889.051	328889.05				ug/L
|	As	75	27343.534	0.08	24.0505	0.456	1.895	ug/L
|	Se	77	1989.531	0.01	21.5719	0.753	3.492	ug/L
|	Se	82	2492.716	0.01	23.0537	0.627	2.720	ug/L
⌊	Rb	85	64.334	0.00				mg/L
	Y	89	227600.349	11563.40				ug/L
	Rh	103	35.000	10.33				ug/L
⌈	Mo	98	84.097	0.00	0.0180	0.001	6.012	ug/L
|	Ag	107	143622.200	0.45	22.5423	0.275	1.219	ug/L
|	Cd	114	31835.658	0.10	23.8726	0.158	0.661	ug/L
| >	In	115	316360.334	316360.33				ug/L
|	Sn	118	451.610	0.00	-0.0128	0.004	30.392	ug/L
⌊	Sb	123	104472.182	0.33	24.0142	0.159	0.662	ug/L
⌈	Ba	135	41522.108	0.10	24.8657	0.106	0.425	ug/L
|	Ce	140	90.009	0.00				ug/L
⌊>	Tb	159	402470.061	402470.06				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	177130.116	0.53	25.0341	0.503	2.008	ug/L
|	Tl	205	428691.413	1.29	24.7478	0.253	1.021	ug/L
|	Pb	206	150259.415	0.45	26.4142	0.402	1.521	ug/L
|	Pb	207	133156.359	0.40	24.8985	0.106	0.424	ug/L
|	Pb	208	609071.995	1.83	25.5506	0.134	0.525	ug/L
|	U	238	914374.390	2.75	25.7034	0.248	0.964	ug/L
⌊>	Bi	209	332618.997	332619.00				ug/L

Sample ID: LCSS 76 WG359447-03
Report Date/Time: Tuesday, March 29, 2011 10:47:08
Page 1

Approved: March 30, 2011

⌈	Na	23	48438.546	-1.06	-0.0246	0.001	2.139	mg/L
|	Mg	24	12549.124	0.08	-0.0005	0.000	22.723	mg/L
|	K	39	365028.747	-0.23	-0.0119	0.002	18.800	mg/L
|	Ca	43	496.729	0.00	0.0032	0.005	159.963	mg/L
|	Fe	54	61276.305	0.17	0.0473	0.003	6.104	mg/L
|	Fe	57	6656.213	-0.01	-0.0075	0.001	14.896	mg/L
⌊>	Sc-1	45	151912.808	151912.81				mg/L
	Cl	35	23181.507	13331.32				mg/L
	Kr	83	73.334	1.33				mg/L
	Br	81	7263.975	1238.82				mg/L
	P	31	9900.239	4167.23				mg/L
	S	34	123617.877	5698.66				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.447			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.127			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.080			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.117			
⌈	Na	23					

Sample ID: LCSS 76 WG359447-03
Report Date/Time: Tuesday, March 29, 2011 10:47:08
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 76 WG359447-03
Report Date/Time: Tuesday, March 29, 2011 10:47:08
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061209

Sample Date/Time: Tuesday, March 29, 2011 10:29:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16764.065	0.10				ug/L
|	Be	9	68.000	0.00	0.2564	0.029	11.401	ug/L
|	Al	27	30153475.475	184.65	5500.9223	331.186	6.021	ug/L
⌊>	Sc	45	163458.986	163458.99				ug/L
⌈	Ti	49	60522.166	0.19	121.8754	4.676	3.836	ug/L
|	V	51	174819.439	0.55	21.4435	0.867	4.045	ug/L
|	Cr	52	74998.218	0.23	10.9137	0.598	5.478	ug/L
|	Cr	53	8210.866	0.03	10.1948	0.605	5.933	ug/L
|	Mn	55	2211663.333	6.91	207.7617	11.235	5.408	ug/L
|	Co	59	44414.686	0.14	5.3739	0.252	4.697	ug/L
|	Ni	60	12014.342	0.04	6.8795	0.288	4.190	ug/L
|	Cu	65	18206.434	0.06	10.2741	0.484	4.708	ug/L
|	Zn	66	25093.715	0.08	20.5168	0.640	3.117	ug/L
|>	Ge	72	319962.368	319962.37				ug/L
|	As	75	5417.372	0.02	4.8651	0.220	4.524	ug/L
|	Se	77	84.667	0.00	0.8342	0.160	19.155	ug/L
|	Se	82	-7.125	-0.00	0.0454	0.212	466.709	ug/L
⌊	Rb	85	39120.820	0.12				mg/L
	Y	89	270983.404	270983.40				ug/L
	Rh	103	25.667	25.67				ug/L
⌈	Mo	98	335.333	0.00	0.1087	0.008	7.028	ug/L
|	Ag	107	254.339	0.00	0.0431	0.001	2.444	ug/L
|	Cd	114	45.402	0.00	0.0268	0.008	28.347	ug/L
|>	In	115	305542.675	305542.68				ug/L
|	Sn	118	212.269	0.00	-0.0296	0.002	7.499	ug/L
⌊	Sb	123	83.649	0.00	0.0377	0.001	3.401	ug/L
⌈	Ba	135	98191.547	0.25	61.2676	2.080	3.395	ug/L
|	Ce	140	192815.194	0.50				ug/L
⌊>	Tb	159	386706.057	386706.06				ug/L
⌈	Ho	165	3377.576	0.01				ug/L
|	Tl	203	395.012	0.00	0.0691	0.002	2.801	ug/L
|	Tl	205	940.138	0.00	0.0579	0.005	8.353	ug/L
|	Pb	206	15944.221	0.05	2.8872	0.156	5.420	ug/L
|	Pb	207	13397.118	0.04	2.5862	0.125	4.823	ug/L
|	Pb	208	62717.663	0.19	2.7104	0.115	4.253	ug/L
|	U	238	11144.655	0.03	0.3196	0.008	2.635	ug/L
⌊>	Bi	209	324040.536	324040.54				ug/L

Sample ID: L1103061209
Report Date/Time: Tuesday, March 29, 2011 10:31:28
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	551028.051	3.37	0.1291	0.008	6.403	mg/L
|	Mg	24	4615902.334	28.27	1.4202	0.097	6.839	mg/L
|	K	39	5094533.163	31.19	0.8052	0.044	5.443	mg/L
|	Ca	43	20199.132	0.12	1.3068	0.104	7.983	mg/L
|	Fe	54	4907757.161	30.06	8.8924	0.669	7.521	mg/L
|	Fe	57	2097861.176	12.85	9.0037	0.891	9.894	mg/L
⌊>	Sc-1	45	163458.986	163458.99				mg/L
	Cl	35	15041.305	15041.30				mg/L
	Kr	83	91.001	91.00				mg/L
	Br	81	6591.506	6591.51				mg/L
	P	31	78599.402	78599.40				mg/L
	S	34	118284.265	118284.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: L1103061209
Report Date/Time: Tuesday, March 29, 2011 10:31:28
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061209
Report Date/Time: Tuesday, March 29, 2011 10:31:28
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061209

Sample Date/Time: Tuesday, March 29, 2011 10:29:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16764.065	-0.01				ug/L
|	Be	9	68.000	0.00	0.1948	0.029	15.011	ug/L
|	Al	27	30153475.475	184.60	5499.6305	331.186	6.022	ug/L
⌊>	Sc	45	163458.986	163458.99				ug/L
⌈	Ti	49	60522.166	0.19	121.7661	4.676	3.840	ug/L
|	V	51	174819.439	0.54	21.0583	0.867	4.119	ug/L
|	Cr	52	74998.218	0.20	9.4160	0.598	6.350	ug/L
|	Cr	53	8210.866	0.02	9.7592	0.605	6.198	ug/L
|	Mn	55	2211663.333	6.91	207.7114	11.235	5.409	ug/L
|	Co	59	44414.686	0.14	5.3584	0.252	4.710	ug/L
|	Ni	60	12014.342	0.04	6.8192	0.288	4.227	ug/L
|	Cu	65	18206.434	0.06	10.1802	0.484	4.751	ug/L
|	Zn	66	25093.715	0.08	20.0310	0.640	3.193	ug/L
| >	Ge	72	319962.368	319962.37				ug/L
|	As	75	5417.372	0.02	5.0084	0.220	4.394	ug/L
|	Se	77	84.667	0.00	0.0298	0.160	535.656	ug/L
|	Se	82	-7.125	-0.00	0.0226	0.212	938.252	ug/L
⌊	Rb	85	39120.820	0.12				mg/L
	Y	89	270983.404	54946.46				ug/L
	Rh	103	25.667	1.00				ug/L
⌈	Mo	98	335.333	0.00	0.1014	0.008	7.538	ug/L
|	Ag	107	254.339	0.00	0.0379	0.001	2.778	ug/L
|	Cd	114	45.402	0.00	0.0304	0.008	24.939	ug/L
| >	In	115	305542.675	305542.68				ug/L
|	Sn	118	212.269	0.00	-0.0621	0.002	3.577	ug/L
⌊	Sb	123	83.649	0.00	0.0301	0.001	4.258	ug/L
⌈	Ba	135	98191.547	0.25	61.2252	2.080	3.398	ug/L
|	Ce	140	192815.194	0.50				ug/L
⌊>	Tb	159	386706.057	386706.06				ug/L
⌈	Ho	165	3377.576	0.01				ug/L
|	Tl	203	395.012	0.00	0.0648	0.002	2.989	ug/L
|	Tl	205	940.138	0.00	0.0563	0.005	8.593	ug/L
|	Pb	206	15944.221	0.05	2.8359	0.156	5.518	ug/L
|	Pb	207	13397.118	0.04	2.5339	0.125	4.923	ug/L
|	Pb	208	62717.663	0.19	2.6604	0.115	4.332	ug/L
|	U	238	11144.655	0.03	0.3190	0.008	2.640	ug/L
⌊>	Bi	209	324040.536	324040.54				ug/L

Sample ID: L1103061209
Report Date/Time: Tuesday, March 29, 2011 10:47:10
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	551028.051	1.99	0.0813	0.008	10.172	mg/L	
Mg	24	4615902.334	28.27	1.4201	0.097	6.839	mg/L	
K	39	5094533.163	28.55	0.7366	0.044	5.950	mg/L	
Ca	43	20199.132	0.12	1.2797	0.104	8.153	mg/L	
Fe	54	4907757.161	29.83	8.8240	0.669	7.579	mg/L	
Fe	57	2097861.176	12.80	8.9682	0.891	9.933	mg/L	
> Sc-1	45	163458.986	163458.99				mg/L	
Cl	35	15041.305	5191.12				mg/L	
Kr	83	91.001	19.00				mg/L	
Br	81	6591.506	566.35				mg/L	
P	31	78599.402	72866.40				mg/L	
S	34	118284.265	365.04				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		101.613			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		101.533			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		101.925			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		102.406			
Na	23					

Sample ID: L1103061209
Report Date/Time: Tuesday, March 29, 2011 10:47:10
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061209
Report Date/Time: Tuesday, March 29, 2011 10:47:10

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061212

Sample Date/Time: Tuesday, March 29, 2011 10:36:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17598.825	0.11				ug/L
|	Be	9	62.667	0.00	0.2473	0.051	20.709	ug/L
|	Al	27	23600449.250	149.77	4461.9353	97.445	2.184	ug/L
⌊>	Sc	45	157668.042	157668.04				ug/L
⌈	Ti	49	62604.986	0.20	130.7657	1.010	0.773	ug/L
|	V	51	198808.745	0.64	25.2876	0.503	1.988	ug/L
|	Cr	52	132067.892	0.43	19.8386	0.399	2.012	ug/L
|	Cr	53	14845.831	0.05	19.0043	0.570	2.999	ug/L
|	Mn	55	2212369.965	7.17	215.5917	1.591	0.738	ug/L
|	Co	59	41804.285	0.14	5.2472	0.072	1.369	ug/L
|	Ni	60	10233.338	0.03	6.0758	0.052	0.855	ug/L
|	Cu	65	15974.243	0.05	9.3503	0.044	0.469	ug/L
|	Zn	66	21581.485	0.07	17.9906	0.207	1.150	ug/L
|>	Ge	72	308496.689	308496.69				ug/L
|	As	75	5566.941	0.02	5.1865	0.092	1.774	ug/L
|	Se	77	76.667	0.00	0.7717	0.249	32.252	ug/L
|	Se	82	-8.823	-0.00	0.0252	0.122	484.957	ug/L
⌊	Rb	85	30537.193	0.10				mg/L
	Y	89	253224.507	253224.51				ug/L
	Rh	103	25.000	25.00				ug/L
⌈	Mo	98	7809.521	0.03	2.6353	0.035	1.330	ug/L
|	Ag	107	254.339	0.00	0.0443	0.001	1.894	ug/L
|	Cd	114	24.278	0.00	0.0109	0.005	43.112	ug/L
|>	In	115	296966.179	296966.18				ug/L
|	Sn	118	166.268	0.00	-0.0386	0.005	12.080	ug/L
⌊	Sb	123	168.026	0.00	0.0590	0.006	10.620	ug/L
⌈	Ba	135	79685.020	0.21	50.8532	0.595	1.170	ug/L
|	Ce	140	190465.675	0.50				ug/L
⌊>	Tb	159	378194.724	378194.72				ug/L
⌈	Ho	165	2874.034	0.01				ug/L
|	Tl	203	263.673	0.00	0.0507	0.002	3.310	ug/L
|	Tl	205	716.764	0.00	0.0454	0.003	5.541	ug/L
|	Pb	206	12711.870	0.04	2.3391	0.056	2.398	ug/L
|	Pb	207	10572.025	0.03	2.0749	0.018	0.877	ug/L
|	Pb	208	50334.373	0.16	2.2101	0.020	0.900	ug/L
|	U	238	10687.482	0.03	0.3113	0.004	1.168	ug/L
⌊>	Bi	209	319084.049	319084.05				ug/L

Sample ID: L1103061212
Report Date/Time: Tuesday, March 29, 2011 10:38:14
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	405081.554	2.57	0.1013	0.004	4.320	mg/L
|	Mg	24	4091872.328	25.98	1.3046	0.042	3.203	mg/L
|	K	39	4700636.021	29.85	0.7703	0.032	4.126	mg/L
|	Ca	43	14532.004	0.09	0.9739	0.037	3.805	mg/L
|	Fe	54	5142072.468	32.65	9.6578	0.377	3.900	mg/L
|	Fe	57	2128654.582	13.51	9.4606	0.161	1.697	mg/L
⌊>	Sc-1	45	157668.042	157668.04				mg/L
	Cl	35	14232.122	14232.12				mg/L
	Kr	83	94.668	94.67				mg/L
	Br	81	5887.734	5887.73				mg/L
	P	31	83946.254	83946.25				mg/L
	S	34	117508.348	117508.35				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: L1103061212
Report Date/Time: Tuesday, March 29, 2011 10:38:14
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061212
Report Date/Time: Tuesday, March 29, 2011 10:38:14
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061212

Sample Date/Time: Tuesday, March 29, 2011 10:36:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17598.825	-0.00				ug/L
|	Be	9	62.667	0.00	0.1856	0.051	27.589	ug/L
|	Al	27	23600449.250	149.73	4460.6434	97.445	2.185	ug/L
⌊>	Sc	45	157668.042	157668.04				ug/L
⌈	Ti	49	62604.986	0.20	130.6564	1.010	0.773	ug/L
|	V	51	198808.745	0.63	24.9024	0.503	2.019	ug/L
|	Cr	52	132067.892	0.40	18.3408	0.399	2.177	ug/L
|	Cr	53	14845.831	0.05	18.5686	0.570	3.070	ug/L
|	Mn	55	2212369.965	7.17	215.5414	1.591	0.738	ug/L
|	Co	59	41804.285	0.14	5.2317	0.072	1.373	ug/L
|	Ni	60	10233.338	0.03	6.0156	0.052	0.864	ug/L
|	Cu	65	15974.243	0.05	9.2564	0.044	0.473	ug/L
|	Zn	66	21581.485	0.07	17.5049	0.207	1.182	ug/L
|>	Ge	72	308496.689	308496.69				ug/L
|	As	75	5566.941	0.02	5.3298	0.092	1.726	ug/L
|	Se	77	76.667	0.00	-0.0327	0.249	760.449	ug/L
|	Se	82	-8.823	-0.00	0.0023	0.122	5223.515	ug/L
⌊	Rb	85	30537.193	0.10				mg/L
	Y	89	253224.507	37187.56				ug/L
	Rh	103	25.000	0.33				ug/L
⌈	Mo	98	7809.521	0.03	2.6279	0.035	1.334	ug/L
|	Ag	107	254.339	0.00	0.0391	0.001	2.144	ug/L
|	Cd	114	24.278	0.00	0.0146	0.005	32.308	ug/L
|>	In	115	296966.179	296966.18				ug/L
|	Sn	118	166.268	0.00	-0.0711	0.005	6.566	ug/L
⌊	Sb	123	168.026	0.00	0.0514	0.006	12.190	ug/L
⌈	Ba	135	79685.020	0.21	50.8108	0.595	1.171	ug/L
|	Ce	140	190465.675	0.50				ug/L
⌊>	Tb	159	378194.724	378194.72				ug/L
⌈	Ho	165	2874.034	0.01				ug/L
|	Tl	203	263.673	0.00	0.0463	0.002	3.621	ug/L
|	Tl	205	716.764	0.00	0.0438	0.003	5.746	ug/L
|	Pb	206	12711.870	0.04	2.2877	0.056	2.452	ug/L
|	Pb	207	10572.025	0.03	2.0226	0.018	0.900	ug/L
|	Pb	208	50334.373	0.15	2.1602	0.020	0.921	ug/L
|	U	238	10687.482	0.03	0.3107	0.004	1.171	ug/L
⌊>	Bi	209	319084.049	319084.05				ug/L

Sample ID: L1103061212
Report Date/Time: Tuesday, March 29, 2011 10:47:11
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	405081.554	1.19	0.0535	0.004	8.184	mg/L
|	Mg	24	4091872.328	25.97	1.3044	0.042	3.203	mg/L
|	K	39	4700636.021	27.21	0.7017	0.032	4.529	mg/L
|	Ca	43	14532.004	0.09	0.9468	0.037	3.914	mg/L
|	Fe	54	5142072.468	32.42	9.5894	0.377	3.928	mg/L
|	Fe	57	2128654.582	13.46	9.4251	0.161	1.704	mg/L
⌊>	Sc-1	45	157668.042	157668.04				mg/L
	Cl	35	14232.122	4381.94				mg/L
	Kr	83	94.668	22.67				mg/L
	Br	81	5887.734	-137.42				mg/L
	P	31	83946.254	78213.25				mg/L
	S	34	117508.348	-410.87				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.971			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.683			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.682			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.840			
⌈	Na	23					

Sample ID: L1103061212
Report Date/Time: Tuesday, March 29, 2011 10:47:11
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061213

Sample Date/Time: Tuesday, March 29, 2011 10:42:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17715.715	0.11				ug/L
|	Be	9	83.334	0.00	0.3118	0.019	6.238	ug/L
|	Al	27	30503819.526	189.29	5639.3674	187.675	3.328	ug/L
⌊>	Sc	45	161240.252	161240.25				ug/L
⌈	Ti	49	73462.845	0.23	149.3584	0.981	0.657	ug/L
|	V	51	196256.350	0.62	24.2963	0.148	0.609	ug/L
|	Cr	52	77868.145	0.25	11.4339	0.202	1.766	ug/L
|	Cr	53	8647.942	0.03	10.8303	0.510	4.706	ug/L
|	Mn	55	2629751.865	8.30	249.4102	1.438	0.577	ug/L
|	Co	59	48412.735	0.15	5.9128	0.051	0.864	ug/L
|	Ni	60	12098.769	0.04	6.9939	0.033	0.475	ug/L
|	Cu	65	20398.656	0.06	11.6210	0.142	1.223	ug/L
|	Zn	66	32728.802	0.10	27.9238	0.219	0.784	ug/L
|>	Ge	72	316977.192	316977.19				ug/L
|	As	75	4688.144	0.01	4.2497	0.086	2.025	ug/L
|	Se	77	70.667	0.00	0.6790	0.052	7.697	ug/L
|	Se	82	-3.423	-0.00	0.0805	0.147	182.383	ug/L
⌊	Rb	85	46754.177	0.15				mg/L
	Y	89	267309.147	267309.15				ug/L
	Rh	103	27.334	27.33				ug/L
⌈	Mo	98	368.668	0.00	0.1215	0.004	2.917	ug/L
|	Ag	107	332.009	0.00	0.0565	0.003	4.794	ug/L
|	Cd	114	65.819	0.00	0.0434	0.014	32.334	ug/L
|>	In	115	300902.703	300902.70				ug/L
|	Sn	118	173.201	0.00	-0.0376	0.000	0.876	ug/L
⌊	Sb	123	131.067	0.00	0.0495	0.005	9.355	ug/L
⌈	Ba	135	114837.809	0.30	72.1075	1.063	1.474	ug/L
|	Ce	140	225271.494	0.59				ug/L
⌊>	Tb	159	384344.636	384344.64				ug/L
⌈	Ho	165	3570.995	0.01				ug/L
|	Tl	203	391.678	0.00	0.0685	0.004	5.288	ug/L
|	Tl	205	1003.485	0.00	0.0616	0.007	10.722	ug/L
|	Pb	206	32246.567	0.10	5.8247	0.093	1.593	ug/L
|	Pb	207	27033.432	0.08	5.1998	0.100	1.931	ug/L
|	Pb	208	126222.652	0.39	5.4410	0.061	1.128	ug/L
|	U	238	12962.527	0.04	0.3715	0.009	2.502	ug/L
⌊>	Bi	209	324588.197	324588.20				ug/L

Sample ID: L1103061213
Report Date/Time: Tuesday, March 29, 2011 10:44:59
Page 1

Approved: March 30, 2011

⌈	Na	23	402784.537	2.50	0.0988	0.002	2.182	mg/L
|	Mg	24	4526432.186	28.09	1.4113	0.056	4.001	mg/L
|	K	39	6489604.858	40.28	1.0416	0.048	4.645	mg/L
|	Ca	43	22804.922	0.14	1.4959	0.037	2.475	mg/L
|	Fe	54	5139111.636	31.88	9.4314	0.163	1.723	mg/L
|	Fe	57	2164957.518	13.44	9.4113	0.381	4.044	mg/L
⌊>	Sc-1	45	161240.252	161240.25				mg/L
	Cl	35	16928.988	16928.99				mg/L
	Kr	83	87.001	87.00				mg/L
	Br	81	6125.876	6125.88				mg/L
	P	31	94123.642	94123.64				mg/L
	S	34	104515.630	104515.63				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: L1103061213
Report Date/Time: Tuesday, March 29, 2011 10:44:59
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061213
Report Date/Time: Tuesday, March 29, 2011 10:44:59

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061213

Sample Date/Time: Tuesday, March 29, 2011 10:42:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17715.715	-0.00				ug/L
|	Be	9	83.334	0.00	0.2502	0.019	7.776	ug/L
|	Al	27	30503819.526	189.25	5638.0756	187.675	3.329	ug/L
|>	Sc	45	161240.252	161240.25				ug/L
⌈	Ti	49	73462.845	0.23	149.2492	0.981	0.657	ug/L
|	V	51	196256.350	0.61	23.9111	0.148	0.618	ug/L
|	Cr	52	77868.145	0.21	9.9361	0.202	2.032	ug/L
|	Cr	53	8647.942	0.03	10.3946	0.510	4.903	ug/L
|	Mn	55	2629751.865	8.29	249.3600	1.438	0.577	ug/L
|	Co	59	48412.735	0.15	5.8973	0.051	0.867	ug/L
|	Ni	60	12098.769	0.04	6.9336	0.033	0.479	ug/L
|	Cu	65	20398.656	0.06	11.5271	0.142	1.233	ug/L
|	Zn	66	32728.802	0.10	27.4380	0.219	0.798	ug/L
|>	Ge	72	316977.192	316977.19				ug/L
|	As	75	4688.144	0.02	4.3930	0.086	1.959	ug/L
|	Se	77	70.667	0.00	-0.1254	0.052	41.683	ug/L
|	Se	82	-3.423	-0.00	0.0576	0.147	254.632	ug/L
⌊	Rb	85	46754.177	0.15				mg/L
	Y	89	267309.147	51272.20				ug/L
	Rh	103	27.334	2.67				ug/L
⌈	Mo	98	368.668	0.00	0.1142	0.004	3.105	ug/L
|	Ag	107	332.009	0.00	0.0514	0.003	5.276	ug/L
|	Cd	114	65.819	0.00	0.0471	0.014	29.821	ug/L
|>	In	115	300902.703	300902.70				ug/L
|	Sn	118	173.201	0.00	-0.0701	0.000	0.470	ug/L
⌊	Sb	123	131.067	0.00	0.0419	0.005	11.051	ug/L
⌈	Ba	135	114837.809	0.30	72.0651	1.063	1.475	ug/L
|	Ce	140	225271.494	0.59				ug/L
|>	Tb	159	384344.636	384344.64				ug/L
⌈	Ho	165	3570.995	0.01				ug/L
|	Tl	203	391.678	0.00	0.0642	0.004	5.647	ug/L
|	Tl	205	1003.485	0.00	0.0599	0.007	11.012	ug/L
|	Pb	206	32246.567	0.10	5.7733	0.093	1.607	ug/L
|	Pb	207	27033.432	0.08	5.1475	0.100	1.951	ug/L
|	Pb	208	126222.652	0.39	5.3910	0.061	1.138	ug/L
|	U	238	12962.527	0.04	0.3709	0.009	2.506	ug/L
|>	Bi	209	324588.197	324588.20				ug/L

Sample ID: L1103061213
Report Date/Time: Tuesday, March 29, 2011 10:47:12
Page 1

Approved: March 30, 2011

⌈	Na	23	402784.537	1.12	0.0509	0.002	4.231	mg/L
|	Mg	24	4526432.186	28.09	1.4112	0.056	4.001	mg/L
|	K	39	6489604.858	37.65	0.9730	0.048	4.973	mg/L
|	Ca	43	22804.922	0.14	1.4688	0.037	2.520	mg/L
|	Fe	54	5139111.636	31.65	9.3630	0.163	1.736	mg/L
|	Fe	57	2164957.518	13.39	9.3758	0.381	4.060	mg/L
⌊>	Sc-1	45	161240.252	161240.25				mg/L
	Cl	35	16928.988	7078.80				mg/L
	Kr	83	87.001	15.00				mg/L
	Br	81	6125.876	100.72				mg/L
	P	31	94123.642	88390.64				mg/L
	S	34	104515.630	-13403.59				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.664			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.991			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.303			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.580			
⌈	Na	23					

Sample ID: L1103061213
Report Date/Time: Tuesday, March 29, 2011 10:47:12

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061213
Report Date/Time: Tuesday, March 29, 2011 10:47:12
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061214

Sample Date/Time: Tuesday, March 29, 2011 10:49:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 17
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16897.643	-0.01				ug/L
|	Be	9	61.334	0.00	0.1800	0.019	10.529	ug/L
|	Al	27	24731105.050	157.53	4692.9416	175.462	3.739	ug/L
⌊>	Sc	45	157057.684	157057.68				ug/L
⌈	Ti	49	44255.499	0.14	89.1514	2.401	2.693	ug/L
|	V	51	160807.629	0.49	19.3787	0.214	1.106	ug/L
|	Cr	52	65044.168	0.17	8.0003	0.004	0.050	ug/L
|	Cr	53	6999.816	0.02	8.2916	0.203	2.448	ug/L
|	Mn	55	2590294.543	8.11	243.7470	1.311	0.538	ug/L
|	Co	59	45006.510	0.14	5.4398	0.054	0.987	ug/L
|	Ni	60	10154.589	0.03	5.7628	0.102	1.769	ug/L
|	Cu	65	17552.571	0.05	9.8296	0.234	2.381	ug/L
|	Zn	66	24823.020	0.08	19.8199	0.122	0.616	ug/L
| >	Ge	72	319408.412	319408.41				ug/L
|	As	75	3712.093	0.01	3.4819	0.013	0.376	ug/L
|	Se	77	76.667	0.00	-0.0622	0.192	308.110	ug/L
|	Se	82	-4.374	-0.00	0.0480	0.230	479.047	ug/L
⌊	Rb	85	35779.587	0.11				mg/L
	Y	89	255074.291	39037.34				ug/L
	Rh	103	25.667	1.00				ug/L
⌈	Mo	98	227.813	0.00	0.0672	0.003	4.591	ug/L
|	Ag	107	287.674	0.00	0.0440	0.002	3.859	ug/L
|	Cd	114	47.707	0.00	0.0328	0.003	9.043	ug/L
| >	In	115	301019.351	301019.35				ug/L
|	Sn	118	228.669	0.00	-0.0577	0.001	1.884	ug/L
⌊	Sb	123	94.941	0.00	0.0331	0.001	3.444	ug/L
⌈	Ba	135	85766.424	0.22	53.8697	0.753	1.398	ug/L
|	Ce	140	194329.491	0.51				ug/L
⌊>	Tb	159	383957.706	383957.71				ug/L
⌈	Ho	165	3027.428	0.01				ug/L
|	Tl	203	282.674	0.00	0.0480	0.004	9.130	ug/L
|	Tl	205	606.746	0.00	0.0362	0.006	17.112	ug/L
|	Pb	206	12793.975	0.04	2.2417	0.041	1.828	ug/L
|	Pb	207	10676.804	0.03	1.9890	0.025	1.248	ug/L
|	Pb	208	50111.488	0.15	2.0935	0.014	0.662	ug/L
|	U	238	9383.495	0.03	0.2653	0.003	1.273	ug/L
⌊>	Bi	209	327579.260	327579.26				ug/L

Sample ID: L1103061214
Report Date/Time: Tuesday, March 29, 2011 10:51:45
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	392021.667	1.12	0.0509	0.002	4.226	mg/L
|	Mg	24	4195696.448	26.72	1.3423	0.038	2.809	mg/L
|	K	39	4864733.400	28.35	0.7313	0.020	2.778	mg/L
|	Ca	43	16742.367	0.10	1.1004	0.089	8.104	mg/L
|	Fe	54	4484407.816	28.34	8.3822	0.275	3.275	mg/L
|	Fe	57	1923222.802	12.20	8.5475	0.372	4.350	mg/L
⌊>	Sc-1	45	157057.684	157057.68				mg/L
	Cl	35	12734.774	2884.59				mg/L
	Kr	83	81.334	9.33				mg/L
	Br	81	6271.968	246.81				mg/L
	P	31	106826.936	101093.93				mg/L
	S	34	113392.274	-4526.95				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.437			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.030			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.201			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.525			
⌈	Na	23					

Sample ID: L1103061214
Report Date/Time: Tuesday, March 29, 2011 10:51:45
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061214
Report Date/Time: Tuesday, March 29, 2011 10:51:45
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061217

Sample Date/Time: Tuesday, March 29, 2011 10:56:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17348.428	0.00				ug/L
|	Be	9	58.000	0.00	0.1749	0.032	18.155	ug/L
|	Al	27	21100266.704	139.07	4143.1401	294.558	7.110	ug/L
⌊>	Sc	45	151895.647	151895.65				ug/L
⌈	Ti	49	46351.947	0.15	96.1214	4.359	4.535	ug/L
|	V	51	153041.858	0.48	18.9758	0.068	0.358	ug/L
|	Cr	52	54173.554	0.14	6.6616	0.060	0.897	ug/L
|	Cr	53	5922.348	0.02	7.1820	0.347	4.832	ug/L
|	Mn	55	1814536.839	5.85	175.7036	1.440	0.819	ug/L
|	Co	59	37557.775	0.12	4.6709	0.043	0.919	ug/L
|	Ni	60	9162.621	0.03	5.3467	0.068	1.270	ug/L
|	Cu	65	15420.369	0.05	8.8789	0.138	1.557	ug/L
|	Zn	66	24539.652	0.08	20.2266	0.135	0.668	ug/L
|>	Ge	72	310317.357	310317.36				ug/L
|	As	75	3858.128	0.01	3.7151	0.042	1.144	ug/L
|	Se	77	72.667	0.00	-0.0841	0.245	290.808	ug/L
|	Se	82	-7.067	-0.00	0.0209	0.261	1243.667	ug/L
⌊	Rb	85	41160.279	0.13				mg/L
	Y	89	252592.329	36555.38				ug/L
	Rh	103	19.000	-5.67				ug/L
⌈	Mo	98	254.736	0.00	0.0784	0.004	4.570	ug/L
|	Ag	107	258.673	0.00	0.0404	0.002	4.900	ug/L
|	Cd	114	79.333	0.00	0.0594	0.013	22.717	ug/L
|>	In	115	293231.370	293231.37				ug/L
|	Sn	118	182.135	0.00	-0.0670	0.002	2.677	ug/L
⌊	Sb	123	81.693	0.00	0.0305	0.002	5.004	ug/L
⌈	Ba	135	86002.787	0.23	55.4574	0.372	0.670	ug/L
|	Ce	140	187412.196	0.50				ug/L
⌊>	Tb	159	373973.322	373973.32				ug/L
⌈	Ho	165	3010.754	0.01				ug/L
|	Tl	203	345.676	0.00	0.0583	0.002	3.781	ug/L
|	Tl	205	783.443	0.00	0.0477	0.005	9.632	ug/L
|	Pb	206	20080.008	0.06	3.6342	0.004	0.124	ug/L
|	Pb	207	16957.870	0.05	3.2641	0.006	0.187	ug/L
|	Pb	208	79167.193	0.24	3.4178	0.031	0.917	ug/L
|	U	238	10667.795	0.03	0.3096	0.003	0.876	ug/L
⌊>	Bi	209	319591.326	319591.33				ug/L

Sample ID: L1103061217
Report Date/Time: Tuesday, March 29, 2011 10:58:32
Page 1

Approved: March 30, 2011

⌈	Na	23	1196247.667	6.50	0.2374	0.013	5.364	mg/L
|	Mg	24	3850166.433	25.37	1.2742	0.071	5.549	mg/L
|	K	39	3766261.740	22.18	0.5708	0.025	4.404	mg/L
|	Ca	43	17984.630	0.12	1.2250	0.061	4.950	mg/L
|	Fe	54	3913253.761	25.55	7.5580	0.298	3.941	mg/L
|	Fe	57	1692105.718	11.09	7.7704	0.187	2.408	mg/L
⌊>	Sc-1	45	151895.647	151895.65				mg/L
	Cl	35	14195.403	4345.22				mg/L
	Kr	83	84.335	12.33				mg/L
	Br	81	5606.239	-418.92				mg/L
	P	31	68786.453	63053.45				mg/L
	S	34	107324.886	-10594.33				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.549			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.442			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.569			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.000			
⌈	Na	23					

Sample ID: L1103061217
Report Date/Time: Tuesday, March 29, 2011 10:58:32
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061218

Sample Date/Time: Tuesday, March 29, 2011 11:03:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 19
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16864.233	-0.00				ug/L
|	Be	9	46.000	0.00	0.1315	0.039	29.693	ug/L
|	Al	27	22644965.474	148.48	4423.2689	230.538	5.212	ug/L
⌊>	Sc	45	152538.111	152538.11				ug/L
⌈	Ti	49	67070.997	0.22	138.6158	4.223	3.047	ug/L
|	V	51	149303.720	0.47	18.4297	0.432	2.346	ug/L
|	Cr	52	45064.115	0.11	5.2832	0.158	2.999	ug/L
|	Cr	53	4621.531	0.01	5.5172	0.263	4.762	ug/L
|	Mn	55	2043455.717	6.56	197.1128	4.907	2.489	ug/L
|	Co	59	34532.883	0.11	4.2768	0.109	2.556	ug/L
|	Ni	60	7952.241	0.03	4.6123	0.117	2.539	ug/L
|	Cu	65	15045.467	0.05	8.6266	0.314	3.640	ug/L
|	Zn	66	21864.429	0.07	17.5704	0.110	0.624	ug/L
|>	Ge	72	311568.129	311568.13				ug/L
|	As	75	2716.033	0.01	2.6470	0.127	4.790	ug/L
|	Se	77	74.000	0.00	-0.0710	0.091	128.070	ug/L
|	Se	82	-9.389	-0.00	-0.0009	0.130	15132.031	ug/L
⌊	Rb	85	42461.396	0.14				mg/L
	Y	89	252769.844	36732.90				ug/L
	Rh	103	22.667	-2.00				ug/L
⌈	Mo	98	287.550	0.00	0.0886	0.002	2.282	ug/L
|	Ag	107	221.005	0.00	0.0336	0.003	8.162	ug/L
|	Cd	114	30.354	0.00	0.0195	0.007	36.946	ug/L
|>	In	115	296316.620	296316.62				ug/L
|	Sn	118	201.469	0.00	-0.0631	0.004	5.847	ug/L
⌊	Sb	123	43.984	0.00	0.0210	0.001	6.113	ug/L
⌈	Ba	135	87083.806	0.23	55.2179	1.041	1.885	ug/L
|	Ce	140	202724.803	0.53				ug/L
⌊>	Tb	159	380316.841	380316.84				ug/L
⌈	Ho	165	3014.089	0.01				ug/L
|	Tl	203	362.677	0.00	0.0604	0.002	3.592	ug/L
|	Tl	205	840.120	0.00	0.0507	0.006	12.297	ug/L
|	Pb	206	17360.233	0.05	3.1105	0.079	2.532	ug/L
|	Pb	207	14593.122	0.04	2.7806	0.069	2.476	ug/L
|	Pb	208	68630.868	0.21	2.9331	0.064	2.175	ug/L
|	U	238	10928.078	0.03	0.3146	0.006	1.889	ug/L
⌊>	Bi	209	322168.641	322168.64				ug/L

Sample ID: L1103061218
Report Date/Time: Tuesday, March 29, 2011 11:05:19
Page 1

Approved: March 30, 2011

⌈	Na	23	1121961.311	5.98	0.2192	0.010	4.617	mg/L
|	Mg	24	3118862.449	20.45	1.0262	0.050	4.854	mg/L
|	K	39	3776386.690	22.13	0.5695	0.020	3.512	mg/L
|	Ca	43	16902.638	0.11	1.1435	0.036	3.127	mg/L
|	Fe	54	3703745.165	24.06	7.1159	0.253	3.558	mg/L
|	Fe	57	1592342.728	10.39	7.2768	0.125	1.715	mg/L
⌊>	Sc-1	45	152538.111	152538.11				mg/L
	Cl	35	14761.555	4911.37				mg/L
	Kr	83	83.001	11.00				mg/L
	Br	81	5774.334	-250.82				mg/L
	P	31	65336.142	59603.14				mg/L
	S	34	100444.020	-17475.20				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.947			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.467			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.241			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.815			
⌈	Na	23					

Sample ID: L1103061218
Report Date/Time: Tuesday, March 29, 2011 11:05:19
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Data not used.

Method 6020 - Summary Report

Sample ID: L1103061218PS WG360149-01

Sample Date/Time: Tuesday, March 29, 2011 11:09:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 20
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17515.327	0.00				ug/L
|	Be	9	64.667	0.00	0.1984	0.049	24.640	ug/L
|	Al	27	23584524.520	154.27	4595.7972	59.852	1.302	ug/L
⌊>	Sc	45	152825.690	152825.69				ug/L
⌈	Ti	49	70095.456	0.22	143.7855	6.375	4.433	ug/L
|	V	51	155615.101	0.49	19.0757	0.592	3.105	ug/L
|	Cr	52	46840.274	0.12	5.4932	0.122	2.228	ug/L
|	Cr	53	4901.694	0.01	5.8220	0.388	6.656	ug/L
|	Mn	55	2151010.218	6.85	205.9123	6.997	3.398	ug/L
|	Co	59	36281.108	0.12	4.4596	0.141	3.168	ug/L
|	Ni	60	8406.954	0.03	4.8420	0.182	3.767	ug/L
|	Cu	65	15857.726	0.05	9.0272	0.173	1.914	ug/L
|	Zn	66	22007.087	0.07	17.5479	0.449	2.559	ug/L
|>	Ge	72	313921.818	313921.82				ug/L
|	As	75	2958.468	0.01	2.8501	0.036	1.269	ug/L
|	Se	77	76.000	0.00	-0.0541	0.083	153.874	ug/L
|	Se	82	7.287	0.00	0.1605	0.198	123.172	ug/L
⌊	Rb	85	44636.205	0.14				mg/L
	Y	89	258524.790	42487.84				ug/L
	Rh	103	23.334	-1.33				ug/L
⌈	Mo	98	325.520	0.00	0.1003	0.004	4.036	ug/L
|	Ag	107	251.006	0.00	0.0382	0.002	4.028	ug/L
|	Cd	114	31.390	0.00	0.0201	0.009	44.021	ug/L
|>	In	115	299308.749	299308.75				ug/L
|	Sn	118	165.468	0.00	-0.0716	0.002	2.483	ug/L
⌊	Sb	123	52.942	0.00	0.0231	0.001	5.355	ug/L
⌈	Ba	135	90985.440	0.24	57.2178	0.915	1.598	ug/L
|	Ce	140	209789.157	0.55				ug/L
⌊>	Tb	159	383430.746	383430.75				ug/L
⌈	Ho	165	3354.231	0.01				ug/L
|	Tl	203	375.677	0.00	0.0622	0.004	5.911	ug/L
|	Tl	205	950.140	0.00	0.0572	0.002	2.738	ug/L
|	Pb	206	18126.268	0.06	3.2450	0.060	1.857	ug/L
|	Pb	207	15169.320	0.05	2.8877	0.042	1.452	ug/L
|	Pb	208	71283.993	0.22	3.0440	0.046	1.502	ug/L
|	U	238	11318.851	0.04	0.3256	0.010	3.022	ug/L
⌊>	Bi	209	322604.888	322604.89				ug/L

Sample ID: L1103061218PS WG360149-01
Report Date/Time: Tuesday, March 29, 2011 11:12:06
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	1122988.567	5.97	0.2189	0.001	0.589	mg/L
Mg	24	3223325.011	21.09	1.0583	0.005	0.507	mg/L
K	39	3973713.422	23.36	0.6016	0.012	2.052	mg/L
Ca	43	17390.237	0.11	1.1745	0.079	6.705	mg/L
Fe	54	4005203.113	25.98	7.6831	0.117	1.528	mg/L
Fe	57	1700215.301	11.07	7.7549	0.193	2.485	mg/L
Sc-1	45	152825.690	152825.69				mg/L
Cl	35	15615.517	5765.33				mg/L
Kr	83	82.001	10.00				mg/L
Br	81	5633.586	-391.57				mg/L
P	31	67836.699	62103.69				mg/L
S	34	109213.937	-8705.28				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		99.694			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		99.461			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		101.062			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		101.953			
Na	23					

Sample ID: L1103061218PS WG360149-01
Report Date/Time: Tuesday, March 29, 2011 11:12:06
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061218PS WG360149-01
Report Date/Time: Tuesday, March 29, 2011 11:12:06
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 11:16:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15929.365	0.01				ug/L
|	Be	9	13558.521	0.10	56.7949	2.259	3.977	ug/L
|	Al	27	240713.048	1.79	52.9269	2.533	4.786	ug/L
⌊>	Sc	45	131442.120	131442.12				ug/L
⌈	Ti	49	47269.555	0.15	96.6611	2.475	2.561	ug/L
|	V	51	395668.227	1.25	48.9112	0.534	1.093	ug/L
|	Cr	52	348024.926	1.07	49.5583	0.188	0.379	ug/L
|	Cr	53	40412.216	0.13	50.0311	0.990	1.979	ug/L
|	Mn	55	526686.881	1.67	50.1698	0.734	1.463	ug/L
|	Co	59	410378.314	1.30	50.4448	0.642	1.274	ug/L
|	Ni	60	87147.653	0.28	50.7679	0.511	1.006	ug/L
|	Cu	65	89498.642	0.28	51.2711	0.683	1.332	ug/L
|	Zn	66	56158.487	0.18	49.8742	0.717	1.437	ug/L
| >	Ge	72	314695.744	314695.74				ug/L
|	As	75	55717.662	0.18	51.0491	0.604	1.183	ug/L
|	Se	77	4478.336	0.01	52.0512	0.314	0.603	ug/L
|	Se	82	5434.587	0.02	52.3987	1.003	1.915	ug/L
⌊	Rb	85	2143.918	0.01				mg/L
	Y	89	216799.701	762.75				ug/L
	Rh	103	44.334	19.67				ug/L
⌈	Mo	98	299610.659	0.99	99.2459	1.367	1.377	ug/L
|	Ag	107	303810.295	1.00	49.8488	0.796	1.597	ug/L
|	Cd	114	64049.018	0.21	50.2041	0.808	1.610	ug/L
| >	In	115	302668.910	302668.91				ug/L
|	Sn	118	226799.310	0.75	50.2623	0.687	1.366	ug/L
⌊	Sb	123	211054.933	0.70	50.6960	0.613	1.210	ug/L
⌈	Ba	135	79321.491	0.21	49.7248	0.902	1.813	ug/L
|	Ce	140	80.008	0.00				ug/L
⌊>	Tb	159	384706.009	384706.01				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	338304.132	1.06	49.9487	0.470	0.941	ug/L
|	Tl	205	846500.523	2.66	51.0571	0.749	1.467	ug/L
|	Pb	206	274183.072	0.86	50.4002	0.405	0.803	ug/L
|	Pb	207	257988.256	0.81	50.4484	0.768	1.522	ug/L
|	Pb	208	1154540.638	3.62	50.6481	0.349	0.690	ug/L
|	U	238	1899264.231	5.97	55.7848	0.642	1.151	ug/L
⌊>	Bi	209	318350.187	318350.19				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 11:18:53
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	20222281.593	152.57	5.2962	0.169	3.185	mg/L
Mg	24	13861532.606	105.56	5.3153	0.258	4.860	mg/L
K	39	26742749.275	200.98	5.2202	0.213	4.074	mg/L
Ca	43	66087.664	0.50	5.3013	0.101	1.898	mg/L
Fe	54	2509776.373	18.88	5.5833	0.234	4.191	mg/L
Fe	57	1054448.138	7.98	5.5861	0.188	3.367	mg/L
> Sc-1	45	131442.120	131442.12				mg/L
Cl	35	12347.621	2497.44				mg/L
Kr	83	75.001	3.00				mg/L
Br	81	5767.663	-257.49				mg/L
P	31	4955.900	-777.10				mg/L
S	34	132592.209	14672.99				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	97.822				
Cr	52	99.117				
Cr	53					
Mn	55	100.340				
Co	59	100.890				
Ni	60	101.536				
Cu	65	102.542				
Zn	66	99.748				
> Ge	72		99.940			
As	75	102.098				
Se	77					
Se	82	104.797				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	99.698				
Cd	114	100.408				
> In	115		100.578			
Sn	118					
Sb	123	101.392				
Ba	135	99.450				
Ce	140					
> Tb	159		101.398			
Ho	165					
Tl	203	99.897				
Tl	205					
Pb	206					
Pb	207					
Pb	208	101.296				
U	238	111.570				
> Bi	209		100.608			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 11:18:53

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 11:18:53
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 11:23:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16830.868	0.01				ug/L
|	Be	9	14.000	-0.00	0.0193	0.015	76.929	ug/L
|	Al	27	5468.166	-0.00	-0.5460	0.081	14.927	ug/L
⌊>	Sc	45	142542.199	142542.20				ug/L
⌈	Ti	49	40.004	-0.00	-0.1164	0.052	44.343	ug/L
|	V	51	2452.758	-0.00	-0.0500	0.009	16.996	ug/L
|	Cr	52	8217.791	-0.01	-0.2180	0.020	8.945	ug/L
|	Cr	53	303.368	-0.00	0.0676	0.030	44.879	ug/L
|	Mn	55	539.687	-0.00	-0.1195	0.002	2.054	ug/L
|	Co	59	98.668	-0.00	-0.0004	0.002	451.476	ug/L
|	Ni	60	101.668	-0.00	-0.0168	0.003	17.739	ug/L
|	Cu	65	155.336	-0.00	-0.0103	0.008	78.846	ug/L
|	Zn	66	477.683	-0.00	-2.9279	0.013	0.458	ug/L
|>	Ge	72	325978.947	325978.95				ug/L
|	As	75	-104.449	0.00	0.0479	0.053	110.882	ug/L
|	Se	77	63.334	-0.00	-0.2323	0.034	14.451	ug/L
|	Se	82	10.745	0.00	0.1895	0.161	84.864	ug/L
⌊	Rb	85	41.334	0.00				mg/L
	Y	89	223580.713	7543.76				ug/L
	Rh	103	25.000	0.33				ug/L
⌈	Mo	98	136.545	0.00	0.0349	0.004	10.155	ug/L
|	Ag	107	45.334	0.00	0.0037	0.001	33.182	ug/L
|	Cd	114	-5.410	-0.00	-0.0089	0.000	4.307	ug/L
|>	In	115	313809.714	313809.71				ug/L
|	Sn	118	238.270	0.00	-0.0577	0.006	10.870	ug/L
⌊	Sb	123	60.024	0.00	0.0241	0.001	4.628	ug/L
⌈	Ba	135	46.001	-0.00	0.0035	0.006	163.992	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	398336.589	398336.59				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	54.001	0.00	0.0152	0.001	6.954	ug/L
|	Tl	205	116.679	0.00	0.0075	0.002	24.568	ug/L
|	Pb	206	278.007	-0.00	0.0039	0.003	71.418	ug/L
|	Pb	207	271.006	-0.00	0.0101	0.002	22.701	ug/L
|	Pb	208	1147.037	-0.00	0.0043	0.001	25.629	ug/L
|	U	238	93.001	0.00	0.0001	0.000	217.953	ug/L
⌊>	Bi	209	326923.889	326923.89				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 11:25:38
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	189878.063	-0.05	0.0105	0.001	11.856	mg/L
Mg	24	583.409	0.00	-0.0045	0.000	0.193	mg/L
K	39	356250.008	-0.14	-0.0095	0.001	11.677	mg/L
Ca	43	356.709	-0.00	-0.0050	0.005	98.251	mg/L
Fe	54	33361.063	0.00	-0.0029	0.001	49.066	mg/L
Fe	57	6235.903	-0.01	-0.0075	0.001	18.538	mg/L
Sc-1	45	142542.199	142542.20				mg/L
Cl	35	10844.544	994.36				mg/L
Kr	83	67.668	-4.33				mg/L
Br	81	5829.037	-196.12				mg/L
P	31	5726.318	-6.69				mg/L
S	34	112171.775	-5747.45				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		103.523			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		104.280			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		104.991			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		103.318			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 11:25:38
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 11:25:38
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061218SDL WG360149-02

Sample Date/Time: Tuesday, March 29, 2011 11:30:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17799.232	0.01				ug/L
|	Be	9	18.667	0.00	0.0387	0.024	61.696	ug/L
|	Al	27	4542653.527	32.38	964.2983	14.860	1.541	ug/L
⌊>	Sc	45	140108.024	140108.02				ug/L
⌈	Ti	49	13720.796	0.04	26.9635	1.582	5.867	ug/L
|	V	51	31700.121	0.09	3.4666	0.060	1.722	ug/L
|	Cr	52	15014.415	0.01	0.7438	0.058	7.750	ug/L
|	Cr	53	1173.520	0.00	1.1157	0.172	15.379	ug/L
|	Mn	55	417558.648	1.28	38.3826	0.726	1.890	ug/L
|	Co	59	7003.522	0.02	0.8198	0.021	2.533	ug/L
|	Ni	60	1690.493	0.00	0.8790	0.057	6.497	ug/L
|	Cu	65	3205.546	0.01	1.6811	0.073	4.355	ug/L
|	Zn	66	7357.446	0.02	3.3716	0.101	2.995	ug/L
|>	Ge	72	325833.024	325833.02				ug/L
|	As	75	468.759	0.00	0.5529	0.085	15.385	ug/L
|	Se	77	72.000	0.00	-0.1334	0.092	69.015	ug/L
|	Se	82	-1.675	-0.00	0.0725	0.201	277.182	ug/L
⌊	Rb	85	8431.638	0.03				mg/L
	Y	89	234706.604	18669.66				ug/L
	Rh	103	18.667	-6.00				ug/L
⌈	Mo	98	112.695	0.00	0.0278	0.003	12.139	ug/L
|	Ag	107	68.668	0.00	0.0076	0.001	10.915	ug/L
|	Cd	114	7.075	0.00	0.0006	0.011	1882.016	ug/L
|>	In	115	309492.427	309492.43				ug/L
|	Sn	118	165.868	0.00	-0.0727	0.003	3.449	ug/L
⌊	Sb	123	46.359	0.00	0.0211	0.002	10.600	ug/L
⌈	Ba	135	17237.016	0.04	10.6063	0.017	0.160	ug/L
|	Ce	140	39280.955	0.10				ug/L
⌊>	Tb	159	391172.085	391172.09				ug/L
⌈	Ho	165	653.420	0.00				ug/L
|	Tl	203	129.335	0.00	0.0260	0.001	5.732	ug/L
|	Tl	205	246.694	0.00	0.0151	0.002	16.404	ug/L
|	Pb	206	3602.685	0.01	0.5973	0.011	1.841	ug/L
|	Pb	207	3001.814	0.01	0.5285	0.005	0.975	ug/L
|	Pb	208	14149.087	0.04	0.5581	0.007	1.219	ug/L
|	U	238	2097.574	0.01	0.0572	0.002	2.829	ug/L
⌊>	Bi	209	328057.026	328057.03				ug/L

Sample ID: L1103061218SDL WG360149-02
Report Date/Time: Tuesday, March 29, 2011 11:32:25
Page 1

Approved: March 30, 2011

⌈	Na	23	228785.003	0.25	0.0209	0.002	8.192	mg/L
|	Mg	24	665833.581	4.75	0.2348	0.003	1.441	mg/L
|	K	39	1180996.013	5.79	0.1447	0.002	1.494	mg/L
|	Ca	43	3407.588	0.02	0.2263	0.007	3.246	mg/L
|	Fe	54	813927.656	5.58	1.6470	0.033	1.981	mg/L
|	Fe	57	334464.500	2.34	1.6343	0.019	1.190	mg/L
⌊>	Sc-1	45	140108.024	140108.02				mg/L
	Cl	35	10367.374	517.19				mg/L
	Kr	83	77.668	5.67				mg/L
	Br	81	5703.626	-321.53				mg/L
	P	31	15396.512	9663.51				mg/L
	S	34	106181.507	-11737.71				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.477			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.845			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.102			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.676			
⌈	Na	23					

Sample ID: L1103061218SDL WG360149-02
Report Date/Time: Tuesday, March 29, 2011 11:32:25
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103061218SDL WG360149-02
Report Date/Time: Tuesday, March 29, 2011 11:32:25
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061219

Sample Date/Time: Tuesday, March 29, 2011 11:37:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 22
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19084.889	0.01				ug/L
|	Be	9	60.000	0.00	0.1834	0.006	3.383	ug/L
|	Al	27	27509970.364	181.71	5413.4674	154.593	2.856	ug/L
⌊>	Sc	45	151455.896	151455.90				ug/L
⌈	Ti	49	64238.746	0.20	131.3238	1.314	1.001	ug/L
|	V	51	161014.126	0.50	19.6833	0.338	1.717	ug/L
|	Cr	52	63864.595	0.17	7.9604	0.093	1.174	ug/L
|	Cr	53	6672.893	0.02	8.0061	0.049	0.616	ug/L
|	Mn	55	1825154.861	5.79	174.1253	0.710	0.408	ug/L
|	Co	59	43863.098	0.14	5.3764	0.035	0.652	ug/L
|	Ni	60	16645.011	0.05	9.6284	0.158	1.638	ug/L
|	Cu	65	17271.409	0.05	9.8079	0.076	0.775	ug/L
|	Zn	66	20190.564	0.06	15.7596	0.090	0.573	ug/L
| >	Ge	72	314959.894	314959.89				ug/L
|	As	75	3736.462	0.01	3.5512	0.068	1.904	ug/L
|	Se	77	64.667	-0.00	-0.1916	0.196	102.118	ug/L
|	Se	82	-11.771	-0.00	-0.0232	0.100	430.468	ug/L
⌊	Rb	85	24056.143	0.08				mg/L
	Y	89	255012.520	38975.57				ug/L
	Rh	103	22.667	-2.00				ug/L
⌈	Mo	98	457.850	0.00	0.1469	0.006	3.881	ug/L
|	Ag	107	220.671	0.00	0.0337	0.002	6.131	ug/L
|	Cd	114	-0.603	0.00	-0.0052	0.006	119.460	ug/L
| >	In	115	294965.192	294965.19				ug/L
|	Sn	118	174.935	0.00	-0.0689	0.003	3.973	ug/L
⌊	Sb	123	75.110	0.00	0.0288	0.003	9.863	ug/L
⌈	Ba	135	59593.308	0.16	38.3392	0.157	0.410	ug/L
|	Ce	140	165681.016	0.44				ug/L
⌊>	Tb	159	374761.612	374761.61				ug/L
⌈	Ho	165	2904.046	0.01				ug/L
|	Tl	203	233.338	0.00	0.0415	0.002	4.561	ug/L
|	Tl	205	543.403	0.00	0.0330	0.006	16.726	ug/L
|	Pb	206	9736.503	0.03	1.7245	0.036	2.095	ug/L
|	Pb	207	8119.710	0.02	1.5288	0.012	0.785	ug/L
|	Pb	208	38384.133	0.12	1.6208	0.018	1.091	ug/L
|	U	238	9349.463	0.03	0.2689	0.006	2.289	ug/L
⌊>	Bi	209	322131.200	322131.20				ug/L

Sample ID: L1103061219
Report Date/Time: Tuesday, March 29, 2011 11:39:13
Page 1

Approved: March 30, 2011

⌈	Na	23	739164.463	3.51	0.1336	0.009	6.557	mg/L
|	Mg	24	5491736.713	36.29	1.8242	0.064	3.515	mg/L
|	K	39	2711266.371	15.28	0.3914	0.018	4.621	mg/L
|	Ca	43	16652.185	0.11	1.1349	0.030	2.676	mg/L
|	Fe	54	4621692.991	30.32	8.9674	0.410	4.575	mg/L
|	Fe	57	1990152.508	13.10	9.1747	0.298	3.245	mg/L
⌊>	Sc-1	45	151455.896	151455.90				mg/L
	Cl	35	12203.442	2353.26				mg/L
	Kr	83	88.668	16.67				mg/L
	Br	81	5519.524	-505.63				mg/L
	P	31	74943.837	69210.83				mg/L
	S	34	113899.200	-4020.02				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.024			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.018			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.777			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.803			
⌈	Na	23					

Sample ID: L1103061219
Report Date/Time: Tuesday, March 29, 2011 11:39:13
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061219
Report Date/Time: Tuesday, March 29, 2011 11:39:13

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061220

Sample Date/Time: Tuesday, March 29, 2011 11:43:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 23
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17482.072	0.00				ug/L
|	Be	9	52.667	0.00	0.1596	0.021	13.229	ug/L
|	Al	27	14978825.533	100.21	2985.3900	51.330	1.719	ug/L
⌊>	Sc	45	149424.908	149424.91				ug/L
⌈	Ti	49	48173.946	0.16	100.5041	1.908	1.898	ug/L
|	V	51	87575.592	0.27	10.7788	0.223	2.068	ug/L
|	Cr	52	22365.541	0.04	1.9605	0.009	0.483	ug/L
|	Cr	53	2043.748	0.01	2.2988	0.258	11.234	ug/L
|	Mn	55	1229140.371	3.98	119.6860	0.627	0.524	ug/L
|	Co	59	18573.084	0.06	2.3178	0.019	0.820	ug/L
|	Ni	60	3616.023	0.01	2.0782	0.028	1.350	ug/L
|	Cu	65	10796.934	0.03	6.2260	0.074	1.188	ug/L
|	Zn	66	11599.840	0.04	7.8545	0.098	1.248	ug/L
|>	Ge	72	308452.060	308452.06				ug/L
|	As	75	800.515	0.00	0.8868	0.091	10.315	ug/L
|	Se	77	66.000	-0.00	-0.1588	0.106	66.714	ug/L
|	Se	82	12.073	0.00	0.2093	0.183	87.248	ug/L
⌊	Rb	85	44870.563	0.15				mg/L
	Y	89	249598.216	33561.27				ug/L
	Rh	103	23.667	-1.00				ug/L
⌈	Mo	98	172.323	0.00	0.0501	0.002	3.681	ug/L
|	Ag	107	153.669	0.00	0.0225	0.002	10.724	ug/L
|	Cd	114	-3.149	0.00	-0.0073	0.004	51.710	ug/L
|>	In	115	293686.775	293686.78				ug/L
|	Sn	118	149.201	0.00	-0.0746	0.001	1.990	ug/L
⌊	Sb	123	64.192	0.00	0.0261	0.003	10.109	ug/L
⌈	Ba	135	66560.446	0.18	42.7351	0.054	0.127	ug/L
|	Ce	140	185048.209	0.49				ug/L
⌊>	Tb	159	375536.168	375536.17				ug/L
⌈	Ho	165	2790.672	0.01				ug/L
|	Tl	203	296.674	0.00	0.0515	0.001	2.443	ug/L
|	Tl	205	646.752	0.00	0.0399	0.005	12.339	ug/L
|	Pb	206	7404.815	0.02	1.3236	0.032	2.455	ug/L
|	Pb	207	6076.907	0.02	1.1539	0.029	2.474	ug/L
|	Pb	208	28814.621	0.09	1.2269	0.020	1.628	ug/L
|	U	238	9967.733	0.03	0.2918	0.010	3.325	ug/L
⌊>	Bi	209	316746.655	316746.65				ug/L

Sample ID: L1103061220
Report Date/Time: Tuesday, March 29, 2011 11:45:58
Page 1

Approved: March 30, 2011

⌈	Na	23	440154.763	1.56	0.0664	0.001	1.695	mg/L
|	Mg	24	1879973.882	12.58	0.6296	0.022	3.508	mg/L
|	K	39	3109335.480	18.17	0.4667	0.006	1.309	mg/L
|	Ca	43	14214.854	0.09	0.9773	0.029	2.968	mg/L
|	Fe	54	2273729.404	14.99	4.4315	0.082	1.849	mg/L
|	Fe	57	967981.056	6.43	4.5018	0.180	3.989	mg/L
⌊>	Sc-1	45	149424.908	149424.91				mg/L
	Cl	35	10215.217	365.03				mg/L
	Kr	83	68.334	-3.67				mg/L
	Br	81	5382.115	-643.04				mg/L
	P	31	43797.720	38064.71				mg/L
	S	34	100363.000	-17556.22				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.957			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.593			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.981			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.101			
⌈	Na	23					

Sample ID: L1103061220
Report Date/Time: Tuesday, March 29, 2011 11:45:58
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061220
Report Date/Time: Tuesday, March 29, 2011 11:45:58

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061221 WG359447-01

Sample Date/Time: Tuesday, March 29, 2011 11:50:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 24
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17765.825	0.00				ug/L
|	Be	9	70.000	0.00	0.2135	0.044	20.576	ug/L
|	Al	27	25391981.328	163.36	4866.5880	48.160	0.990	ug/L
⌊>	Sc	45	155398.228	155398.23				ug/L
⌈	Ti	49	78672.810	0.25	159.1592	1.961	1.232	ug/L
|	V	51	176391.583	0.54	21.3630	0.205	0.960	ug/L
|	Cr	52	71040.164	0.19	8.8998	0.142	1.594	ug/L
|	Cr	53	7927.275	0.02	9.4650	0.664	7.015	ug/L
|	Mn	55	1849470.431	5.81	174.5749	1.100	0.630	ug/L
|	Co	59	43485.112	0.14	5.2735	0.059	1.125	ug/L
|	Ni	60	13999.933	0.04	8.0005	0.117	1.467	ug/L
|	Cu	65	16357.865	0.05	9.1847	0.034	0.367	ug/L
|	Zn	66	21031.637	0.06	16.3446	0.040	0.242	ug/L
| >	Ge	72	318340.245	318340.25				ug/L
|	As	75	4170.252	0.01	3.9072	0.105	2.688	ug/L
|	Se	77	70.000	0.00	-0.1367	0.104	75.755	ug/L
|	Se	82	-3.736	-0.00	0.0537	0.216	401.845	ug/L
⌊	Rb	85	28015.137	0.09				mg/L
	Y	89	264125.978	48089.03				ug/L
	Rh	103	27.000	2.33				ug/L
⌈	Mo	98	858.844	0.00	0.2762	0.007	2.515	ug/L
|	Ag	107	225.671	0.00	0.0336	0.004	13.266	ug/L
|	Cd	114	13.928	0.00	0.0061	0.004	67.258	ug/L
| >	In	115	302286.271	302286.27				ug/L
|	Sn	118	188.668	0.00	-0.0668	0.003	4.340	ug/L
⌊	Sb	123	64.483	0.00	0.0257	0.001	3.822	ug/L
⌈	Ba	135	84982.088	0.22	53.4554	0.517	0.966	ug/L
|	Ce	140	211609.821	0.55				ug/L
⌊>	Tb	159	383371.694	383371.69				ug/L
⌈	Ho	165	3474.284	0.01				ug/L
|	Tl	203	345.009	0.00	0.0566	0.004	6.744	ug/L
|	Tl	205	746.769	0.00	0.0440	0.005	10.678	ug/L
|	Pb	206	10416.527	0.03	1.7999	0.026	1.437	ug/L
|	Pb	207	8621.802	0.03	1.5834	0.011	0.715	ug/L
|	Pb	208	40532.285	0.12	1.6692	0.014	0.856	ug/L
|	U	238	11954.594	0.04	0.3356	0.001	0.428	ug/L
⌊>	Bi	209	330548.641	330548.64				ug/L

Sample ID: L1103061221 WG359447-01
Report Date/Time: Tuesday, March 29, 2011 11:52:44
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	681273.299	3.00	0.1162	0.001	0.603	mg/L
|	Mg	24	6168883.078	39.70	1.9962	0.034	1.719	mg/L
|	K	39	3335963.573	18.83	0.4839	0.016	3.336	mg/L
|	Ca	43	22206.857	0.14	1.4841	0.053	3.579	mg/L
|	Fe	54	4804583.376	30.69	9.0785	0.163	1.794	mg/L
|	Fe	57	2023711.370	12.97	9.0860	0.054	0.595	mg/L
⌊>	Sc-1	45	155398.228	155398.23				mg/L
	Cl	35	10845.212	995.03				mg/L
	Kr	83	84.668	12.67				mg/L
	Br	81	5600.902	-424.25				mg/L
	P	31	108620.097	102887.09				mg/L
	S	34	104724.957	-13194.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.097			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.451			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.046			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.463			
⌈	Na	23					

Sample ID: L1103061221 WG359447-01
Report Date/Time: Tuesday, March 29, 2011 11:52:44
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061222S WG359447-04

Sample Date/Time: Tuesday, March 29, 2011 11:57:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 25
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16797.438	-0.00				ug/L
|	Be	9	1448.772	0.01	5.2423	0.426	8.121	ug/L
|	Al	27	31029335.603	205.04	6108.4525	140.630	2.302	ug/L
⌊>	Sc	45	151320.003	151320.00				ug/L
⌈	Ti	49	116115.285	0.38	242.6450	3.783	1.559	ug/L
|	V	51	254673.277	0.82	32.0176	0.516	1.613	ug/L
|	Cr	52	107971.205	0.32	14.7528	0.349	2.368	ug/L
|	Cr	53	12362.206	0.04	15.4170	0.071	0.459	ug/L
|	Mn	55	1816824.170	5.89	177.0794	2.288	1.292	ug/L
|	Co	59	79703.555	0.26	9.9922	0.281	2.808	ug/L
|	Ni	60	20735.687	0.07	12.2755	0.336	2.737	ug/L
|	Cu	65	25682.194	0.08	14.9497	0.226	1.511	ug/L
|	Zn	66	31229.333	0.10	26.8552	0.404	1.506	ug/L
|>	Ge	72	308324.822	308324.82				ug/L
|	As	75	8455.874	0.03	8.0251	0.103	1.280	ug/L
|	Se	77	484.012	0.00	4.8925	0.347	7.091	ug/L
|	Se	82	531.317	0.00	5.3100	0.354	6.669	ug/L
⌊	Rb	85	32924.110	0.11				mg/L
	Y	89	261370.988	45334.04				ug/L
	Rh	103	22.667	-2.00				ug/L
⌈	Mo	98	1476.813	0.01	0.5047	0.007	1.374	ug/L
|	Ag	107	25841.942	0.09	4.4471	0.041	0.925	ug/L
|	Cd	114	6426.848	0.02	5.2829	0.114	2.160	ug/L
|>	In	115	288395.056	288395.06				ug/L
|	Sn	118	203.735	0.00	-0.0613	0.001	2.223	ug/L
⌊	Sb	123	624.930	0.00	0.1677	0.005	2.822	ug/L
⌈	Ba	135	72913.247	0.20	47.3747	0.137	0.289	ug/L
|	Ce	140	223066.131	0.60				ug/L
⌊>	Tb	159	371115.693	371115.69				ug/L
⌈	Ho	165	3751.079	0.01				ug/L
|	Tl	203	33316.408	0.10	4.9013	0.043	0.880	ug/L
|	Tl	205	82450.127	0.26	4.9489	0.105	2.125	ug/L
|	Pb	206	38084.098	0.12	6.9262	0.050	0.717	ug/L
|	Pb	207	33166.912	0.10	6.4169	0.059	0.915	ug/L
|	Pb	208	154420.602	0.48	6.7017	0.043	0.644	ug/L
|	U	238	187973.508	0.59	5.4913	0.034	0.616	ug/L
⌊>	Bi	209	319934.499	319934.50				ug/L

Sample ID: L1103061222S WG359447-04
Report Date/Time: Tuesday, March 29, 2011 11:59:29
Page 1

Approved: March 30, 2011

⌈	Na	23	753627.758	3.60	0.1369	0.005	3.571	mg/L
|	Mg	24	5508072.060	36.41	1.8304	0.047	2.554	mg/L
|	K	39	3745255.519	22.12	0.5693	0.014	2.480	mg/L
|	Ca	43	19901.780	0.13	1.3633	0.034	2.492	mg/L
|	Fe	54	5438504.202	35.73	10.5685	0.358	3.390	mg/L
|	Fe	57	2306171.426	15.19	10.6421	0.182	1.710	mg/L
⌊>	Sc-1	45	151320.003	151320.00				mg/L
	Cl	35	11080.136	1229.95				mg/L
	Kr	83	81.334	9.33				mg/L
	Br	81	5827.035	-198.12				mg/L
	P	31	104025.142	98292.14				mg/L
	S	34	106520.570	-11398.65				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.917			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.834			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.816			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.109			
⌈	Na	23					

Sample ID: L1103061222S WG359447-04
Report Date/Time: Tuesday, March 29, 2011 11:59:29
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061222S WG359447-04
Report Date/Time: Tuesday, March 29, 2011 11:59:29
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061223SD WG359447-05

Sample Date/Time: Tuesday, March 29, 2011 12:04:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17164.782	0.00				ug/L
|	Be	9	1372.761	0.01	5.0895	0.374	7.353	ug/L
|	Al	27	25153110.385	170.50	5079.3411	236.372	4.654	ug/L
⌊>	Sc	45	147615.396	147615.40				ug/L
⌈	Ti	49	99795.417	0.32	209.3374	2.252	1.076	ug/L
|	V	51	245822.789	0.79	31.0141	0.598	1.927	ug/L
|	Cr	52	87860.504	0.25	11.7981	0.207	1.757	ug/L
|	Cr	53	9675.648	0.03	12.0517	0.435	3.610	ug/L
|	Mn	55	1987843.259	6.47	194.4998	0.525	0.270	ug/L
|	Co	59	82182.136	0.27	10.3416	0.084	0.810	ug/L
|	Ni	60	19401.998	0.06	11.5245	0.130	1.125	ug/L
|	Cu	65	24815.335	0.08	14.4981	0.228	1.576	ug/L
|	Zn	66	29905.621	0.10	25.6840	0.293	1.139	ug/L
|>	Ge	72	307133.929	307133.93				ug/L
|	As	75	8631.874	0.03	8.2230	0.244	2.961	ug/L
|	Se	77	482.012	0.00	4.8907	0.194	3.965	ug/L
|	Se	82	494.639	0.00	4.9694	0.254	5.113	ug/L
⌊	Rb	85	30125.277	0.10				mg/L
	Y	89	251679.639	35642.69				ug/L
	Rh	103	34.334	9.67				ug/L
⌈	Mo	98	642.091	0.00	0.2107	0.006	2.910	ug/L
|	Ag	107	25179.914	0.09	4.2582	0.054	1.260	ug/L
|	Cd	114	5969.425	0.02	4.8229	0.174	3.602	ug/L
|>	In	115	293442.703	293442.70				ug/L
|	Sn	118	289.738	0.00	-0.0424	0.003	6.889	ug/L
⌊	Sb	123	802.404	0.00	0.2089	0.009	4.086	ug/L
⌈	Ba	135	109785.456	0.30	71.2561	0.308	0.432	ug/L
|	Ce	140	184776.547	0.50				ug/L
⌊>	Tb	159	371581.072	371581.07				ug/L
⌈	Ho	165	3180.826	0.01				ug/L
|	Tl	203	32372.311	0.10	4.7411	0.102	2.143	ug/L
|	Tl	205	80302.602	0.25	4.7985	0.161	3.361	ug/L
|	Pb	206	42195.928	0.13	7.6440	0.124	1.625	ug/L
|	Pb	207	36697.252	0.11	7.0725	0.173	2.450	ug/L
|	Pb	208	169585.496	0.52	7.3307	0.121	1.651	ug/L
|	U	238	182156.901	0.57	5.2971	0.070	1.328	ug/L
⌊>	Bi	209	321426.293	321426.29				ug/L

Sample ID: L1103061223SD WG359447-05
Report Date/Time: Tuesday, March 29, 2011 12:06:15
Page 1

Approved: March 30, 2011

⌈	Na	23	574084.708	2.51	0.0991	0.003	3.422	mg/L
|	Mg	24	5157544.574	34.95	1.7569	0.041	2.356	mg/L
|	K	39	3618949.820	21.90	0.5635	0.028	4.898	mg/L
|	Ca	43	17099.658	0.11	1.1972	0.043	3.562	mg/L
|	Fe	54	5148293.160	34.65	10.2496	0.146	1.423	mg/L
|	Fe	57	2196811.249	14.84	10.3969	0.499	4.795	mg/L
⌊>	Sc-1	45	147615.396	147615.40				mg/L
	Cl	35	11038.757	1188.57				mg/L
	Kr	83	82.334	10.33				mg/L
	Br	81	5561.546	-463.61				mg/L
	P	31	91422.044	85689.04				mg/L
	S	34	105400.663	-12518.56				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.538			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.512			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.939			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.580			
⌈	Na	23					

Sample ID: L1103061223SD WG359447-05
Report Date/Time: Tuesday, March 29, 2011 12:06:15
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061223SD WG359447-05
Report Date/Time: Tuesday, March 29, 2011 12:06:15
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061224

Sample Date/Time: Tuesday, March 29, 2011 12:10:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 27
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18283.467	0.01				ug/L
|	Be	9	53.333	0.00	0.1631	0.034	20.707	ug/L
|	Al	27	22708664.393	153.19	4563.6660	22.848	0.501	ug/L
⌊>	Sc	45	148190.143	148190.14				ug/L
⌈	Ti	49	86269.133	0.29	184.9641	3.275	1.771	ug/L
|	V	51	142207.916	0.46	18.1979	0.197	1.081	ug/L
|	Cr	52	41716.248	0.11	5.0159	0.040	0.807	ug/L
|	Cr	53	4474.783	0.01	5.5403	0.256	4.623	ug/L
|	Mn	55	1626548.191	5.41	162.6583	1.358	0.835	ug/L
|	Co	59	29265.724	0.10	3.7567	0.042	1.112	ug/L
|	Ni	60	7219.344	0.02	4.3375	0.062	1.424	ug/L
|	Cu	65	14558.068	0.05	8.6551	0.044	0.511	ug/L
|	Zn	66	22670.896	0.07	19.1456	0.096	0.501	ug/L
|>	Ge	72	300461.203	300461.20				ug/L
|	As	75	2127.026	0.01	2.1757	0.012	0.557	ug/L
|	Se	77	68.000	0.00	-0.1122	0.131	116.852	ug/L
|	Se	82	-0.951	-0.00	0.0807	0.075	93.428	ug/L
⌊	Rb	85	44274.906	0.15				mg/L
	Y	89	237804.719	21767.77				ug/L
	Rh	103	22.667	-2.00				ug/L
⌈	Mo	98	279.851	0.00	0.0901	0.002	2.073	ug/L
|	Ag	107	219.338	0.00	0.0349	0.002	6.020	ug/L
|	Cd	114	14.020	0.00	0.0069	0.003	38.348	ug/L
|>	In	115	284155.127	284155.13				ug/L
|	Sn	118	294.404	0.00	-0.0391	0.002	6.109	ug/L
⌊	Sb	123	54.063	0.00	0.0240	0.001	4.569	ug/L
⌈	Ba	135	73464.603	0.20	48.5456	0.527	1.086	ug/L
|	Ce	140	176990.183	0.48				ug/L
⌊>	Tb	159	364928.754	364928.75				ug/L
⌈	Ho	165	2610.602	0.01				ug/L
|	Tl	203	310.341	0.00	0.0537	0.001	1.600	ug/L
|	Tl	205	660.088	0.00	0.0408	0.005	11.661	ug/L
|	Pb	206	22327.789	0.07	4.0990	0.027	0.647	ug/L
|	Pb	207	19004.235	0.06	3.7108	0.050	1.344	ug/L
|	Pb	208	89119.077	0.28	3.9033	0.012	0.298	ug/L
|	U	238	10598.387	0.03	0.3116	0.006	1.984	ug/L
⌊>	Bi	209	315510.557	315510.56				ug/L

Sample ID: L1103061224
Report Date/Time: Tuesday, March 29, 2011 12:13:01
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	530584.756	2.20	0.0884	0.003	3.762	mg/L
|	Mg	24	2877376.706	19.42	0.9741	0.021	2.114	mg/L
|	K	39	4099384.786	25.03	0.6449	0.006	0.983	mg/L
|	Ca	43	18111.535	0.12	1.2645	0.027	2.145	mg/L
|	Fe	54	3570023.600	23.86	7.0578	0.142	2.018	mg/L
|	Fe	57	1517432.088	10.19	7.1372	0.163	2.285	mg/L
⌊>	Sc-1	45	148190.143	148190.14				mg/L
	Cl	35	11686.826	1836.64				mg/L
	Kr	83	71.001	-1.00				mg/L
	Br	81	5500.180	-524.97				mg/L
	P	31	61256.398	55523.39				mg/L
	S	34	99039.538	-18879.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.419			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.426			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.185			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.711			
⌈	Na	23					

Sample ID: L1103061224
Report Date/Time: Tuesday, March 29, 2011 12:13:01
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061225

Sample Date/Time: Tuesday, March 29, 2011 12:17:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 28
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16764.066	-0.00				ug/L
|	Be	9	61.334	0.00	0.1878	0.042	22.204	ug/L
|	Al	27	22836062.229	150.43	4481.5119	382.816	8.542	ug/L
⌊>	Sc	45	151963.208	151963.21				ug/L
⌈	Ti	49	43314.804	0.14	91.9269	4.703	5.116	ug/L
|	V	51	158324.919	0.51	20.1161	1.011	5.024	ug/L
|	Cr	52	62800.609	0.17	8.1624	0.495	6.060	ug/L
|	Cr	53	6536.129	0.02	8.1511	0.545	6.683	ug/L
|	Mn	55	1923452.139	6.34	190.6422	11.486	6.025	ug/L
|	Co	59	38923.558	0.13	4.9554	0.310	6.262	ug/L
|	Ni	60	10184.960	0.03	6.0941	0.259	4.255	ug/L
|	Cu	65	15944.544	0.05	9.4030	0.356	3.783	ug/L
|	Zn	66	20429.094	0.07	16.7378	1.009	6.029	ug/L
| >	Ge	72	303115.593	303115.59				ug/L
|	As	75	4965.963	0.02	4.8499	0.298	6.154	ug/L
|	Se	77	67.334	0.00	-0.1295	0.185	142.968	ug/L
|	Se	82	0.006	-0.00	0.0901	0.155	172.021	ug/L
⌊	Rb	85	33715.479	0.11				mg/L
	Y	89	249017.637	32980.69				ug/L
	Rh	103	29.000	4.33				ug/L
⌈	Mo	98	279.372	0.00	0.0876	0.001	1.347	ug/L
|	Ag	107	265.340	0.00	0.0418	0.002	4.371	ug/L
|	Cd	114	13.592	0.00	0.0063	0.008	131.510	ug/L
| >	In	115	290994.237	290994.24				ug/L
|	Sn	118	120.267	-0.00	-0.0810	0.002	1.855	ug/L
⌊	Sb	123	51.073	0.00	0.0230	0.002	6.735	ug/L
⌈	Ba	135	74220.381	0.20	47.8357	3.012	6.296	ug/L
|	Ce	140	171993.526	0.46				ug/L
⌊>	Tb	159	374243.938	374243.94				ug/L
⌈	Ho	165	3187.494	0.01				ug/L
|	Tl	203	253.339	0.00	0.0442	0.001	2.121	ug/L
|	Tl	205	673.423	0.00	0.0404	0.001	3.507	ug/L
|	Pb	206	11779.400	0.04	2.0786	0.124	5.957	ug/L
|	Pb	207	9893.334	0.03	1.8563	0.107	5.788	ug/L
|	Pb	208	46449.694	0.14	1.9545	0.109	5.576	ug/L
|	U	238	12277.341	0.04	0.3510	0.022	6.381	ug/L
⌊>	Bi	209	324751.459	324751.46				ug/L

Sample ID: L1103061225
Report Date/Time: Tuesday, March 29, 2011 12:19:48
Page 1

Approved: March 30, 2011

⌈	Na	23	374986.583	1.09	0.0500	0.008	15.910	mg/L
|	Mg	24	3986683.261	26.27	1.3195	0.120	9.067	mg/L
|	K	39	4595409.735	27.63	0.7126	0.041	5.776	mg/L
|	Ca	43	15019.473	0.10	1.0171	0.080	7.832	mg/L
|	Fe	54	4141703.109	27.07	8.0058	0.735	9.179	mg/L
|	Fe	57	1831697.597	12.02	8.4191	0.877	10.418	mg/L
⌊>	Sc-1	45	151963.208	151963.21				mg/L
	Cl	35	12344.282	2494.10				mg/L
	Kr	83	76.001	4.00				mg/L
	Br	81	6023.150	-2.00				mg/L
	P	31	77457.407	71724.40				mg/L
	S	34	98661.691	-19257.53				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.262			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.698			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.640			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.631			
⌈	Na	23					

Sample ID: L1103061225
Report Date/Time: Tuesday, March 29, 2011 12:19:48
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061226

Sample Date/Time: Tuesday, March 29, 2011 12:24:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17315.038	0.00				ug/L
|	Be	9	56.000	0.00	0.1757	0.060	34.353	ug/L
|	Al	27	23329728.847	158.58	4724.1728	219.578	4.648	ug/L
⌊>	Sc	45	147381.662	147381.66				ug/L
⌈	Ti	49	77352.449	0.25	160.2759	2.039	1.272	ug/L
|	V	51	173637.342	0.55	21.5372	0.311	1.446	ug/L
|	Cr	52	59488.404	0.16	7.4352	0.084	1.130	ug/L
|	Cr	53	6369.343	0.02	7.7284	0.642	8.303	ug/L
|	Mn	55	2020565.713	6.50	195.3198	3.509	1.797	ug/L
|	Co	59	44305.750	0.14	5.5026	0.069	1.252	ug/L
|	Ni	60	9993.760	0.03	5.8284	0.107	1.841	ug/L
|	Cu	65	17518.178	0.06	10.0823	0.110	1.087	ug/L
|	Zn	66	29381.417	0.09	24.8324	0.520	2.094	ug/L
|>	Ge	72	310826.986	310826.99				ug/L
|	As	75	3467.320	0.01	3.3474	0.039	1.160	ug/L
|	Se	77	70.667	0.00	-0.1088	0.043	39.232	ug/L
|	Se	82	4.942	0.00	0.1368	0.214	156.599	ug/L
⌊	Rb	85	38184.847	0.12				mg/L
	Y	89	253115.634	37078.69				ug/L
	Rh	103	30.334	5.67				ug/L
⌈	Mo	98	365.407	0.00	0.1165	0.002	1.394	ug/L
|	Ag	107	269.673	0.00	0.0424	0.005	10.989	ug/L
|	Cd	114	60.427	0.00	0.0441	0.005	11.309	ug/L
|>	In	115	292624.740	292624.74				ug/L
|	Sn	118	177.468	0.00	-0.0680	0.003	3.834	ug/L
⌊	Sb	123	42.404	0.00	0.0208	0.001	6.294	ug/L
⌈	Ba	135	87219.832	0.24	56.7125	0.846	1.491	ug/L
|	Ce	140	178946.266	0.48				ug/L
⌊>	Tb	159	370805.967	370805.97				ug/L
⌈	Ho	165	2944.061	0.01				ug/L
|	Tl	203	272.340	0.00	0.0467	0.003	5.758	ug/L
|	Tl	205	726.766	0.00	0.0435	0.002	5.521	ug/L
|	Pb	206	35472.557	0.11	6.3294	0.194	3.063	ug/L
|	Pb	207	30290.120	0.09	5.7496	0.075	1.310	ug/L
|	Pb	208	141092.539	0.43	6.0071	0.093	1.552	ug/L
|	U	238	10943.763	0.03	0.3115	0.005	1.519	ug/L
⌊>	Bi	209	325839.515	325839.51				ug/L

Sample ID: L1103061226
Report Date/Time: Tuesday, March 29, 2011 12:26:35
Page 1

Approved: March 30, 2011

Na	23	409594.517	1.40	0.0608	0.003	5.499	mg/L
Mg	24	3590848.303	24.38	1.2243	0.030	2.412	mg/L
K	39	5007068.236	31.44	0.8118	0.063	7.723	mg/L
Ca	43	19090.146	0.13	1.3430	0.027	1.984	mg/L
Fe	54	4154756.263	28.02	8.2878	0.385	4.650	mg/L
Fe	57	1819414.508	12.32	8.6295	0.418	4.842	mg/L
> Sc-1	45	147381.662	147381.66				mg/L
Cl	35	17842.575	7992.39				mg/L
Kr	83	83.335	11.33				mg/L
Br	81	5837.037	-188.12				mg/L
P	31	81282.550	75549.55				mg/L
S	34	114255.206	-3664.01				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		98.711			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		97.240			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		97.734			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		102.975			
Na	23					

Sample ID: L1103061226
Report Date/Time: Tuesday, March 29, 2011 12:26:35

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 12:31:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16012.812	0.00				ug/L
|	Be	9	13650.645	0.10	54.2165	1.904	3.512	ug/L
|	Al	27	242916.219	1.71	50.5564	2.064	4.082	ug/L
|>	Sc	45	138587.289	138587.29				ug/L
⌈	Ti	49	49500.500	0.16	105.7111	1.304	1.234	ug/L
|	V	51	400609.061	1.32	51.7299	0.586	1.133	ug/L
|	Cr	52	350623.979	1.13	52.2050	0.294	0.564	ug/L
|	Cr	53	40097.574	0.13	51.8471	0.800	1.543	ug/L
|	Mn	55	531643.774	1.76	52.8876	0.361	0.683	ug/L
|	Co	59	415256.496	1.38	53.2997	0.682	1.280	ug/L
|	Ni	60	86606.036	0.29	52.6837	0.979	1.858	ug/L
|	Cu	65	89784.206	0.30	53.7105	0.734	1.367	ug/L
|	Zn	66	55810.212	0.18	51.8803	0.700	1.350	ug/L
|>	Ge	72	301382.125	301382.12				ug/L
|	As	75	54812.564	0.18	52.4342	0.833	1.588	ug/L
|	Se	77	4293.588	0.01	52.1108	0.957	1.837	ug/L
|	Se	82	5256.237	0.02	52.9155	1.726	3.262	ug/L
⌊	Rb	85	2057.899	0.01				mg/L
	Y	89	205177.234	-10859.71				ug/L
	Rh	103	46.667	22.00				ug/L
⌈	Mo	98	293549.408	1.02	102.3274	1.758	1.718	ug/L
|	Ag	107	298036.561	1.04	51.4608	1.008	1.960	ug/L
|	Cd	114	63352.740	0.22	52.2640	1.215	2.324	ug/L
|>	In	115	287636.931	287636.93				ug/L
|	Sn	118	223817.923	0.78	52.1976	0.314	0.601	ug/L
⌊	Sb	123	208170.735	0.72	52.6196	0.569	1.081	ug/L
⌈	Ba	135	79389.702	0.22	52.1403	0.194	0.373	ug/L
|	Ce	140	66.674	0.00				ug/L
|>	Tb	159	367169.084	367169.08				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	340806.784	1.11	52.3432	0.562	1.073	ug/L
|	Tl	205	841910.542	2.75	52.8236	0.572	1.082	ug/L
|	Pb	206	278597.632	0.91	53.2856	0.702	1.318	ug/L
|	Pb	207	259884.619	0.85	52.8730	1.028	1.944	ug/L
|	Pb	208	1157714.869	3.78	52.8409	0.923	1.746	ug/L
|	U	238	1955143.362	6.39	59.7440	0.458	0.767	ug/L
|>	Bi	209	306000.453	306000.45				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 12:33:22
Page 1

Approved: March 30, 2011

Na	23	20249082.976	144.78	5.0263	0.187	3.727	mg/L	
Mg	24	13967206.010	100.81	5.0761	0.123	2.423	mg/L	
K	39	27737385.306	197.57	5.1317	0.135	2.632	mg/L	
Ca	43	68947.119	0.50	5.2463	0.195	3.725	mg/L	
Fe	54	2477695.656	17.66	5.2213	0.212	4.068	mg/L	
Fe	57	1059510.242	7.60	5.3194	0.115	2.155	mg/L	
> Sc-1	45	138587.289	138587.29				mg/L	
Cl	35	10871.240	1021.06				mg/L	
Kr	83	65.001	-7.00				mg/L	
Br	81	5554.879	-470.28				mg/L	
P	31	5188.013	-544.99				mg/L	
S	34	125174.175	7254.96				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	103.460				
Cr	52	104.410				
Cr	53					
Mn	55	105.775				
Co	59	106.599				
Ni	60	105.367				
Cu	65	107.421				
Zn	66	103.761				
> Ge	72		95.712			
As	75	104.868				
Se	77					
Se	82	105.831				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	102.922				
Cd	114	104.528				
> In	115		95.583			
Sn	118					
Sb	123	105.239				
Ba	135	104.281				
Ce	140					
> Tb	159		96.776			
Ho	165					
Tl	203	104.686				
Tl	205					
Pb	206					
Pb	207					
Pb	208	105.682				
U	238	119.488				
> Bi	209		96.705			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 12:33:22

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 12:33:22
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 12:37:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16380.083	0.00				ug/L
|	Be	9	17.333	0.00	0.0336	0.029	86.735	ug/L
|	Al	27	5084.632	-0.01	-0.6013	0.098	16.249	ug/L
⌊>	Sc	45	139330.845	139330.85				ug/L
⌈	Ti	49	43.338	-0.00	-0.1064	0.073	68.444	ug/L
|	V	51	2324.212	-0.00	-0.0566	0.002	4.161	ug/L
|	Cr	52	7752.415	-0.01	-0.2489	0.004	1.556	ug/L
|	Cr	53	210.023	-0.00	-0.0364	0.036	98.202	ug/L
|	Mn	55	558.355	0.00	-0.1161	0.002	1.626	ug/L
|	Co	59	106.002	-0.00	0.0009	0.002	234.404	ug/L
|	Ni	60	102.335	-0.00	-0.0146	0.002	10.284	ug/L
|	Cu	65	152.336	-0.00	-0.0093	0.004	44.476	ug/L
|	Zn	66	488.684	-0.00	-2.9037	0.032	1.098	ug/L
|>	Ge	72	315894.787	315894.79				ug/L
|	As	75	-172.494	-0.00	-0.0167	0.017	98.761	ug/L
|	Se	77	67.334	-0.00	-0.1615	0.059	36.348	ug/L
|	Se	82	4.449	0.00	0.1323	0.042	31.523	ug/L
⌊	Rb	85	36.000	-0.00				mg/L
	Y	89	216070.773	33.82				ug/L
	Rh	103	20.334	-4.33				ug/L
⌈	Mo	98	133.874	0.00	0.0359	0.004	10.190	ug/L
|	Ag	107	54.001	0.00	0.0055	0.001	19.204	ug/L
|	Cd	114	-10.810	-0.00	-0.0133	0.005	36.177	ug/L
|>	In	115	301013.903	301013.90				ug/L
|	Sn	118	226.669	0.00	-0.0582	0.004	6.754	ug/L
⌊	Sb	123	59.987	0.00	0.0247	0.001	2.203	ug/L
⌈	Ba	135	50.667	-0.00	0.0073	0.006	85.034	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	386081.400	386081.40				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	52.667	0.00	0.0151	0.001	9.522	ug/L
|	Tl	205	103.344	0.00	0.0068	0.003	48.116	ug/L
|	Pb	206	273.006	-0.00	0.0036	0.001	27.539	ug/L
|	Pb	207	255.339	-0.00	0.0076	0.004	55.644	ug/L
|	Pb	208	1114.035	-0.00	0.0034	0.001	29.212	ug/L
|	U	238	108.668	0.00	0.0006	0.001	95.171	ug/L
⌊>	Bi	209	323165.670	323165.67				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 12:40:06
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	185477.225	-0.05	0.0105	0.002	14.754	mg/L
|	Mg	24	1030.157	0.01	-0.0043	0.000	1.117	mg/L
|	K	39	353507.852	-0.10	-0.0085	0.001	15.855	mg/L
|	Ca	43	253.362	-0.00	-0.0123	0.007	54.024	mg/L
|	Fe	54	32641.712	0.00	-0.0028	0.002	84.145	mg/L
|	Fe	57	6406.026	-0.00	-0.0060	0.002	25.920	mg/L
⌊>	Sc-1	45	139330.845	139330.85				mg/L
	Cl	35	9855.521	5.34				mg/L
	Kr	83	63.334	-8.67				mg/L
	Br	81	5770.998	-254.16				mg/L
	P	31	5285.399	-447.61				mg/L
	S	34	109606.977	-8312.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.321			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.028			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.760			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.130			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 12:40:06
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 12:40:06

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: PBS 63 WG359922-02

Sample Date/Time: Tuesday, March 29, 2011 12:45:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 71
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16964.519	0.01				ug/L
|	Be	9	14.667	-0.00	0.0245	0.016	64.324	ug/L
|	Al	27	33589.793	0.20	5.6783	0.606	10.675	ug/L
⌊>	Sc	45	136036.504	136036.50				ug/L
⌈	Ti	49	120.013	0.00	0.0508	0.075	146.690	ug/L
|	V	51	2517.154	-0.00	-0.0314	0.011	35.039	ug/L
|	Cr	52	9095.226	-0.00	-0.0477	0.011	23.505	ug/L
|	Cr	53	340.040	-0.00	0.1264	0.050	39.393	ug/L
|	Mn	55	2080.571	0.00	0.0296	0.006	19.384	ug/L
|	Co	59	156.669	0.00	0.0072	0.001	9.344	ug/L
|	Ni	60	173.337	0.00	0.0271	0.007	26.520	ug/L
|	Cu	65	633.026	0.00	0.2670	0.007	2.514	ug/L
|	Zn	66	3579.677	0.01	0.0290	0.142	487.486	ug/L
| >	Ge	72	314606.352	314606.35				ug/L
|	As	75	-95.891	0.00	0.0525	0.023	44.314	ug/L
|	Se	77	50.000	-0.00	-0.3638	0.087	23.953	ug/L
|	Se	82	12.073	0.00	0.2064	0.121	58.434	ug/L
⌊	Rb	85	113.668	0.00				mg/L
	Y	89	219906.945	3870.00				ug/L
	Rh	103	17.000	-7.67				ug/L
⌈	Mo	98	83.325	0.00	0.0190	0.001	5.854	ug/L
|	Ag	107	57.667	0.00	0.0060	0.002	28.403	ug/L
|	Cd	114	11.004	0.00	0.0038	0.003	67.565	ug/L
| >	In	115	301603.937	301603.94				ug/L
|	Sn	118	355.340	0.00	-0.0296	0.004	13.366	ug/L
⌊	Sb	123	78.281	0.00	0.0291	0.001	3.090	ug/L
⌈	Ba	135	489.684	0.00	0.2811	0.004	1.315	ug/L
|	Ce	140	233.359	0.00				ug/L
⌊>	Tb	159	386700.148	386700.15				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	34.667	0.00	0.0125	0.002	13.779	ug/L
|	Tl	205	56.673	0.00	0.0040	0.001	23.847	ug/L
|	Pb	206	991.392	0.00	0.1340	0.007	5.040	ug/L
|	Pb	207	845.711	0.00	0.1217	0.013	10.723	ug/L
|	Pb	208	3980.688	0.01	0.1276	0.005	4.020	ug/L
|	U	238	79.001	0.00	-0.0003	0.000	164.704	ug/L
⌊>	Bi	209	322889.786	322889.79				ug/L

Sample ID: PBS 63 WG359922-02
Report Date/Time: Tuesday, March 29, 2011 12:47:22
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	62816.286	-0.92	-0.0196	0.001	2.849	mg/L
|	Mg	24	29646.853	0.22	0.0063	0.001	9.438	mg/L
|	K	39	374373.130	0.12	-0.0028	0.003	111.557	mg/L
|	Ca	43	750.103	0.00	0.0269	0.001	4.702	mg/L
|	Fe	54	65901.353	0.25	0.0714	0.007	9.522	mg/L
|	Fe	57	8881.497	0.01	0.0076	0.001	17.327	mg/L
⌊>	Sc-1	45	136036.504	136036.50				mg/L
	Cl	35	12397.681	2547.50				mg/L
	Kr	83	68.334	-3.67				mg/L
	Br	81	6221.272	196.12				mg/L
	P	31	9088.823	3355.82				mg/L
	S	34	108701.020	-9218.20				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.912			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.224			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.924			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.043			
⌈	Na	23					

Sample ID: PBS 63 WG359922-02
Report Date/Time: Tuesday, March 29, 2011 12:47:22
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 63 WG359922-02
Report Date/Time: Tuesday, March 29, 2011 12:47:22
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: LCSS 63 WG359922-03

Sample Date/Time: Tuesday, March 29, 2011 12:51:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 72
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17064.653	0.01				ug/L
|	Be	9	6309.323	0.04	24.4681	0.943	3.853	ug/L
|	Al	27	125837.595	0.84	24.7716	1.705	6.882	ug/L
⌊>	Sc	45	141849.432	141849.43				ug/L
⌈	Ti	49	63.340	0.00	-0.0637	0.033	51.081	ug/L
|	V	51	194064.600	0.61	24.1277	0.220	0.911	ug/L
|	Cr	52	176538.119	0.54	24.7946	0.237	0.957	ug/L
|	Cr	53	20225.790	0.06	25.2200	0.477	1.893	ug/L
|	Mn	55	263924.441	0.85	25.3830	0.220	0.866	ug/L
|	Co	59	203864.237	0.66	25.3785	0.281	1.109	ug/L
|	Ni	60	43622.714	0.14	25.7059	0.273	1.060	ug/L
|	Cu	65	44788.873	0.14	25.9423	0.285	1.098	ug/L
|	Zn	66	27899.812	0.09	23.4269	0.083	0.352	ug/L
| >	Ge	72	310669.124	310669.12				ug/L
|	As	75	25172.422	0.08	23.4381	0.279	1.190	ug/L
|	Se	77	1931.520	0.01	22.2039	0.549	2.474	ug/L
|	Se	82	2261.641	0.01	22.1419	0.569	2.571	ug/L
⌊	Rb	85	84.001	0.00				mg/L
	Y	89	210605.752	-5431.20				ug/L
	Rh	103	23.334	-1.33				ug/L
⌈	Mo	98	63.996	0.00	0.0129	0.002	17.646	ug/L
|	Ag	107	129159.741	0.44	21.6058	0.501	2.321	ug/L
|	Cd	114	29409.683	0.10	23.4983	0.156	0.665	ug/L
| >	In	115	296920.558	296920.56				ug/L
|	Sn	118	357.606	0.00	-0.0278	0.003	12.369	ug/L
⌊	Sb	123	98149.178	0.33	24.0424	0.367	1.529	ug/L
⌈	Ba	135	38241.700	0.10	24.3402	0.160	0.658	ug/L
|	Ce	140	120.013	0.00				ug/L
⌊>	Tb	159	378658.704	378658.70				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	163453.364	0.51	24.1563	0.066	0.272	ug/L
|	Tl	205	402363.062	1.26	24.2894	0.512	2.107	ug/L
|	Pb	206	139082.297	0.44	25.5646	0.285	1.116	ug/L
|	Pb	207	123279.482	0.39	24.1049	0.285	1.184	ug/L
|	Pb	208	565912.893	1.78	24.8234	0.128	0.515	ug/L
|	U	238	871742.592	2.74	25.6239	0.319	1.243	ug/L
⌊>	Bi	209	318087.459	318087.46				ug/L

Sample ID: LCSS 63 WG359922-03
Report Date/Time: Tuesday, March 29, 2011 12:54:09
Page 1

Approved: March 30, 2011

⌈	Na	23	34195.124	-1.14	-0.0273	0.000	1.032	mg/L
|	Mg	24	9699.005	0.07	-0.0013	0.000	5.651	mg/L
|	K	39	367659.972	-0.04	-0.0070	0.002	35.032	mg/L
|	Ca	43	503.397	0.00	0.0062	0.010	165.863	mg/L
|	Fe	54	57444.185	0.17	0.0477	0.003	5.676	mg/L
|	Fe	57	7880.561	0.00	0.0007	0.002	227.824	mg/L
⌊>	Sc-1	45	141849.432	141849.43				mg/L
	Cl	35	14745.531	4895.35				mg/L
	Kr	83	75.334	3.33				mg/L
	Br	81	6766.291	741.14				mg/L
	P	31	8929.343	3196.34				mg/L
	S	34	114660.671	-3258.55				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.661			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.667			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.804			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.525			
⌈	Na	23					

Sample ID: LCSS 63 WG359922-03
Report Date/Time: Tuesday, March 29, 2011 12:54:09
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 63 WG359922-03
Report Date/Time: Tuesday, March 29, 2011 12:54:09
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061227

Sample Date/Time: Tuesday, March 29, 2011 12:58:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 73
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16713.977	0.00				ug/L
|	Be	9	48.667	0.00	0.1490	0.007	4.891	ug/L
|	Al	27	12912343.045	88.44	2634.5518	128.031	4.860	ug/L
⌊>	Sc	45	145974.980	145974.98				ug/L
⌈	Ti	49	12105.227	0.04	25.9891	2.259	8.693	ug/L
|	V	51	97443.543	0.32	12.4590	0.874	7.019	ug/L
|	Cr	52	48128.533	0.13	6.0552	0.417	6.889	ug/L
|	Cr	53	5261.915	0.02	6.6204	0.590	8.917	ug/L
|	Mn	55	2490567.527	8.35	251.0470	14.562	5.801	ug/L
|	Co	59	48472.576	0.16	6.2778	0.386	6.145	ug/L
|	Ni	60	9007.150	0.03	5.4719	0.295	5.390	ug/L
|	Cu	65	17303.813	0.06	10.3847	0.489	4.712	ug/L
|	Zn	66	25409.180	0.08	22.0554	0.975	4.422	ug/L
|>	Ge	72	298264.294	298264.29				ug/L
|	As	75	4023.551	0.01	4.0198	0.144	3.573	ug/L
|	Se	77	83.334	0.00	0.0853	0.158	185.593	ug/L
|	Se	82	9.989	0.00	0.1914	0.065	33.885	ug/L
⌊	Rb	85	35060.148	0.12				mg/L
	Y	89	259667.561	43630.61				ug/L
	Rh	103	25.000	0.33				ug/L
⌈	Mo	98	277.440	0.00	0.0891	0.012	13.810	ug/L
|	Ag	107	262.006	0.00	0.0423	0.003	6.494	ug/L
|	Cd	114	63.763	0.00	0.0484	0.010	20.358	ug/L
|>	In	115	284443.524	284443.52				ug/L
|	Sn	118	244.936	0.00	-0.0509	0.001	2.081	ug/L
⌊	Sb	123	75.024	0.00	0.0294	0.001	4.952	ug/L
⌈	Ba	135	103720.322	0.28	68.2217	2.580	3.781	ug/L
|	Ce	140	225342.056	0.61				ug/L
⌊>	Tb	159	366555.406	366555.41				ug/L
⌈	Ho	165	3801.104	0.01				ug/L
|	Tl	203	295.007	0.00	0.0522	0.001	2.681	ug/L
|	Tl	205	670.090	0.00	0.0421	0.004	10.657	ug/L
|	Pb	206	47170.231	0.15	8.8663	0.271	3.054	ug/L
|	Pb	207	40353.123	0.13	8.0675	0.342	4.245	ug/L
|	Pb	208	187226.703	0.60	8.3966	0.326	3.888	ug/L
|	U	238	11610.523	0.04	0.3477	0.008	2.315	ug/L
⌊>	Bi	209	309958.310	309958.31				ug/L

Sample ID: L1103061227
Report Date/Time: Tuesday, March 29, 2011 13:00:55
Page 1

Approved: March 30, 2011

⌈	Na	23	325590.342	0.85	0.0416	0.005	11.811	mg/L
|	Mg	24	3909365.554	26.77	1.3447	0.064	4.781	mg/L
|	K	39	5294616.809	33.63	0.8687	0.053	6.118	mg/L
|	Ca	43	22781.541	0.15	1.6245	0.074	4.582	mg/L
|	Fe	54	3005042.382	20.37	6.0232	0.350	5.809	mg/L
|	Fe	57	1307362.308	8.91	6.2396	0.329	5.274	mg/L
⌊>	Sc-1	45	145974.980	145974.98				mg/L
	Cl	35	11744.894	1894.71				mg/L
	Kr	83	78.001	6.00				mg/L
	Br	81	5902.409	-122.75				mg/L
	P	31	98433.765	92700.76				mg/L
	S	34	104227.937	-13691.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.722			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.521			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.614			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.956			
⌈	Na	23					

Sample ID: L1103061227
Report Date/Time: Tuesday, March 29, 2011 13:00:55
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061227
Report Date/Time: Tuesday, March 29, 2011 13:00:55

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061228

Sample Date/Time: Tuesday, March 29, 2011 13:05:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 74
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18049.643	0.00				ug/L
|	Be	9	82.667	0.00	0.2520	0.061	24.221	ug/L
|	Al	27	23632298.709	148.38	4420.3435	357.342	8.084	ug/L
|>	Sc	45	159021.555	159021.56				ug/L
⌈	Ti	49	11631.288	0.04	24.5038	2.069	8.445	ug/L
|	V	51	126816.352	0.41	16.0160	1.584	9.890	ug/L
|	Cr	52	70322.776	0.20	9.2873	0.962	10.358	ug/L
|	Cr	53	7820.524	0.02	9.7960	0.947	9.669	ug/L
|	Mn	55	3248251.393	10.70	321.5723	31.006	9.642	ug/L
|	Co	59	56888.721	0.19	7.2366	0.846	11.688	ug/L
|	Ni	60	11793.782	0.04	7.0565	0.717	10.159	ug/L
|	Cu	65	21605.678	0.07	12.7549	1.251	9.812	ug/L
|	Zn	66	25237.538	0.08	21.4295	2.043	9.535	ug/L
|>	Ge	72	303649.900	303649.90				ug/L
|	As	75	5138.035	0.02	5.0053	0.426	8.508	ug/L
|	Se	77	74.000	0.00	-0.0481	0.027	56.444	ug/L
|	Se	82	-3.458	-0.00	0.0553	0.110	198.237	ug/L
⌊	Rb	85	44769.653	0.15				mg/L
	Y	89	272932.628	56895.68				ug/L
	Rh	103	23.000	-1.67				ug/L
⌈	Mo	98	181.140	0.00	0.0543	0.003	5.592	ug/L
|	Ag	107	310.008	0.00	0.0500	0.011	21.348	ug/L
|	Cd	114	65.911	0.00	0.0494	0.008	15.974	ug/L
|>	In	115	288444.646	288444.65				ug/L
|	Sn	118	135.334	-0.00	-0.0772	0.003	3.686	ug/L
⌊	Sb	123	42.735	0.00	0.0210	0.001	2.425	ug/L
⌈	Ba	135	119400.613	0.32	77.2672	7.742	10.020	ug/L
|	Ce	140	265410.827	0.71				ug/L
|>	Tb	159	372558.518	372558.52				ug/L
⌈	Ho	165	4694.909	0.01				ug/L
|	Tl	203	343.343	0.00	0.0578	0.004	6.155	ug/L
|	Tl	205	876.793	0.00	0.0531	0.004	6.951	ug/L
|	Pb	206	19523.030	0.06	3.5194	0.335	9.532	ug/L
|	Pb	207	16693.164	0.05	3.2009	0.266	8.296	ug/L
|	Pb	208	77172.147	0.24	3.3183	0.294	8.865	ug/L
|	U	238	14875.979	0.05	0.4310	0.048	11.199	ug/L
|>	Bi	209	320601.120	320601.12				ug/L

Sample ID: L1103061228
Report Date/Time: Tuesday, March 29, 2011 13:07:43
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	368016.796	0.93	0.0445	0.006	13.000	mg/L
|	Mg	24	5343815.963	33.56	1.6868	0.138	8.198	mg/L
|	K	39	6581802.894	38.71	1.0008	0.068	6.789	mg/L
|	Ca	43	24699.874	0.15	1.6130	0.153	9.469	mg/L
|	Fe	54	4554873.920	28.38	8.3961	0.589	7.019	mg/L
|	Fe	57	1937096.370	12.12	8.4869	0.625	7.365	mg/L
⌊>	Sc-1	45	159021.555	159021.56				mg/L
	Cl	35	11470.579	1620.40				mg/L
	Kr	83	91.001	19.00				mg/L
	Br	81	6398.050	372.90				mg/L
	P	31	124972.947	119239.94				mg/L
	S	34	98279.544	-19639.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.432			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.851			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.196			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.319			
⌈	Na	23					

Sample ID: L1103061228
Report Date/Time: Tuesday, March 29, 2011 13:07:43
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061218PS WG360149-01

Sample Date/Time: Tuesday, March 29, 2011 13:12:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 93
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19318.653	0.02				ug/L
|	Be	9	14428.402	0.10	53.4456	0.780	1.459	ug/L
|	Al	27	22063712.844	148.54	4425.1241	159.646	3.608	ug/L
⌊>	Sc	45	148545.291	148545.29				ug/L
⌈	Ti	49	63668.532	0.21	133.4786	5.034	3.771	ug/L
|	V	51	509058.898	1.65	64.5827	0.643	0.996	ug/L
|	Cr	52	369153.153	1.17	53.9789	0.969	1.794	ug/L
|	Cr	53	42604.895	0.14	54.0621	1.852	3.426	ug/L
|	Mn	55	2446258.844	7.96	239.3828	5.275	2.204	ug/L
|	Co	59	425920.690	1.39	53.6426	1.363	2.541	ug/L
|	Ni	60	91587.837	0.30	54.6702	1.025	1.875	ug/L
|	Cu	65	102193.883	0.33	59.9969	0.549	0.914	ug/L
|	Zn	66	76960.147	0.25	71.3856	1.283	1.797	ug/L
|>	Ge	72	307162.533	307162.53				ug/L
|	As	75	56942.392	0.19	53.4442	0.326	0.611	ug/L
|	Se	77	4508.350	0.01	53.7155	0.897	1.670	ug/L
|	Se	82	5501.296	0.02	54.3417	0.851	1.566	ug/L
⌊	Rb	85	39838.598	0.13				mg/L
	Y	89	248904.293	32867.34				ug/L
	Rh	103	42.667	18.00				ug/L
⌈	Mo	98	295.596	0.00	0.0939	0.005	4.889	ug/L
|	Ag	107	293491.490	1.02	50.4723	0.999	1.980	ug/L
|	Cd	114	62433.668	0.22	51.2962	0.434	0.845	ug/L
|>	In	115	288775.052	288775.05				ug/L
|	Sn	118	181.202	0.00	-0.0666	0.004	6.427	ug/L
⌊	Sb	123	199886.595	0.69	50.3232	0.229	0.455	ug/L
⌈	Ba	135	158203.529	0.42	102.0781	0.507	0.497	ug/L
|	Ce	140	193350.495	0.52				ug/L
⌊>	Tb	159	373816.811	373816.81				ug/L
⌈	Ho	165	2777.332	0.01				ug/L
|	Tl	203	341864.350	1.04	49.0004	0.218	0.446	ug/L
|	Tl	205	848958.400	2.59	49.7096	0.244	0.490	ug/L
|	Pb	206	300866.984	0.92	53.6949	0.726	1.351	ug/L
|	Pb	207	264613.783	0.81	50.2323	0.522	1.039	ug/L
|	Pb	208	1220851.072	3.72	51.9953	0.278	0.534	ug/L
|	U	238	1827258.964	5.57	52.1022	0.421	0.807	ug/L
⌊>	Bi	209	327914.981	327914.98				ug/L

Sample ID: L1103061218PS WG360149-01
Report Date/Time: Tuesday, March 29, 2011 13:15:03
Page 1

Approved: March 30, 2011

⌈	Na	23	1044395.660	5.65	0.2079	0.003	1.466	mg/L
|	Mg	24	2952052.578	19.87	0.9970	0.017	1.704	mg/L
|	K	39	3612899.248	21.69	0.5581	0.020	3.626	mg/L
|	Ca	43	15967.674	0.10	1.1086	0.045	4.063	mg/L
|	Fe	54	3508038.549	23.39	6.9189	0.261	3.767	mg/L
|	Fe	57	1582686.654	10.61	7.4290	0.276	3.709	mg/L
⌊>	Sc-1	45	148545.291	148545.29				mg/L
	Cl	35	13006.454	3156.27				mg/L
	Kr	83	74.334	2.33				mg/L
	Br	81	5608.241	-416.91				mg/L
	P	31	61823.860	56090.86				mg/L
	S	34	97302.071	-20617.15				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.548			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.961			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.528			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.631			
⌈	Na	23					

Sample ID: L1103061218PS WG360149-01
Report Date/Time: Tuesday, March 29, 2011 13:15:03
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061229

Sample Date/Time: Tuesday, March 29, 2011 13:19:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 75
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16597.106	-0.00				ug/L
|	Be	9	71.334	0.00	0.2257	0.027	11.771	ug/L
|	Al	27	12287048.585	81.44	2425.9503	196.215	8.088	ug/L
⌊>	Sc	45	150727.615	150727.61				ug/L
⌈	Ti	49	7977.326	0.03	16.6764	1.330	7.974	ug/L
|	V	51	85173.636	0.27	10.5996	0.918	8.664	ug/L
|	Cr	52	43433.923	0.11	5.1834	0.486	9.379	ug/L
|	Cr	53	4548.158	0.01	5.5499	0.327	5.896	ug/L
|	Mn	55	2323621.738	7.62	229.0724	16.951	7.400	ug/L
|	Co	59	41687.335	0.14	5.2785	0.490	9.292	ug/L
|	Ni	60	7869.855	0.03	4.6647	0.363	7.789	ug/L
|	Cu	65	16088.840	0.05	9.4353	0.886	9.388	ug/L
|	Zn	66	32448.497	0.10	28.3860	2.679	9.439	ug/L
| >	Ge	72	304823.359	304823.36				ug/L
|	As	75	4281.718	0.01	4.1783	0.361	8.640	ug/L
|	Se	77	87.334	0.00	0.1114	0.093	83.452	ug/L
|	Se	82	14.699	0.00	0.2367	0.103	43.319	ug/L
⌊	Rb	85	25558.027	0.08				mg/L
	Y	89	261689.586	45652.64				ug/L
	Rh	103	28.667	4.00				ug/L
⌈	Mo	98	273.997	0.00	0.0868	0.003	3.327	ug/L
|	Ag	107	395.345	0.00	0.0648	0.005	8.429	ug/L
|	Cd	114	111.604	0.00	0.0872	0.010	10.980	ug/L
| >	In	115	287595.886	287595.89				ug/L
|	Sn	118	314.405	0.00	-0.0353	0.003	7.766	ug/L
⌊	Sb	123	525.334	0.00	0.1430	0.006	4.374	ug/L
⌈	Ba	135	94258.678	0.25	60.8766	5.228	8.588	ug/L
|	Ce	140	215110.521	0.58				ug/L
⌊>	Tb	159	373501.491	373501.49				ug/L
⌈	Ho	165	3797.770	0.01				ug/L
|	Tl	203	321.675	0.00	0.0546	0.004	7.219	ug/L
|	Tl	205	716.765	0.00	0.0435	0.008	18.327	ug/L
|	Pb	206	66593.182	0.21	12.1016	0.928	7.668	ug/L
|	Pb	207	57793.115	0.18	11.1716	0.878	7.856	ug/L
|	Pb	208	268627.104	0.83	11.6489	0.924	7.930	ug/L
|	U	238	11725.029	0.04	0.3389	0.032	9.586	ug/L
⌊>	Bi	209	321088.958	321088.96				ug/L

Sample ID: L1103061229
Report Date/Time: Tuesday, March 29, 2011 13:21:50
Page 1

Approved: March 30, 2011

⌈	Na	23	825740.332	4.10	0.1541	0.016	10.367	mg/L
|	Mg	24	3214320.757	21.32	1.0699	0.098	9.175	mg/L
|	K	39	4304152.746	25.91	0.6678	0.056	8.381	mg/L
|	Ca	43	22878.624	0.15	1.5774	0.162	10.248	mg/L
|	Fe	54	2730158.773	17.88	5.2860	0.397	7.514	mg/L
|	Fe	57	1175204.712	7.74	5.4223	0.406	7.482	mg/L
⌊>	Sc-1	45	150727.615	150727.61				mg/L
	Cl	35	11734.217	1884.03				mg/L
	Kr	83	73.001	1.00				mg/L
	Br	81	6035.822	10.67				mg/L
	P	31	103735.572	98002.57				mg/L
	S	34	106569.643	-11349.58				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.805			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.569			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.445			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.474			
⌈	Na	23					

Sample ID: L1103061229
Report Date/Time: Tuesday, March 29, 2011 13:21:50
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061230

Sample Date/Time: Tuesday, March 29, 2011 13:26:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 76
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17749.146	0.01				ug/L
|	Be	9	62.000	0.00	0.2025	0.060	29.863	ug/L
|	Al	27	14430915.306	100.70	2999.7439	145.027	4.835	ug/L
⌊>	Sc	45	143219.498	143219.50				ug/L
⌈	Ti	49	12702.720	0.04	26.9561	2.510	9.312	ug/L
|	V	51	94559.834	0.30	11.9362	0.855	7.165	ug/L
|	Cr	52	41106.008	0.10	4.8978	0.401	8.187	ug/L
|	Cr	53	4274.678	0.01	5.2569	0.381	7.253	ug/L
|	Mn	55	1831204.671	6.07	182.4277	12.693	6.958	ug/L
|	Co	59	40417.022	0.13	5.1721	0.428	8.283	ug/L
|	Ni	60	7926.903	0.03	4.7505	0.392	8.251	ug/L
|	Cu	65	14645.915	0.05	8.6736	0.691	7.965	ug/L
|	Zn	66	21412.542	0.07	17.8127	1.511	8.481	ug/L
| >	Ge	72	301533.109	301533.11				ug/L
|	As	75	3684.115	0.01	3.6525	0.166	4.545	ug/L
|	Se	77	74.667	0.00	-0.0330	0.101	305.799	ug/L
|	Se	82	0.371	-0.00	0.0951	0.247	259.946	ug/L
⌊	Rb	85	24664.039	0.08				mg/L
	Y	89	249429.085	33392.14				ug/L
	Rh	103	21.334	-3.33				ug/L
⌈	Mo	98	225.772	0.00	0.0713	0.007	9.811	ug/L
|	Ag	107	267.673	0.00	0.0435	0.002	5.165	ug/L
|	Cd	114	61.372	0.00	0.0466	0.006	13.133	ug/L
| >	In	115	282882.933	282882.93				ug/L
|	Sn	118	180.535	0.00	-0.0659	0.001	1.886	ug/L
⌊	Sb	123	183.281	0.00	0.0573	0.002	3.328	ug/L
⌈	Ba	135	62211.007	0.17	40.8956	2.731	6.679	ug/L
|	Ce	140	178139.019	0.49				ug/L
⌊>	Tb	159	366569.692	366569.69				ug/L
⌈	Ho	165	3280.871	0.01				ug/L
|	Tl	203	242.672	0.00	0.0429	0.004	9.252	ug/L
|	Tl	205	546.736	0.00	0.0333	0.003	7.824	ug/L
|	Pb	206	38027.739	0.12	6.8788	0.442	6.422	ug/L
|	Pb	207	32584.546	0.10	6.2696	0.499	7.956	ug/L
|	Pb	208	151724.388	0.47	6.5485	0.493	7.534	ug/L
|	U	238	9749.537	0.03	0.2809	0.024	8.493	ug/L
⌊>	Bi	209	321657.832	321657.83				ug/L

Sample ID: L1103061230
Report Date/Time: Tuesday, March 29, 2011 13:28:38
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	304330.944	0.74	0.0380	0.003	9.052	mg/L
|	Mg	24	3799399.168	26.53	1.3327	0.083	6.257	mg/L
|	K	39	3183698.967	19.58	0.5033	0.037	7.311	mg/L
|	Ca	43	17133.155	0.12	1.2366	0.119	9.644	mg/L
|	Fe	54	3105542.368	21.44	6.3398	0.482	7.609	mg/L
|	Fe	57	1335653.611	9.28	6.4966	0.442	6.796	mg/L
⌊>	Sc-1	45	143219.498	143219.50				mg/L
	Cl	35	11261.004	1410.82				mg/L
	Kr	83	72.334	0.33				mg/L
	Br	81	5760.993	-264.16				mg/L
	P	31	90138.307	84405.30				mg/L
	S	34	101229.283	-16689.94				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.760			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.003			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.618			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.653			
⌈	Na	23					

Sample ID: L1103061230
Report Date/Time: Tuesday, March 29, 2011 13:28:38

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061231

Sample Date/Time: Tuesday, March 29, 2011 13:33:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 77
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17715.738	0.01				ug/L
|	Be	9	56.000	0.00	0.1883	0.050	26.777	ug/L
|	Al	27	12204936.698	87.88	2617.9536	155.130	5.926	ug/L
⌊>	Sc	45	138874.793	138874.79				ug/L
⌈	Ti	49	21471.861	0.07	46.0724	1.904	4.133	ug/L
|	V	51	69200.415	0.22	8.7153	0.480	5.513	ug/L
|	Cr	52	22233.920	0.04	2.0428	0.088	4.287	ug/L
|	Cr	53	1933.714	0.01	2.2348	0.063	2.816	ug/L
|	Mn	55	1781750.668	5.95	178.9219	10.571	5.908	ug/L
|	Co	59	20616.138	0.07	2.6535	0.141	5.298	ug/L
|	Ni	60	4724.164	0.02	2.8243	0.120	4.247	ug/L
|	Cu	65	10498.620	0.03	6.2404	0.299	4.784	ug/L
|	Zn	66	16612.967	0.05	13.1972	0.692	5.243	ug/L
|>	Ge	72	299278.781	299278.78				ug/L
|	As	75	1354.738	0.01	1.4419	0.045	3.129	ug/L
|	Se	77	72.667	0.00	-0.0512	0.297	579.479	ug/L
|	Se	82	15.360	0.00	0.2459	0.127	51.763	ug/L
⌊	Rb	85	38672.432	0.13				mg/L
	Y	89	246963.841	30926.89				ug/L
	Rh	103	26.334	1.67				ug/L
⌈	Mo	98	231.402	0.00	0.0744	0.004	5.564	ug/L
|	Ag	107	211.338	0.00	0.0341	0.005	15.039	ug/L
|	Cd	114	21.461	0.00	0.0135	0.013	94.160	ug/L
|>	In	115	279182.793	279182.79				ug/L
|	Sn	118	124.134	-0.00	-0.0789	0.002	2.369	ug/L
⌊	Sb	123	100.323	0.00	0.0363	0.003	9.105	ug/L
⌈	Ba	135	81110.076	0.22	54.2686	2.443	4.502	ug/L
|	Ce	140	185957.435	0.52				ug/L
⌊>	Tb	159	360483.122	360483.12				ug/L
⌈	Ho	165	2947.397	0.01				ug/L
|	Tl	203	316.342	0.00	0.0548	0.006	10.125	ug/L
|	Tl	205	723.433	0.00	0.0448	0.009	19.491	ug/L
|	Pb	206	15532.557	0.05	2.8493	0.153	5.356	ug/L
|	Pb	207	13227.892	0.04	2.5812	0.167	6.474	ug/L
|	Pb	208	61634.134	0.19	2.6969	0.157	5.827	ug/L
|	U	238	10124.905	0.03	0.2988	0.022	7.405	ug/L
⌊>	Bi	209	314338.414	314338.41				ug/L

Sample ID: L1103061231
Report Date/Time: Tuesday, March 29, 2011 13:35:27
Page 1

Approved: March 30, 2011

⌈	Na	23	438427.430	1.78	0.0737	0.002	2.939	mg/L
|	Mg	24	2172909.363	15.65	0.7840	0.029	3.728	mg/L
|	K	39	3059418.258	19.39	0.4983	0.017	3.326	mg/L
|	Ca	43	17600.600	0.12	1.3119	0.052	3.987	mg/L
|	Fe	54	1865676.399	13.21	3.9050	0.120	3.080	mg/L
|	Fe	57	790618.486	5.64	3.9503	0.182	4.608	mg/L
⌊>	Sc-1	45	138874.793	138874.79				mg/L
	Cl	35	11136.868	1286.68				mg/L
	Kr	83	73.668	1.67				mg/L
	Br	81	5282.729	-742.42				mg/L
	P	31	59211.134	53478.13				mg/L
	S	34	99144.943	-18774.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.044			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.773			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.013			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.340			
⌈	Na	23					

Sample ID: L1103061231
Report Date/Time: Tuesday, March 29, 2011 13:35:27
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061232

Sample Date/Time: Tuesday, March 29, 2011 13:40:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 78
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17031.266	0.00				ug/L
|	Be	9	79.334	0.00	0.2619	0.032	12.289	ug/L
|	Al	27	19834250.702	135.02	4022.5033	301.472	7.495	ug/L
⌊>	Sc	45	147040.331	147040.33				ug/L
⌈	Ti	49	30797.104	0.10	65.7806	1.395	2.121	ug/L
|	V	51	126346.552	0.41	16.0990	0.665	4.134	ug/L
|	Cr	52	56528.038	0.16	7.2705	0.323	4.437	ug/L
|	Cr	53	5975.716	0.02	7.4835	0.075	1.004	ug/L
|	Mn	55	2288115.853	7.60	228.4606	6.542	2.863	ug/L
|	Co	59	45919.065	0.15	5.8905	0.206	3.494	ug/L
|	Ni	60	10227.337	0.03	6.1637	0.284	4.602	ug/L
|	Cu	65	19462.808	0.06	11.5819	0.507	4.375	ug/L
|	Zn	66	33485.368	0.11	29.8220	1.334	4.472	ug/L
| >	Ge	72	301002.261	301002.26				ug/L
|	As	75	4421.666	0.02	4.3638	0.173	3.957	ug/L
|	Se	77	72.000	0.00	-0.0649	0.268	413.089	ug/L
|	Se	82	5.255	0.00	0.1427	0.105	73.659	ug/L
⌊	Rb	85	36900.411	0.12				mg/L
	Y	89	271373.465	55336.52				ug/L
	Rh	103	24.000	-0.67				ug/L
⌈	Mo	98	295.697	0.00	0.0947	0.011	12.074	ug/L
|	Ag	107	318.675	0.00	0.0517	0.003	6.713	ug/L
|	Cd	114	70.101	0.00	0.0531	0.016	29.999	ug/L
| >	In	115	286806.339	286806.34				ug/L
|	Sn	118	221.202	0.00	-0.0569	0.001	1.706	ug/L
⌊	Sb	123	93.901	0.00	0.0341	0.005	14.754	ug/L
⌈	Ba	135	91165.143	0.25	59.6515	2.266	3.799	ug/L
|	Ce	140	226429.863	0.61				ug/L
⌊>	Tb	159	368640.278	368640.28				ug/L
⌈	Ho	165	4424.755	0.01				ug/L
|	Tl	203	308.341	0.00	0.0523	0.003	6.109	ug/L
|	Tl	205	766.773	0.00	0.0462	0.005	11.016	ug/L
|	Pb	206	44001.435	0.14	7.9280	0.321	4.050	ug/L
|	Pb	207	37115.509	0.11	7.1127	0.302	4.250	ug/L
|	Pb	208	174482.125	0.54	7.5012	0.331	4.414	ug/L
|	U	238	18577.454	0.06	0.5350	0.030	5.683	ug/L
⌊>	Bi	209	323272.568	323272.57				ug/L

Sample ID: L1103061232
Report Date/Time: Tuesday, March 29, 2011 13:42:15
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	345941.269	0.97	0.0460	0.006	12.607	mg/L
|	Mg	24	4621890.494	31.46	1.5811	0.094	5.926	mg/L
|	K	39	4479692.538	27.86	0.7185	0.043	5.954	mg/L
|	Ca	43	20964.084	0.14	1.4823	0.116	7.796	mg/L
|	Fe	54	3994923.600	26.97	7.9760	0.516	6.474	mg/L
|	Fe	57	1714463.973	11.62	8.1385	0.470	5.776	mg/L
⌊>	Sc-1	45	147040.331	147040.33				mg/L
	Cl	35	12015.882	2165.70				mg/L
	Kr	83	85.668	13.67				mg/L
	Br	81	5853.713	-171.44				mg/L
	P	31	106920.242	101187.24				mg/L
	S	34	97709.825	-20209.40				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.591			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.307			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.163			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.164			
⌈	Na	23					

Sample ID: L1103061232
Report Date/Time: Tuesday, March 29, 2011 13:42:15
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061232PS WG360220-01

Sample Date/Time: Tuesday, March 29, 2011 13:46:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 79
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17064.555	0.00				ug/L
|	Be	9	17250.888	0.11	63.1358	2.336	3.700	ug/L
|	Al	27	20081084.011	133.38	3973.4035	80.363	2.023	ug/L
⌊>	Sc	45	150458.994	150458.99				ug/L
⌈	Ti	49	29824.127	0.10	63.9608	3.193	4.991	ug/L
|	V	51	573491.985	1.90	74.6003	2.834	3.799	ug/L
|	Cr	52	451607.849	1.47	68.0047	2.662	3.914	ug/L
|	Cr	53	51792.617	0.17	67.4080	3.855	5.718	ug/L
|	Mn	55	2865244.133	9.56	287.3095	8.911	3.102	ug/L
|	Co	59	520547.394	1.74	67.1752	2.386	3.552	ug/L
|	Ni	60	111834.258	0.37	68.4175	3.079	4.501	ug/L
|	Cu	65	125179.912	0.42	75.3256	2.534	3.363	ug/L
|	Zn	66	99442.648	0.33	95.6007	2.806	2.936	ug/L
|>	Ge	72	299753.342	299753.34				ug/L
|	As	75	69720.073	0.23	67.0134	2.582	3.853	ug/L
|	Se	77	5403.462	0.02	66.1829	3.412	5.156	ug/L
|	Se	82	6517.192	0.02	65.9365	3.396	5.151	ug/L
⌊	Rb	85	37057.956	0.12				mg/L
	Y	89	264217.942	48180.99				ug/L
	Rh	103	52.001	27.33				ug/L
⌈	Mo	98	316.670	0.00	0.1034	0.006	5.448	ug/L
|	Ag	107	356969.649	1.26	62.5566	1.624	2.597	ug/L
|	Cd	114	76960.539	0.27	64.4359	2.424	3.761	ug/L
|>	In	115	283339.123	283339.12				ug/L
|	Sn	118	274.937	0.00	-0.0435	0.004	8.271	ug/L
⌊	Sb	123	244789.367	0.86	62.7995	1.911	3.043	ug/L
⌈	Ba	135	181182.005	0.49	119.0555	3.424	2.876	ug/L
|	Ce	140	225625.617	0.61				ug/L
⌊>	Tb	159	366996.721	366996.72				ug/L
⌈	Ho	165	4294.686	0.01				ug/L
|	Tl	203	409916.724	1.29	60.5199	1.296	2.142	ug/L
|	Tl	205	1015620.091	3.19	61.2523	2.372	3.873	ug/L
|	Pb	206	388728.900	1.22	71.4698	1.814	2.538	ug/L
|	Pb	207	343635.768	1.08	67.2013	1.342	1.996	ug/L
|	Pb	208	1580302.710	4.96	69.3368	1.609	2.320	ug/L
|	U	238	2182095.896	6.85	64.0868	1.824	2.846	ug/L
⌊>	Bi	209	318293.542	318293.54				ug/L

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 13:49:04
Page 1

Approved: March 30, 2011

⌈	Na	23	337401.899	0.86	0.0421	0.001	3.549	mg/L
|	Mg	24	4514433.851	30.00	1.5075	0.059	3.892	mg/L
|	K	39	4403035.690	26.65	0.6872	0.033	4.834	mg/L
|	Ca	43	20082.177	0.13	1.3852	0.064	4.626	mg/L
|	Fe	54	3851010.872	25.40	7.5118	0.272	3.616	mg/L
|	Fe	57	1690809.525	11.19	7.8398	0.212	2.701	mg/L
⌊>	Sc-1	45	150458.994	150458.99				mg/L
	Cl	35	12664.017	2813.83				mg/L
	Kr	83	83.001	11.00				mg/L
	Br	81	5780.337	-244.82				mg/L
	P	31	104345.324	98612.32				mg/L
	S	34	107421.028	-10498.19				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.195			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.154			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.730			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.590			
⌈	Na	23					

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 13:49:04
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 13:53:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15979.490	0.01				ug/L
|	Be	9	13551.176	0.11	58.1207	0.547	0.941	ug/L
|	Al	27	239023.292	1.82	53.8261	0.974	1.810	ug/L
⌊>	Sc	45	128284.292	128284.29				ug/L
⌈	Ti	49	47118.805	0.16	102.9107	2.046	1.989	ug/L
|	V	51	388152.396	1.31	51.2573	0.799	1.559	ug/L
|	Cr	52	340000.410	1.12	51.7617	0.328	0.633	ug/L
|	Cr	53	38866.052	0.13	51.3870	2.399	4.669	ug/L
|	Mn	55	519299.164	1.76	52.8363	0.823	1.558	ug/L
|	Co	59	404844.274	1.37	53.1447	0.528	0.994	ug/L
|	Ni	60	85533.802	0.29	53.2192	1.059	1.990	ug/L
|	Cu	65	86816.471	0.29	53.1192	1.141	2.147	ug/L
|	Zn	66	54980.276	0.18	52.2969	0.514	0.983	ug/L
| >	Ge	72	294692.570	294692.57				ug/L
|	As	75	52960.735	0.18	51.8171	0.507	0.978	ug/L
|	Se	77	4387.630	0.01	54.5029	1.468	2.693	ug/L
|	Se	82	5108.507	0.02	52.5961	0.551	1.048	ug/L
⌊	Rb	85	2008.222	0.01				mg/L
	Y	89	200350.481	-15686.47				ug/L
	Rh	103	30.334	5.67				ug/L
⌈	Mo	98	284336.305	1.01	101.1448	2.189	2.164	ug/L
|	Ag	107	286579.307	1.02	50.4903	0.805	1.595	ug/L
|	Cd	114	62465.431	0.22	52.5815	0.744	1.415	ug/L
| >	In	115	281898.500	281898.50				ug/L
|	Sn	118	216731.674	0.77	51.5721	0.343	0.666	ug/L
⌊	Sb	123	201673.000	0.72	52.0179	0.676	1.299	ug/L
⌈	Ba	135	76871.112	0.21	51.2865	1.266	2.469	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	361519.361	361519.36				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	332809.767	1.09	51.4280	0.672	1.308	ug/L
|	Tl	205	817336.098	2.69	51.5930	0.277	0.537	ug/L
|	Pb	206	271070.370	0.89	52.1551	0.763	1.462	ug/L
|	Pb	207	253211.457	0.83	51.8224	0.551	1.064	ug/L
|	Pb	208	1125677.176	3.70	51.6868	0.592	1.146	ug/L
|	U	238	1915918.900	6.30	58.8945	0.128	0.217	ug/L
⌊>	Bi	209	304182.339	304182.34				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 13:55:51
Page 1

Approved: March 30, 2011

⌈	Na	23	19603297.271	151.44	5.2570	0.074	1.411	mg/L
|	Mg	24	13456649.363	104.90	5.2822	0.056	1.067	mg/L
|	K	39	26542885.207	204.28	5.3061	0.079	1.481	mg/L
|	Ca	43	65849.392	0.51	5.4115	0.121	2.234	mg/L
|	Fe	54	2406837.922	18.53	5.4806	0.131	2.395	mg/L
|	Fe	57	1033494.438	8.01	5.6064	0.069	1.230	mg/L
⌊>	Sc-1	45	128284.292	128284.29				mg/L
	Cl	35	10512.190	662.01				mg/L
	Kr	83	63.001	-9.00				mg/L
	Br	81	5436.813	-588.34				mg/L
	P	31	5414.801	-318.20				mg/L
	S	34	122925.037	5005.82				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	102.515				
|	Cr	52	103.523				
|	Cr	53					
|	Mn	55	105.673				
|	Co	59	106.289				
|	Ni	60	106.438				
|	Cu	65	106.238				
|	Zn	66	104.594				
|>	Ge	72		93.587			
|	As	75	103.634				
|	Se	77					
|	Se	82	105.192				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	100.981				
|	Cd	114	105.163				
|>	In	115		93.676			
|	Sn	118					
⌊	Sb	123	104.036				
⌈	Ba	135	102.573				
|	Ce	140					
⌊>	Tb	159		95.287			
⌈	Ho	165					
|	Tl	203	102.856				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	103.374				
|	U	238	117.789				
⌊>	Bi	209		96.131			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 13:55:51
Page 2

Approved: March 30, 2011

Erin D. Long

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 13:55:51
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 14:00:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16062.916	0.01				ug/L
|	Be	9	15.333	0.00	0.0293	0.035	119.025	ug/L
|	Al	27	4701.111	-0.01	-0.6483	0.088	13.580	ug/L
⌊>	Sc	45	134669.927	134669.93				ug/L
⌈	Ti	49	46.671	-0.00	-0.0960	0.043	44.750	ug/L
|	V	51	2271.025	-0.00	-0.0505	0.006	11.065	ug/L
|	Cr	52	7407.483	-0.01	-0.2504	0.029	11.671	ug/L
|	Cr	53	183.353	-0.00	-0.0588	0.065	110.041	ug/L
|	Mn	55	404.012	-0.00	-0.1291	0.001	1.017	ug/L
|	Co	59	94.001	-0.00	-0.0001	0.002	3717.412	ug/L
|	Ni	60	73.334	-0.00	-0.0296	0.004	14.929	ug/L
|	Cu	65	143.336	-0.00	-0.0108	0.002	21.916	ug/L
|	Zn	66	456.015	-0.00	-2.9155	0.044	1.515	ug/L
|>	Ge	72	302339.247	302339.25				ug/L
|	As	75	-147.428	0.00	-0.0004	0.045	10084.008	ug/L
|	Se	77	56.000	-0.00	-0.2643	0.164	62.155	ug/L
|	Se	82	0.780	-0.00	0.0958	0.176	184.017	ug/L
⌊	Rb	85	38.000	0.00				mg/L
	Y	89	206201.645	-9835.30				ug/L
	Rh	103	24.334	-0.33				ug/L
⌈	Mo	98	133.769	0.00	0.0379	0.004	9.869	ug/L
|	Ag	107	82.001	0.00	0.0107	0.001	8.837	ug/L
|	Cd	114	-5.375	-0.00	-0.0092	0.008	82.922	ug/L
|>	In	115	287829.342	287829.34				ug/L
|	Sn	118	232.536	0.00	-0.0545	0.006	10.723	ug/L
⌊	Sb	123	255.952	0.00	0.0748	0.008	10.082	ug/L
⌈	Ba	135	53.334	-0.00	0.0107	0.007	63.162	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	367833.970	367833.97				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	59.667	0.00	0.0165	0.002	9.658	ug/L
|	Tl	205	136.681	0.00	0.0090	0.002	27.599	ug/L
|	Pb	206	299.007	0.00	0.0103	0.001	13.814	ug/L
|	Pb	207	250.339	-0.00	0.0084	0.001	12.967	ug/L
|	Pb	208	1161.038	0.00	0.0073	0.001	14.799	ug/L
|	U	238	141.336	0.00	0.0017	0.001	39.447	ug/L
⌊>	Bi	209	311854.774	311854.77				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 14:02:35
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	181005.296	-0.03	0.0111	0.004	34.478	mg/L
|	Mg	24	850.122	0.00	-0.0044	0.000	1.214	mg/L
|	K	39	344775.282	-0.07	-0.0078	0.003	42.458	mg/L
|	Ca	43	310.036	-0.00	-0.0071	0.006	88.165	mg/L
|	Fe	54	32899.029	0.01	0.0002	0.003	1388.753	mg/L
|	Fe	57	6075.786	-0.01	-0.0065	0.002	34.132	mg/L
⌊>	Sc-1	45	134669.927	134669.93				mg/L
	Cl	35	9742.077	-108.11				mg/L
	Kr	83	63.668	-8.33				mg/L
	Br	81	5676.277	-348.88				mg/L
	P	31	5652.943	-80.06				mg/L
	S	34	113220.308	-4698.91				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.016			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.646			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.951			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.555			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 14:02:35

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 14:02:35
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061232SDL WG360220-02

Sample Date/Time: Tuesday, March 29, 2011 14:07:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 80
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18149.857	0.02				ug/L
|	Be	9	27.333	0.00	0.0745	0.043	57.755	ug/L
|	Al	27	3685579.604	26.76	796.9542	8.559	1.074	ug/L
⌊>	Sc	45	137505.806	137505.81				ug/L
⌈	Ti	49	5758.900	0.02	11.6983	0.085	0.729	ug/L
|	V	51	24307.642	0.07	2.7050	0.061	2.269	ug/L
|	Cr	52	15699.473	0.02	0.9367	0.039	4.183	ug/L
|	Cr	53	1223.531	0.00	1.2387	0.139	11.199	ug/L
|	Mn	55	412001.108	1.32	39.5184	0.232	0.587	ug/L
|	Co	59	8331.553	0.03	1.0204	0.004	0.370	ug/L
|	Ni	60	1865.859	0.01	1.0230	0.020	1.964	ug/L
|	Cu	65	3676.379	0.01	2.0303	0.039	1.910	ug/L
|	Zn	66	8556.745	0.03	4.8110	0.087	1.802	ug/L
| >	Ge	72	312228.889	312228.89				ug/L
|	As	75	677.877	0.00	0.7645	0.050	6.532	ug/L
|	Se	77	58.667	-0.00	-0.2562	0.131	51.030	ug/L
|	Se	82	5.371	0.00	0.1423	0.087	61.216	ug/L
⌊	Rb	85	6777.364	0.02				mg/L
	Y	89	224597.463	8560.51				ug/L
	Rh	103	20.667	-4.00				ug/L
⌈	Mo	98	91.174	0.00	0.0222	0.002	6.925	ug/L
|	Ag	107	89.668	0.00	0.0116	0.001	5.582	ug/L
|	Cd	114	14.623	0.00	0.0069	0.008	113.412	ug/L
| >	In	115	295695.707	295695.71				ug/L
|	Sn	118	124.401	-0.00	-0.0805	0.001	1.253	ug/L
⌊	Sb	123	104.195	0.00	0.0358	0.004	12.524	ug/L
⌈	Ba	135	16217.636	0.04	10.3553	0.219	2.115	ug/L
|	Ce	140	40104.276	0.11				ug/L
⌊>	Tb	159	377001.812	377001.81				ug/L
⌈	Ho	165	780.109	0.00				ug/L
|	Tl	203	107.668	0.00	0.0234	0.003	12.345	ug/L
|	Tl	205	220.024	0.00	0.0139	0.001	9.424	ug/L
|	Pb	206	7723.059	0.02	1.3779	0.024	1.729	ug/L
|	Pb	207	6664.620	0.02	1.2656	0.033	2.595	ug/L
|	Pb	208	30672.430	0.09	1.3046	0.011	0.826	ug/L
|	U	238	3093.509	0.01	0.0885	0.003	3.749	ug/L
⌊>	Bi	209	317740.935	317740.93				ug/L

Sample ID: L1103061232SDL WG360220-02
Report Date/Time: Tuesday, March 29, 2011 14:09:24
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	70622.310	-0.87	-0.0178	0.001	4.046	mg/L
|	Mg	24	908506.240	6.61	0.3284	0.010	3.005	mg/L
|	K	39	1202507.519	6.11	0.1530	0.006	3.797	mg/L
|	Ca	43	3691.051	0.02	0.2532	0.013	5.142	mg/L
|	Fe	54	762716.170	5.32	1.5698	0.042	2.661	mg/L
|	Fe	57	312560.811	2.22	1.5549	0.048	3.092	mg/L
⌊>	Sc-1	45	137505.806	137505.81				mg/L
	Cl	35	9680.684	-169.50				mg/L
	Kr	83	72.334	0.33				mg/L
	Br	81	5603.571	-421.58				mg/L
	P	31	21569.906	15836.90				mg/L
	S	34	98203.175	-19716.05				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.157			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.260			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.367			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.416			
⌈	Na	23					

Sample ID: L1103061232SDL WG360220-02
Report Date/Time: Tuesday, March 29, 2011 14:09:24
Page 2

Approved: March 30, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103061232SDL WG360220-02
Report Date/Time: Tuesday, March 29, 2011 14:09:24
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079018 WG359922-01

Sample Date/Time: Tuesday, March 29, 2011 14:14:00
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 81
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16947.735	-0.00				ug/L
|	Be	9	168.668	0.00	0.5693	0.188	32.948	ug/L
|	Al	27	26132481.254	169.91	5061.9865	521.217	10.297	ug/L
⌊>	Sc	45	153773.363	153773.36				ug/L
⌈	Ti	49	4004.545	0.01	8.2322	1.187	14.422	ug/L
|	V	51	72779.802	0.23	8.9575	0.641	7.158	ug/L
|	Cr	52	73298.793	0.21	9.6358	0.746	7.746	ug/L
|	Cr	53	7957.301	0.02	9.8805	0.717	7.256	ug/L
|	Mn	55	3373971.696	11.01	330.9218	22.530	6.808	ug/L
|	Co	59	60580.650	0.20	7.6349	0.464	6.076	ug/L
|	Ni	60	25202.059	0.08	15.0209	1.003	6.677	ug/L
|	Cu	65	23840.706	0.08	13.9527	0.975	6.985	ug/L
|	Zn	66	42721.109	0.14	38.2157	2.956	7.735	ug/L
| >	Ge	72	306546.259	306546.26				ug/L
|	As	75	7881.188	0.03	7.5338	0.672	8.914	ug/L
|	Se	77	99.334	0.00	0.2516	0.088	35.129	ug/L
|	Se	82	24.583	0.00	0.3327	0.058	17.308	ug/L
⌊	Rb	85	57396.919	0.19				mg/L
	Y	89	312671.822	96634.87				ug/L
	Rh	103	24.000	-0.67				ug/L
⌈	Mo	98	1997.133	0.01	0.6874	0.031	4.520	ug/L
|	Ag	107	230.338	0.00	0.0363	0.001	3.208	ug/L
|	Cd	114	80.930	0.00	0.0620	0.005	8.512	ug/L
| >	In	115	287620.798	287620.80				ug/L
|	Sn	118	133.734	-0.00	-0.0775	0.001	0.998	ug/L
⌊	Sb	123	111.817	0.00	0.0385	0.001	2.208	ug/L
⌈	Ba	135	104010.890	0.28	66.6179	3.645	5.471	ug/L
|	Ce	140	380442.588	1.01				ug/L
⌊>	Tb	159	376523.592	376523.59				ug/L
⌈	Ho	165	7490.226	0.02				ug/L
|	Tl	203	693.364	0.00	0.1095	0.007	6.340	ug/L
|	Tl	205	1586.952	0.00	0.0960	0.008	8.340	ug/L
|	Pb	206	43504.914	0.14	7.9318	0.661	8.339	ug/L
|	Pb	207	36444.936	0.11	7.0674	0.607	8.584	ug/L
|	Pb	208	172424.686	0.54	7.5007	0.583	7.778	ug/L
|	U	238	13674.834	0.04	0.3978	0.025	6.241	ug/L
⌊>	Bi	209	319491.082	319491.08				ug/L

Sample ID: L1103079018 WG359922-01
Report Date/Time: Tuesday, March 29, 2011 14:16:14
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	508024.329	1.92	0.0788	0.007	8.282	mg/L
|	Mg	24	6446495.916	41.92	2.1079	0.148	7.005	mg/L
|	K	39	2641489.608	14.54	0.3721	0.024	6.429	mg/L
|	Ca	43	75146.126	0.49	5.1493	0.289	5.608	mg/L
|	Fe	54	7192774.664	46.54	13.7693	0.886	6.436	mg/L
|	Fe	57	3059957.082	19.85	13.9024	0.837	6.018	mg/L
⌊>	Sc-1	45	153773.363	153773.36				mg/L
	Cl	35	16114.978	6264.79				mg/L
	Kr	83	86.335	14.33				mg/L
	Br	81	5846.376	-178.78				mg/L
	P	31	124809.036	119076.03				mg/L
	S	34	111069.724	-6849.50				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.352			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.577			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.241			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.969			
⌈	Na	23					

Sample ID: L1103079018 WG359922-01
Report Date/Time: Tuesday, March 29, 2011 14:16:14
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103079018 WG359922-01
Report Date/Time: Tuesday, March 29, 2011 14:16:14
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103053301

Sample Date/Time: Tuesday, March 29, 2011 14:20:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 94
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17782.478	0.03				ug/L
|	Be	9	14.000	-0.00	0.0257	0.010	38.752	ug/L
|	Al	27	32251.935	0.21	5.8242	0.243	4.172	ug/L
⌊>	Sc	45	127963.977	127963.98				ug/L
⌈	Ti	49	1817.014	0.01	4.0947	0.244	5.949	ug/L
|	V	51	6496.539	0.01	0.5867	0.013	2.206	ug/L
|	Cr	52	25738.678	0.06	2.9607	0.111	3.759	ug/L
|	Cr	53	5405.336	0.02	7.4584	0.406	5.442	ug/L
|	Mn	55	41947.223	0.15	4.4493	0.103	2.307	ug/L
|	Co	59	607.358	0.00	0.0739	0.000	0.272	ug/L
|	Ni	60	1323.434	0.00	0.8156	0.055	6.708	ug/L
|	Cu	65	889.715	0.00	0.4920	0.027	5.407	ug/L
|	Zn	66	6732.000	0.02	3.9872	0.201	5.052	ug/L
| >	Ge	72	273203.278	273203.28				ug/L
|	As	75	264.423	0.00	0.4182	0.055	13.074	ug/L
|	Se	77	553.349	0.00	6.5901	0.843	12.798	ug/L
|	Se	82	277.345	0.00	3.1664	0.251	7.931	ug/L
⌊	Rb	85	7807.792	0.03				mg/L
	Y	89	184698.652	-31338.30				ug/L
	Rh	103	72.001	47.33				ug/L
⌈	Mo	98	270.481	0.00	0.0983	0.004	3.854	ug/L
|	Ag	107	55.667	0.00	0.0075	0.001	19.860	ug/L
|	Cd	114	-1.001	0.00	-0.0058	0.006	109.075	ug/L
| >	In	115	253451.376	253451.38				ug/L
|	Sn	118	232.536	0.00	-0.0471	0.004	8.065	ug/L
⌊	Sb	123	247.905	0.00	0.0813	0.003	4.006	ug/L
⌈	Ba	135	51292.723	0.15	36.4552	0.274	0.753	ug/L
|	Ce	140	340.040	0.00				ug/L
⌊>	Tb	159	339223.814	339223.81				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	89.001	0.00	0.0246	0.001	2.215	ug/L
|	Tl	205	176.686	0.00	0.0145	0.002	15.030	ug/L
|	Pb	206	295.341	0.00	0.0250	0.006	22.702	ug/L
|	Pb	207	254.339	0.00	0.0234	0.006	26.643	ug/L
|	Pb	208	1158.704	0.00	0.0216	0.002	7.249	ug/L
|	U	238	553.021	0.00	0.0186	0.001	7.176	ug/L
⌊>	Bi	209	244063.299	244063.30				ug/L

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 14:23:04
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	34448120.624	269.35	13.5704	0.470	3.467	mg/L
|	K	39	4591603.730	33.25	0.8587	0.010	1.118	mg/L
|	Ca	43	105881.590	0.83	8.7442	0.127	1.456	mg/L
|	Fe	54	75436.814	0.36	0.1023	0.001	0.780	mg/L
|	Fe	57	30887.423	0.19	0.1309	0.004	2.877	mg/L
⌊>	Sc-1	45	127963.977	127963.98				mg/L
	Cl	35	4180692.035	4170841.85				mg/L
	Kr	83	76.334	4.33				mg/L
	Br	81	110724.334	104699.18				mg/L
	P	31	124446.247	118713.24				mg/L
	S	34	2834236.992	2716317.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.763			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		84.223			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		89.410			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		77.131			
⌈	Na	23					

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 14:23:04
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079018S WG359922-04

Sample Date/Time: Tuesday, March 29, 2011 14:28:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 82
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17164.730	0.02				ug/L
|	Be	9	1920.185	0.01	7.8415	0.470	5.997	ug/L
|	Al	27	23903019.112	178.00	5303.0252	497.361	9.379	ug/L
⌊>	Sc	45	134194.460	134194.46				ug/L
⌈	Ti	49	3557.658	0.01	8.0146	0.721	8.990	ug/L
|	V	51	110579.083	0.39	15.1568	1.364	9.000	ug/L
|	Cr	52	108192.184	0.35	16.4534	1.598	9.712	ug/L
|	Cr	53	12539.156	0.04	17.2882	1.749	10.118	ug/L
|	Mn	55	3280322.349	11.74	352.8940	31.359	8.886	ug/L
|	Co	59	113047.280	0.40	15.6410	1.313	8.392	ug/L
|	Ni	60	33657.747	0.12	22.0396	1.782	8.086	ug/L
|	Cu	65	36746.698	0.13	23.6559	2.049	8.660	ug/L
|	Zn	66	47789.223	0.17	47.6546	4.485	9.411	ug/L
| >	Ge	72	279555.712	279555.71				ug/L
|	As	75	8953.096	0.03	9.3513	0.597	6.380	ug/L
|	Se	77	522.014	0.00	6.0021	0.795	13.249	ug/L
|	Se	82	533.742	0.00	5.8747	0.415	7.068	ug/L
⌊	Rb	85	59380.632	0.21				mg/L
	Y	89	260106.909	44069.96				ug/L
	Rh	103	28.334	3.67				ug/L
⌈	Mo	98	391.888	0.00	0.1390	0.021	14.923	ug/L
|	Ag	107	7814.896	0.03	1.4622	0.924	63.163	ug/L
|	Cd	114	7257.934	0.03	6.4651	0.621	9.611	ug/L
| >	In	115	266329.215	266329.21				ug/L
|	Sn	118	129.468	0.00	-0.0761	0.002	2.301	ug/L
⌊	Sb	123	384.039	0.00	0.1151	0.004	3.278	ug/L
⌈	Ba	135	335646.026	0.95	229.4675	20.743	9.039	ug/L
|	Ce	140	323129.612	0.92				ug/L
⌊>	Tb	159	352999.386	352999.39				ug/L
⌈	Ho	165	5575.449	0.02				ug/L
|	Tl	203	40548.222	0.13	6.0227	0.573	9.517	ug/L
|	Tl	205	100542.789	0.32	6.0949	0.635	10.411	ug/L
|	Pb	206	82746.742	0.26	15.2532	1.512	9.916	ug/L
|	Pb	207	71381.113	0.22	13.9964	1.271	9.083	ug/L
|	Pb	208	329722.613	1.04	14.5036	1.369	9.439	ug/L
|	U	238	235443.424	0.74	6.9471	0.757	10.896	ug/L
⌊>	Bi	209	316892.508	316892.51				ug/L

Sample ID: L1103079018S WG359922-04
Report Date/Time: Tuesday, March 29, 2011 14:30:17
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	624075.414	3.27	0.1254	0.012	9.667	mg/L
Mg	24	8025300.597	59.79	3.0088	0.213	7.068	mg/L
K	39	2774285.034	18.03	0.4629	0.042	9.103	mg/L
Ca	43	212984.244	1.58	16.7908	1.421	8.466	mg/L
Fe	54	6674036.130	49.48	14.6396	1.411	9.639	mg/L
Fe	57	2889920.061	21.48	15.0435	1.170	7.780	mg/L
> Sc-1	45	134194.460	134194.46				mg/L
Cl	35	21643.426	11793.24				mg/L
Kr	83	70.668	-1.33				mg/L
Br	81	6196.588	171.43				mg/L
P	31	56389.871	50656.87				mg/L
S	34	127635.688	9716.47				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		88.780			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		88.502			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		93.041			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		100.147			
Na	23					

Sample ID: L1103079018S WG359922-04
Report Date/Time: Tuesday, March 29, 2011 14:30:17
Page 2

Approved: March 30, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Sample ID: L1103079018S WG359922-04
Report Date/Time: Tuesday, March 29, 2011 14:30:17
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079018SD WG359922-05

Sample Date/Time: Tuesday, March 29, 2011 14:34:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 83
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17481.941	0.02				ug/L
|	Be	9	1734.817	0.01	7.0164	0.296	4.213	ug/L
|	Al	27	23258067.564	171.69	5114.9212	207.740	4.061	ug/L
⌊>	Sc	45	135512.934	135512.93				ug/L
⌈	Ti	49	3084.120	0.01	6.7323	0.596	8.856	ug/L
|	V	51	104683.655	0.35	13.9450	0.809	5.802	ug/L
|	Cr	52	102376.566	0.32	15.0532	0.825	5.478	ug/L
|	Cr	53	11898.280	0.04	15.9521	0.790	4.955	ug/L
|	Mn	55	2735169.963	9.53	286.5494	13.534	4.723	ug/L
|	Co	59	104506.934	0.36	14.0809	0.664	4.716	ug/L
|	Ni	60	31904.930	0.11	20.3416	1.191	5.857	ug/L
|	Cu	65	33827.876	0.12	21.1970	0.852	4.019	ug/L
|	Zn	66	46299.831	0.16	44.7723	1.253	2.799	ug/L
|>	Ge	72	286895.269	286895.27				ug/L
|	As	75	8401.318	0.03	8.5585	0.431	5.035	ug/L
|	Se	77	416.009	0.00	4.4420	0.376	8.465	ug/L
|	Se	82	423.289	0.00	4.5574	0.183	4.005	ug/L
⌊	Rb	85	52241.163	0.18				mg/L
	Y	89	259420.992	43384.04				ug/L
	Rh	103	32.000	7.33				ug/L
⌈	Mo	98	414.926	0.00	0.1445	0.010	6.754	ug/L
|	Ag	107	12531.978	0.05	2.2889	0.082	3.583	ug/L
|	Cd	114	6757.565	0.02	5.9014	0.283	4.804	ug/L
|>	In	115	271520.293	271520.29				ug/L
|	Sn	118	162.268	0.00	-0.0686	0.001	1.013	ug/L
⌊	Sb	123	474.247	0.00	0.1372	0.010	7.452	ug/L
⌈	Ba	135	282990.402	0.80	191.9162	9.973	5.197	ug/L
|	Ce	140	277625.658	0.78				ug/L
⌊>	Tb	159	355707.539	355707.54				ug/L
⌈	Ho	165	4961.730	0.01				ug/L
|	Tl	203	36292.891	0.11	5.1642	0.246	4.762	ug/L
|	Tl	205	90043.198	0.27	5.2277	0.227	4.347	ug/L
|	Pb	206	75317.961	0.23	13.2925	0.461	3.471	ug/L
|	Pb	207	64814.681	0.20	12.1669	0.521	4.285	ug/L
|	Pb	208	300925.558	0.91	12.6728	0.476	3.753	ug/L
|	U	238	213326.914	0.64	6.0284	0.232	3.850	ug/L
⌊>	Bi	209	330690.294	330690.29				ug/L

Sample ID: L1103079018SD WG359922-05
Report Date/Time: Tuesday, March 29, 2011 14:37:03
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	536294.612	2.58	0.1015	0.007	6.737	mg/L
|	Mg	24	6753631.260	49.87	2.5086	0.109	4.362	mg/L
|	K	39	2498642.425	15.81	0.4053	0.018	4.430	mg/L
|	Ca	43	58349.121	0.43	4.5386	0.271	5.967	mg/L
|	Fe	54	6048519.776	44.45	13.1504	0.976	7.422	mg/L
|	Fe	57	2648470.071	19.50	13.6582	0.704	5.157	mg/L
⌊>	Sc-1	45	135512.934	135512.93				mg/L
	Cl	35	16028.169	6177.99				mg/L
	Kr	83	83.668	11.67				mg/L
	Br	81	5321.417	-703.74				mg/L
	P	31	60908.647	55175.64				mg/L
	S	34	111484.155	-6435.07				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.111			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.227			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.755			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.508			
⌈	Na	23					

Sample ID: L1103079018SD WG359922-05
Report Date/Time: Tuesday, March 29, 2011 14:37:03
Page 2

Approved: March 30, 2011

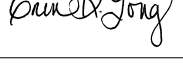
Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Sample ID: L1103079018SD WG359922-05
Report Date/Time: Tuesday, March 29, 2011 14:37:03
Page 3

Approved: March 30, 2011



Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 14:42:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16313.427	0.02				ug/L
|	Be	9	13773.480	0.11	59.5802	1.602	2.688	ug/L
|	Al	27	236362.304	1.82	53.7258	3.611	6.721	ug/L
|>	Sc	45	127272.091	127272.09				ug/L
⌈	Ti	49	43599.193	0.15	95.5517	1.146	1.199	ug/L
|	V	51	361514.240	1.22	47.8903	1.086	2.267	ug/L
|	Cr	52	322877.528	1.07	49.2706	1.198	2.431	ug/L
|	Cr	53	38015.955	0.13	50.4471	1.553	3.079	ug/L
|	Mn	55	498750.197	1.70	50.9198	0.531	1.043	ug/L
|	Co	59	393971.337	1.34	51.9024	0.135	0.259	ug/L
|	Ni	60	85167.668	0.29	53.1782	0.467	0.877	ug/L
|	Cu	65	86400.178	0.29	53.0501	0.361	0.680	ug/L
|	Zn	66	52877.628	0.18	50.3599	0.312	0.619	ug/L
|>	Ge	72	293630.497	293630.50				ug/L
|	As	75	50224.552	0.17	49.3226	0.379	0.769	ug/L
|	Se	77	4021.476	0.01	50.0550	1.535	3.067	ug/L
|	Se	82	4927.241	0.02	50.9192	0.373	0.732	ug/L
⌊	Rb	85	1922.204	0.01				mg/L
	Y	89	199167.008	-16869.94				ug/L
	Rh	103	40.000	15.33				ug/L
⌈	Mo	98	279486.093	1.01	100.7921	0.907	0.900	ug/L
|	Ag	107	255252.448	0.92	45.5926	0.448	0.982	ug/L
|	Cd	114	57915.747	0.21	49.4213	0.290	0.586	ug/L
|>	In	115	278024.251	278024.25				ug/L
|	Sn	118	211434.619	0.76	51.0150	0.607	1.190	ug/L
⌊	Sb	123	190709.621	0.69	49.8781	0.969	1.942	ug/L
⌈	Ba	135	72474.070	0.20	48.1527	0.556	1.154	ug/L
|	Ce	140	50.005	0.00				ug/L
|>	Tb	159	362937.879	362937.88				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	331580.025	1.02	48.0583	0.682	1.418	ug/L
|	Tl	205	820613.795	2.53	48.5868	0.552	1.137	ug/L
|	Pb	206	268611.806	0.83	48.4692	0.500	1.031	ug/L
|	Pb	207	252396.961	0.78	48.4480	0.829	1.711	ug/L
|	Pb	208	1128503.256	3.48	48.5969	0.646	1.329	ug/L
|	U	238	1859580.480	5.73	53.6186	1.016	1.895	ug/L
|>	Bi	209	324303.801	324303.80				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 14:44:54
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	18925605.159	147.40	5.1171	0.128	2.508	mg/L	
Mg	24	13289333.141	104.48	5.2612	0.151	2.878	mg/L	
K	39	25329647.851	196.52	5.1043	0.161	3.153	mg/L	
Ca	43	61380.658	0.48	5.0855	0.176	3.459	mg/L	
Fe	54	2371064.313	18.40	5.4419	0.047	0.871	mg/L	
Fe	57	1002263.907	7.83	5.4847	0.242	4.407	mg/L	
> Sc-1	45	127272.091	127272.09				mg/L	
Cl	35	11363.788	1513.60				mg/L	
Kr	83	84.001	12.00				mg/L	
Br	81	5268.723	-756.43				mg/L	
P	31	5050.612	-682.39				mg/L	
S	34	123102.947	5183.73				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	95.781				
Cr	52	98.541				
Cr	53					
Mn	55	101.840				
Co	59	103.805				
Ni	60	106.356				
Cu	65	106.100				
Zn	66	100.720				
> Ge	72		93.250			
As	75	98.645				
Se	77					
Se	82	101.838				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	91.185				
Cd	114	98.843				
> In	115		92.388			
Sn	118					
Sb	123	99.756				
Ba	135	96.305				
Ce	140					
> Tb	159		95.660			
Ho	165					
Tl	203	96.117				
Tl	205					
Pb	206					
Pb	207					
Pb	208	97.194				
U	238	107.237				
> Bi	209		102.490			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 14:44:54
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 14:44:54
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 14:49:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17315.000	0.02				ug/L
|	Be	9	22.000	0.00	0.0584	0.044	75.570	ug/L
|	Al	27	5434.816	-0.00	-0.4529	0.095	20.962	ug/L
⌊>	Sc	45	131002.769	131002.77				ug/L
⌈	Ti	49	30.003	-0.00	-0.1302	0.022	16.763	ug/L
|	V	51	2214.197	-0.00	-0.0530	0.003	5.551	ug/L
|	Cr	52	7156.965	-0.01	-0.2702	0.006	2.253	ug/L
|	Cr	53	353.375	0.00	0.1687	0.045	26.951	ug/L
|	Mn	55	437.014	-0.00	-0.1251	0.001	0.783	ug/L
|	Co	59	83.335	-0.00	-0.0012	0.000	32.398	ug/L
|	Ni	60	69.334	-0.00	-0.0313	0.005	14.769	ug/L
|	Cu	65	163.003	0.00	0.0027	0.006	224.908	ug/L
|	Zn	66	422.680	-0.00	-2.9409	0.016	0.553	ug/L
|>	Ge	72	297239.481	297239.48				ug/L
|	As	75	-95.337	0.00	0.0479	0.029	60.277	ug/L
|	Se	77	74.667	0.00	-0.0205	0.242	1178.203	ug/L
|	Se	82	18.797	0.00	0.2815	0.012	4.133	ug/L
⌊	Rb	85	33.000	-0.00				mg/L
	Y	89	202625.891	-13411.06				ug/L
	Rh	103	15.333	-9.33				ug/L
⌈	Mo	98	127.883	0.00	0.0366	0.010	26.914	ug/L
|	Ag	107	213.338	0.00	0.0339	0.003	8.343	ug/L
|	Cd	114	-0.928	0.00	-0.0056	0.002	36.168	ug/L
|>	In	115	283369.347	283369.35				ug/L
|	Sn	118	219.202	0.00	-0.0568	0.004	6.654	ug/L
⌊	Sb	123	86.777	0.00	0.0325	0.002	5.499	ug/L
⌈	Ba	135	45.334	-0.00	0.0056	0.008	144.077	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	365821.355	365821.35				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	98.001	0.00	0.0220	0.002	11.143	ug/L
|	Tl	205	233.359	0.00	0.0147	0.003	19.055	ug/L
|	Pb	206	288.007	0.00	0.0071	0.003	42.037	ug/L
|	Pb	207	260.339	-0.00	0.0094	0.003	27.482	ug/L
|	Pb	208	1204.041	0.00	0.0081	0.001	17.653	ug/L
|	U	238	174.337	0.00	0.0026	0.001	35.502	ug/L
⌊>	Bi	209	318311.992	318311.99				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 14:51:38
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	110218.701	-0.54	-0.0065	0.000	5.954	mg/L
|	Mg	24	1096.840	0.01	-0.0043	0.000	2.994	mg/L
|	K	39	352041.010	0.05	-0.0046	0.002	46.978	mg/L
|	Ca	43	270.031	-0.00	-0.0097	0.002	19.281	mg/L
|	Fe	54	31598.328	0.01	-0.0007	0.003	394.896	mg/L
|	Fe	57	5865.640	-0.01	-0.0068	0.001	18.054	mg/L
⌊>	Sc-1	45	131002.769	131002.77				mg/L
	Cl	35	10774.469	924.29				mg/L
	Kr	83	61.667	-10.33				mg/L
	Br	81	5620.913	-404.24				mg/L
	P	31	5866.403	133.40				mg/L
	S	34	119188.326	1269.11				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.396			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.164			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.420			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.596			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 14:51:38
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 14:51:38
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103092505

Sample Date/Time: Tuesday, March 29, 2011 14:56:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 128
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17248.207	0.00				ug/L
|	Be	9	118.001	0.00	0.4058	0.048	11.747	ug/L
|	Al	27	19802401.243	134.33	4001.9418	60.728	1.517	ug/L
⌊>	Sc	45	147344.466	147344.47				ug/L
⌈	Ti	49	1066.830	0.00	2.0879	0.190	9.116	ug/L
|	V	51	39257.981	0.12	4.7570	0.075	1.576	ug/L
|	Cr	52	20881.321	0.04	1.8111	0.018	0.988	ug/L
|	Cr	53	2033.744	0.01	2.3470	0.122	5.184	ug/L
|	Mn	55	2264191.763	7.51	225.7565	5.596	2.479	ug/L
|	Co	59	65433.724	0.22	8.3873	0.205	2.444	ug/L
|	Ni	60	5243.760	0.02	3.1198	0.078	2.497	ug/L
|	Cu	65	4189.919	0.01	2.4139	0.018	0.726	ug/L
|	Zn	66	9162.954	0.03	5.7033	0.144	2.521	ug/L
| >	Ge	72	301479.725	301479.73				ug/L
|	As	75	484.555	0.00	0.6026	0.064	10.620	ug/L
|	Se	77	119.334	0.00	0.5194	0.190	36.501	ug/L
|	Se	82	11.186	0.00	0.2042	0.238	116.808	ug/L
⌊	Rb	85	13934.508	0.05				mg/L
	Y	89	347588.533	131551.58				ug/L
	Rh	103	21.667	-3.00				ug/L
⌈	Mo	98	72.727	0.00	0.0176	0.006	36.059	ug/L
|	Ag	107	1016.395	0.00	0.1792	0.012	6.762	ug/L
|	Cd	114	24.827	0.00	0.0165	0.002	9.806	ug/L
| >	In	115	276449.491	276449.49				ug/L
|	Sn	118	129.468	-0.00	-0.0773	0.000	0.607	ug/L
⌊	Sb	123	49.651	0.00	0.0233	0.002	7.402	ug/L
⌈	Ba	135	8727.228	0.02	5.6752	0.060	1.059	ug/L
|	Ce	140	668060.323	1.81				ug/L
⌊>	Tb	159	369390.818	369390.82				ug/L
⌈	Ho	165	11217.410	0.04				ug/L
|	Tl	203	375.344	0.00	0.0641	0.001	0.883	ug/L
|	Tl	205	836.785	0.00	0.0521	0.004	7.362	ug/L
|	Pb	206	4946.273	0.01	0.8832	0.016	1.816	ug/L
|	Pb	207	3635.031	0.01	0.6846	0.023	3.338	ug/L
|	Pb	208	18295.784	0.06	0.7753	0.003	0.420	ug/L
|	U	238	7107.931	0.02	0.2106	0.005	2.315	ug/L
⌊>	Bi	209	311817.453	311817.45				ug/L

Sample ID: L1103092505
Report Date/Time: Tuesday, March 29, 2011 14:58:29
Page 1

Approved: March 30, 2011

⌈	Na	23	122501.344	-0.55	-0.0068	0.001	12.277	mg/L
|	Mg	24	275818.379	1.87	0.0896	0.003	2.818	mg/L
|	K	39	1103236.300	4.85	0.1203	0.004	2.942	mg/L
|	Ca	43	1230.201	0.01	0.0568	0.016	28.470	mg/L
|	Fe	54	19116541.985	129.52	38.3244	0.316	0.825	mg/L
|	Fe	57	8239315.689	55.88	39.1446	0.602	1.539	mg/L
⌊>	Sc-1	45	147344.466	147344.47				mg/L
	Cl	35	12887.637	3037.45				mg/L
	Kr	83	93.668	21.67				mg/L
	Br	81	5470.831	-554.32				mg/L
	P	31	29074.876	23341.87				mg/L
	S	34	109644.532	-8274.69				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.743			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.865			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.361			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.544			
⌈	Na	23					

Sample ID: L1103092505
Report Date/Time: Tuesday, March 29, 2011 14:58:29
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103092505
Report Date/Time: Tuesday, March 29, 2011 14:58:29

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103092505PS WG360123-01

Sample Date/Time: Tuesday, March 29, 2011 15:03:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 129
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	14927.892	-0.01				ug/L
|	Be	9	13864.939	0.10	53.0004	1.116	2.105	ug/L
|	Al	27	19571492.664	135.96	4050.3263	130.410	3.220	ug/L
⌊>	Sc	45	143979.612	143979.61				ug/L
⌈	Ti	49	1270.208	0.00	2.6236	0.125	4.748	ug/L
|	V	51	402366.238	1.37	53.8885	1.869	3.468	ug/L
|	Cr	52	341815.496	1.14	52.7899	1.719	3.257	ug/L
|	Cr	53	39364.720	0.13	52.7807	2.245	4.253	ug/L
|	Mn	55	2762376.882	9.50	285.7100	6.067	2.123	ug/L
|	Co	59	466912.267	1.61	62.1520	1.157	1.861	ug/L
|	Ni	60	89996.332	0.31	56.7789	1.488	2.621	ug/L
|	Cu	65	92615.669	0.32	57.4635	1.019	1.774	ug/L
|	Zn	66	63704.663	0.22	62.0298	1.193	1.923	ug/L
|>	Ge	72	290593.826	290593.83				ug/L
|	As	75	53179.404	0.18	52.7562	1.338	2.536	ug/L
|	Se	77	4523.690	0.02	57.0256	0.703	1.233	ug/L
|	Se	82	5350.117	0.02	55.8575	1.781	3.188	ug/L
⌊	Rb	85	14125.784	0.05				mg/L
	Y	89	348167.668	132130.72				ug/L
	Rh	103	41.334	16.67				ug/L
⌈	Mo	98	95.398	0.00	0.0263	0.002	9.381	ug/L
|	Ag	107	278449.948	1.02	50.5142	1.702	3.370	ug/L
|	Cd	114	61348.861	0.22	53.1752	1.350	2.538	ug/L
|>	In	115	273711.599	273711.60				ug/L
|	Sn	118	156.935	0.00	-0.0702	0.002	3.114	ug/L
⌊	Sb	123	197040.446	0.72	52.3337	0.848	1.620	ug/L
⌈	Ba	135	82593.595	0.23	54.4181	1.420	2.609	ug/L
|	Ce	140	673156.948	1.84				ug/L
⌊>	Tb	159	366033.711	366033.71				ug/L
⌈	Ho	165	11634.595	0.04				ug/L
|	Tl	203	334714.208	1.08	50.9075	1.652	3.245	ug/L
|	Tl	205	822407.982	2.66	51.0992	1.863	3.646	ug/L
|	Pb	206	286111.007	0.92	54.1787	1.538	2.839	ug/L
|	Pb	207	252164.416	0.82	50.7913	1.300	2.560	ug/L
|	Pb	208	1158450.989	3.74	52.3494	1.380	2.636	ug/L
|	U	238	1800591.260	5.83	54.4729	1.074	1.971	ug/L
⌊>	Bi	209	309099.811	309099.81				ug/L

Sample ID: L1103092505PS WG360123-01
Report Date/Time: Tuesday, March 29, 2011 15:05:19
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	121472.070	-0.54	-0.0064	0.001	11.513	mg/L
|	Mg	24	272973.085	1.89	0.0909	0.001	1.269	mg/L
|	K	39	1090290.164	4.93	0.1224	0.007	5.387	mg/L
|	Ca	43	1110.173	0.01	0.0501	0.004	8.240	mg/L
|	Fe	54	19128610.563	132.64	39.2478	1.176	2.997	mg/L
|	Fe	57	8336779.078	57.87	40.5424	1.519	3.747	mg/L
⌊>	Sc-1	45	143979.612	143979.61				mg/L
	Cl	35	12995.106	3144.92				mg/L
	Kr	83	86.001	14.00				mg/L
	Br	81	5583.559	-441.60				mg/L
	P	31	29598.408	23865.40				mg/L
	S	34	115048.320	-2870.90				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.286			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.955			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.476			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.685			
⌈	Na	23					

Sample ID: L1103092505PS WG360123-01
Report Date/Time: Tuesday, March 29, 2011 15:05:19
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103092505PS WG360123-01
Report Date/Time: Tuesday, March 29, 2011 15:05:19
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103092505SDL WG360123-02

Sample Date/Time: Tuesday, March 29, 2011 15:09:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 130
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15478.702	0.01				ug/L
|	Be	9	35.333	0.00	0.1191	0.024	20.208	ug/L
|	Al	27	3889241.966	30.63	912.2210	55.507	6.085	ug/L
⌊>	Sc	45	127019.314	127019.31				ug/L
⌈	Ti	49	210.023	0.00	0.2717	0.121	44.636	ug/L
|	V	51	8927.652	0.02	0.8595	0.025	2.912	ug/L
|	Cr	52	8679.853	-0.00	-0.0024	0.027	1109.283	ug/L
|	Cr	53	486.727	0.00	0.3600	0.070	19.551	ug/L
|	Mn	55	423779.447	1.46	43.7229	0.500	1.144	ug/L
|	Co	59	12356.089	0.04	1.6343	0.031	1.923	ug/L
|	Ni	60	1060.400	0.00	0.5964	0.007	1.222	ug/L
|	Cu	65	924.052	0.00	0.4784	0.016	3.244	ug/L
|	Zn	66	3807.096	0.01	0.5466	0.074	13.591	ug/L
|>	Ge	72	290381.075	290381.07				ug/L
|	As	75	17.951	0.00	0.1578	0.051	32.403	ug/L
|	Se	77	68.000	0.00	-0.0831	0.109	131.527	ug/L
|	Se	82	8.090	0.00	0.1740	0.207	118.989	ug/L
⌊	Rb	85	2694.057	0.01				mg/L
	Y	89	224102.782	8065.83				ug/L
	Rh	103	12.667	-12.00				ug/L
⌈	Mo	98	35.356	0.00	0.0042	0.002	52.073	ug/L
|	Ag	107	435.014	0.00	0.0751	0.006	7.453	ug/L
|	Cd	114	8.016	0.00	0.0021	0.003	144.127	ug/L
|>	In	115	275016.665	275016.66				ug/L
|	Sn	118	86.934	-0.00	-0.0875	0.002	2.427	ug/L
⌊	Sb	123	323.118	0.00	0.0956	0.002	1.580	ug/L
⌈	Ba	135	1683.825	0.00	1.1045	0.016	1.406	ug/L
|	Ce	140	127878.533	0.36				ug/L
⌊>	Tb	159	359879.192	359879.19				ug/L
⌈	Ho	165	2327.170	0.01				ug/L
|	Tl	203	116.002	0.00	0.0248	0.002	8.357	ug/L
|	Tl	205	323.371	0.00	0.0203	0.004	18.304	ug/L
|	Pb	206	1253.758	0.00	0.1868	0.007	3.881	ug/L
|	Pb	207	930.719	0.00	0.1422	0.007	5.239	ug/L
|	Pb	208	4567.118	0.01	0.1575	0.006	3.623	ug/L
|	U	238	1466.789	0.00	0.0409	0.002	4.553	ug/L
⌊>	Bi	209	315636.001	315636.00				ug/L

Approved: March 30, 2011

⌈	Na	23	34827.367	-1.11	-0.0261	0.000	1.620	mg/L
|	Mg	24	54114.793	0.42	0.0168	0.001	7.764	mg/L
|	K	39	483594.881	1.18	0.0247	0.007	29.015	mg/L
|	Ca	43	460.057	0.00	0.0069	0.004	56.958	mg/L
|	Fe	54	3632409.002	28.40	8.4005	0.345	4.110	mg/L
|	Fe	57	1573950.359	12.36	8.6552	0.414	4.779	mg/L
⌊>	Sc-1	45	127019.314	127019.31				mg/L
	Cl	35	10460.136	609.95				mg/L
	Kr	83	66.334	-5.67				mg/L
	Br	81	5296.070	-729.08				mg/L
	P	31	7961.169	2228.16				mg/L
	S	34	113408.928	-4510.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.218			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.389			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.854			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.750			
⌈	Na	23					

Sample ID: L1103092505SDL WG360123-02
Report Date/Time: Tuesday, March 29, 2011 15:12:11
Page 2

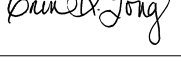
Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 30, 2011



Data not used- autosampler sent to wrong location.

Method 6020 - Summary Report

Sample ID: L1103061232

Sample Date/Time: Tuesday, March 29, 2011 15:16:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 59
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21206.285	0.03				ug/L
|	Be	9	18.667	0.00	0.0373	0.034	92.033	ug/L
|	Al	27	2083.560	-0.03	-1.2863	0.062	4.822	ug/L
⌊>	Sc	45	154668.804	154668.80				ug/L
⌈	Ti	49	30.003	-0.00	-0.1424	0.003	2.227	ug/L
|	V	51	1701.473	-0.01	-0.1624	0.015	9.397	ug/L
|	Cr	52	5364.827	-0.02	-0.7036	0.038	5.355	ug/L
|	Cr	53	133.348	-0.00	-0.1563	0.046	29.475	ug/L
|	Mn	55	952.722	0.00	-0.0911	0.001	1.104	ug/L
|	Co	59	124.669	-0.00	0.0011	0.002	141.496	ug/L
|	Ni	60	58.001	-0.00	-0.0450	0.001	2.690	ug/L
|	Cu	65	116.002	-0.00	-0.0387	0.012	32.072	ug/L
|	Zn	66	208.671	-0.00	-3.1946	0.025	0.792	ug/L
⌊>	Ge	72	366464.328	366464.33				ug/L
|	As	75	-126.437	0.00	0.0392	0.051	129.224	ug/L
|	Se	77	60.000	-0.00	-0.3406	0.139	40.748	ug/L
|	Se	82	-7.766	-0.00	0.0219	0.204	933.341	ug/L
⌊	Rb	85	37.667	-0.00				mg/L
	Y	89	249984.316	33947.37				ug/L
	Rh	103	20.334	-4.33				ug/L
⌈	Mo	98	21.246	-0.00	-0.0028	0.002	89.808	ug/L
|	Ag	107	404.012	0.00	0.0520	0.010	18.448	ug/L
|	Cd	114	-8.755	-0.00	-0.0106	0.002	20.262	ug/L
⌊>	In	115	364597.681	364597.68				ug/L
|	Sn	118	81.600	-0.00	-0.0937	0.002	2.400	ug/L
⌊	Sb	123	100.526	0.00	0.0305	0.005	16.144	ug/L
⌈	Ba	135	25.667	-0.00	-0.0126	0.002	18.410	ug/L
|	Ce	140	43.338	-0.00				ug/L
⌊>	Tb	159	531949.653	531949.65				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	34.000	-0.00	0.0117	0.001	5.511	ug/L
|	Tl	205	80.008	0.00	0.0049	0.003	59.104	ug/L
|	Pb	206	366.344	0.00	0.0105	0.002	17.196	ug/L
|	Pb	207	312.675	-0.00	0.0098	0.007	73.142	ug/L
|	Pb	208	1384.051	0.00	0.0060	0.002	39.247	ug/L
|	U	238	38.000	0.00	-0.0016	0.000	10.396	ug/L
⌊>	Bi	209	381561.248	381561.25				ug/L

Sample ID: L1103061232
Report Date/Time: Tuesday, March 29, 2011 15:18:56
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	7543.642	-1.33	-0.0339	0.000	0.597	mg/L
Mg	24	110.012	-0.00	-0.0047	0.000	0.297	mg/L
K	39	240773.091	-1.04	-0.0328	0.007	22.085	mg/L
Ca	43	290.033	-0.00	-0.0107	0.006	52.005	mg/L
Fe	54	164384.987	0.87	0.2535	0.067	26.572	mg/L
Fe	57	3644.364	-0.03	-0.0211	0.004	16.665	mg/L
> Sc-1	45	154668.804	154668.80				mg/L
Cl	35	5264.063	-4586.12				mg/L
Kr	83	471.349	399.35				mg/L
Br	81	3522.625	-2502.53				mg/L
P	31	12226.229	6493.22				mg/L
S	34	57511.245	-60407.97				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		116.380			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		121.157			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		140.207			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		120.585			
Na	23					

Sample ID: L1103061232
Report Date/Time: Tuesday, March 29, 2011 15:18:56
Page 2

Approved: March 30, 2011

Erin D. Long

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
In 115 Int Std for sam	In	115	Rerun for AFCEE sample
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample
Bi 209 Int Std for sam	Bi	209	Rerun for AFCEE sample

Approved: March 30, 2011

Data not used- autosampler sent to wrong location.

Method 6020 - Summary Report

Sample ID: L1103061232PS WG360220-01

Sample Date/Time: Tuesday, March 29, 2011 15:23:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 60
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21423.128	0.01				ug/L
|	Be	9	16.667	-0.00	0.0203	0.012	61.647	ug/L
|	Al	27	1316.755	-0.04	-1.4463	0.104	7.222	ug/L
⌊>	Sc	45	173003.652	173003.65				ug/L
⌈	Ti	49	36.670	-0.00	-0.1311	0.047	36.184	ug/L
|	V	51	1702.620	0.01	-0.1596	0.005	3.092	ug/L
|	Cr	52	5454.877	-0.02	-0.6815	0.029	4.278	ug/L
|	Cr	53	180.020	-0.00	-0.1016	0.012	11.434	ug/L
|	Mn	55	889.715	0.00	-0.0949	0.002	2.604	ug/L
|	Co	59	144.002	0.00	0.0034	0.001	38.861	ug/L
|	Ni	60	55.001	-0.00	-0.0460	0.004	8.554	ug/L
|	Cu	65	94.001	-0.00	-0.0491	0.008	15.495	ug/L
|	Zn	66	188.337	-0.00	-3.2087	0.024	0.742	ug/L
|>	Ge	72	360405.875	360405.87				ug/L
|	As	75	-164.409	0.00	0.0071	0.092	1293.723	ug/L
|	Se	77	54.000	-0.00	-0.3991	0.149	37.450	ug/L
|	Se	82	-8.247	-0.00	0.0154	0.310	2016.756	ug/L
⌊	Rb	85	33.334	-0.00				mg/L
	Y	89	258930.002	42893.05				ug/L
	Rh	103	17.667	-7.00				ug/L
⌈	Mo	98	21.616	-0.00	-0.0027	0.001	43.532	ug/L
|	Ag	107	203.004	0.00	0.0249	0.011	42.552	ug/L
|	Cd	114	-3.400	0.00	-0.0072	0.003	43.657	ug/L
|>	In	115	363448.606	363448.61				ug/L
|	Sn	118	74.667	-0.00	-0.0949	0.002	1.668	ug/L
⌊	Sb	123	61.360	0.00	0.0228	0.005	22.882	ug/L
⌈	Ba	135	23.667	-0.00	-0.0123	0.004	30.301	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	472972.974	472972.97				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	35.000	-0.00	0.0115	0.001	6.965	ug/L
|	Tl	205	53.339	0.00	0.0032	0.002	54.555	ug/L
|	Pb	206	361.343	0.00	0.0063	0.005	78.381	ug/L
|	Pb	207	304.674	-0.00	0.0050	0.003	57.464	ug/L
|	Pb	208	1401.052	-0.00	0.0033	0.002	71.395	ug/L
|	U	238	36.334	0.00	-0.0017	0.000	4.899	ug/L
⌊>	Bi	209	407028.541	407028.54				ug/L

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 15:25:42
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	7106.573	-1.34	-0.0341	0.000	1.428	mg/L
Mg	24	126.680	-0.00	-0.0047	0.000	0.575	mg/L
K	39	243282.213	-1.18	-0.0367	0.008	21.945	mg/L
Ca	43	276.698	-0.00	-0.0133	0.008	60.996	mg/L
Fe	54	161722.346	0.74	0.2162	0.076	35.285	mg/L
Fe	57	3354.231	-0.03	-0.0240	0.004	16.633	mg/L
> Sc-1	45	173003.652	173003.65				mg/L
Cl	35	5397.460	-4452.72				mg/L
Kr	83	488.350	416.35				mg/L
Br	81	3635.330	-2389.82				mg/L
P	31	13159.335	7426.33				mg/L
S	34	58298.360	-59620.86				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		114.456			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		120.775			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		124.663			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		128.633			
Na	23					

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 15:25:42
Page 2

Approved: March 30, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
In 115 Int Std for sam	In	115	Rerun for AFCEE sample
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample
Bi 209 Int Std for sam	Bi	209	Rerun for AFCEE sample

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 15:25:42
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061232

Sample Date/Time: Tuesday, March 29, 2011 15:31:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 69
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15929.413	0.01				ug/L
|	Be	9	43.333	0.00	0.1462	0.010	6.766	ug/L
|	Al	27	8100835.294	61.32	1826.5701	64.737	3.544	ug/L
⌊>	Sc	45	132084.249	132084.25				ug/L
⌈	Ti	49	12235.370	0.04	27.1553	0.285	1.050	ug/L
|	V	51	51845.047	0.17	6.6965	0.172	2.574	ug/L
|	Cr	52	26306.487	0.06	2.8212	0.048	1.710	ug/L
|	Cr	53	2483.892	0.01	3.0777	0.278	9.019	ug/L
|	Mn	55	932675.814	3.23	97.0761	1.056	1.088	ug/L
|	Co	59	18899.032	0.07	2.5228	0.011	0.417	ug/L
|	Ni	60	4210.595	0.01	2.6057	0.041	1.579	ug/L
|	Cu	65	8021.296	0.03	4.9262	0.083	1.685	ug/L
|	Zn	66	14824.130	0.05	11.9663	0.298	2.493	ug/L
|>	Ge	72	288470.522	288470.52				ug/L
|	As	75	1735.793	0.01	1.8702	0.036	1.917	ug/L
|	Se	77	61.334	-0.00	-0.1636	0.121	73.716	ug/L
|	Se	82	4.684	0.00	0.1394	0.150	107.282	ug/L
⌊	Rb	85	15071.503	0.05				mg/L
	Y	89	220172.682	4135.73				ug/L
	Rh	103	17.667	-7.00				ug/L
⌈	Mo	98	121.992	0.00	0.0361	0.003	8.193	ug/L
|	Ag	107	991.059	0.00	0.1769	0.008	4.365	ug/L
|	Cd	114	29.411	0.00	0.0208	0.013	61.591	ug/L
|>	In	115	272973.678	272973.68				ug/L
|	Sn	118	157.868	0.00	-0.0699	0.003	3.609	ug/L
⌊	Sb	123	80.735	0.00	0.0317	0.003	10.086	ug/L
⌈	Ba	135	36663.132	0.10	25.0100	0.556	2.223	ug/L
|	Ce	140	91495.968	0.26				ug/L
⌊>	Tb	159	353340.683	353340.68				ug/L
⌈	Ho	165	1897.038	0.01				ug/L
|	Tl	203	152.003	0.00	0.0302	0.001	4.883	ug/L
|	Tl	205	303.368	0.00	0.0191	0.001	6.305	ug/L
|	Pb	206	17762.940	0.06	3.2575	0.040	1.231	ug/L
|	Pb	207	15291.503	0.05	2.9832	0.045	1.512	ug/L
|	Pb	208	71149.247	0.22	3.1128	0.028	0.888	ug/L
|	U	238	7589.955	0.02	0.2228	0.001	0.559	ug/L
⌊>	Bi	209	314959.937	314959.94				ug/L

Sample ID: L1103061232
Report Date/Time: Tuesday, March 29, 2011 15:33:27
Page 1

Approved: March 30, 2011

⌈	Na	23	158353.149	-0.18	0.0059	0.001	21.232	mg/L
|	Mg	24	1824649.452	13.83	0.6925	0.035	5.010	mg/L
|	K	39	1986832.313	12.42	0.3170	0.013	4.232	mg/L
|	Ca	43	8504.465	0.06	0.6518	0.024	3.617	mg/L
|	Fe	54	1723094.131	12.83	3.7932	0.176	4.652	mg/L
|	Fe	57	703406.785	5.28	3.6975	0.167	4.505	mg/L
⌊>	Sc-1	45	132084.249	132084.25				mg/L
	Cl	35	10177.844	327.66				mg/L
	Kr	83	74.668	2.67				mg/L
	Br	81	5525.527	-499.63				mg/L
	P	31	46214.546	40481.54				mg/L
	S	34	100745.788	-17173.43				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.611			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.710			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.131			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.537			
⌈	Na	23					

Sample ID: L1103061232
Report Date/Time: Tuesday, March 29, 2011 15:33:27
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061232PS WG360220-01

Sample Date/Time: Tuesday, March 29, 2011 15:38:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 70
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16079.596	0.01				ug/L
|	Be	9	14237.463	0.11	58.5363	2.036	3.479	ug/L
|	Al	27	8182573.945	61.12	1820.7413	110.877	6.090	ug/L
⌊>	Sc	45	133890.656	133890.66				ug/L
⌈	Ti	49	12028.432	0.04	26.1749	0.031	0.118	ug/L
|	V	51	407378.105	1.38	53.9186	0.568	1.053	ug/L
|	Cr	52	339522.641	1.12	51.7912	0.411	0.794	ug/L
|	Cr	53	39823.124	0.13	52.7745	1.321	2.503	ug/L
|	Mn	55	1417413.781	4.82	144.7738	0.919	0.634	ug/L
|	Co	59	410893.861	1.40	54.0428	0.329	0.609	ug/L
|	Ni	60	88047.477	0.30	54.8860	0.132	0.241	ug/L
|	Cu	65	95217.238	0.32	58.3706	0.681	1.167	ug/L
|	Zn	66	72649.361	0.25	70.3230	0.659	0.937	ug/L
|>	Ge	72	294127.707	294127.71				ug/L
|	As	75	55378.888	0.19	54.2798	0.590	1.086	ug/L
|	Se	77	4591.054	0.02	57.1947	1.611	2.818	ug/L
|	Se	82	5724.157	0.02	59.0426	0.488	0.826	ug/L
⌊	Rb	85	15144.611	0.05				mg/L
	Y	89	224899.819	8862.87				ug/L
	Rh	103	42.001	17.33				ug/L
⌈	Mo	98	145.472	0.00	0.0439	0.002	5.661	ug/L
|	Ag	107	280750.844	1.01	50.2811	0.423	0.841	ug/L
|	Cd	114	60932.621	0.22	52.1434	0.955	1.831	ug/L
|>	In	115	277272.766	277272.77				ug/L
|	Sn	118	183.202	0.00	-0.0644	0.001	2.090	ug/L
⌊	Sb	123	192317.570	0.69	50.4276	0.477	0.946	ug/L
⌈	Ba	135	109474.056	0.30	73.0235	0.374	0.512	ug/L
|	Ce	140	91970.179	0.25				ug/L
⌊>	Tb	159	361560.994	361560.99				ug/L
⌈	Ho	165	1743.660	0.01				ug/L
|	Tl	203	332058.040	1.04	49.0098	0.360	0.734	ug/L
|	Tl	205	815023.298	2.56	49.1432	0.868	1.767	ug/L
|	Pb	206	297769.607	0.93	54.7215	0.545	0.997	ug/L
|	Pb	207	262764.923	0.82	51.3659	0.812	1.580	ug/L
|	Pb	208	1212157.415	3.80	53.1602	0.512	0.963	ug/L
|	U	238	1823099.015	5.72	53.5275	0.201	0.376	ug/L
⌊>	Bi	209	318464.167	318464.17				ug/L

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 15:40:16
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	157141.362	-0.21	0.0051	0.002	39.353	mg/L
|	Mg	24	1887528.497	14.10	0.7060	0.037	5.267	mg/L
|	K	39	1962142.074	12.02	0.3067	0.008	2.766	mg/L
|	Ca	43	7867.214	0.06	0.5916	0.014	2.439	mg/L
|	Fe	54	1672759.019	12.27	3.6264	0.096	2.654	mg/L
|	Fe	57	694352.949	5.14	3.5965	0.097	2.704	mg/L
⌊>	Sc-1	45	133890.656	133890.66				mg/L
	Cl	35	10374.045	523.86				mg/L
	Kr	83	66.334	-5.67				mg/L
	Br	81	5559.546	-465.61				mg/L
	P	31	45437.030	39704.03				mg/L
	S	34	102431.955	-15487.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.408			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.138			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.298			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.644			
⌈	Na	23					

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 15:40:16
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 15:40:16
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 15:44:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15495.357	0.00				ug/L
|	Be	9	13126.610	0.10	54.0558	1.988	3.678	ug/L
|	Al	27	226947.665	1.66	48.9601	3.392	6.929	ug/L
|>	Sc	45	133739.402	133739.40				ug/L
⌈	Ti	49	44081.345	0.15	96.5083	0.870	0.901	ug/L
|	V	51	367134.662	1.24	48.5859	0.580	1.194	ug/L
|	Cr	52	328297.641	1.08	50.0636	0.280	0.559	ug/L
|	Cr	53	37069.011	0.12	49.1219	1.617	3.292	ug/L
|	Mn	55	498906.478	1.70	50.8820	0.665	1.308	ug/L
|	Co	59	394840.287	1.34	51.9632	0.620	1.194	ug/L
|	Ni	60	82800.543	0.28	51.6443	0.444	0.859	ug/L
|	Cu	65	85866.960	0.29	52.6663	0.559	1.062	ug/L
|	Zn	66	53069.981	0.18	50.4997	0.613	1.214	ug/L
|>	Ge	72	293942.179	293942.18				ug/L
|	As	75	49999.050	0.17	49.0522	0.714	1.455	ug/L
|	Se	77	4112.846	0.01	51.1675	1.353	2.645	ug/L
|	Se	82	4954.364	0.02	51.1449	0.433	0.846	ug/L
⌊	Rb	85	2010.889	0.01				mg/L
	Y	89	201932.032	-14104.92				ug/L
	Rh	103	31.667	7.00				ug/L
⌈	Mo	98	281231.548	1.01	100.9854	0.877	0.869	ug/L
|	Ag	107	270636.703	0.97	48.1340	0.171	0.354	ug/L
|	Cd	114	58470.577	0.21	49.6869	0.228	0.459	ug/L
|>	In	115	279204.559	279204.56				ug/L
|	Sn	118	212250.918	0.76	50.9908	0.162	0.317	ug/L
⌊	Sb	123	193524.193	0.69	50.3914	0.251	0.499	ug/L
⌈	Ba	135	73721.817	0.21	49.4766	0.369	0.745	ug/L
|	Ce	140	46.671	0.00				ug/L
|>	Tb	159	359306.574	359306.57				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	325166.438	1.05	49.4889	0.338	0.683	ug/L
|	Tl	205	801846.735	2.60	49.8532	0.205	0.412	ug/L
|	Pb	206	265432.808	0.86	50.2953	0.521	1.036	ug/L
|	Pb	207	246839.871	0.80	49.7533	0.077	0.155	ug/L
|	Pb	208	1106108.488	3.58	50.0182	0.114	0.228	ug/L
|	U	238	1812455.610	5.87	54.8754	0.390	0.710	ug/L
|>	Bi	209	308825.593	308825.59				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 15:47:03
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	19146397.504	141.98	4.9294	0.249	5.058	mg/L
|	Mg	24	12892023.158	96.52	4.8598	0.228	4.696	mg/L
|	K	39	25904257.049	191.42	4.9717	0.350	7.048	mg/L
|	Ca	43	62477.537	0.47	4.9273	0.220	4.470	mg/L
|	Fe	54	2316902.680	17.11	5.0605	0.216	4.263	mg/L
|	Fe	57	1005814.815	7.48	5.2354	0.161	3.074	mg/L
⌊>	Sc-1	45	133739.402	133739.40				mg/L
	Cl	35	10196.531	346.35				mg/L
	Kr	83	70.668	-1.33				mg/L
	Br	81	5661.606	-363.55				mg/L
	P	31	4803.822	-929.18				mg/L
	S	34	122634.513	4715.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	97.172				
|	Cr	52	100.127				
|	Cr	53					
|	Mn	55	101.764				
|	Co	59	103.926				
|	Ni	60	103.289				
|	Cu	65	105.333				
|	Zn	66	100.999				
|>	Ge	72		93.349			
|	As	75	98.104				
|	Se	77					
|	Se	82	102.290				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	96.268				
|	Cd	114	99.374				
|>	In	115		92.780			
|	Sn	118					
⌊	Sb	123	100.783				
⌈	Ba	135	98.953				
|	Ce	140					
⌊>	Tb	159		94.703			
⌈	Ho	165					
|	Tl	203	98.978				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	100.036				
|	U	238	109.751				
⌊>	Bi	209		97.598			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 15:47:03

Approved: March 30, 2011

Erin D. Long

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 15:47:03
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 15:51:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17214.822	0.02				ug/L
|	Be	9	17.333	0.00	0.0366	0.027	72.444	ug/L
|	Al	27	4951.262	-0.01	-0.5775	0.242	41.881	ug/L
⌊>	Sc	45	132810.405	132810.41				ug/L
⌈	Ti	49	43.338	-0.00	-0.1006	0.055	54.942	ug/L
|	V	51	2153.594	-0.00	-0.0591	0.004	6.636	ug/L
|	Cr	52	7130.613	-0.01	-0.2668	0.018	6.878	ug/L
|	Cr	53	206.689	-0.00	-0.0227	0.029	126.922	ug/L
|	Mn	55	434.014	-0.00	-0.1251	0.003	2.596	ug/L
|	Co	59	87.668	-0.00	-0.0006	0.001	244.986	ug/L
|	Ni	60	84.668	-0.00	-0.0215	0.004	17.826	ug/L
|	Cu	65	163.336	0.00	0.0036	0.006	170.509	ug/L
|	Zn	66	430.680	-0.00	-2.9299	0.023	0.782	ug/L
|>	Ge	72	295243.354	295243.35				ug/L
|	As	75	-129.939	0.00	0.0137	0.035	252.981	ug/L
|	Se	77	67.334	0.00	-0.1062	0.067	63.383	ug/L
|	Se	82	7.446	0.00	0.1662	0.092	55.101	ug/L
⌊	Rb	85	28.334	-0.00				mg/L
	Y	89	206837.797	-9199.15				ug/L
	Rh	103	14.333	-10.33				ug/L
⌈	Mo	98	125.025	0.00	0.0355	0.014	38.094	ug/L
|	Ag	107	228.338	0.00	0.0366	0.004	9.957	ug/L
|	Cd	114	7.682	0.00	0.0016	0.003	157.199	ug/L
|>	In	115	283384.547	283384.55				ug/L
|	Sn	118	233.603	0.00	-0.0534	0.006	11.567	ug/L
⌊	Sb	123	246.819	0.00	0.0735	0.000	0.447	ug/L
⌈	Ba	135	38.334	-0.00	0.0011	0.004	339.075	ug/L
|	Ce	140	36.670	0.00				ug/L
⌊>	Tb	159	363708.648	363708.65				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	60.667	0.00	0.0165	0.001	7.225	ug/L
|	Tl	205	166.685	0.00	0.0108	0.006	56.706	ug/L
|	Pb	206	287.007	0.00	0.0075	0.003	34.612	ug/L
|	Pb	207	278.007	0.00	0.0134	0.002	16.736	ug/L
|	Pb	208	1211.708	0.00	0.0089	0.002	19.989	ug/L
|	U	238	197.671	0.00	0.0033	0.001	40.039	ug/L
⌊>	Bi	209	315198.612	315198.61				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 15:53:47
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	107441.498	-0.57	-0.0076	0.001	12.410	mg/L
|	Mg	24	1126.847	0.01	-0.0043	0.000	2.823	mg/L
|	K	39	343545.774	-0.05	-0.0072	0.002	28.634	mg/L
|	Ca	43	320.037	-0.00	-0.0061	0.005	85.888	mg/L
|	Fe	54	32686.041	0.02	0.0008	0.004	556.661	mg/L
|	Fe	57	6192.541	-0.00	-0.0055	0.001	21.639	mg/L
⌊>	Sc-1	45	132810.405	132810.41				mg/L
	Cl	35	9931.598	81.41				mg/L
	Kr	83	63.668	-8.33				mg/L
	Br	81	5776.335	-248.82				mg/L
	P	31	5583.563	-149.44				mg/L
	S	34	113584.190	-4335.03				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.762			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.169			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.864			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.612			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 15:53:47
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 15:53:47
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: PBW 58 WG359134-02

Sample Date/Time: Tuesday, March 29, 2011 16:27:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 95
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17515.354	0.02				ug/L
|	Be	9	16.667	0.00	0.0324	0.033	101.147	ug/L
|	Al	27	19719.433	0.10	2.6218	0.155	5.904	ug/L
⌊>	Sc	45	136322.991	136322.99				ug/L
⌈	Ti	49	96.677	0.00	0.0114	0.063	552.922	ug/L
|	V	51	2424.608	-0.00	-0.0303	0.015	49.098	ug/L
|	Cr	52	8929.408	-0.00	-0.0171	0.017	97.796	ug/L
|	Cr	53	340.040	0.00	0.1439	0.069	47.905	ug/L
|	Mn	55	2498.004	0.01	0.0796	0.004	5.508	ug/L
|	Co	59	113.668	-0.00	0.0025	0.002	63.739	ug/L
|	Ni	60	168.336	0.00	0.0282	0.004	12.941	ug/L
|	Cu	65	584.023	0.00	0.2530	0.006	2.368	ug/L
|	Zn	66	2830.096	0.01	-0.5691	0.036	6.333	ug/L
| >	Ge	72	301940.515	301940.52				ug/L
|	As	75	-135.217	0.00	0.0114	0.009	78.347	ug/L
|	Se	77	66.667	0.00	-0.1327	0.124	93.102	ug/L
|	Se	82	6.107	0.00	0.1514	0.026	17.162	ug/L
⌊	Rb	85	72.334	0.00				mg/L
	Y	89	209557.026	-6479.92				ug/L
	Rh	103	20.334	-4.33				ug/L
⌈	Mo	98	33.137	0.00	0.0029	0.002	62.162	ug/L
|	Ag	107	1042.732	0.00	0.1769	0.017	9.503	ug/L
|	Cd	114	2.384	0.00	-0.0029	0.005	158.820	ug/L
| >	In	115	287253.341	287253.34				ug/L
|	Sn	118	481.745	0.00	0.0040	0.004	104.896	ug/L
⌊	Sb	123	131.825	0.00	0.0436	0.001	3.175	ug/L
⌈	Ba	135	107.002	0.00	0.0452	0.003	7.087	ug/L
|	Ce	140	810.114	0.00				ug/L
⌊>	Tb	159	370854.580	370854.58				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	33.000	0.00	0.0123	0.001	5.275	ug/L
|	Tl	205	63.340	0.00	0.0044	0.002	43.492	ug/L
|	Pb	206	555.688	0.00	0.0548	0.007	12.936	ug/L
|	Pb	207	480.683	0.00	0.0510	0.002	3.663	ug/L
|	Pb	208	2194.116	0.00	0.0500	0.002	3.501	ug/L
|	U	238	78.334	0.00	-0.0003	0.000	88.708	ug/L
⌊>	Bi	209	323389.393	323389.39				ug/L

Sample ID: PBW 58 WG359134-02
Report Date/Time: Tuesday, March 29, 2011 16:29:56
Page 1

Approved: March 30, 2011

⌈	Na	23	72650.320	-0.85	-0.0172	0.000	2.796	mg/L
|	Mg	24	16391.728	0.12	0.0014	0.000	5.078	mg/L
|	K	39	360857.849	0.01	-0.0056	0.001	12.449	mg/L
|	Ca	43	553.404	0.00	0.0115	0.004	34.901	mg/L
|	Fe	54	68158.181	0.27	0.0758	0.004	5.018	mg/L
|	Fe	57	7600.315	0.01	0.0009	0.001	121.741	mg/L
⌊>	Sc-1	45	136322.991	136322.99				mg/L
	Cl	35	20565.796	10715.61				mg/L
	Kr	83	64.334	-7.67				mg/L
	Br	81	6420.727	395.57				mg/L
	P	31	11890.468	6157.46				mg/L
	S	34	109147.932	-8771.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.889			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.455			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.747			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.201			
⌈	Na	23					

Sample ID: PBW 58 WG359134-02
Report Date/Time: Tuesday, March 29, 2011 16:29:56
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 58 WG359134-02
Report Date/Time: Tuesday, March 29, 2011 16:29:56
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: LCSW 58 WG359134-03

Sample Date/Time: Tuesday, March 29, 2011 16:34:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 96
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17381.763	0.01				ug/L
|	Be	9	6528.798	0.05	25.5245	1.206	4.725	ug/L
|	Al	27	126580.254	0.86	25.1563	2.073	8.239	ug/L
⌊>	Sc	45	140768.214	140768.21				ug/L
⌈	Ti	49	136.681	0.00	0.0962	0.045	47.236	ug/L
|	V	51	192850.687	0.63	24.6386	0.326	1.324	ug/L
|	Cr	52	176952.930	0.55	25.5714	0.430	1.680	ug/L
|	Cr	53	19357.330	0.06	24.7884	0.737	2.975	ug/L
|	Mn	55	266689.764	0.88	26.3553	0.252	0.957	ug/L
|	Co	59	209693.694	0.69	26.8178	0.392	1.463	ug/L
|	Ni	60	44720.560	0.15	27.0758	0.311	1.149	ug/L
|	Cu	65	45734.806	0.15	27.2186	0.212	0.778	ug/L
|	Zn	66	27598.646	0.09	23.8616	0.439	1.839	ug/L
| >	Ge	72	302417.108	302417.11				ug/L
|	As	75	23717.157	0.08	22.6902	0.100	0.439	ug/L
|	Se	77	1730.817	0.01	20.3668	1.093	5.368	ug/L
|	Se	82	2107.389	0.01	21.1972	0.246	1.161	ug/L
⌊	Rb	85	70.334	0.00				mg/L
	Y	89	206834.276	-9202.67				ug/L
	Rh	103	30.667	6.00				ug/L
⌈	Mo	98	49.060	0.00	0.0085	0.003	32.700	ug/L
|	Ag	107	96893.491	0.34	16.7983	0.325	1.934	ug/L
|	Cd	114	27771.109	0.10	23.0023	0.371	1.613	ug/L
| >	In	115	286420.691	286420.69				ug/L
|	Sn	118	261.203	0.00	-0.0475	0.002	4.362	ug/L
⌊	Sb	123	92897.193	0.32	23.5857	0.140	0.594	ug/L
⌈	Ba	135	37693.617	0.10	24.4934	0.156	0.639	ug/L
|	Ce	140	273.364	0.00				ug/L
⌊>	Tb	159	370908.639	370908.64				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	170371.625	0.52	24.5585	0.281	1.144	ug/L
|	Tl	205	423574.820	1.30	24.9372	0.189	0.760	ug/L
|	Pb	206	144462.779	0.44	25.9007	0.226	0.874	ug/L
|	Pb	207	127181.596	0.39	24.2562	0.311	1.283	ug/L
|	Pb	208	587383.523	1.80	25.1331	0.363	1.445	ug/L
|	U	238	945489.670	2.90	27.1097	0.417	1.539	ug/L
⌊>	Bi	209	326130.616	326130.62				ug/L

Sample ID: LCSW 58 WG359134-03
Report Date/Time: Tuesday, March 29, 2011 16:36:43
Page 1

Approved: March 30, 2011

⌈	Na	23	66645.083	-0.91	-0.0192	0.001	2.894	mg/L
|	Mg	24	11370.938	0.08	-0.0006	0.000	41.808	mg/L
|	K	39	336816.175	-0.24	-0.0122	0.003	27.449	mg/L
|	Ca	43	446.721	0.00	0.0021	0.003	150.750	mg/L
|	Fe	54	68209.659	0.25	0.0714	0.008	10.863	mg/L
|	Fe	57	7206.652	0.00	-0.0023	0.002	93.184	mg/L
⌊>	Sc-1	45	140768.214	140768.21				mg/L
	Cl	35	29591.739	19741.56				mg/L
	Kr	83	61.334	-10.67				mg/L
	Br	81	6893.711	868.56				mg/L
	P	31	10488.238	4755.23				mg/L
	S	34	104487.071	-13432.15				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.041			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.178			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.761			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.067			
⌈	Na	23					

Sample ID: LCSW 58 WG359134-03
Report Date/Time: Tuesday, March 29, 2011 16:36:43
Page 2

Approved: March 30, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: FLT BLK WG359134-06

Sample Date/Time: Tuesday, March 29, 2011 16:41:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 97
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18600.657	0.02				ug/L
|	Be	9	16.667	0.00	0.0324	0.029	88.614	ug/L
|	Al	27	13892.999	0.06	1.3294	0.214	16.108	ug/L
⌊>	Sc	45	137218.474	137218.47				ug/L
⌈	Ti	49	50.005	-0.00	-0.0881	0.057	65.051	ug/L
|	V	51	2340.714	-0.00	-0.0403	0.005	13.581	ug/L
|	Cr	52	9396.508	-0.00	0.0580	0.009	15.049	ug/L
|	Cr	53	363.376	0.00	0.1757	0.061	34.600	ug/L
|	Mn	55	1725.166	0.00	0.0030	0.005	179.346	ug/L
|	Co	59	122.002	0.00	0.0036	0.001	40.599	ug/L
|	Ni	60	222.338	0.00	0.0615	0.004	6.626	ug/L
|	Cu	65	240.339	0.00	0.0477	0.009	18.159	ug/L
|	Zn	66	3449.296	0.01	0.0523	0.010	19.687	ug/L
| >	Ge	72	301111.570	301111.57				ug/L
|	As	75	-139.682	0.00	0.0067	0.047	697.346	ug/L
|	Se	77	68.667	0.00	-0.1074	0.116	108.164	ug/L
|	Se	82	7.861	0.00	0.1690	0.088	51.924	ug/L
⌊	Rb	85	48.001	0.00				mg/L
	Y	89	208553.131	-7483.82				ug/L
	Rh	103	16.000	-8.67				ug/L
⌈	Mo	98	40.617	0.00	0.0056	0.004	64.523	ug/L
|	Ag	107	524.019	0.00	0.0878	0.002	1.978	ug/L
|	Cd	114	-2.892	0.00	-0.0072	0.002	29.744	ug/L
| >	In	115	285173.201	285173.20				ug/L
|	Sn	118	339.872	0.00	-0.0287	0.004	13.859	ug/L
⌊	Sb	123	191.948	0.00	0.0591	0.006	10.970	ug/L
⌈	Ba	135	116.002	0.00	0.0504	0.012	23.174	ug/L
|	Ce	140	90.009	0.00				ug/L
⌊>	Tb	159	374909.792	374909.79				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	39.334	0.00	0.0132	0.002	11.917	ug/L
|	Tl	205	70.007	0.00	0.0048	0.002	34.248	ug/L
|	Pb	206	355.343	0.00	0.0179	0.002	9.527	ug/L
|	Pb	207	314.008	0.00	0.0183	0.003	17.338	ug/L
|	Pb	208	1400.385	0.00	0.0152	0.002	10.530	ug/L
|	U	238	186.670	0.00	0.0028	0.002	76.028	ug/L
⌊>	Bi	209	326293.225	326293.23				ug/L

Sample ID: FLT BLK WG359134-06
Report Date/Time: Tuesday, March 29, 2011 16:43:31
Page 1

Approved: March 30, 2011

⌈	Na	23	53320.445	-0.99	-0.0222	0.000	0.182	mg/L
|	Mg	24	13997.872	0.10	0.0004	0.000	51.959	mg/L
|	K	39	340522.062	-0.16	-0.0099	0.001	7.476	mg/L
|	Ca	43	486.727	0.00	0.0060	0.004	70.185	mg/L
|	Fe	54	75327.276	0.32	0.0903	0.006	6.285	mg/L
|	Fe	57	7103.234	0.00	-0.0019	0.002	84.793	mg/L
⌊>	Sc-1	45	137218.474	137218.47				mg/L
	Cl	35	20753.521	10903.34				mg/L
	Kr	83	54.334	-17.67				mg/L
	Br	81	6953.087	927.93				mg/L
	P	31	13491.838	7758.83				mg/L
	S	34	109365.634	-8553.59				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.626			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.764			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.816			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.118			
⌈	Na	23					

Sample ID: FLT BLK WG359134-06
Report Date/Time: Tuesday, March 29, 2011 16:43:31
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: FLT BLK WG359134-06
Report Date/Time: Tuesday, March 29, 2011 16:43:31
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103043602

Sample Date/Time: Tuesday, March 29, 2011 16:48:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 98
Method File: C:\elandata\Method\6020a.mth
Sample Description: 4

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17498.719	0.02				ug/L
|	Be	9	10.667	-0.00	0.0101	0.005	50.373	ug/L
|	Al	27	173679.528	1.28	37.8161	3.127	8.269	ug/L
⌊>	Sc	45	131341.799	131341.80				ug/L
⌈	Ti	49	240.027	0.00	0.3524	0.085	24.097	ug/L
|	V	51	2756.035	-0.00	0.0368	0.009	25.632	ug/L
|	Cr	52	12196.558	0.01	0.6066	0.026	4.274	ug/L
|	Cr	53	696.761	0.00	0.6685	0.051	7.688	ug/L
|	Mn	55	11876067.424	41.99	1262.7359	18.826	1.491	ug/L
|	Co	59	3842.110	0.01	0.5135	0.005	0.879	ug/L
|	Ni	60	2467.996	0.01	1.5276	0.045	2.974	ug/L
|	Cu	65	1533.800	0.00	0.8829	0.032	3.579	ug/L
|	Zn	66	102392.955	0.36	104.6302	1.180	1.128	ug/L
|>	Ge	72	282861.113	282861.11				ug/L
|	As	75	570.503	0.00	0.7196	0.070	9.785	ug/L
|	Se	77	72.000	0.00	-0.0076	0.050	652.286	ug/L
|	Se	82	19.803	0.00	0.3016	0.059	19.474	ug/L
⌊	Rb	85	1638.151	0.01				mg/L
	Y	89	191088.125	-24948.82				ug/L
	Rh	103	33.667	9.00				ug/L
⌈	Mo	98	718.316	0.00	0.2590	0.013	4.918	ug/L
|	Ag	107	2462.995	0.01	0.4513	0.007	1.602	ug/L
|	Cd	114	4.177	0.00	-0.0011	0.003	256.158	ug/L
|>	In	115	268979.580	268979.58				ug/L
|	Sn	118	548.682	0.00	0.0283	0.003	9.066	ug/L
⌊	Sb	123	274.198	0.00	0.0843	0.005	6.400	ug/L
⌈	Ba	135	55556.119	0.15	37.1789	0.196	0.526	ug/L
|	Ce	140	453.389	0.00				ug/L
⌊>	Tb	159	360267.442	360267.44				ug/L
⌈	Ho	165	53.339	0.00				ug/L
|	Tl	203	38.667	0.00	0.0132	0.001	6.846	ug/L
|	Tl	205	100.011	0.00	0.0066	0.002	23.355	ug/L
|	Pb	206	1482.125	0.00	0.2260	0.006	2.639	ug/L
|	Pb	207	1215.086	0.00	0.1955	0.006	2.915	ug/L
|	Pb	208	5729.034	0.01	0.2060	0.006	2.918	ug/L
|	U	238	8599.449	0.03	0.2493	0.003	1.131	ug/L
⌊>	Bi	209	319307.769	319307.77				ug/L

Sample ID: L1103043602
Report Date/Time: Tuesday, March 29, 2011 16:50:19
Page 1

Approved: March 30, 2011

⌈	Na	23	10054287.565	75.35	2.6219	0.182	6.934	mg/L
|	Mg	24	8560206.158	65.35	3.2887	0.250	7.605	mg/L
|	K	39	1638690.942	9.86	0.2506	0.019	7.631	mg/L
|	Ca	43	236278.838	1.80	19.0773	0.951	4.984	mg/L
|	Fe	54	88877.772	0.45	0.1284	0.011	8.287	mg/L
|	Fe	57	32673.252	0.20	0.1364	0.009	6.961	mg/L
⌊>	Sc-1	45	131341.799	131341.80				mg/L
	Cl	35	68622.019	58771.84				mg/L
	Kr	83	61.001	-11.00				mg/L
	Br	81	16106.973	10081.82				mg/L
	P	31	9726.806	3993.80				mg/L
	S	34	271399.584	153480.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.830			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.383			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.957			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.911			
⌈	Na	23					

Sample ID: L1103043602
Report Date/Time: Tuesday, March 29, 2011 16:50:19
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Zn 66 Upper, S, EEE	Zn	66	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103046402 WG359134-01

Sample Date/Time: Tuesday, March 29, 2011 16:54:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 102
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20671.374	0.06				ug/L
|	Be	9	9.333	-0.00	0.0086	0.019	216.686	ug/L
|	Al	27	22943.101	0.15	4.0847	0.510	12.495	ug/L
⌊>	Sc	45	118380.026	118380.03				ug/L
⌈	Ti	49	1977.061	0.01	4.8141	0.484	10.046	ug/L
|	V	51	2137.027	-0.00	-0.0158	0.005	34.700	ug/L
|	Cr	52	7204.000	-0.00	-0.0751	0.027	36.254	ug/L
|	Cr	53	340.040	0.00	0.2264	0.084	36.921	ug/L
|	Mn	55	397796.147	1.56	46.8523	0.998	2.131	ug/L
|	Co	59	728.034	0.00	0.0986	0.002	2.261	ug/L
|	Ni	60	1751.838	0.01	1.1899	0.033	2.779	ug/L
|	Cu	65	1315.433	0.00	0.8373	0.043	5.078	ug/L
|	Zn	66	24524.950	0.09	25.3904	0.214	0.844	ug/L
|>	Ge	72	254440.215	254440.21				ug/L
|	As	75	111.299	0.00	0.2660	0.092	34.661	ug/L
|	Se	77	672.023	0.00	8.8821	0.076	0.859	ug/L
|	Se	82	770.477	0.00	9.2622	0.243	2.624	ug/L
⌊	Rb	85	4458.039	0.02				mg/L
	Y	89	167942.040	-48094.91				ug/L
	Rh	103	88.001	63.33				ug/L
⌈	Mo	98	324.995	0.00	0.1298	0.003	1.966	ug/L
|	Ag	107	338.009	0.00	0.0678	0.004	6.105	ug/L
|	Cd	114	-3.123	0.00	-0.0079	0.013	161.365	ug/L
|>	In	115	235330.878	235330.88				ug/L
|	Sn	118	168.668	0.00	-0.0606	0.002	2.960	ug/L
⌊	Sb	123	68.903	0.00	0.0315	0.002	4.905	ug/L
⌈	Ba	135	632.026	0.00	0.4546	0.020	4.455	ug/L
|	Ce	140	230.026	0.00				ug/L
⌊>	Tb	159	318359.154	318359.15				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	142.002	0.00	0.0317	0.002	5.773	ug/L
|	Tl	205	286.699	0.00	0.0206	0.003	12.218	ug/L
|	Pb	206	357.343	0.00	0.0299	0.005	16.012	ug/L
|	Pb	207	300.674	0.00	0.0263	0.002	6.423	ug/L
|	Pb	208	1388.385	0.00	0.0255	0.002	7.643	ug/L
|	U	238	225697.488	0.82	7.6406	0.058	0.758	ug/L
⌊>	Bi	209	276124.407	276124.41				ug/L

Sample ID: L1103046402 WG359134-01
Report Date/Time: Tuesday, March 29, 2011 16:57:08
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	61014414.311	515.62	25.9814	0.948	3.651	mg/L
|	K	39	6673390.994	53.78	1.3925	0.099	7.130	mg/L
|	Ca	43	174354.930	1.47	15.5889	0.525	3.365	mg/L
|	Fe	54	30640.571	0.03	0.0044	0.001	20.839	mg/L
|	Fe	57	11537.815	0.05	0.0301	0.004	13.737	mg/L
⌊>	Sc-1	45	118380.026	118380.03				mg/L
	Cl	35	200379.949	190529.77				mg/L
	Kr	83	65.001	-7.00				mg/L
	Br	81	19209.099	13183.94				mg/L
	P	31	4873.856	-859.15				mg/L
	S	34	2941368.667	2823449.45				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		80.804			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		78.201			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		83.911			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		87.264			
⌈	Na	23					

Sample ID: L1103046402 WG359134-01
Report Date/Time: Tuesday, March 29, 2011 16:57:08
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103046403S WG359134-04

Sample Date/Time: Tuesday, March 29, 2011 17:01:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 103
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23377.603	0.09				ug/L
|	Be	9	675.356	0.01	3.2503	0.147	4.524	ug/L
|	Al	27	33824.150	0.25	7.1956	0.337	4.685	ug/L
⌊>	Sc	45	113290.322	113290.32				ug/L
⌈	Ti	49	2130.441	0.01	5.1798	0.430	8.294	ug/L
|	V	51	18476.021	0.06	2.4859	0.040	1.601	ug/L
|	Cr	52	21580.826	0.05	2.5090	0.013	0.534	ug/L
|	Cr	53	1977.060	0.01	2.7320	0.150	5.507	ug/L
|	Mn	55	399891.301	1.56	46.8832	0.280	0.598	ug/L
|	Co	59	18313.276	0.07	2.7602	0.028	1.032	ug/L
|	Ni	60	5497.901	0.02	3.8745	0.087	2.254	ug/L
|	Cu	65	5312.798	0.02	3.6578	0.036	0.987	ug/L
|	Zn	66	15189.020	0.06	14.3605	0.181	1.258	ug/L
| >	Ge	72	255634.961	255634.96				ug/L
|	As	75	2324.046	0.01	2.7527	0.292	10.625	ug/L
|	Se	77	825.367	0.00	11.0801	0.601	5.420	ug/L
|	Se	82	982.890	0.00	11.7328	0.244	2.076	ug/L
⌊	Rb	85	4561.086	0.02				mg/L
	Y	89	165593.554	-50443.39				ug/L
	Rh	103	82.001	57.33				ug/L
⌈	Mo	98	298.071	0.00	0.1195	0.009	7.562	ug/L
|	Ag	107	3995.839	0.02	0.8482	0.074	8.666	ug/L
|	Cd	114	2461.940	0.01	2.5000	0.150	5.999	ug/L
| >	In	115	233525.040	233525.04				ug/L
|	Sn	118	111.334	-0.00	-0.0767	0.001	1.173	ug/L
⌊	Sb	123	8427.874	0.04	2.6356	0.084	3.179	ug/L
⌈	Ba	135	3827.437	0.01	2.8833	0.129	4.491	ug/L
|	Ce	140	256.696	0.00				ug/L
⌊>	Tb	159	317877.239	317877.24				ug/L
⌈	Ho	165	53.339	0.00				ug/L
|	Tl	203	15345.253	0.05	2.5597	0.083	3.243	ug/L
|	Tl	205	37985.841	0.13	2.5810	0.065	2.502	ug/L
|	Pb	206	13259.253	0.05	2.7020	0.068	2.522	ug/L
|	Pb	207	11538.105	0.04	2.5017	0.071	2.855	ug/L
|	Pb	208	53621.807	0.19	2.6072	0.067	2.577	ug/L
|	U	238	318580.262	1.13	10.5352	0.155	1.474	ug/L
⌊>	Bi	209	282812.313	282812.31				ug/L

Sample ID: L1103046403S WG359134-04
Report Date/Time: Tuesday, March 29, 2011 17:03:57
Page 1

Approved: March 30, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	60859426.652	538.83	27.1513	1.705	6.280	mg/L
|	K	39	6719843.776	56.77	1.4704	0.065	4.406	mg/L
|	Ca	43	177304.186	1.57	16.5929	0.717	4.322	mg/L
|	Fe	54	30987.288	0.04	0.0091	0.007	81.467	mg/L
|	Fe	57	11788.150	0.05	0.0351	0.009	25.168	mg/L
⌊>	Sc-1	45	113290.322	113290.32				mg/L
	Cl	35	198890.068	189039.88				mg/L
	Kr	83	58.334	-13.67				mg/L
	Br	81	20120.222	14095.07				mg/L
	P	31	4841.176	-891.83				mg/L
	S	34	2868259.286	2750340.07				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		81.184			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		77.601			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		83.784			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.377			
⌈	Na	23					

Sample ID: L1103046403S WG359134-04
Report Date/Time: Tuesday, March 29, 2011 17:03:57
Page 2

Approved: March 30, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103046403S WG359134-04
Report Date/Time: Tuesday, March 29, 2011 17:03:57
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103046404SD WG359134-05

Sample Date/Time: Tuesday, March 29, 2011 17:08:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 104
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25398.952	0.09				ug/L
|	Be	9	738.027	0.01	3.2233	0.115	3.563	ug/L
|	Al	27	32252.053	0.22	6.0537	1.012	16.717	ug/L
⌊>	Sc	45	124877.585	124877.58				ug/L
⌈	Ti	49	2467.218	0.01	5.8320	0.260	4.464	ug/L
|	V	51	19711.934	0.06	2.5810	0.051	1.993	ug/L
|	Cr	52	22985.617	0.05	2.6317	0.021	0.806	ug/L
|	Cr	53	2073.756	0.01	2.7835	0.198	7.122	ug/L
|	Mn	55	498836.011	1.89	56.6758	0.819	1.444	ug/L
|	Co	59	19775.065	0.07	2.8868	0.034	1.174	ug/L
|	Ni	60	6274.364	0.02	4.2906	0.114	2.665	ug/L
|	Cu	65	5711.354	0.02	3.8118	0.043	1.136	ug/L
|	Zn	66	16389.252	0.06	15.1579	0.115	0.758	ug/L
|>	Ge	72	263964.436	263964.44				ug/L
|	As	75	2347.825	0.01	2.6976	0.068	2.510	ug/L
|	Se	77	932.043	0.00	12.1937	0.410	3.362	ug/L
|	Se	82	1082.560	0.00	12.5155	0.345	2.757	ug/L
⌊	Rb	85	4815.875	0.02				mg/L
	Y	89	172434.470	-43602.48				ug/L
	Rh	103	95.001	70.33				ug/L
⌈	Mo	98	356.000	0.00	0.1384	0.012	8.536	ug/L
|	Ag	107	6115.597	0.03	1.2477	0.023	1.825	ug/L
|	Cd	114	2528.145	0.01	2.4665	0.068	2.763	ug/L
|>	In	115	242765.349	242765.35				ug/L
|	Sn	118	121.867	0.00	-0.0750	0.001	1.079	ug/L
⌊	Sb	123	8847.781	0.04	2.6596	0.036	1.354	ug/L
⌈	Ba	135	4057.197	0.01	2.9531	0.071	2.409	ug/L
|	Ce	140	236.693	0.00				ug/L
⌊>	Tb	159	328768.763	328768.76				ug/L
⌈	Ho	165	83.342	0.00				ug/L
|	Tl	203	16469.049	0.06	2.6453	0.050	1.874	ug/L
|	Tl	205	40639.811	0.14	2.6598	0.025	0.957	ug/L
|	Pb	206	14317.385	0.05	2.8120	0.023	0.818	ug/L
|	Pb	207	12555.002	0.04	2.6241	0.030	1.126	ug/L
|	Pb	208	57836.903	0.19	2.7104	0.037	1.375	ug/L
|	U	238	363510.790	1.24	11.5817	0.178	1.539	ug/L
⌊>	Bi	209	293445.160	293445.16				ug/L

Sample ID: L1103046404SD WG359134-05
Report Date/Time: Tuesday, March 29, 2011 17:10:47
Page 1

Approved: March 30, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	72517316.547	582.37	29.3459	1.783	6.075	mg/L
|	K	39	7553602.893	58.00	1.5024	0.083	5.496	mg/L
|	Ca	43	193391.867	1.55	16.4451	1.186	7.210	mg/L
|	Fe	54	33385.767	0.04	0.0072	0.006	78.562	mg/L
|	Fe	57	12766.184	0.05	0.0335	0.009	26.177	mg/L
⌊>	Sc-1	45	124877.585	124877.58				mg/L
	Cl	35	235133.744	225283.56				mg/L
	Kr	83	59.334	-12.67				mg/L
	Br	81	21162.369	15137.21				mg/L
	P	31	5262.055	-470.95				mg/L
	S	34	3410484.611	3292565.39				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		83.829			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		80.672			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		86.654			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.737			
⌈	Na	23					

Sample ID: L1103046404SD WG359134-05
Report Date/Time: Tuesday, March 29, 2011 17:10:47
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103046404SD WG359134-05
Report Date/Time: Tuesday, March 29, 2011 17:10:47
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103047501

Sample Date/Time: Tuesday, March 29, 2011 17:15:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 99
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18483.741	0.04				ug/L
|	Be	9	14.667	0.00	0.0301	0.011	35.529	ug/L
|	Al	27	12441.108	0.06	1.2803	0.285	22.297	ug/L
⌊>	Sc	45	124891.786	124891.79				ug/L
⌈	Ti	49	90.009	0.00	0.0244	0.064	261.570	ug/L
|	V	51	2396.617	-0.00	0.0108	0.011	104.097	ug/L
|	Cr	52	7782.772	-0.00	-0.0213	0.012	58.383	ug/L
|	Cr	53	350.041	0.00	0.2228	0.068	30.608	ug/L
|	Mn	55	1775.509	0.01	0.0330	0.005	14.050	ug/L
|	Co	59	79.334	-0.00	-0.0005	0.001	166.817	ug/L
|	Ni	60	206.338	0.00	0.0694	0.009	13.378	ug/L
|	Cu	65	273.340	0.00	0.0906	0.013	14.300	ug/L
|	Zn	66	25108.068	0.09	25.0087	0.214	0.854	ug/L
| >	Ge	72	263994.001	263994.00				ug/L
|	As	75	-133.845	-0.00	-0.0057	0.027	471.813	ug/L
|	Se	77	51.333	-0.00	-0.2316	0.118	50.853	ug/L
|	Se	82	0.545	-0.00	0.0960	0.121	126.042	ug/L
⌊	Rb	85	594.357	0.00				mg/L
	Y	89	169647.062	-46389.89				ug/L
	Rh	103	15.000	-9.67				ug/L
⌈	Mo	98	23.913	0.00	0.0010	0.002	194.295	ug/L
|	Ag	107	803.374	0.00	0.1579	0.004	2.472	ug/L
|	Cd	114	-1.418	0.00	-0.0062	0.004	57.997	ug/L
| >	In	115	247328.356	247328.36				ug/L
|	Sn	118	172.268	0.00	-0.0620	0.003	4.985	ug/L
⌊	Sb	123	45.821	0.00	0.0237	0.002	10.367	ug/L
⌈	Ba	135	6381.099	0.02	4.5490	0.085	1.864	ug/L
|	Ce	140	66.674	0.00				ug/L
⌊>	Tb	159	336642.293	336642.29				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	28.000	-0.00	0.0116	0.001	5.578	ug/L
|	Tl	205	36.670	0.00	0.0028	0.001	23.267	ug/L
|	Pb	206	399.679	0.00	0.0274	0.006	20.518	ug/L
|	Pb	207	328.342	0.00	0.0225	0.003	13.294	ug/L
|	Pb	208	1512.393	0.00	0.0214	0.001	2.444	ug/L
|	U	238	349.676	0.00	0.0077	0.001	8.204	ug/L
⌊>	Bi	209	319363.441	319363.44				ug/L

Sample ID: L1103047501
Report Date/Time: Tuesday, March 29, 2011 17:17:35
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	2596683.100	19.41	0.6844	0.027	3.924	mg/L
|	Mg	24	1196301.100	9.58	0.4780	0.009	1.862	mg/L
|	K	39	1142251.031	6.51	0.1634	0.004	2.607	mg/L
|	Ca	43	10937.072	0.09	0.8971	0.013	1.414	mg/L
|	Fe	54	35802.048	0.06	0.0127	0.003	25.645	mg/L
|	Fe	57	6462.734	0.00	-0.0019	0.000	19.560	mg/L
⌊>	Sc-1	45	124891.786	124891.79				mg/L
	Cl	35	32104.131	22253.95				mg/L
	Kr	83	52.334	-19.67				mg/L
	Br	81	10199.867	4174.71				mg/L
	P	31	6155.234	422.23				mg/L
	S	34	125873.598	7954.38				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		83.838			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		82.188			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		88.730			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.928			
⌈	Na	23					

Sample ID: L1103047501
Report Date/Time: Tuesday, March 29, 2011 17:17:35
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103047501
Report Date/Time: Tuesday, March 29, 2011 17:17:35
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103047501PS WG359174-03

Sample Date/Time: Tuesday, March 29, 2011 17:22:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 100
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18316.769	0.02				ug/L
|	Be	9	14946.502	0.11	60.5053	1.200	1.984	ug/L
|	Al	27	230514.633	1.65	48.8528	2.777	5.685	ug/L
⌊>	Sc	45	135900.612	135900.61				ug/L
⌈	Ti	49	86.676	0.00	0.0030	0.083	2754.908	ug/L
|	V	51	347523.322	1.22	47.8278	0.797	1.666	ug/L
|	Cr	52	316592.982	1.09	50.2154	0.500	0.997	ug/L
|	Cr	53	37507.292	0.13	51.7203	1.238	2.395	ug/L
|	Mn	55	498796.651	1.76	52.9070	0.144	0.272	ug/L
|	Co	59	391795.962	1.39	53.6251	0.582	1.085	ug/L
|	Ni	60	84714.830	0.30	54.9588	0.765	1.392	ug/L
|	Cu	65	86695.395	0.31	55.3061	0.440	0.795	ug/L
|	Zn	66	70365.741	0.25	70.9100	0.689	0.971	ug/L
|>	Ge	72	282652.601	282652.60				ug/L
|	As	75	44708.822	0.16	45.6233	0.334	0.732	ug/L
|	Se	77	3612.653	0.01	46.6531	1.628	3.490	ug/L
|	Se	82	4215.134	0.01	45.2647	0.974	2.152	ug/L
⌊	Rb	85	604.024	0.00				mg/L
	Y	89	182936.251	-33100.70				ug/L
	Rh	103	34.667	10.00				ug/L
⌈	Mo	98	40.320	0.00	0.0065	0.003	49.326	ug/L
|	Ag	107	247412.406	0.93	46.2945	0.417	0.900	ug/L
|	Cd	114	55299.046	0.21	49.4400	1.093	2.211	ug/L
|>	In	115	265393.435	265393.44				ug/L
|	Sn	118	228.669	0.00	-0.0508	0.001	2.923	ug/L
⌊	Sb	123	180361.555	0.68	49.4094	0.523	1.059	ug/L
⌈	Ba	135	76403.541	0.21	50.4336	0.482	0.956	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	365308.599	365308.60				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	353094.491	1.01	47.4960	0.206	0.434	ug/L
|	Tl	205	878725.735	2.51	48.2864	0.505	1.045	ug/L
|	Pb	206	303198.527	0.87	50.7767	0.105	0.207	ug/L
|	Pb	207	269050.448	0.77	47.9278	0.115	0.240	ug/L
|	Pb	208	1237713.331	3.54	49.4665	0.171	0.345	ug/L
|	U	238	2044498.448	5.85	54.7086	0.388	0.709	ug/L
⌊>	Bi	209	349423.165	349423.16				ug/L

Sample ID: L1103047501PS WG359174-03
Report Date/Time: Tuesday, March 29, 2011 17:24:24
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	2617202.908	17.88	0.6314	0.003	0.447	mg/L
|	Mg	24	1258310.371	9.26	0.4619	0.007	1.555	mg/L
|	K	39	1200157.464	6.19	0.1552	0.005	3.388	mg/L
|	Ca	43	11350.915	0.08	0.8544	0.048	5.646	mg/L
|	Fe	54	38005.122	0.05	0.0106	0.001	8.165	mg/L
|	Fe	57	6379.340	-0.00	-0.0053	0.001	15.877	mg/L
⌊>	Sc-1	45	135900.612	135900.61				mg/L
	Cl	35	32421.140	22570.96				mg/L
	Kr	83	56.001	-16.00				mg/L
	Br	81	10215.883	4190.73				mg/L
	P	31	6233.957	500.95				mg/L
	S	34	121247.293	3328.07				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.764			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.191			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.285			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.428			
⌈	Na	23					

Sample ID: L1103047501PS WG359174-03
Report Date/Time: Tuesday, March 29, 2011 17:24:24
Page 2

Approved: March 30, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103047501PS WG359174-03
Report Date/Time: Tuesday, March 29, 2011 17:24:24
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103047501SDL WG359174-04

Sample Date/Time: Tuesday, March 29, 2011 17:28:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 101
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20304.033	0.04				ug/L
|	Be	9	16.000	0.00	0.0323	0.038	119.215	ug/L
|	Al	27	9671.355	0.03	0.4954	0.158	31.961	ug/L
⌊>	Sc	45	131948.245	131948.25				ug/L
⌈	Ti	49	70.007	0.00	-0.0361	0.059	164.649	ug/L
|	V	51	2060.560	-0.00	-0.0598	0.018	29.772	ug/L
|	Cr	52	6896.446	-0.01	-0.2575	0.008	2.921	ug/L
|	Cr	53	190.021	-0.00	-0.0343	0.097	282.362	ug/L
|	Mn	55	1888.531	0.00	0.0313	0.007	23.850	ug/L
|	Co	59	75.001	-0.00	-0.0018	0.001	44.543	ug/L
|	Ni	60	127.669	0.00	0.0087	0.007	75.504	ug/L
|	Cu	65	294.674	0.00	0.0916	0.014	15.121	ug/L
|	Zn	66	35377.157	0.12	33.9051	0.175	0.517	ug/L
| >	Ge	72	283174.942	283174.94				ug/L
|	As	75	-106.172	0.00	0.0323	0.020	62.589	ug/L
|	Se	77	52.667	-0.00	-0.2639	0.260	98.699	ug/L
|	Se	82	6.194	0.00	0.1563	0.054	34.315	ug/L
⌊	Rb	85	152.669	0.00				mg/L
	Y	89	183540.576	-32496.37				ug/L
	Rh	103	17.000	-7.67				ug/L
⌈	Mo	98	22.689	0.00	-0.0001	0.002	1867.724	ug/L
|	Ag	107	172.337	0.00	0.0288	0.001	3.483	ug/L
|	Cd	114	-1.402	0.00	-0.0061	0.005	83.795	ug/L
| >	In	115	265292.498	265292.50				ug/L
|	Sn	118	202.002	0.00	-0.0576	0.003	4.866	ug/L
⌊	Sb	123	376.039	0.00	0.1133	0.004	3.333	ug/L
⌈	Ba	135	1470.790	0.00	0.9563	0.058	6.039	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	361750.598	361750.60				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	42.667	0.00	0.0133	0.001	4.281	ug/L
|	Tl	205	56.672	0.00	0.0038	0.001	16.995	ug/L
|	Pb	206	433.347	0.00	0.0278	0.005	18.963	ug/L
|	Pb	207	361.010	0.00	0.0237	0.003	11.859	ug/L
|	Pb	208	1741.412	0.00	0.0258	0.002	6.719	ug/L
|	U	238	306.008	0.00	0.0058	0.001	20.685	ug/L
⌊>	Bi	209	344587.524	344587.52				ug/L

Sample ID: L1103047501SDL WG359174-04
Report Date/Time: Tuesday, March 29, 2011 17:31:12
Page 1

Approved: March 30, 2011

⌈	Na	23	665587.249	3.66	0.1391	0.008	6.039	mg/L
|	Mg	24	269867.482	2.04	0.0984	0.003	2.567	mg/L
|	K	39	500717.626	1.16	0.0242	0.002	9.976	mg/L
|	Ca	43	2660.620	0.02	0.1823	0.011	5.891	mg/L
|	Fe	54	32187.622	0.01	0.0001	0.003	6083.392	mg/L
|	Fe	57	5512.070	-0.01	-0.0089	0.001	7.588	mg/L
⌊>	Sc-1	45	131948.245	131948.25				mg/L
	Cl	35	15204.217	5354.03				mg/L
	Kr	83	54.334	-17.67				mg/L
	Br	81	6254.622	229.47				mg/L
	P	31	5469.496	-263.51				mg/L
	S	34	121967.026	4047.81				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.930			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.157			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.348			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		108.900			
⌈	Na	23					

Sample ID: L1103047501SDL WG359174-04
Report Date/Time: Tuesday, March 29, 2011 17:31:12
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103047501SDL WG359174-04
Report Date/Time: Tuesday, March 29, 2011 17:31:12
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 17:35:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18717.587	0.03				ug/L
|	Be	9	14855.027	0.11	63.1240	2.472	3.915	ug/L
|	Al	27	231516.183	1.74	51.5798	1.926	3.733	ug/L
⌊>	Sc	45	129601.861	129601.86				ug/L
⌈	Ti	49	42126.163	0.15	94.6808	3.991	4.215	ug/L
|	V	51	353341.777	1.22	47.9982	0.768	1.600	ug/L
|	Cr	52	314264.831	1.07	49.1725	0.676	1.375	ug/L
|	Cr	53	36764.520	0.13	50.0277	2.040	4.077	ug/L
|	Mn	55	495629.181	1.73	51.8903	0.071	0.138	ug/L
|	Co	59	393609.416	1.37	53.1742	0.564	1.060	ug/L
|	Ni	60	83114.480	0.29	53.2161	0.349	0.656	ug/L
|	Cu	65	85309.960	0.30	53.7131	0.995	1.852	ug/L
|	Zn	66	53768.368	0.19	52.6555	0.455	0.864	ug/L
| >	Ge	72	286345.020	286345.02				ug/L
|	As	75	47908.753	0.17	48.2488	1.041	2.157	ug/L
|	Se	77	3812.727	0.01	48.6412	0.386	0.794	ug/L
|	Se	82	4602.573	0.02	48.7765	1.271	2.605	ug/L
⌊	Rb	85	1825.185	0.01				mg/L
	Y	89	184015.917	-32021.03				ug/L
	Rh	103	31.334	6.67				ug/L
⌈	Mo	98	257540.414	0.96	96.0467	1.149	1.197	ug/L
|	Ag	107	251988.957	0.94	46.5482	0.568	1.221	ug/L
|	Cd	114	56738.150	0.21	50.0709	0.648	1.295	ug/L
| >	In	115	268840.604	268840.60				ug/L
|	Sn	118	204111.842	0.76	50.9269	0.284	0.558	ug/L
⌊	Sb	123	186837.223	0.69	50.5268	0.330	0.652	ug/L
⌈	Ba	135	72390.479	0.20	48.3303	0.271	0.561	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	361163.563	361163.56				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	348718.233	1.04	48.6758	0.586	1.205	ug/L
|	Tl	205	854591.903	2.54	48.7335	1.643	3.370	ug/L
|	Pb	206	282957.278	0.84	49.1725	0.417	0.848	ug/L
|	Pb	207	270856.862	0.80	50.0708	0.143	0.286	ug/L
|	Pb	208	1200325.453	3.56	49.7810	0.537	1.079	ug/L
|	U	238	2051670.725	6.09	56.9708	0.810	1.422	ug/L
⌊>	Bi	209	336732.357	336732.36				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 17:37:59
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	19719436.598	151.00	5.2418	0.317	6.038	mg/L	
Mg	24	13541694.438	104.59	5.2667	0.234	4.434	mg/L	
K	39	25701270.104	195.82	5.0862	0.161	3.160	mg/L	
Ca	43	63772.403	0.49	5.1920	0.238	4.578	mg/L	
Fe	54	2295930.395	17.50	5.1754	0.210	4.050	mg/L	
Fe	57	993743.134	7.63	5.3408	0.277	5.177	mg/L	
> Sc-1	45	129601.861	129601.86				mg/L	
Cl	35	9622.629	-227.55				mg/L	
Kr	83	64.668	-7.33				mg/L	
Br	81	5178.675	-846.48				mg/L	
P	31	5708.307	-24.70				mg/L	
S	34	125646.469	7727.25				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	95.996				
Cr	52	98.345				
Cr	53					
Mn	55	103.781				
Co	59	106.348				
Ni	60	106.432				
Cu	65	107.426				
Zn	66	105.311				
> Ge	72		90.936			
As	75	96.498				
Se	77					
Se	82	97.553				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	93.096				
Cd	114	100.142				
> In	115		89.336			
Sn	118					
Sb	123	101.054				
Ba	135	96.661				
Ce	140					
> Tb	159		95.193			
Ho	165					
Tl	203	97.352				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.562				
U	238	113.942				
> Bi	209		106.417			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 17:37:59
Page 2

Approved: March 30, 2011

Erin D. Long

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 17:37:59
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 17:42:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17982.841	0.03				ug/L
|	Be	9	7.333	-0.00	-0.0027	0.018	683.252	ug/L
|	Al	27	4501.014	-0.01	-0.6278	0.056	8.842	ug/L
⌊>	Sc	45	126376.883	126376.88				ug/L
⌈	Ti	49	43.338	-0.00	-0.0964	0.091	94.714	ug/L
|	V	51	1971.857	-0.00	-0.0696	0.007	9.423	ug/L
|	Cr	52	6503.847	-0.01	-0.3121	0.015	4.826	ug/L
|	Cr	53	163.351	-0.00	-0.0690	0.073	105.357	ug/L
|	Mn	55	370.344	-0.00	-0.1296	0.003	2.052	ug/L
|	Co	59	67.334	-0.00	-0.0028	0.001	52.282	ug/L
|	Ni	60	59.334	-0.00	-0.0353	0.007	19.987	ug/L
|	Cu	65	170.003	0.00	0.0130	0.007	57.501	ug/L
|	Zn	66	441.681	-0.00	-2.8956	0.019	0.640	ug/L
|>	Ge	72	280691.570	280691.57				ug/L
|	As	75	-168.483	-0.00	-0.0323	0.021	63.527	ug/L
|	Se	77	59.334	-0.00	-0.1683	0.129	76.409	ug/L
|	Se	82	-5.168	-0.00	0.0348	0.108	311.568	ug/L
⌊	Rb	85	24.334	-0.00				mg/L
	Y	89	188692.486	-27344.46				ug/L
	Rh	103	19.667	-5.00				ug/L
⌈	Mo	98	116.472	0.00	0.0351	0.005	14.910	ug/L
|	Ag	107	191.670	0.00	0.0323	0.003	8.489	ug/L
|	Cd	114	-4.772	-0.00	-0.0091	0.001	7.307	ug/L
|>	In	115	266286.187	266286.19				ug/L
|	Sn	118	259.203	0.00	-0.0433	0.007	15.637	ug/L
⌊	Sb	123	109.281	0.00	0.0400	0.002	5.863	ug/L
⌈	Ba	135	28.334	-0.00	-0.0052	0.001	25.517	ug/L
|	Ce	140	43.338	0.00				ug/L
⌊>	Tb	159	356140.448	356140.45				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	55.667	0.00	0.0154	0.002	10.007	ug/L
|	Tl	205	106.678	0.00	0.0069	0.005	69.320	ug/L
|	Pb	206	297.341	0.00	0.0071	0.002	34.563	ug/L
|	Pb	207	258.339	-0.00	0.0074	0.006	80.433	ug/L
|	Pb	208	1186.373	0.00	0.0057	0.002	30.218	ug/L
|	U	238	212.004	0.00	0.0035	0.001	36.054	ug/L
⌊>	Bi	209	328503.032	328503.03				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 17:44:44
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	99381.449	-0.59	-0.0084	0.001	7.761	mg/L
|	Mg	24	1090.171	0.01	-0.0043	0.000	2.421	mg/L
|	K	39	341117.473	0.06	-0.0043	0.000	11.455	mg/L
|	Ca	43	236.693	-0.00	-0.0117	0.003	27.535	mg/L
|	Fe	54	29078.772	-0.00	-0.0041	0.001	30.084	mg/L
|	Fe	57	5341.962	-0.01	-0.0086	0.001	15.762	mg/L
⌊>	Sc-1	45	126376.883	126376.88				mg/L
	Cl	35	10423.430	573.25				mg/L
	Kr	83	57.667	-14.33				mg/L
	Br	81	5043.939	-981.22				mg/L
	P	31	5786.346	53.34				mg/L
	S	34	129822.554	11903.33				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.141			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.488			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.869			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.817			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 17:44:44
Page 2

Approved: March 30, 2011

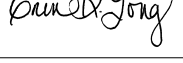
|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 17:44:44

Approved: March 30, 2011



Method 6020 - Summary Report

Sample ID: PBW 81 WG359793-04

Sample Date/Time: Tuesday, March 29, 2011 17:49:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 105
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19769.537	0.04				ug/L
|	Be	9	12.667	-0.00	0.0180	0.017	96.958	ug/L
|	Al	27	15845.933	0.08	1.8713	0.264	14.119	ug/L
⌊>	Sc	45	132556.137	132556.14				ug/L
⌈	Ti	49	100.011	0.00	0.0290	0.059	203.616	ug/L
|	V	51	2137.915	-0.00	-0.0536	0.009	17.617	ug/L
|	Cr	52	8039.646	-0.00	-0.0914	0.014	15.683	ug/L
|	Cr	53	306.702	-0.00	0.1207	0.034	28.302	ug/L
|	Mn	55	2457.994	0.01	0.0880	0.013	14.863	ug/L
|	Co	59	93.335	-0.00	0.0005	0.001	307.118	ug/L
|	Ni	60	143.002	0.00	0.0173	0.004	21.534	ug/L
|	Cu	65	562.688	0.00	0.2572	0.010	3.961	ug/L
|	Zn	66	9248.701	0.03	6.2324	0.084	1.344	ug/L
| >	Ge	72	287494.976	287494.98				ug/L
|	As	75	-115.101	0.00	0.0252	0.022	87.425	ug/L
|	Se	77	51.333	-0.00	-0.2893	0.202	69.825	ug/L
|	Se	82	9.835	0.00	0.1938	0.044	22.467	ug/L
⌊	Rb	85	66.001	0.00				mg/L
	Y	89	192545.744	-23491.20				ug/L
	Rh	103	14.000	-10.67				ug/L
⌈	Mo	98	71.613	0.00	0.0174	0.001	5.760	ug/L
|	Ag	107	1924.205	0.01	0.3440	0.013	3.791	ug/L
|	Cd	114	-7.258	-0.00	-0.0111	0.003	23.130	ug/L
| >	In	115	274939.594	274939.59				ug/L
|	Sn	118	594.284	0.00	0.0365	0.002	4.108	ug/L
⌊	Sb	123	125.571	0.00	0.0434	0.002	4.036	ug/L
⌈	Ba	135	202.004	0.00	0.1087	0.009	8.541	ug/L
|	Ce	140	113.345	0.00				ug/L
⌊>	Tb	159	366414.461	366414.46				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	44.667	0.00	0.0137	0.001	7.220	ug/L
|	Tl	205	66.674	0.00	0.0044	0.002	36.186	ug/L
|	Pb	206	398.012	0.00	0.0227	0.003	12.885	ug/L
|	Pb	207	334.676	0.00	0.0198	0.005	22.935	ug/L
|	Pb	208	1535.061	0.00	0.0183	0.000	2.678	ug/L
|	U	238	188.670	0.00	0.0026	0.001	23.309	ug/L
⌊>	Bi	209	339980.259	339980.26				ug/L

Sample ID: PBW 81 WG359793-04
Report Date/Time: Tuesday, March 29, 2011 17:51:34
Page 1

Approved: March 30, 2011

⌈	Na	23	137262.627	-0.35	0.0002	0.000	170.350	mg/L
|	Mg	24	86306.135	0.65	0.0281	0.001	2.314	mg/L
|	K	39	407619.382	0.44	0.0055	0.001	26.266	mg/L
|	Ca	43	1113.507	0.01	0.0575	0.005	9.528	mg/L
|	Fe	54	65699.580	0.26	0.0745	0.001	0.905	mg/L
|	Fe	57	6239.237	-0.00	-0.0052	0.001	10.309	mg/L
⌊>	Sc-1	45	132556.137	132556.14				mg/L
	Cl	35	21825.135	11974.95				mg/L
	Kr	83	57.334	-14.67				mg/L
	Br	81	6748.945	723.79				mg/L
	P	31	12017.917	6284.91				mg/L
	S	34	130140.990	12221.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.302			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.363			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.577			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		107.444			
⌈	Na	23					

Sample ID: PBW 81 WG359793-04
Report Date/Time: Tuesday, March 29, 2011 17:51:34
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 81 WG359793-04
Report Date/Time: Tuesday, March 29, 2011 17:51:34
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, March 29, 2011 17:56:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18099.747	0.03				ug/L
|	Be	9	12.000	-0.00	0.0179	0.014	76.710	ug/L
|	Al	27	12505889.205	99.96	2977.6999	124.097	4.168	ug/L
⌊>	Sc	45	125162.202	125162.20				ug/L
⌈	Ti	49	28179.134	0.10	64.1409	1.639	2.556	ug/L
|	V	51	1662.291	-0.00	-0.1143	0.011	9.969	ug/L
|	Cr	52	6284.037	-0.01	-0.3545	0.016	4.547	ug/L
|	Cr	53	696.761	0.00	0.6696	0.017	2.465	ug/L
|	Mn	55	1778.509	0.00	0.0201	0.005	23.657	ug/L
|	Co	59	1044.732	0.00	0.1310	0.004	3.075	ug/L
|	Ni	60	461.349	0.00	0.2257	0.011	4.882	ug/L
|	Cu	65	523.019	0.00	0.2382	0.029	12.116	ug/L
|	Zn	66	624.026	0.00	-2.7059	0.043	1.584	ug/L
|>	Ge	72	282478.536	282478.54				ug/L
|	As	75	-152.980	-0.00	-0.0154	0.033	217.167	ug/L
|	Se	77	96.000	0.00	0.3096	0.133	42.854	ug/L
|	Se	82	-18.925	-0.00	-0.1125	0.085	75.934	ug/L
⌊	Rb	85	1176.748	0.00				mg/L
	Y	89	182790.339	-33246.61				ug/L
	Rh	103	15.667	-9.00				ug/L
⌈	Mo	98	172285.727	0.65	65.2808	0.691	1.058	ug/L
|	Ag	107	291.674	0.00	0.0513	0.002	4.841	ug/L
|	Cd	114	33.152	0.00	0.0250	0.015	58.386	ug/L
|>	In	115	264584.845	264584.84				ug/L
|	Sn	118	123.867	-0.00	-0.0773	0.002	3.013	ug/L
⌊	Sb	123	118.822	0.00	0.0429	0.003	7.534	ug/L
⌈	Ba	135	53.667	-0.00	0.0125	0.003	20.193	ug/L
|	Ce	140	136.681	0.00				ug/L
⌊>	Tb	159	351159.458	351159.46				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	35.334	0.00	0.0126	0.001	11.434	ug/L
|	Tl	205	63.340	0.00	0.0044	0.002	48.047	ug/L
|	Pb	206	352.010	0.00	0.0174	0.006	32.278	ug/L
|	Pb	207	302.341	0.00	0.0162	0.002	9.426	ug/L
|	Pb	208	1339.048	0.00	0.0126	0.000	3.742	ug/L
|	U	238	42.667	0.00	-0.0013	0.000	21.255	ug/L
⌊>	Bi	209	325986.212	325986.21				ug/L

Sample ID: QC Std 4
Report Date/Time: Tuesday, March 29, 2011 17:58:22
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	31150864.570	247.71	8.5911	0.358	4.165	mg/L	
Mg	24	8667596.754	69.29	3.4876	0.112	3.217	mg/L	
K	39	16818249.106	131.86	3.4230	0.169	4.935	mg/L	
Ca	43	119225.274	0.95	10.0790	0.509	5.054	mg/L	
Fe	54	3783411.500	30.01	8.8785	0.275	3.098	mg/L	
Fe	57	1633708.019	13.01	9.1137	0.363	3.985	mg/L	
> Sc-1	45	125162.202	125162.20				mg/L	
Cl	35	936955.540	927105.36				mg/L	
Kr	83	68.001	-4.00				mg/L	
Br	81	5259.383	-765.77				mg/L	
P	31	841409.483	835676.48				mg/L	
S	34	194314.714	76395.49				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		89.709			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		87.922			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		92.556			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.021			
Na	23					

Sample ID: QC Std 4
Report Date/Time: Tuesday, March 29, 2011 17:58:22
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Tuesday, March 29, 2011 17:58:22
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, March 29, 2011 18:02:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16046.199	0.02				ug/L
|	Be	9	28148.252	0.23	125.8715	3.246	2.579	ug/L
|	Al	27	18512498.146	150.38	4480.0932	37.679	0.841	ug/L
⌊>	Sc	45	123069.358	123069.36				ug/L
⌈	Ti	49	41490.036	0.15	98.5104	1.110	1.127	ug/L
|	V	51	670570.475	2.46	96.5765	0.915	0.947	ug/L
|	Cr	52	604349.000	2.20	101.3191	1.109	1.095	ug/L
|	Cr	53	84093.819	0.31	121.2956	0.252	0.207	ug/L
|	Mn	55	963319.547	3.55	106.7300	1.842	1.726	ug/L
|	Co	59	759871.419	2.80	108.4633	2.034	1.875	ug/L
|	Ni	60	161911.659	0.60	109.5999	1.827	1.667	ug/L
|	Cu	65	167415.898	0.62	111.4629	1.454	1.304	ug/L
|	Zn	66	101484.147	0.37	108.3272	1.516	1.399	ug/L
|>	Ge	72	271053.457	271053.46				ug/L
|	As	75	91160.267	0.34	96.8500	1.766	1.824	ug/L
|	Se	77	8081.264	0.03	110.0972	0.279	0.254	ug/L
|	Se	82	8775.078	0.03	98.1599	2.291	2.334	ug/L
⌊	Rb	85	1628.816	0.01				mg/L
	Y	89	175792.598	-40244.35				ug/L
	Rh	103	64.001	39.33				ug/L
⌈	Mo	98	248739.010	0.99	99.2115	1.047	1.056	ug/L
|	Ag	107	498250.925	1.98	98.4382	1.345	1.367	ug/L
|	Cd	114	107705.210	0.43	101.6715	2.458	2.418	ug/L
|>	In	115	251373.046	251373.05				ug/L
|	Sn	118	471.878	0.00	0.0174	0.005	27.476	ug/L
⌊	Sb	123	360066.347	1.43	104.1324	1.213	1.165	ug/L
⌈	Ba	135	138397.832	0.40	95.7381	1.272	1.328	ug/L
|	Ce	140	230.026	0.00				ug/L
⌊>	Tb	159	348689.855	348689.85				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	682557.918	2.10	98.9123	1.174	1.187	ug/L
|	Tl	205	1695423.654	5.23	100.3775	1.922	1.915	ug/L
|	Pb	206	580133.614	1.79	104.7273	0.513	0.490	ug/L
|	Pb	207	514317.323	1.59	98.7603	0.414	0.420	ug/L
|	Pb	208	2369727.733	7.30	102.0905	0.500	0.490	ug/L
|	U	238	3975851.183	12.26	114.6343	0.468	0.409	ug/L
⌊>	Bi	209	324300.685	324300.69				ug/L

Sample ID: QC Std 5
Report Date/Time: Tuesday, March 29, 2011 18:05:10
Page 1

Approved: March 30, 2011

Na	23	45171816.642	365.64	12.6756	0.158	1.243	mg/L
Mg	24	12496782.613	101.54	5.1126	0.099	1.931	mg/L
K	39	24998622.987	200.49	5.2076	0.069	1.319	mg/L
Ca	43	175171.640	1.42	15.0617	0.131	0.871	mg/L
Fe	54	5639051.222	45.59	13.4870	0.116	0.857	mg/L
Fe	57	2450383.712	19.86	13.9114	0.027	0.194	mg/L
> Sc-1	45	123069.358	123069.36				mg/L
Cl	35	21866270.374	21856420.19				mg/L
Kr	83	67.334	-4.67				mg/L
Br	81	6257.291	232.14				mg/L
P	31	1191133.918	1185400.91				mg/L
S	34	225565.080	107645.86				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	96.576				
Cr	52	101.319				
Cr	53					
Mn	55	106.730				
Co	59	108.463				
Ni	60	109.600				
Cu	65	111.463				
Zn	66	108.327				
> Ge	72		86.080			
As	75	96.850				
Se	77					
Se	82	98.160				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.438				
Cd	114	101.672				
> In	115		83.532			
Sn	118					
Sb	123	104.132				
Ba	135	95.738				
Ce	140					
> Tb	159		91.905			
Ho	165					
Tl	203	98.912				
Tl	205					
Pb	206					
Pb	207					
Pb	208	102.091				
U	238	114.634				
> Bi	209		102.489			
Na	23					

Sample ID: QC Std 5
Report Date/Time: Tuesday, March 29, 2011 18:05:10

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Tuesday, March 29, 2011 18:05:10
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 18:09:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17314.981	0.02				ug/L
|	Be	9	13809.530	0.11	60.0989	1.703	2.834	ug/L
|	Al	27	224990.211	1.74	51.4260	4.791	9.316	ug/L
⌊>	Sc	45	126529.753	126529.75				ug/L
⌈	Ti	49	42755.482	0.15	98.2685	1.565	1.593	ug/L
|	V	51	351289.319	1.24	48.8034	0.620	1.269	ug/L
|	Cr	52	310527.847	1.08	49.6993	0.453	0.911	ug/L
|	Cr	53	38648.400	0.14	53.8003	0.678	1.261	ug/L
|	Mn	55	481638.888	1.72	51.5652	0.721	1.398	ug/L
|	Co	59	384749.514	1.37	53.1521	0.660	1.241	ug/L
|	Ni	60	81020.372	0.29	53.0489	0.221	0.416	ug/L
|	Cu	65	83746.721	0.30	53.9233	0.153	0.284	ug/L
|	Zn	66	51806.370	0.18	51.8320	0.486	0.938	ug/L
| >	Ge	72	280011.759	280011.76				ug/L
|	As	75	47054.015	0.17	48.4604	0.481	0.992	ug/L
|	Se	77	3826.065	0.01	49.9450	1.073	2.149	ug/L
|	Se	82	4601.950	0.02	49.8726	0.594	1.191	ug/L
⌊	Rb	85	1831.186	0.01				mg/L
	Y	89	187099.759	-28937.19				ug/L
	Rh	103	39.334	14.67				ug/L
⌈	Mo	98	258839.867	0.97	97.1585	0.305	0.314	ug/L
|	Ag	107	249509.739	0.93	46.3879	0.084	0.181	ug/L
|	Cd	114	56937.379	0.21	50.5761	0.551	1.089	ug/L
| >	In	115	267099.268	267099.27				ug/L
|	Sn	118	200101.756	0.75	50.2510	0.303	0.604	ug/L
⌊	Sb	123	181646.246	0.68	49.4460	0.523	1.057	ug/L
⌈	Ba	135	71380.293	0.20	48.3579	1.208	2.497	ug/L
|	Ce	140	30.003	-0.00				ug/L
⌊>	Tb	159	355960.600	355960.60				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	339108.329	1.05	49.2057	0.689	1.400	ug/L
|	Tl	205	836651.342	2.58	49.5930	0.354	0.713	ug/L
|	Pb	206	276562.977	0.85	49.9615	0.375	0.750	ug/L
|	Pb	207	257666.249	0.79	49.5146	0.114	0.230	ug/L
|	Pb	208	1157226.815	3.57	49.8903	0.156	0.313	ug/L
|	U	238	1977513.823	6.10	57.0810	0.275	0.481	ug/L
⌊>	Bi	209	323926.343	323926.34				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 18:11:57
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	18697155.275	146.55	5.0878	0.206	4.054	mg/L
|	Mg	24	12905364.425	102.11	5.1418	0.222	4.321	mg/L
|	K	39	25315594.909	197.82	5.1382	0.351	6.823	mg/L
|	Ca	43	62544.574	0.49	5.2181	0.289	5.548	mg/L
|	Fe	54	2204896.287	17.21	5.0892	0.159	3.130	mg/L
|	Fe	57	965085.435	7.59	5.3129	0.255	4.798	mg/L
⌊>	Sc-1	45	126529.753	126529.75				mg/L
	Cl	35	27497.861	17647.68				mg/L
	Kr	83	59.334	-12.67				mg/L
	Br	81	5025.930	-999.22				mg/L
	P	31	5402.796	-330.21				mg/L
	S	34	116543.709	-1375.51				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	97.607				
|	Cr	52	99.399				
|	Cr	53					
|	Mn	55	103.130				
|	Co	59	106.304				
|	Ni	60	106.098				
|	Cu	65	107.847				
|	Zn	66	103.664				
|>	Ge	72		88.925			
|	As	75	96.921				
|	Se	77					
|	Se	82	99.745				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	92.776				
|	Cd	114	101.152				
|>	In	115		88.758			
|	Sn	118					
⌊	Sb	123	98.892				
⌈	Ba	135	96.716				
|	Ce	140					
⌊>	Tb	159		93.821			
⌈	Ho	165					
|	Tl	203	98.411				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.781				
|	U	238	114.162				
⌊>	Bi	209		102.370			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 18:11:57

Approved: March 30, 2011

Erin D. Long

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 18:11:57
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 18:16:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18116.429	0.03				ug/L
|	Be	9	14.667	0.00	0.0282	0.020	69.738	ug/L
|	Al	27	4834.528	-0.01	-0.5828	0.154	26.483	ug/L
⌊>	Sc	45	129636.311	129636.31				ug/L
⌈	Ti	49	36.670	-0.00	-0.1131	0.046	40.750	ug/L
|	V	51	1891.695	-0.00	-0.0867	0.042	48.897	ug/L
|	Cr	52	6808.386	-0.01	-0.2859	0.034	11.722	ug/L
|	Cr	53	1346.894	0.00	1.5454	0.350	22.627	ug/L
|	Mn	55	360.010	-0.00	-0.1315	0.002	1.376	ug/L
|	Co	59	79.001	-0.00	-0.0014	0.001	40.471	ug/L
|	Ni	60	57.001	-0.00	-0.0376	0.010	27.033	ug/L
|	Cu	65	163.003	0.00	0.0062	0.012	186.237	ug/L
|	Zn	66	410.679	-0.00	-2.9381	0.009	0.299	ug/L
|>	Ge	72	286849.451	286849.45				ug/L
|	As	75	-119.452	0.00	0.0205	0.018	87.871	ug/L
|	Se	77	68.667	0.00	-0.0641	0.081	126.227	ug/L
|	Se	82	6.835	0.00	0.1613	0.133	82.375	ug/L
⌊	Rb	85	28.334	-0.00				mg/L
	Y	89	195366.011	-20670.94				ug/L
	Rh	103	16.667	-8.00				ug/L
⌈	Mo	98	151.989	0.00	0.0472	0.006	12.681	ug/L
|	Ag	107	157.003	0.00	0.0251	0.002	6.227	ug/L
|	Cd	114	-0.929	0.00	-0.0056	0.004	70.015	ug/L
|>	In	115	272822.952	272822.95				ug/L
|	Sn	118	241.603	0.00	-0.0492	0.003	5.775	ug/L
⌊	Sb	123	186.698	0.00	0.0599	0.004	6.869	ug/L
⌈	Ba	135	42.001	-0.00	0.0039	0.006	148.708	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	359767.161	359767.16				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	112.668	0.00	0.0237	0.003	12.323	ug/L
|	Tl	205	266.697	0.00	0.0163	0.003	17.561	ug/L
|	Pb	206	312.675	0.00	0.0102	0.004	41.443	ug/L
|	Pb	207	254.006	-0.00	0.0069	0.005	72.659	ug/L
|	Pb	208	1211.374	0.00	0.0070	0.002	29.338	ug/L
|	U	238	201.004	0.00	0.0032	0.002	52.030	ug/L
⌊>	Bi	209	327071.831	327071.83				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 18:18:41
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	95887.347	-0.64	-0.0100	0.001	7.913	mg/L
|	Mg	24	1003.484	0.01	-0.0043	0.000	1.220	mg/L
|	K	39	324114.711	-0.13	-0.0094	0.003	28.051	mg/L
|	Ca	43	260.029	-0.00	-0.0102	0.004	36.535	mg/L
|	Fe	54	29899.408	-0.00	-0.0039	0.001	33.065	mg/L
|	Fe	57	5412.008	-0.01	-0.0089	0.001	7.778	mg/L
⌊>	Sc-1	45	129636.311	129636.31				mg/L
	Cl	35	16402.776	6552.59				mg/L
	Kr	83	57.334	-14.67				mg/L
	Br	81	5417.468	-607.69				mg/L
	P	31	6003.146	270.14				mg/L
	S	34	116113.598	-1805.62				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.097			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.660			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.825			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.364			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 18:18:41
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 18:18:41
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, March 29, 2011 18:23:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18032.956	0.02				ug/L
|	Be	9	14.000	-0.00	0.0215	0.008	38.668	ug/L
|	Al	27	2800.393	-0.02	-1.0819	0.028	2.629	ug/L
⌊>	Sc	45	137438.104	137438.10				ug/L
⌈	Ti	49	60.006	0.00	-0.0631	0.021	33.460	ug/L
|	V	51	4922.091	0.01	0.3144	0.012	3.801	ug/L
|	Cr	52	12119.461	0.01	0.5290	0.011	2.001	ug/L
|	Cr	53	1593.620	0.00	1.8392	0.171	9.294	ug/L
|	Mn	55	5376.833	0.02	0.3835	0.006	1.605	ug/L
|	Co	59	3270.234	0.01	0.4204	0.004	0.943	ug/L
|	Ni	60	2839.098	0.01	1.7081	0.060	3.530	ug/L
|	Cu	65	1560.804	0.00	0.8670	0.025	2.835	ug/L
|	Zn	66	6951.485	0.02	3.7252	0.122	3.287	ug/L
| >	Ge	72	292547.528	292547.53				ug/L
|	As	75	272.931	0.00	0.4083	0.072	17.617	ug/L
|	Se	77	101.334	0.00	0.3336	0.061	18.321	ug/L
|	Se	82	41.122	0.00	0.5165	0.067	12.931	ug/L
⌊	Rb	85	25.000	-0.00				mg/L
	Y	89	203176.937	-12860.01				ug/L
	Rh	103	23.000	-1.67				ug/L
⌈	Mo	98	101.759	0.00	0.0272	0.001	2.921	ug/L
|	Ag	107	1097.071	0.00	0.1885	0.002	1.221	ug/L
|	Cd	114	223.821	0.00	0.1824	0.015	8.136	ug/L
| >	In	115	283919.370	283919.37				ug/L
|	Sn	118	163.068	0.00	-0.0701	0.001	1.922	ug/L
⌊	Sb	123	1652.265	0.01	0.4332	0.012	2.859	ug/L
⌈	Ba	135	1149.744	0.00	0.7257	0.014	1.881	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	369783.631	369783.63				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	635.360	0.00	0.0968	0.004	4.366	ug/L
|	Tl	205	1520.269	0.00	0.0879	0.013	15.251	ug/L
|	Pb	206	2570.356	0.01	0.4043	0.016	3.972	ug/L
|	Pb	207	2462.661	0.01	0.4173	0.019	4.486	ug/L
|	Pb	208	10729.030	0.03	0.4036	0.009	2.134	ug/L
|	U	238	15785.946	0.05	0.4387	0.008	1.897	ug/L
⌊>	Bi	209	334571.196	334571.20				ug/L

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 18:25:31
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	11087.253	-1.30	-0.0328	0.000	0.090	mg/L
Mg	24	346.707	0.00	-0.0046	0.000	0.312	mg/L
K	39	338869.383	-0.17	-0.0104	0.001	10.285	mg/L
Ca	43	246.694	-0.00	-0.0125	0.004	30.523	mg/L
Fe	54	29909.974	-0.01	-0.0077	0.002	26.483	mg/L
Fe	57	5305.275	-0.01	-0.0111	0.002	17.234	mg/L
> Sc-1	45	137438.104	137438.10				mg/L
Cl	35	14588.635	4738.45				mg/L
Kr	83	62.667	-9.33				mg/L
Br	81	5615.577	-409.58				mg/L
P	31	5994.478	261.47				mg/L
S	34	122770.442	4851.22				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	78.595				
Cr	52	66.125				
Cr	53					
Mn	55	76.690				
Co	59	105.108				
Ni	60	106.757				
Cu	65	108.379				
Zn	66	59.603				
> Ge	72		92.906			
As	75	102.078				
Se	77					
Se	82	129.126				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	47.118				
Cd	114	91.202				
> In	115		94.347			
Sn	118					
Sb	123	108.297				
Ba	135	96.763				
Ce	140					
> Tb	159		97.465			
Ho	165					
Tl	203	120.987				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.892				
U	238	109.670				
> Bi	209		105.734			
Na	23					

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 18:25:31
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	V	51	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Cr	52	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Mn	55	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Zn	66	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Se	82	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Ag	107	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Tl	203	LLCCV IS OUT OF LIMITS (+/-20%)

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: LCSW 81 WG359793-05

Sample Date/Time: Tuesday, March 29, 2011 18:30:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 106
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17548.789	0.03				ug/L
|	Be	9	6055.166	0.05	27.3760	0.481	1.759	ug/L
|	Al	27	113541.336	0.89	26.1340	1.238	4.738	ug/L
⌊>	Sc	45	121635.389	121635.39				ug/L
⌈	Ti	49	83.342	0.00	0.0072	0.074	1025.852	ug/L
|	V	51	169357.364	0.63	24.6691	0.063	0.254	ug/L
|	Cr	52	155967.429	0.56	25.7052	0.112	0.435	ug/L
|	Cr	53	18362.023	0.07	26.8353	0.912	3.400	ug/L
|	Mn	55	239307.314	0.90	26.9678	0.240	0.888	ug/L
|	Co	59	183012.751	0.69	26.6855	0.271	1.015	ug/L
|	Ni	60	39784.725	0.15	27.4652	0.449	1.636	ug/L
|	Cu	65	40680.321	0.15	27.6048	0.186	0.672	ug/L
|	Zn	66	32633.155	0.12	33.3392	0.223	0.670	ug/L
| >	Ge	72	265237.827	265237.83				ug/L
|	As	75	21140.307	0.08	23.0579	0.192	0.831	ug/L
|	Se	77	1608.129	0.01	21.6289	0.514	2.377	ug/L
|	Se	82	1874.690	0.01	21.4996	0.212	0.987	ug/L
⌊	Rb	85	83.335	0.00				mg/L
	Y	89	185363.923	-30673.03				ug/L
	Rh	103	24.667	-0.00				ug/L
⌈	Mo	98	74.097	0.00	0.0200	0.003	14.650	ug/L
|	Ag	107	116303.914	0.45	22.2841	0.153	0.687	ug/L
|	Cd	114	26213.512	0.10	23.9960	0.535	2.228	ug/L
| >	In	115	259154.210	259154.21				ug/L
|	Sn	118	205.469	0.00	-0.0555	0.004	8.077	ug/L
⌊	Sb	123	86006.859	0.33	24.1332	0.169	0.702	ug/L
⌈	Ba	135	34312.111	0.10	24.3481	0.310	1.272	ug/L
|	Ce	140	103.344	0.00				ug/L
⌊>	Tb	159	339653.118	339653.12				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	159241.944	0.53	24.7467	0.073	0.293	ug/L
|	Tl	205	388844.788	1.29	24.6793	0.479	1.942	ug/L
|	Pb	206	136153.684	0.45	26.3180	0.117	0.443	ug/L
|	Pb	207	120392.599	0.40	24.7554	0.239	0.967	ug/L
|	Pb	208	553707.875	1.83	25.5424	0.274	1.072	ug/L
|	U	238	895397.456	2.96	27.6736	0.409	1.479	ug/L
⌊>	Bi	209	302489.481	302489.48				ug/L

Sample ID: LCSW 81 WG359793-05
Report Date/Time: Tuesday, March 29, 2011 18:32:22
Page 1

Approved: March 30, 2011

⌈	Na	23	408472.554	1.98	0.0807	0.006	7.023	mg/L
|	Mg	24	29349.274	0.24	0.0075	0.000	3.378	mg/L
|	K	39	381190.169	0.50	0.0070	0.001	15.074	mg/L
|	Ca	43	580.075	0.00	0.0191	0.004	22.175	mg/L
|	Fe	54	57307.323	0.24	0.0673	0.010	14.699	mg/L
|	Fe	57	5415.347	-0.01	-0.0070	0.002	28.609	mg/L
⌊>	Sc-1	45	121635.389	121635.39				mg/L
	Cl	35	22401.071	12550.89				mg/L
	Kr	83	59.334	-12.67				mg/L
	Br	81	5298.074	-727.08				mg/L
	P	31	9194.272	3461.27				mg/L
	S	34	110079.337	-7839.88				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.233			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.118			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		89.523			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.596			
⌈	Na	23					

Sample ID: LCSW 81 WG359793-05
Report Date/Time: Tuesday, March 29, 2011 18:32:22
Page 2

Approved: March 30, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 81 WG359793-05
Report Date/Time: Tuesday, March 29, 2011 18:32:22
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079017

Sample Date/Time: Tuesday, March 29, 2011 18:36:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 107
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17431.944	0.02				ug/L
|	Be	9	21.333	0.00	0.0544	0.016	29.385	ug/L
|	Al	27	1630788.531	12.35	367.5591	4.613	1.255	ug/L
⌊>	Sc	45	131593.734	131593.73				ug/L
⌈	Ti	49	2343.844	0.01	5.4272	0.540	9.956	ug/L
|	V	51	7660.208	0.02	0.7714	0.035	4.598	ug/L
|	Cr	52	12449.536	0.01	0.7534	0.012	1.638	ug/L
|	Cr	53	1616.959	0.00	2.0596	0.088	4.255	ug/L
|	Mn	55	7355472.695	27.35	822.6286	14.746	1.793	ug/L
|	Co	59	5625.638	0.02	0.7975	0.011	1.359	ug/L
|	Ni	60	2856.103	0.01	1.8761	0.006	0.323	ug/L
|	Cu	65	2627.371	0.01	1.6686	0.035	2.100	ug/L
|	Zn	66	31123.372	0.11	31.1707	1.289	4.136	ug/L
|>	Ge	72	268879.224	268879.22				ug/L
|	As	75	796.810	0.00	0.9925	0.092	9.266	ug/L
|	Se	77	122.001	0.00	0.7337	0.175	23.795	ug/L
|	Se	82	102.559	0.00	1.2453	0.242	19.463	ug/L
⌊	Rb	85	9011.149	0.03				mg/L
	Y	89	189283.781	-26753.17				ug/L
	Rh	103	49.667	25.00				ug/L
⌈	Mo	98	1122.284	0.00	0.4278	0.012	2.782	ug/L
|	Ag	107	6482.507	0.03	1.2459	0.111	8.907	ug/L
|	Cd	114	25.292	0.00	0.0185	0.004	20.003	ug/L
|>	In	115	257819.878	257819.88				ug/L
|	Sn	118	958.579	0.00	0.1411	0.008	5.875	ug/L
⌊	Sb	123	273.452	0.00	0.0873	0.003	3.394	ug/L
⌈	Ba	135	67098.731	0.19	46.5353	1.121	2.409	ug/L
|	Ce	140	23433.131	0.07				ug/L
⌊>	Tb	159	347725.882	347725.88				ug/L
⌈	Ho	165	546.737	0.00				ug/L
|	Tl	203	180.337	0.00	0.0353	0.003	8.769	ug/L
|	Tl	205	426.719	0.00	0.0275	0.006	21.262	ug/L
|	Pb	206	2585.694	0.01	0.4505	0.016	3.661	ug/L
|	Pb	207	2259.945	0.01	0.4199	0.014	3.342	ug/L
|	Pb	208	10440.593	0.03	0.4334	0.003	0.775	ug/L
|	U	238	5952.831	0.02	0.1799	0.001	0.822	ug/L
⌊>	Bi	209	305166.095	305166.09				ug/L

Sample ID: L1103079017
Report Date/Time: Tuesday, March 29, 2011 18:39:09
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	135480991.005	1028.60	35.6356	1.588	4.455	mg/L
|	Mg	24	18887359.686	143.53	7.2292	0.160	2.206	mg/L
|	K	39	9384218.210	68.69	1.7803	0.032	1.782	mg/L
|	Ca	43	326967.202	2.48	26.3166	0.577	2.192	mg/L
|	Fe	54	354355.403	2.46	0.7247	0.019	2.555	mg/L
|	Fe	57	140399.536	1.02	0.7094	0.015	2.127	mg/L
⌊>	Sc-1	45	131593.734	131593.73				mg/L
	Cl	35	1111083.769	1101233.59				mg/L
	Kr	83	51.001	-21.00				mg/L
	Br	81	109495.784	103470.63				mg/L
	P	31	20366.728	14633.72				mg/L
	S	34	313956.020	196036.80				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.390			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		85.674			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.651			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.442			
⌈	Na	23					

Sample ID: L1103079017
Report Date/Time: Tuesday, March 29, 2011 18:39:09
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079017PS WG359899-05

Sample Date/Time: Tuesday, March 29, 2011 18:43:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 108
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17448.578	0.03				ug/L
|	Be	9	11850.351	0.10	53.1346	2.960	5.570	ug/L
|	Al	27	1793537.006	14.59	434.1744	37.938	8.738	ug/L
⌊>	Sc	45	122935.674	122935.67				ug/L
⌈	Ti	49	2874.062	0.01	6.9763	2.304	33.025	ug/L
|	V	51	315600.588	1.21	47.4685	0.367	0.773	ug/L
|	Cr	52	281491.313	1.06	48.7582	0.740	1.517	ug/L
|	Cr	53	34198.506	0.13	51.5386	2.015	3.910	ug/L
|	Mn	55	7452937.222	28.82	866.7020	7.086	0.818	ug/L
|	Co	59	340536.685	1.32	50.9387	0.623	1.224	ug/L
|	Ni	60	72840.760	0.28	51.6396	0.586	1.136	ug/L
|	Cu	65	74232.034	0.29	51.7476	1.087	2.100	ug/L
|	Zn	66	66969.175	0.26	73.8947	0.367	0.496	ug/L
|>	Ge	72	258593.825	258593.82				ug/L
|	As	75	40024.317	0.16	44.6427	0.352	0.788	ug/L
|	Se	77	2967.774	0.01	41.7868	2.081	4.981	ug/L
|	Se	82	3558.841	0.01	41.7772	0.607	1.452	ug/L
⌊	Rb	85	8773.936	0.03				mg/L
	Y	89	184993.829	-31043.12				ug/L
	Rh	103	61.001	36.33				ug/L
⌈	Mo	98	1098.473	0.00	0.4300	0.011	2.556	ug/L
|	Ag	107	194582.165	0.78	38.4981	0.555	1.441	ug/L
|	Cd	114	47167.681	0.19	44.5779	1.272	2.853	ug/L
|>	In	115	251013.502	251013.50				ug/L
|	Sn	118	878.305	0.00	0.1264	0.004	2.796	ug/L
⌊	Sb	123	158585.799	0.63	45.9359	0.458	0.996	ug/L
⌈	Ba	135	127922.615	0.38	92.0994	0.434	0.472	ug/L
|	Ce	140	23132.420	0.07				ug/L
⌊>	Tb	159	335005.408	335005.41				ug/L
⌈	Ho	165	400.048	0.00				ug/L
|	Tl	203	293751.783	1.01	47.5124	0.347	0.730	ug/L
|	Tl	205	722812.227	2.49	47.7592	0.376	0.788	ug/L
|	Pb	206	249218.064	0.86	50.1841	0.507	1.011	ug/L
|	Pb	207	221364.302	0.76	47.4160	0.483	1.018	ug/L
|	Pb	208	1017156.877	3.50	48.8805	0.286	0.586	ug/L
|	U	238	1693001.920	5.83	54.4752	0.469	0.860	ug/L
⌊>	Bi	209	290600.312	290600.31				ug/L

Sample ID: L1103079017PS WG359899-05
Report Date/Time: Tuesday, March 29, 2011 18:45:56
Page 1

Approved: March 30, 2011

⌈	Na	23	130449988.541	1061.58	36.7780	1.880	5.113	mg/L
|	Mg	24	18420987.731	150.11	7.5608	0.403	5.331	mg/L
|	K	39	8968070.576	70.44	1.8259	0.103	5.658	mg/L
|	Ca	43	304751.766	2.48	26.3026	1.515	5.762	mg/L
|	Fe	54	339501.987	2.54	0.7466	0.044	5.850	mg/L
|	Fe	57	132421.068	1.03	0.7183	0.053	7.381	mg/L
⌊>	Sc-1	45	122935.674	122935.67				mg/L
	Cl	35	1056902.042	1047051.86				mg/L
	Kr	83	59.334	-12.67				mg/L
	Br	81	109470.877	103445.72				mg/L
	P	31	20201.722	14468.72				mg/L
	S	34	305029.272	187110.05				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.123			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		83.412			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		88.298			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		91.838			
⌈	Na	23					

Sample ID: L1103079017PS WG359899-05
Report Date/Time: Tuesday, March 29, 2011 18:45:56
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103079017PS WG359899-05
Report Date/Time: Tuesday, March 29, 2011 18:45:56
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079017SDL WG359899-06

Sample Date/Time: Tuesday, March 29, 2011 18:50:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 109
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17331.674	0.03				ug/L
|	Be	9	20.000	0.00	0.0571	0.031	53.921	ug/L
|	Al	27	346733.431	2.83	84.0016	7.713	9.182	ug/L
⌊>	Sc	45	120877.218	120877.22				ug/L
⌈	Ti	49	610.081	0.00	1.2522	0.479	38.257	ug/L
|	V	51	3042.875	0.00	0.0942	0.010	10.474	ug/L
|	Cr	52	7872.844	-0.00	-0.0437	0.011	24.356	ug/L
|	Cr	53	793.444	0.00	0.8482	0.043	5.120	ug/L
|	Mn	55	1473203.270	5.42	163.0439	1.360	0.834	ug/L
|	Co	59	1128.408	0.00	0.1488	0.009	6.002	ug/L
|	Ni	60	670.363	0.00	0.3792	0.009	2.417	ug/L
|	Cu	65	1011.395	0.00	0.5766	0.021	3.691	ug/L
|	Zn	66	19320.172	0.07	17.8666	0.324	1.815	ug/L
|>	Ge	72	271499.900	271499.90				ug/L
|	As	75	138.948	0.00	0.2873	0.013	4.442	ug/L
|	Se	77	83.334	0.00	0.1870	0.202	107.778	ug/L
|	Se	82	38.517	0.00	0.5194	0.089	17.196	ug/L
⌊	Rb	85	1855.857	0.01				mg/L
	Y	89	184993.925	-31043.02				ug/L
	Rh	103	25.334	0.67				ug/L
⌈	Mo	98	239.694	0.00	0.0840	0.004	5.101	ug/L
|	Ag	107	373.344	0.00	0.0680	0.005	7.126	ug/L
|	Cd	114	8.237	0.00	0.0028	0.005	173.795	ug/L
|>	In	115	259403.298	259403.30				ug/L
|	Sn	118	293.204	0.00	-0.0328	0.001	3.997	ug/L
⌊	Sb	123	347.956	0.00	0.1078	0.010	8.976	ug/L
⌈	Ba	135	13752.254	0.04	9.7144	0.166	1.704	ug/L
|	Ce	140	4648.215	0.01				ug/L
⌊>	Tb	159	340700.498	340700.50				ug/L
⌈	Ho	165	156.684	0.00				ug/L
|	Tl	203	70.334	0.00	0.0182	0.001	7.101	ug/L
|	Tl	205	126.680	0.00	0.0085	0.003	30.100	ug/L
|	Pb	206	846.711	0.00	0.1152	0.007	6.068	ug/L
|	Pb	207	699.698	0.00	0.0999	0.004	3.900	ug/L
|	Pb	208	3295.580	0.01	0.1048	0.003	2.409	ug/L
|	U	238	1346.104	0.00	0.0383	0.001	3.642	ug/L
⌊>	Bi	209	307996.385	307996.39				ug/L

Approved: March 30, 2011

Na	23	27576070.582	227.10	7.8774	0.399	5.071	mg/L	
Mg	24	3965746.718	32.88	1.6524	0.117	7.082	mg/L	
K	39	2044337.149	14.29	0.3656	0.011	3.077	mg/L	
Ca	43	62869.979	0.52	5.4890	0.177	3.233	mg/L	
Fe	54	94961.521	0.56	0.1608	0.015	9.173	mg/L	
Fe	57	31492.670	0.21	0.1447	0.012	8.592	mg/L	
> Sc-1	45	120877.218	120877.22				mg/L	
Cl	35	232146.402	222296.22				mg/L	
Kr	83	55.667	-16.33				mg/L	
Br	81	29000.663	22975.51				mg/L	
P	31	8452.926	2719.92				mg/L	
S	34	158863.402	40944.18				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		86.222			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		86.200			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		89.799			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		97.336			
Na	23					

Sample ID: L1103079017SDL WG359899-06
Report Date/Time: Tuesday, March 29, 2011 18:52:44
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103079017SDL WG359899-06
Report Date/Time: Tuesday, March 29, 2011 18:52:44
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103074402 WG359793-02

Sample Date/Time: Tuesday, March 29, 2011 18:57:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 110
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19686.048	0.04				ug/L
|	Be	9	18.000	0.00	0.0424	0.028	67.094	ug/L
|	Al	27	668150.205	5.18	154.0173	7.244	4.703	ug/L
⌊>	Sc	45	127913.208	127913.21				ug/L
⌈	Ti	49	1043.493	0.00	2.2777	0.281	12.352	ug/L
|	V	51	19416.147	0.06	2.4503	0.059	2.390	ug/L
|	Cr	52	18981.536	0.04	1.8335	0.123	6.684	ug/L
|	Cr	53	2060.418	0.01	2.6701	0.045	1.668	ug/L
|	Mn	55	312421.401	1.15	34.3598	0.070	0.203	ug/L
|	Co	59	3432.623	0.01	0.4759	0.006	1.170	ug/L
|	Ni	60	11014.172	0.04	7.3566	0.066	0.900	ug/L
|	Cu	65	47484.950	0.17	31.4189	0.153	0.488	ug/L
|	Zn	66	116907.563	0.43	124.7946	0.275	0.220	ug/L
|>	Ge	72	272139.663	272139.66				ug/L
|	As	75	230.428	0.00	0.3836	0.027	7.076	ug/L
|	Se	77	103.334	0.00	0.4587	0.181	39.505	ug/L
|	Se	82	20.841	0.00	0.3218	0.137	42.435	ug/L
⌊	Rb	85	7072.571	0.03				mg/L
	Y	89	187174.041	-28862.91				ug/L
	Rh	103	41.334	16.67				ug/L
⌈	Mo	98	1736.707	0.01	0.6572	0.005	0.726	ug/L
|	Ag	107	5783.066	0.02	1.0944	0.045	4.149	ug/L
|	Cd	114	664.358	0.00	0.5985	0.062	10.403	ug/L
|>	In	115	261506.661	261506.66				ug/L
|	Sn	118	375.340	0.00	-0.0123	0.004	30.819	ug/L
⌊	Sb	123	1181.154	0.00	0.3386	0.013	3.831	ug/L
⌈	Ba	135	24723.773	0.07	17.1021	0.163	0.956	ug/L
|	Ce	140	4057.898	0.01				ug/L
⌊>	Tb	159	348287.043	348287.04				ug/L
⌈	Ho	165	86.676	0.00				ug/L
|	Tl	203	124.002	0.00	0.0263	0.004	15.571	ug/L
|	Tl	205	320.037	0.00	0.0205	0.005	23.974	ug/L
|	Pb	206	26005.035	0.08	4.8628	0.031	0.635	ug/L
|	Pb	207	21795.613	0.07	4.3348	0.056	1.292	ug/L
|	Pb	208	102104.267	0.33	4.5546	0.035	0.773	ug/L
|	U	238	5957.167	0.02	0.1770	0.001	0.589	ug/L
⌊>	Bi	209	310325.129	310325.13				ug/L

Sample ID: L1103074402 WG359793-02
Report Date/Time: Tuesday, March 29, 2011 18:59:32
Page 1

Approved: March 30, 2011

⌈	Na	23	127956183.667	999.46	34.6264	1.250	3.610	mg/L
|	Mg	24	9475007.604	74.10	3.7301	0.101	2.702	mg/L
|	K	39	4880664.947	35.52	0.9179	0.011	1.179	mg/L
|	Ca	43	223986.478	1.75	18.5403	0.282	1.521	mg/L
|	Fe	54	217210.921	1.47	0.4306	0.012	2.837	mg/L
|	Fe	57	76673.857	0.55	0.3818	0.003	0.769	mg/L
⌊>	Sc-1	45	127913.208	127913.21				mg/L
	Cl	35	694707.830	684857.65				mg/L
	Kr	83	56.667	-15.33				mg/L
	Br	81	17355.719	11330.56				mg/L
	P	31	11984.513	6251.51				mg/L
	S	34	322517.816	204598.60				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.425			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.899			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.799			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.072			
⌈	Na	23					

Sample ID: L1103074402 WG359793-02
Report Date/Time: Tuesday, March 29, 2011 18:59:32
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Sample ID: L1103074402 WG359793-02
Report Date/Time: Tuesday, March 29, 2011 18:59:32
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103074402S WG359793-08

Sample Date/Time: Tuesday, March 29, 2011 19:04:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 111
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18984.690	0.02				ug/L
|	Be	9	7049.151	0.05	28.0784	0.252	0.897	ug/L
|	Al	27	690124.758	4.95	147.1931	14.928	10.142	ug/L
⌊>	Sc	45	138029.556	138029.56				ug/L
⌈	Ti	49	953.474	0.00	1.9958	0.212	10.637	ug/L
|	V	51	197946.489	0.70	27.2925	0.318	1.165	ug/L
|	Cr	52	172572.510	0.58	26.9489	0.338	1.253	ug/L
|	Cr	53	20499.709	0.07	28.3361	0.489	1.724	ug/L
|	Mn	55	569674.810	2.03	60.8954	1.170	1.922	ug/L
|	Co	59	196052.620	0.70	27.0226	0.273	1.012	ug/L
|	Ni	60	51761.480	0.18	33.7940	0.363	1.073	ug/L
|	Cu	65	90260.881	0.32	58.0045	1.229	2.118	ug/L
|	Zn	66	145197.381	0.52	151.0141	1.734	1.148	ug/L
| >	Ge	72	280588.475	280588.48				ug/L
|	As	75	22824.406	0.08	23.5292	0.404	1.715	ug/L
|	Se	77	1678.808	0.01	21.3307	0.712	3.339	ug/L
|	Se	82	1960.745	0.01	21.2574	0.736	3.461	ug/L
⌊	Rb	85	6826.732	0.02				mg/L
	Y	89	191645.009	-24391.94				ug/L
	Rh	103	39.667	15.00				ug/L
⌈	Mo	98	1759.008	0.01	0.6496	0.017	2.634	ug/L
|	Ag	107	97485.874	0.36	18.0648	0.165	0.911	ug/L
|	Cd	114	27828.356	0.10	24.6398	0.222	0.902	ug/L
| >	In	115	267952.073	267952.07				ug/L
|	Sn	118	338.939	0.00	-0.0237	0.002	7.907	ug/L
⌊	Sb	123	87668.615	0.33	23.7939	0.293	1.231	ug/L
⌈	Ba	135	60977.627	0.17	41.4602	0.165	0.398	ug/L
|	Ce	140	3651.033	0.01				ug/L
⌊>	Tb	159	354618.648	354618.65				ug/L
⌈	Ho	165	80.008	0.00				ug/L
|	Tl	203	170176.150	0.54	25.2452	0.116	0.459	ug/L
|	Tl	205	420100.672	1.33	25.4553	0.128	0.502	ug/L
|	Pb	206	170229.045	0.54	31.4183	0.114	0.364	ug/L
|	Pb	207	150031.588	0.47	29.4550	0.072	0.245	ug/L
|	Pb	208	692417.165	2.18	30.4976	0.146	0.480	ug/L
|	U	238	1002485.933	3.16	29.5791	0.194	0.657	ug/L
⌊>	Bi	209	316881.169	316881.17				ug/L

Sample ID: L1103074402S WG359793-08
Report Date/Time: Tuesday, March 29, 2011 19:06:21
Page 1

Approved: March 30, 2011

⌈	Na	23	134134540.573	970.70	33.6305	1.034	3.076	mg/L
|	Mg	24	9631712.456	69.79	3.5126	0.049	1.399	mg/L
|	K	39	4900085.333	32.87	0.8488	0.019	2.258	mg/L
|	Ca	43	230289.514	1.67	17.6633	0.688	3.896	mg/L
|	Fe	54	206654.631	1.27	0.3709	0.012	3.129	mg/L
|	Fe	57	71263.464	0.47	0.3236	0.005	1.664	mg/L
⌊>	Sc-1	45	138029.556	138029.56				mg/L
	Cl	35	707822.118	697971.93				mg/L
	Kr	83	55.001	-17.00				mg/L
	Br	81	16698.597	10673.44				mg/L
	P	31	11832.334	6099.33				mg/L
	S	34	334856.659	216937.44				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.108			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.041			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.468			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.144			
⌈	Na	23					

Sample ID: L1103074402S WG359793-08
Report Date/Time: Tuesday, March 29, 2011 19:06:21
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Sample ID: L1103074402S WG359793-08
Report Date/Time: Tuesday, March 29, 2011 19:06:21
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 19:10:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17899.342	0.03				ug/L
|	Be	9	14145.333	0.11	62.6413	7.124	11.372	ug/L
|	Al	27	220010.892	1.73	51.0935	6.321	12.371	ug/L
⌊>	Sc	45	125303.237	125303.24				ug/L
⌈	Ti	49	42229.938	0.15	98.2784	3.102	3.156	ug/L
|	V	51	341713.871	1.23	48.0686	0.656	1.365	ug/L
|	Cr	52	306887.416	1.08	49.7405	0.493	0.991	ug/L
|	Cr	53	35576.763	0.13	50.1318	1.607	3.206	ug/L
|	Mn	55	474080.684	1.71	51.3991	0.400	0.779	ug/L
|	Co	59	373992.458	1.35	52.3221	0.216	0.413	ug/L
|	Ni	60	79248.573	0.29	52.5480	0.517	0.984	ug/L
|	Cu	65	81195.111	0.29	52.9424	0.214	0.404	ug/L
|	Zn	66	51000.899	0.18	51.6634	0.276	0.533	ug/L
⌊>	Ge	72	276500.615	276500.62				ug/L
|	As	75	47363.840	0.17	49.3943	0.841	1.702	ug/L
|	Se	77	3931.439	0.01	52.0056	0.465	0.894	ug/L
|	Se	82	4632.287	0.02	50.8360	0.777	1.529	ug/L
⌊	Rb	85	1850.523	0.01				mg/L
	Y	89	184192.672	-31844.28				ug/L
	Rh	103	38.000	13.33				ug/L
⌈	Mo	98	260505.787	0.98	97.9558	0.196	0.200	ug/L
|	Ag	107	237688.894	0.89	44.2681	0.244	0.551	ug/L
|	Cd	114	56152.901	0.21	49.9765	1.352	2.706	ug/L
⌊>	In	115	266623.750	266623.75				ug/L
|	Sn	118	202920.134	0.76	51.0503	0.286	0.559	ug/L
⌊	Sb	123	183875.647	0.69	50.1395	0.591	1.180	ug/L
⌈	Ba	135	70693.070	0.20	48.9307	0.550	1.124	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	348383.042	348383.04				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	327770.461	1.04	48.7288	0.333	0.684	ug/L
|	Tl	205	808294.040	2.56	49.0751	0.738	1.504	ug/L
|	Pb	206	268536.453	0.85	49.7112	1.304	2.623	ug/L
|	Pb	207	252966.408	0.80	49.8069	0.511	1.026	ug/L
|	Pb	208	1133065.184	3.58	50.0516	0.569	1.137	ug/L
|	U	238	1913247.259	6.05	56.5923	1.100	1.944	ug/L
⌊>	Bi	209	316185.590	316185.59				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 19:13:08
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	19013666.846	151.47	5.2582	0.520	9.893	mg/L	
Mg	24	13104140.501	105.28	5.3014	0.478	9.016	mg/L	
K	39	24925235.399	197.82	5.1381	0.537	10.444	mg/L	
Ca	43	60525.501	0.48	5.1178	0.378	7.381	mg/L	
Fe	54	2214462.610	17.57	5.1944	0.494	9.502	mg/L	
Fe	57	956016.694	7.62	5.3375	0.408	7.647	mg/L	
> Sc-1	45	125303.237	125303.24				mg/L	
Cl	35	12095.978	2245.79				mg/L	
Kr	83	60.667	-11.33				mg/L	
Br	81	5836.373	-188.78				mg/L	
P	31	5305.435	-427.57				mg/L	
S	34	123986.229	6067.01				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	96.137				
Cr	52	99.481				
Cr	53					
Mn	55	102.798				
Co	59	104.644				
Ni	60	105.096				
Cu	65	105.885				
Zn	66	103.327				
> Ge	72		87.810			
As	75	98.789				
Se	77					
Se	82	101.672				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	88.536				
Cd	114	99.953				
> In	115		88.600			
Sn	118					
Sb	123	100.279				
Ba	135	97.861				
Ce	140					
> Tb	159		91.824			
Ho	165					
Tl	203	97.458				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.103				
U	238	113.185				
> Bi	209		99.924			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 19:13:08

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Ag	107	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 19:13:08
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 19:17:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17999.528	0.03				ug/L
|	Be	9	13.333	-0.00	0.0241	0.028	118.076	ug/L
|	Al	27	4684.431	-0.01	-0.5812	0.019	3.233	ug/L
⌊>	Sc	45	125972.171	125972.17				ug/L
⌈	Ti	49	76.675	0.00	-0.0196	0.048	247.768	ug/L
|	V	51	1904.985	-0.00	-0.0798	0.012	14.519	ug/L
|	Cr	52	6498.509	-0.01	-0.3161	0.010	3.143	ug/L
|	Cr	53	383.379	0.00	0.2365	0.059	24.790	ug/L
|	Mn	55	343.676	-0.00	-0.1326	0.002	1.228	ug/L
|	Co	59	64.001	-0.00	-0.0033	0.002	66.120	ug/L
|	Ni	60	52.334	-0.00	-0.0400	0.007	17.450	ug/L
|	Cu	65	153.669	0.00	0.0022	0.002	69.388	ug/L
|	Zn	66	420.346	-0.00	-2.9198	0.019	0.646	ug/L
|>	Ge	72	281556.505	281556.51				ug/L
|	As	75	-98.919	0.00	0.0392	0.010	25.546	ug/L
|	Se	77	51.333	-0.00	-0.2768	0.191	69.168	ug/L
|	Se	82	3.817	0.00	0.1311	0.025	19.380	ug/L
⌊	Rb	85	23.000	-0.00				mg/L
	Y	89	189453.255	-26583.69				ug/L
	Rh	103	20.000	-4.67				ug/L
⌈	Mo	98	111.284	0.00	0.0325	0.004	13.274	ug/L
|	Ag	107	107.335	0.00	0.0162	0.001	4.472	ug/L
|	Cd	114	1.415	0.00	-0.0036	0.004	101.781	ug/L
|>	In	115	270840.951	270840.95				ug/L
|	Sn	118	254.270	0.00	-0.0457	0.004	7.974	ug/L
⌊	Sb	123	87.404	0.00	0.0337	0.003	10.127	ug/L
⌈	Ba	135	30.334	-0.00	-0.0037	0.004	120.246	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	354503.524	354503.52				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	57.334	0.00	0.0159	0.002	11.083	ug/L
|	Tl	205	126.680	0.00	0.0082	0.003	39.876	ug/L
|	Pb	206	295.007	0.00	0.0078	0.001	17.317	ug/L
|	Pb	207	267.006	-0.00	0.0101	0.002	15.587	ug/L
|	Pb	208	1179.039	0.00	0.0065	0.001	22.125	ug/L
|	U	238	165.670	0.00	0.0023	0.000	20.678	ug/L
⌊>	Bi	209	321586.592	321586.59				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 19:19:52
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	94904.373	-0.63	-0.0095	0.001	5.764	mg/L
|	Mg	24	636.752	0.00	-0.0044	0.000	1.760	mg/L
|	K	39	327668.545	-0.04	-0.0068	0.001	8.712	mg/L
|	Ca	43	276.698	-0.00	-0.0083	0.002	21.023	mg/L
|	Fe	54	29697.473	0.00	-0.0024	0.003	106.265	mg/L
|	Fe	57	5091.819	-0.01	-0.0099	0.003	29.487	mg/L
⌊>	Sc-1	45	125972.171	125972.17				mg/L
	Cl	35	11281.027	1430.84				mg/L
	Kr	83	59.334	-12.67				mg/L
	Br	81	5845.042	-180.11				mg/L
	P	31	5886.399	153.39				mg/L
	S	34	122930.247	5011.03				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.416			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.001			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.437			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.631			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 19:19:52
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 19:19:52
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, March 29, 2011 19:24:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17264.924	0.02				ug/L
|	Be	9	13.333	-0.00	0.0221	0.012	53.380	ug/L
|	Al	27	3117.157	-0.02	-0.9735	0.089	9.165	ug/L
⌊>	Sc	45	129989.993	129989.99				ug/L
⌈	Ti	49	43.338	-0.00	-0.0970	0.035	35.923	ug/L
|	V	51	4918.870	0.01	0.3331	0.035	10.443	ug/L
|	Cr	52	11703.296	0.01	0.5171	0.040	7.737	ug/L
|	Cr	53	906.799	0.00	0.9529	0.194	20.369	ug/L
|	Mn	55	5379.501	0.02	0.3999	0.011	2.841	ug/L
|	Co	59	3185.873	0.01	0.4216	0.010	2.442	ug/L
|	Ni	60	2719.064	0.01	1.6820	0.030	1.809	ug/L
|	Cu	65	1529.799	0.00	0.8756	0.021	2.406	ug/L
|	Zn	66	6799.714	0.02	3.7713	0.256	6.799	ug/L
|>	Ge	72	284264.504	284264.50				ug/L
|	As	75	244.047	0.00	0.3870	0.063	16.262	ug/L
|	Se	77	90.667	0.00	0.2323	0.199	85.456	ug/L
|	Se	82	29.473	0.00	0.4041	0.103	25.460	ug/L
⌊	Rb	85	23.667	-0.00				mg/L
	Y	89	193092.990	-22943.96				ug/L
	Rh	103	18.667	-6.00				ug/L
⌈	Mo	98	73.138	0.00	0.0181	0.004	23.255	ug/L
|	Ag	107	875.714	0.00	0.1555	0.004	2.629	ug/L
|	Cd	114	235.777	0.00	0.1997	0.011	5.387	ug/L
|>	In	115	273578.057	273578.06				ug/L
|	Sn	118	174.135	0.00	-0.0660	0.003	5.036	ug/L
⌊	Sb	123	1567.463	0.01	0.4267	0.008	1.926	ug/L
⌈	Ba	135	1108.739	0.00	0.7232	0.022	3.018	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	357776.134	357776.13				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	578.023	0.00	0.0922	0.006	6.499	ug/L
|	Tl	205	1210.194	0.00	0.0730	0.001	1.954	ug/L
|	Pb	206	2567.689	0.01	0.4228	0.007	1.588	ug/L
|	Pb	207	2428.653	0.01	0.4300	0.014	3.163	ug/L
|	Pb	208	10640.323	0.03	0.4187	0.005	1.165	ug/L
|	U	238	15458.427	0.05	0.4479	0.003	0.669	ug/L
⌊>	Bi	209	320867.185	320867.18				ug/L

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 19:26:42
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	11397.637	-1.29	-0.0326	0.000	0.399	mg/L
|	Mg	24	373.378	0.00	-0.0046	0.000	0.127	mg/L
|	K	39	325702.115	-0.13	-0.0093	0.002	24.096	mg/L
|	Ca	43	256.696	-0.00	-0.0105	0.006	57.092	mg/L
|	Fe	54	29677.689	-0.00	-0.0045	0.005	122.152	mg/L
|	Fe	57	5195.202	-0.01	-0.0102	0.001	13.243	mg/L
⌊>	Sc-1	45	129989.993	129989.99				mg/L
	Cl	35	11236.978	1386.79				mg/L
	Kr	83	60.667	-11.33				mg/L
	Br	81	5620.913	-404.24				mg/L
	P	31	4980.575	-752.43				mg/L
	S	34	120869.485	2950.27				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	83.272				
|	Cr	52	64.637				
|	Cr	53					
|	Mn	55	79.984				
|	Co	59	105.390				
|	Ni	60	105.126				
|	Cu	65	109.454				
|	Zn	66	60.340				
\>	Ge	72		90.276			
|	As	75	96.761				
|	Se	77					
|	Se	82	101.015				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	38.871				
|	Cd	114	99.828				
\>	In	115		90.911			
|	Sn	118					
⌊	Sb	123	106.683				
⌈	Ba	135	96.427				
|	Ce	140					
⌊>	Tb	159		94.300			
⌈	Ho	165					
|	Tl	203	115.199				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	104.684				
|	U	238	111.987				
⌊>	Bi	209		101.404			
⌈	Na	23					

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 19:26:42
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Cr	52	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Mn	55	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Zn	66	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Ag	107	LLCCV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 19:26:42
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103076201

Sample Date/Time: Tuesday, March 29, 2011 19:31:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 112
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17849.371	0.02				ug/L
|	Be	9	136.001	0.00	0.5184	0.084	16.258	ug/L
|	Al	27	22987347.161	170.39	5076.2076	198.199	3.904	ug/L
⌊>	Sc	45	134837.234	134837.23				ug/L
⌈	Ti	49	3944.506	0.01	9.0141	0.020	0.218	ug/L
|	V	51	84153.109	0.29	11.5908	0.305	2.630	ug/L
|	Cr	52	69690.684	0.22	10.2417	0.454	4.437	ug/L
|	Cr	53	7923.931	0.03	10.9474	0.178	1.624	ug/L
|	Mn	55	2417356.642	8.75	263.0171	14.335	5.450	ug/L
|	Co	59	51645.846	0.19	7.2217	0.379	5.241	ug/L
|	Ni	60	27148.114	0.10	17.9698	0.599	3.333	ug/L
|	Cu	65	33173.337	0.12	21.5934	0.769	3.563	ug/L
|	Zn	66	43795.300	0.16	43.9292	1.977	4.500	ug/L
|>	Ge	72	276186.848	276186.85				ug/L
|	As	75	7219.453	0.03	7.6552	0.226	2.952	ug/L
|	Se	77	122.001	0.00	0.6898	0.045	6.569	ug/L
|	Se	82	47.781	0.00	0.6130	0.178	28.975	ug/L
⌊	Rb	85	60351.665	0.22				mg/L
	Y	89	254302.323	38265.37				ug/L
	Rh	103	62.334	37.67				ug/L
⌈	Mo	98	6587.225	0.03	2.5144	0.112	4.454	ug/L
|	Ag	107	12142.546	0.05	2.2996	0.235	10.226	ug/L
|	Cd	114	212.872	0.00	0.1881	0.021	10.941	ug/L
|>	In	115	261731.759	261731.76				ug/L
|	Sn	118	166.801	0.00	-0.0659	0.004	5.866	ug/L
⌊	Sb	123	72.320	0.00	0.0303	0.002	5.668	ug/L
⌈	Ba	135	2009935.798	5.75	1387.0706	43.731	3.153	ug/L
|	Ce	140	256890.887	0.73				ug/L
⌊>	Tb	159	349604.678	349604.68				ug/L
⌈	Ho	165	4991.750	0.02				ug/L
|	Tl	203	1618.481	0.01	0.2575	0.022	8.682	ug/L
|	Tl	205	3977.858	0.01	0.2517	0.018	7.239	ug/L
|	Pb	206	64241.852	0.21	12.3212	0.472	3.831	ug/L
|	Pb	207	53851.965	0.18	10.9853	0.444	4.039	ug/L
|	Pb	208	251405.282	0.82	11.5050	0.383	3.331	ug/L
|	U	238	31375.828	0.10	0.9617	0.033	3.393	ug/L
⌊>	Bi	209	304258.987	304258.99				ug/L

Sample ID: L1103076201
Report Date/Time: Tuesday, March 29, 2011 19:33:31
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	4271869.244	30.31	1.0619	0.068	6.392	mg/L
|	Mg	24	5839380.196	43.32	2.1788	0.068	3.118	mg/L
|	K	39	4258065.927	28.97	0.7474	0.028	3.751	mg/L
|	Ca	43	61417.559	0.45	4.8012	0.136	2.843	mg/L
|	Fe	54	6959240.895	51.40	15.2083	0.518	3.407	mg/L
|	Fe	57	2983288.892	22.09	15.4764	0.769	4.969	mg/L
⌊>	Sc-1	45	134837.234	134837.23				mg/L
	Cl	35	51519.052	41668.87				mg/L
	Kr	83	63.668	-8.33				mg/L
	Br	81	6915.725	890.57				mg/L
	P	31	60469.183	54736.18				mg/L
	S	34	187890.971	69971.75				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.710			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.974			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.146			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.155			
⌈	Na	23					

Sample ID: L1103076201
Report Date/Time: Tuesday, March 29, 2011 19:33:31
Page 2

Approved: March 30, 2011

Erin D. Long

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103076203

Sample Date/Time: Tuesday, March 29, 2011 19:38:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 113
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15762.451	0.01				ug/L
|	Be	9	122.667	0.00	0.5012	0.116	23.074	ug/L
|	Al	27	17206048.260	136.94	4079.6182	113.332	2.778	ug/L
⌊>	Sc	45	125550.507	125550.51				ug/L
⌈	Ti	49	3814.452	0.01	8.8807	1.384	15.586	ug/L
|	V	51	76290.583	0.27	10.6789	1.027	9.613	ug/L
|	Cr	52	56886.435	0.18	8.2843	0.786	9.482	ug/L
|	Cr	53	6325.981	0.02	8.8483	1.074	12.135	ug/L
|	Mn	55	2700139.391	9.96	299.3980	30.211	10.090	ug/L
|	Co	59	73446.234	0.27	10.4704	1.060	10.124	ug/L
|	Ni	60	26790.875	0.10	18.0658	1.389	7.687	ug/L
|	Cu	65	31525.757	0.12	20.9035	1.695	8.110	ug/L
|	Zn	66	39603.588	0.14	40.2101	3.567	8.870	ug/L
|>	Ge	72	271309.515	271309.51				ug/L
|	As	75	3449.071	0.01	3.7979	0.314	8.268	ug/L
|	Se	77	104.667	0.00	0.4818	0.100	20.813	ug/L
|	Se	82	60.746	0.00	0.7691	0.126	16.356	ug/L
⌊	Rb	85	43571.140	0.16				mg/L
	Y	89	227965.003	11928.05				ug/L
	Rh	103	58.334	33.67				ug/L
⌈	Mo	98	10128.974	0.04	3.8793	0.313	8.061	ug/L
|	Ag	107	7629.670	0.03	1.4475	0.153	10.575	ug/L
|	Cd	114	192.611	0.00	0.1702	0.022	12.790	ug/L
|>	In	115	261324.382	261324.38				ug/L
|	Sn	118	287.471	0.00	-0.0348	0.005	14.591	ug/L
⌊	Sb	123	71.896	0.00	0.0302	0.002	5.567	ug/L
⌈	Ba	135	1835633.464	5.33	1285.6892	103.726	8.068	ug/L
|	Ce	140	219310.181	0.64				ug/L
⌊>	Tb	159	344496.160	344496.16				ug/L
⌈	Ho	165	3080.783	0.01				ug/L
|	Tl	203	2279.950	0.01	0.3645	0.030	8.148	ug/L
|	Tl	205	5745.569	0.02	0.3683	0.041	11.001	ug/L
|	Pb	206	57959.540	0.19	11.2654	0.861	7.647	ug/L
|	Pb	207	48409.020	0.16	10.0071	0.743	7.429	ug/L
|	Pb	208	227563.542	0.75	10.5536	0.805	7.630	ug/L
|	U	238	38480.623	0.13	1.1965	0.112	9.376	ug/L
⌊>	Bi	209	300282.782	300282.78				ug/L

Sample ID: L1103076203
Report Date/Time: Tuesday, March 29, 2011 19:40:20
Page 1

Approved: March 30, 2011

⌈	Na	23	4449528.114	34.05	1.1916	0.067	5.658	mg/L
|	Mg	24	5324398.475	42.40	2.1321	0.147	6.918	mg/L
|	K	39	3697265.697	26.80	0.6910	0.030	4.271	mg/L
|	Ca	43	65370.109	0.52	5.4888	0.303	5.517	mg/L
|	Fe	54	5238408.281	41.45	12.2625	0.936	7.632	mg/L
|	Fe	57	2253877.144	17.88	12.5252	0.950	7.583	mg/L
⌊>	Sc-1	45	125550.507	125550.51				mg/L
	Cl	35	43809.791	33959.61				mg/L
	Kr	83	67.668	-4.33				mg/L
	Br	81	6576.162	551.01				mg/L
	P	31	39099.113	33366.11				mg/L
	S	34	144858.529	26939.31				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.162			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.839			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.800			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.898			
⌈	Na	23					

Sample ID: L1103076203
Report Date/Time: Tuesday, March 29, 2011 19:40:20
Page 2

Approved: March 30, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079003

Sample Date/Time: Tuesday, March 29, 2011 19:44:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 114
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18083.009	0.03				ug/L
|	Be	9	181.335	0.00	0.7341	0.099	13.470	ug/L
|	Al	27	26212104.902	201.58	6005.4324	413.971	6.893	ug/L
⌊>	Sc	45	129955.679	129955.68				ug/L
⌈	Ti	49	3781.098	0.01	8.6605	0.903	10.432	ug/L
|	V	51	67261.456	0.23	9.2258	0.715	7.750	ug/L
|	Cr	52	73325.383	0.23	10.8877	0.848	7.786	ug/L
|	Cr	53	8097.435	0.03	11.2298	0.965	8.596	ug/L
|	Mn	55	1805287.210	6.56	197.0457	11.845	6.011	ug/L
|	Co	59	62306.604	0.23	8.7441	0.548	6.267	ug/L
|	Ni	60	26403.164	0.10	17.5324	1.125	6.417	ug/L
|	Cu	65	24183.181	0.09	15.7683	0.959	6.084	ug/L
|	Zn	66	43082.570	0.15	43.3176	2.733	6.308	ug/L
|>	Ge	72	275339.852	275339.85				ug/L
|	As	75	2426.591	0.01	2.6744	0.228	8.541	ug/L
|	Se	77	78.667	0.00	0.1079	0.261	241.435	ug/L
|	Se	82	5.339	0.00	0.1486	0.066	44.140	ug/L
⌊	Rb	85	62533.120	0.23				mg/L
	Y	89	264070.292	48033.34				ug/L
	Rh	103	21.334	-3.33				ug/L
⌈	Mo	98	192.547	0.00	0.0646	0.009	14.503	ug/L
|	Ag	107	2280.284	0.01	0.4265	0.033	7.826	ug/L
|	Cd	114	35.190	0.00	0.0269	0.011	39.979	ug/L
|>	In	115	263429.177	263429.18				ug/L
|	Sn	118	105.467	-0.00	-0.0819	0.001	1.557	ug/L
⌊	Sb	123	35.611	0.00	0.0200	0.000	1.952	ug/L
⌈	Ba	135	89265.887	0.26	61.9841	4.399	7.096	ug/L
|	Ce	140	341992.910	0.98				ug/L
⌊>	Tb	159	347445.978	347445.98				ug/L
⌈	Ho	165	5955.709	0.02				ug/L
|	Tl	203	449.681	0.00	0.0745	0.004	5.928	ug/L
|	Tl	205	1166.851	0.00	0.0717	0.003	3.627	ug/L
|	Pb	206	41826.298	0.13	7.7275	0.544	7.046	ug/L
|	Pb	207	34994.941	0.11	6.8761	0.418	6.086	ug/L
|	Pb	208	165484.960	0.52	7.2946	0.459	6.297	ug/L
|	U	238	17967.355	0.06	0.5305	0.038	7.092	ug/L
⌊>	Bi	209	315199.973	315199.97				ug/L

Sample ID: L1103079003
Report Date/Time: Tuesday, March 29, 2011 19:47:09
Page 1

Approved: March 30, 2011

⌈	Na	23	319771.420	1.08	0.0496	0.005	10.115	mg/L
|	Mg	24	6269823.194	48.22	2.4258	0.182	7.516	mg/L
|	K	39	2830399.213	19.13	0.4916	0.044	8.932	mg/L
|	Ca	43	16191.402	0.12	1.2893	0.053	4.075	mg/L
|	Fe	54	6615435.967	50.66	14.9875	0.845	5.639	mg/L
|	Fe	57	2929285.856	22.48	15.7485	1.079	6.849	mg/L
⌊>	Sc-1	45	129955.679	129955.68				mg/L
	Cl	35	17523.350	7673.17				mg/L
	Kr	83	76.001	4.00				mg/L
	Br	81	5436.147	-589.01				mg/L
	P	31	50218.664	44485.66				mg/L
	S	34	96543.858	-21375.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.441			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		87.538			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.577			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.613			
⌈	Na	23					

Sample ID: L1103079003
Report Date/Time: Tuesday, March 29, 2011 19:47:09
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079005

Sample Date/Time: Tuesday, March 29, 2011 19:51:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 115
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17214.825	0.02				ug/L
|	Be	9	167.335	0.00	0.6852	0.082	12.017	ug/L
|	Al	27	18966352.940	148.12	4412.6769	328.842	7.452	ug/L
⌊>	Sc	45	127879.391	127879.39				ug/L
⌈	Ti	49	2577.258	0.01	5.8959	0.575	9.749	ug/L
|	V	51	57860.052	0.20	7.9619	0.537	6.741	ug/L
|	Cr	52	47159.352	0.14	6.5810	0.537	8.162	ug/L
|	Cr	53	5211.886	0.02	7.1885	0.710	9.879	ug/L
|	Mn	55	6650231.703	24.37	732.9063	58.948	8.043	ug/L
|	Co	59	54673.805	0.20	7.7411	0.624	8.060	ug/L
|	Ni	60	17422.376	0.06	11.6483	0.794	6.814	ug/L
|	Cu	65	17273.461	0.06	11.3379	0.882	7.781	ug/L
|	Zn	66	32394.833	0.12	32.0531	2.347	7.322	ug/L
|>	Ge	72	272950.079	272950.08				ug/L
|	As	75	5839.569	0.02	6.2930	0.306	4.863	ug/L
|	Se	77	82.667	0.00	0.1724	0.074	42.942	ug/L
|	Se	82	25.111	0.00	0.3679	0.198	53.934	ug/L
⌊	Rb	85	54558.907	0.20				mg/L
	Y	89	234962.484	18925.54				ug/L
	Rh	103	20.334	-4.33				ug/L
⌈	Mo	98	1784.758	0.01	0.6861	0.057	8.284	ug/L
|	Ag	107	5351.156	0.02	1.0283	0.076	7.438	ug/L
|	Cd	114	103.736	0.00	0.0908	0.028	30.528	ug/L
|>	In	115	257642.042	257642.04				ug/L
|	Sn	118	153.068	0.00	-0.0688	0.003	4.347	ug/L
⌊	Sb	123	69.278	0.00	0.0297	0.003	10.989	ug/L
⌈	Ba	135	116617.051	0.34	81.4393	4.797	5.891	ug/L
|	Ce	140	215798.106	0.62				ug/L
⌊>	Tb	159	345361.673	345361.67				ug/L
⌈	Ho	165	3884.480	0.01				ug/L
|	Tl	203	641.694	0.00	0.1028	0.007	6.992	ug/L
|	Tl	205	1473.590	0.00	0.0901	0.008	8.709	ug/L
|	Pb	206	43478.666	0.14	8.0040	0.524	6.543	ug/L
|	Pb	207	36275.920	0.11	7.1024	0.512	7.213	ug/L
|	Pb	208	171409.399	0.54	7.5287	0.504	6.693	ug/L
|	U	238	14451.940	0.05	0.4246	0.027	6.474	ug/L
⌊>	Bi	209	316374.253	316374.25				ug/L

Sample ID: L1103079005
Report Date/Time: Tuesday, March 29, 2011 19:53:59
Page 1

Approved: March 30, 2011

⌈	Na	23	142305.120	-0.27	0.0029	0.002	52.537	mg/L
|	Mg	24	3334568.284	26.05	1.3083	0.092	7.065	mg/L
|	K	39	2057609.372	13.45	0.3438	0.006	1.743	mg/L
|	Ca	43	22801.684	0.18	1.8578	0.115	6.179	mg/L
|	Fe	54	4465412.860	34.67	10.2559	0.496	4.836	mg/L
|	Fe	57	1973586.775	15.37	10.7643	0.727	6.752	mg/L
⌊>	Sc-1	45	127879.391	127879.39				mg/L
	Cl	35	11019.405	1169.22				mg/L
	Kr	83	64.001	-8.00				mg/L
	Br	81	5751.654	-273.50				mg/L
	P	31	158581.737	152848.73				mg/L
	S	34	95844.551	-22074.67				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.683			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		85.615			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.028			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.984			
⌈	Na	23					

Sample ID: L1103079005
Report Date/Time: Tuesday, March 29, 2011 19:53:59
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079007

Sample Date/Time: Tuesday, March 29, 2011 19:58:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 116
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17248.207	0.02				ug/L
|	Be	9	198.002	0.00	0.7759	0.081	10.388	ug/L
|	Al	27	28616739.070	212.87	6341.8210	253.199	3.993	ug/L
⌊>	Sc	45	134346.688	134346.69				ug/L
⌈	Ti	49	4067.904	0.01	9.2075	0.798	8.672	ug/L
|	V	51	80089.198	0.28	10.9016	0.689	6.323	ug/L
|	Cr	52	79078.164	0.25	11.6767	0.934	7.996	ug/L
|	Cr	53	9121.738	0.03	12.5153	0.239	1.911	ug/L
|	Mn	55	2981962.007	10.69	321.3264	23.563	7.333	ug/L
|	Co	59	70864.121	0.25	9.8161	0.605	6.163	ug/L
|	Ni	60	30589.795	0.11	20.0565	1.259	6.279	ug/L
|	Cu	65	29231.402	0.10	18.8285	1.280	6.799	ug/L
|	Zn	66	47989.225	0.17	47.9519	2.886	6.017	ug/L
| >	Ge	72	279028.407	279028.41				ug/L
|	As	75	5295.609	0.02	5.5981	0.385	6.869	ug/L
|	Se	77	101.334	0.00	0.3967	0.307	77.461	ug/L
|	Se	82	13.693	0.00	0.2388	0.138	57.638	ug/L
⌊	Rb	85	64955.951	0.23				mg/L
	Y	89	263407.597	47370.65				ug/L
	Rh	103	19.000	-5.67				ug/L
⌈	Mo	98	396.222	0.00	0.1418	0.009	6.269	ug/L
|	Ag	107	3030.492	0.01	0.5665	0.046	8.160	ug/L
|	Cd	114	45.435	0.00	0.0361	0.012	33.605	ug/L
| >	In	115	263983.608	263983.61				ug/L
|	Sn	118	98.134	-0.00	-0.0838	0.002	2.556	ug/L
⌊	Sb	123	38.853	0.00	0.0209	0.001	5.862	ug/L
⌈	Ba	135	102282.227	0.29	70.3118	3.837	5.457	ug/L
|	Ce	140	348221.431	0.99				ug/L
⌊>	Tb	159	350688.749	350688.75				ug/L
⌈	Ho	165	5505.408	0.02				ug/L
|	Tl	203	572.356	0.00	0.0921	0.007	7.808	ug/L
|	Tl	205	1316.885	0.00	0.0801	0.003	3.171	ug/L
|	Pb	206	51716.245	0.16	9.4780	0.621	6.549	ug/L
|	Pb	207	43732.483	0.14	8.5248	0.608	7.133	ug/L
|	Pb	208	205694.101	0.64	8.9951	0.633	7.036	ug/L
|	U	238	18015.118	0.06	0.5271	0.041	7.688	ug/L
⌊>	Bi	209	318086.579	318086.58				ug/L

Sample ID: L1103079007
Report Date/Time: Tuesday, March 29, 2011 20:00:49
Page 1

Approved: March 30, 2011

⌈	Na	23	146703.309	-0.29	0.0022	0.002	94.919	mg/L
|	Mg	24	7494401.820	55.76	2.8054	0.172	6.141	mg/L
|	K	39	3070811.876	20.21	0.5196	0.031	6.054	mg/L
|	Ca	43	29038.458	0.21	2.2597	0.129	5.694	mg/L
|	Fe	54	7714253.067	57.16	16.9104	0.981	5.803	mg/L
|	Fe	57	3330391.388	24.72	17.3186	1.118	6.458	mg/L
⌊>	Sc-1	45	134346.688	134346.69				mg/L
	Cl	35	12206.114	2355.93				mg/L
	Kr	83	73.668	1.67				mg/L
	Br	81	5218.028	-807.13				mg/L
	P	31	69398.054	63665.05				mg/L
	S	34	100679.682	-17239.54				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.613			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		87.722			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.432			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.525			
⌈	Na	23					

Sample ID: L1103079007
Report Date/Time: Tuesday, March 29, 2011 20:00:49
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079009

Sample Date/Time: Tuesday, March 29, 2011 20:05:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 117
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17815.862	0.02				ug/L
|	Be	9	174.002	0.00	0.6855	0.058	8.527	ug/L
|	Al	27	29038744.404	218.74	6516.6741	860.757	13.209	ug/L
⌊>	Sc	45	133063.426	133063.43				ug/L
⌈	Ti	49	3911.164	0.01	9.0512	1.201	13.267	ug/L
|	V	51	77794.579	0.28	10.8274	0.711	6.569	ug/L
|	Cr	52	75815.787	0.25	11.4219	0.897	7.852	ug/L
|	Cr	53	8564.542	0.03	12.0084	1.083	9.022	ug/L
|	Mn	55	4271350.069	15.66	470.7633	36.659	7.787	ug/L
|	Co	59	73239.421	0.27	10.3755	1.008	9.720	ug/L
|	Ni	60	25325.051	0.09	16.9707	1.119	6.592	ug/L
|	Cu	65	25705.993	0.09	16.9239	0.878	5.185	ug/L
|	Zn	66	42899.185	0.16	43.5511	2.904	6.668	ug/L
|>	Ge	72	272737.129	272737.13				ug/L
|	As	75	5423.674	0.02	5.8569	0.318	5.427	ug/L
|	Se	77	79.334	0.00	0.1278	0.118	92.054	ug/L
|	Se	82	-0.739	-0.00	0.0811	0.126	155.144	ug/L
⌊	Rb	85	62870.475	0.23				mg/L
	Y	89	265052.270	49015.32				ug/L
	Rh	103	20.334	-4.33				ug/L
⌈	Mo	98	592.859	0.00	0.2210	0.025	11.189	ug/L
|	Ag	107	3071.504	0.01	0.5859	0.047	8.064	ug/L
|	Cd	114	120.853	0.00	0.1060	0.017	15.703	ug/L
|>	In	115	259009.515	259009.52				ug/L
|	Sn	118	105.734	-0.00	-0.0813	0.003	3.564	ug/L
⌊	Sb	123	38.984	0.00	0.0212	0.001	4.797	ug/L
⌈	Ba	135	85178.373	0.25	59.2545	4.923	8.308	ug/L
|	Ce	140	387019.007	1.12				ug/L
⌊>	Tb	159	346838.364	346838.36				ug/L
⌈	Ho	165	5695.532	0.02				ug/L
|	Tl	203	574.356	0.00	0.0947	0.002	2.369	ug/L
|	Tl	205	1400.238	0.00	0.0875	0.004	4.646	ug/L
|	Pb	206	52135.927	0.17	9.8268	0.889	9.046	ug/L
|	Pb	207	44176.850	0.14	8.8564	0.802	9.051	ug/L
|	Pb	208	207931.852	0.67	9.3520	0.873	9.338	ug/L
|	U	238	15980.971	0.05	0.4806	0.044	9.200	ug/L
⌊>	Bi	209	309556.522	309556.52				ug/L

Sample ID: L1103079009
Report Date/Time: Tuesday, March 29, 2011 20:07:40
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	331773.689	1.12	0.0509	0.010	18.862	mg/L
|	Mg	24	6462545.064	48.65	2.4473	0.294	12.015	mg/L
|	K	39	2776553.999	18.26	0.4690	0.042	9.053	mg/L
|	Ca	43	87589.191	0.66	6.9585	0.733	10.533	mg/L
|	Fe	54	7633422.599	57.25	16.9374	1.913	11.292	mg/L
|	Fe	57	3343448.839	25.12	17.5997	2.189	12.437	mg/L
⌊>	Sc-1	45	133063.426	133063.43				mg/L
	Cl	35	14692.119	4841.94				mg/L
	Kr	83	85.001	13.00				mg/L
	Br	81	5330.754	-694.40				mg/L
	P	31	60778.131	55045.13				mg/L
	S	34	107496.784	-10422.44				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.615			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.070			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.417			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.829			
⌈	Na	23					

Sample ID: L1103079009
Report Date/Time: Tuesday, March 29, 2011 20:07:40
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079011

Sample Date/Time: Tuesday, March 29, 2011 20:12:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 118
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17431.954	0.02				ug/L
|	Be	9	160.001	0.00	0.6482	0.080	12.337	ug/L
|	Al	27	17971057.340	139.60	4158.7533	247.137	5.943	ug/L
⌊>	Sc	45	128656.289	128656.29				ug/L
⌈	Ti	49	2683.962	0.01	6.0540	0.300	4.949	ug/L
|	V	51	71081.033	0.25	9.7111	0.830	8.544	ug/L
|	Cr	52	48137.083	0.14	6.6272	0.572	8.629	ug/L
|	Cr	53	5081.802	0.02	6.8951	0.473	6.864	ug/L
|	Mn	55	5578318.376	20.14	605.7012	47.324	7.813	ug/L
|	Co	59	53802.560	0.19	7.5056	0.657	8.756	ug/L
|	Ni	60	16878.118	0.06	11.1160	0.858	7.716	ug/L
|	Cu	65	18895.431	0.07	12.2279	1.012	8.279	ug/L
|	Zn	66	37870.841	0.14	37.4336	2.921	7.803	ug/L
| >	Ge	72	276965.548	276965.55				ug/L
|	As	75	11977.456	0.04	12.5772	0.978	7.777	ug/L
|	Se	77	92.000	0.00	0.2813	0.092	32.562	ug/L
|	Se	82	29.427	0.00	0.4121	0.110	26.699	ug/L
⌊	Rb	85	58789.140	0.21				mg/L
	Y	89	229177.164	13140.22				ug/L
	Rh	103	24.000	-0.67				ug/L
⌈	Mo	98	5247.900	0.02	2.0133	0.152	7.566	ug/L
|	Ag	107	6613.937	0.03	1.2589	0.145	11.539	ug/L
|	Cd	114	180.088	0.00	0.1594	0.004	2.785	ug/L
| >	In	115	260285.237	260285.24				ug/L
|	Sn	118	166.935	0.00	-0.0657	0.003	3.855	ug/L
⌊	Sb	123	84.693	0.00	0.0339	0.002	5.593	ug/L
⌈	Ba	135	114372.591	0.33	80.0892	5.728	7.152	ug/L
|	Ce	140	199996.203	0.58				ug/L
⌊>	Tb	159	344265.699	344265.70				ug/L
⌈	Ho	165	3547.661	0.01				ug/L
|	Tl	203	549.687	0.00	0.0910	0.009	9.811	ug/L
|	Tl	205	1403.574	0.00	0.0877	0.013	14.725	ug/L
|	Pb	206	83342.210	0.27	15.7356	1.112	7.069	ug/L
|	Pb	207	70537.176	0.23	14.1655	1.032	7.284	ug/L
|	Pb	208	330917.705	1.07	14.9093	1.111	7.450	ug/L
|	U	238	19492.251	0.06	0.5867	0.045	7.644	ug/L
⌊>	Bi	209	309287.960	309287.96				ug/L

Sample ID: L1103079011
Report Date/Time: Tuesday, March 29, 2011 20:14:31
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	67883.785	-0.85	-0.0174	0.001	4.896	mg/L
|	Mg	24	2660438.014	20.68	1.0374	0.062	5.976	mg/L
|	K	39	2541703.959	17.11	0.4391	0.022	4.989	mg/L
|	Ca	43	12302.138	0.09	0.9828	0.051	5.219	mg/L
|	Fe	54	5480368.037	42.35	12.5290	0.929	7.412	mg/L
|	Fe	57	2446289.154	18.95	13.2765	1.159	8.727	mg/L
⌊>	Sc-1	45	128656.289	128656.29				mg/L
	Cl	35	18390.896	8540.71				mg/L
	Kr	83	66.001	-6.00				mg/L
	Br	81	7347.367	1322.21				mg/L
	P	31	95842.986	90109.98				mg/L
	S	34	99914.712	-18004.51				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.958			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.493			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.739			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.744			
⌈	Na	23					

Sample ID: L1103079011
Report Date/Time: Tuesday, March 29, 2011 20:14:31
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103079011
Report Date/Time: Tuesday, March 29, 2011 20:14:31

Approved: March 30, 2011
Erin D. Long

Method 6020 - Summary Report

Sample ID: L1103079013

Sample Date/Time: Tuesday, March 29, 2011 20:19:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 119
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18116.495	0.03				ug/L
|	Be	9	156.001	0.00	0.6550	0.104	15.913	ug/L
|	Al	27	20487164.615	164.59	4903.3490	252.948	5.159	ug/L
⌊>	Sc	45	124419.276	124419.28				ug/L
⌈	Ti	49	2557.253	0.01	5.8050	0.754	12.991	ug/L
|	V	51	66881.349	0.23	9.1888	0.577	6.279	ug/L
|	Cr	52	48487.147	0.14	6.7469	0.228	3.377	ug/L
|	Cr	53	5005.087	0.02	6.8404	0.247	3.610	ug/L
|	Mn	55	7621974.388	27.73	833.9687	38.843	4.658	ug/L
|	Co	59	83902.510	0.30	11.8002	0.536	4.546	ug/L
|	Ni	60	15651.408	0.06	10.3815	0.410	3.951	ug/L
|	Cu	65	13403.793	0.05	8.7125	0.446	5.118	ug/L
|	Zn	66	29379.477	0.11	28.5267	1.753	6.145	ug/L
| >	Ge	72	274822.909	274822.91				ug/L
|	As	75	4287.218	0.02	4.6256	0.156	3.366	ug/L
|	Se	77	80.667	0.00	0.1375	0.181	131.910	ug/L
|	Se	82	17.713	0.00	0.2852	0.067	23.633	ug/L
⌊	Rb	85	59364.865	0.22				mg/L
	Y	89	223188.619	7151.67				ug/L
	Rh	103	20.667	-4.00				ug/L
⌈	Mo	98	1821.577	0.01	0.6902	0.046	6.724	ug/L
|	Ag	107	7158.312	0.03	1.3569	0.116	8.581	ug/L
|	Cd	114	72.110	0.00	0.0607	0.004	6.481	ug/L
| >	In	115	261301.468	261301.47				ug/L
|	Sn	118	147.334	0.00	-0.0709	0.003	4.164	ug/L
⌊	Sb	123	70.817	0.00	0.0299	0.001	4.906	ug/L
⌈	Ba	135	110821.449	0.32	77.3614	4.409	5.700	ug/L
|	Ce	140	276536.260	0.80				ug/L
⌊>	Tb	159	345480.915	345480.92				ug/L
⌈	Ho	165	2780.667	0.01				ug/L
|	Tl	203	592.024	0.00	0.0970	0.006	6.680	ug/L
|	Tl	205	1340.224	0.00	0.0835	0.008	9.826	ug/L
|	Pb	206	59243.544	0.19	11.1186	0.594	5.346	ug/L
|	Pb	207	49664.038	0.16	9.9137	0.498	5.025	ug/L
|	Pb	208	233069.541	0.75	10.4366	0.492	4.715	ug/L
|	U	238	11852.482	0.04	0.3540	0.016	4.604	ug/L
⌊>	Bi	209	310829.207	310829.21				ug/L

Sample ID: L1103079013
Report Date/Time: Tuesday, March 29, 2011 20:21:18
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	66490.875	-0.85	-0.0171	0.001	6.030	mg/L
|	Mg	24	1956366.947	15.72	0.7876	0.054	6.817	mg/L
|	K	39	2616848.164	18.39	0.4723	0.022	4.702	mg/L
|	Ca	43	9618.943	0.07	0.7879	0.066	8.435	mg/L
|	Fe	54	4604827.391	36.78	10.8791	0.552	5.072	mg/L
|	Fe	57	1970946.903	15.79	11.0591	0.502	4.543	mg/L
⌊>	Sc-1	45	124419.276	124419.28				mg/L
	Cl	35	22612.213	12762.03				mg/L
	Kr	83	71.334	-0.67				mg/L
	Br	81	8065.252	2040.10				mg/L
	P	31	61204.971	55471.97				mg/L
	S	34	96828.902	-21090.32				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.277			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.831			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.059			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.231			
⌈	Na	23					

Sample ID: L1103079013
Report Date/Time: Tuesday, March 29, 2011 20:21:18
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079015

Sample Date/Time: Tuesday, March 29, 2011 20:25:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 120
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16647.195	0.02				ug/L
|	Be	9	103.334	0.00	0.4182	0.037	8.789	ug/L
|	Al	27	15750179.622	125.25	3731.4104	214.838	5.758	ug/L
⌊>	Sc	45	125701.967	125701.97				ug/L
⌈	Ti	49	1767.000	0.01	3.9556	0.279	7.045	ug/L
|	V	51	60159.136	0.21	8.2414	0.562	6.815	ug/L
|	Cr	52	40786.204	0.12	5.4646	0.369	6.755	ug/L
|	Cr	53	4298.023	0.01	5.8392	0.486	8.331	ug/L
|	Mn	55	2101291.582	7.65	230.0957	15.764	6.851	ug/L
|	Co	59	33963.701	0.12	4.7756	0.296	6.204	ug/L
|	Ni	60	10807.622	0.04	7.1547	0.414	5.791	ug/L
|	Cu	65	16332.169	0.06	10.6498	0.486	4.562	ug/L
|	Zn	66	25173.949	0.09	23.9952	1.522	6.344	ug/L
|>	Ge	72	274559.954	274559.95				ug/L
|	As	75	7936.439	0.03	8.4532	0.363	4.288	ug/L
|	Se	77	62.000	0.00	-0.1150	0.068	59.008	ug/L
|	Se	82	19.470	0.00	0.3048	0.134	44.035	ug/L
⌊	Rb	85	54182.623	0.20				mg/L
	Y	89	200452.408	-15584.54				ug/L
	Rh	103	17.667	-7.00				ug/L
⌈	Mo	98	2617.424	0.01	0.9929	0.069	6.944	ug/L
|	Ag	107	4180.918	0.02	0.7891	0.057	7.266	ug/L
|	Cd	114	79.248	0.00	0.0668	0.021	31.813	ug/L
|>	In	115	262076.973	262076.97				ug/L
|	Sn	118	113.067	-0.00	-0.0798	0.001	1.608	ug/L
⌊	Sb	123	60.942	0.00	0.0271	0.002	7.220	ug/L
⌈	Ba	135	55428.015	0.16	38.8755	2.085	5.363	ug/L
|	Ce	140	114700.382	0.33				ug/L
⌊>	Tb	159	343777.356	343777.36				ug/L
⌈	Ho	165	1086.834	0.00				ug/L
|	Tl	203	521.352	0.00	0.0855	0.006	6.867	ug/L
|	Tl	205	1260.205	0.00	0.0777	0.003	3.224	ug/L
|	Pb	206	45924.285	0.15	8.5235	0.501	5.877	ug/L
|	Pb	207	38767.225	0.12	7.6530	0.412	5.379	ug/L
|	Pb	208	182063.244	0.58	8.0627	0.435	5.392	ug/L
|	U	238	11494.401	0.04	0.3399	0.019	5.686	ug/L
⌊>	Bi	209	313823.386	313823.39				ug/L

Sample ID: L1103079015
Report Date/Time: Tuesday, March 29, 2011 20:28:06
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	39609.002	-1.07	-0.0247	0.000	1.843	mg/L
|	Mg	24	1898690.289	15.11	0.7568	0.024	3.111	mg/L
|	K	39	2207751.398	14.93	0.3823	0.025	6.510	mg/L
|	Ca	43	6409.370	0.05	0.5088	0.037	7.366	mg/L
|	Fe	54	4147448.075	32.76	9.6912	0.370	3.816	mg/L
|	Fe	57	1788362.010	14.17	9.9267	0.642	6.463	mg/L
⌊>	Sc-1	45	125701.967	125701.97				mg/L
	Cl	35	13432.350	3582.17				mg/L
	Kr	83	61.001	-11.00				mg/L
	Br	81	5940.431	-84.72				mg/L
	P	31	47267.651	41534.65				mg/L
	S	34	91228.326	-26690.89				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.194			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		87.089			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.610			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.178			
⌈	Na	23					

Sample ID: L1103079015
Report Date/Time: Tuesday, March 29, 2011 20:28:06
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 20:32:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15929.418	0.02				ug/L
|	Be	9	13266.128	0.11	60.9168	1.511	2.481	ug/L
|	Al	27	224972.846	1.83	54.2314	2.304	4.248	ug/L
⌊>	Sc	45	119847.307	119847.31				ug/L
⌈	Ti	49	41543.625	0.15	95.5551	1.851	1.937	ug/L
|	V	51	351185.927	1.25	48.8384	0.885	1.812	ug/L
|	Cr	52	308819.947	1.07	49.4714	1.079	2.181	ug/L
|	Cr	53	35529.888	0.13	49.4804	0.694	1.402	ug/L
|	Mn	55	479293.367	1.71	51.3632	0.741	1.442	ug/L
|	Co	59	381531.854	1.36	52.7605	0.792	1.502	ug/L
|	Ni	60	80823.457	0.29	52.9705	0.756	1.427	ug/L
|	Cu	65	82685.604	0.30	53.2894	0.678	1.273	ug/L
|	Zn	66	51955.815	0.18	52.0410	0.595	1.143	ug/L
| >	Ge	72	279770.424	279770.42				ug/L
|	As	75	48980.132	0.18	50.4808	0.359	0.712	ug/L
|	Se	77	3974.123	0.01	51.9550	1.024	1.970	ug/L
|	Se	82	4776.977	0.02	51.8211	1.584	3.057	ug/L
⌊	Rb	85	1905.201	0.01				mg/L
	Y	89	194315.771	-21721.18				ug/L
	Rh	103	29.334	4.67				ug/L
⌈	Mo	98	269364.419	1.00	100.3136	0.848	0.845	ug/L
|	Ag	107	266142.390	0.99	49.0933	0.118	0.240	ug/L
|	Cd	114	56809.522	0.21	50.0689	0.331	0.662	ug/L
| >	In	115	269205.055	269205.05				ug/L
|	Sn	118	206097.971	0.77	51.3521	0.496	0.966	ug/L
⌊	Sb	123	187097.566	0.69	50.5285	0.464	0.918	ug/L
⌈	Ba	135	71191.249	0.20	49.3578	0.892	1.806	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	347825.520	347825.52				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	319537.766	1.05	49.3084	0.412	0.835	ug/L
|	Tl	205	787632.821	2.59	49.6533	1.745	3.515	ug/L
|	Pb	206	262539.710	0.86	50.4404	0.460	0.911	ug/L
|	Pb	207	245529.710	0.81	50.1791	0.612	1.219	ug/L
|	Pb	208	1096765.678	3.60	50.2872	0.421	0.837	ug/L
|	U	238	1865265.705	6.12	57.2605	0.534	0.932	ug/L
⌊>	Bi	209	304586.084	304586.08				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 20:34:53
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	18478915.442	152.84	5.3055	0.141	2.663	mg/L	
Mg	24	12658484.936	105.63	5.3191	0.091	1.704	mg/L	
K	39	24755038.653	203.90	5.2961	0.125	2.360	mg/L	
Ca	43	60827.398	0.50	5.3494	0.190	3.546	mg/L	
Fe	54	2238217.677	18.45	5.4559	0.162	2.972	mg/L	
Fe	57	973666.003	8.07	5.6540	0.048	0.842	mg/L	
> Sc-1	45	119847.307	119847.31				mg/L	
Cl	35	10960.671	1110.49				mg/L	
Kr	83	66.334	-5.67				mg/L	
Br	81	5557.549	-467.60				mg/L	
P	31	5789.682	56.68				mg/L	
S	34	122354.834	4435.61				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	97.677				
Cr	52	98.943				
Cr	53					
Mn	55	102.726				
Co	59	105.521				
Ni	60	105.941				
Cu	65	106.579				
Zn	66	104.082				
> Ge	72		88.848			
As	75	100.962				
Se	77					
Se	82	103.642				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.187				
Cd	114	100.138				
> In	115		89.458			
Sn	118					
Sb	123	101.057				
Ba	135	98.716				
Ce	140					
> Tb	159		91.677			
Ho	165					
Tl	203	98.617				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.574				
U	238	114.521				
> Bi	209		96.258			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 20:34:53
Page 2

Approved: March 30, 2011

Erin D. Long

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 20:34:53
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 20:39:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18016.229	0.03				ug/L
|	Be	9	15.333	0.00	0.0322	0.023	70.360	ug/L
|	Al	27	5584.895	0.00	-0.3741	0.084	22.500	ug/L
⌊>	Sc	45	126613.260	126613.26				ug/L
⌈	Ti	49	23.336	-0.00	-0.1431	0.034	23.480	ug/L
|	V	51	1977.291	-0.00	-0.0745	0.010	12.817	ug/L
|	Cr	52	6743.674	-0.01	-0.2954	0.032	10.994	ug/L
|	Cr	53	210.023	-0.00	-0.0102	0.082	805.883	ug/L
|	Mn	55	423.347	-0.00	-0.1248	0.002	1.664	ug/L
|	Co	59	67.001	-0.00	-0.0030	0.003	85.382	ug/L
|	Ni	60	58.001	-0.00	-0.0369	0.005	13.259	ug/L
|	Cu	65	143.336	-0.00	-0.0061	0.003	53.363	ug/L
|	Zn	66	401.012	-0.00	-2.9478	0.013	0.448	ug/L
|>	Ge	72	286661.907	286661.91				ug/L
|	As	75	-118.468	0.00	0.0212	0.025	119.305	ug/L
|	Se	77	69.334	0.00	-0.0557	0.136	243.929	ug/L
|	Se	82	0.377	-0.00	0.0931	0.107	115.112	ug/L
⌊	Rb	85	37.334	0.00				mg/L
	Y	89	195543.081	-20493.87				ug/L
	Rh	103	16.334	-8.33				ug/L
⌈	Mo	98	138.915	0.00	0.0422	0.004	8.678	ug/L
|	Ag	107	836.710	0.00	0.1483	0.005	3.301	ug/L
|	Cd	114	6.379	0.00	0.0007	0.006	803.771	ug/L
|>	In	115	273833.226	273833.23				ug/L
|	Sn	118	223.603	0.00	-0.0539	0.002	3.604	ug/L
⌊	Sb	123	57.406	0.00	0.0255	0.004	14.562	ug/L
⌈	Ba	135	35.000	-0.00	-0.0006	0.001	197.455	ug/L
|	Ce	140	30.003	-0.00				ug/L
⌊>	Tb	159	355785.382	355785.38				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	54.001	0.00	0.0156	0.002	9.737	ug/L
|	Tl	205	83.342	0.00	0.0058	0.001	22.189	ug/L
|	Pb	206	309.675	0.00	0.0123	0.001	11.797	ug/L
|	Pb	207	262.339	0.00	0.0109	0.004	33.444	ug/L
|	Pb	208	1172.371	0.00	0.0078	0.001	12.676	ug/L
|	U	238	127.669	0.00	0.0013	0.001	53.937	ug/L
⌊>	Bi	209	311526.417	311526.42				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 20:41:37
Page 1

Approved: March 30, 2011

⌈	Na	23	91946.637	-0.65	-0.0105	0.001	5.643	mg/L
|	Mg	24	823.451	0.00	-0.0044	0.000	1.485	mg/L
|	K	39	332414.351	-0.01	-0.0062	0.001	19.630	mg/L
|	Ca	43	256.696	-0.00	-0.0101	0.005	46.620	mg/L
|	Fe	54	30663.625	0.01	-0.0005	0.003	638.218	mg/L
|	Fe	57	5788.921	-0.00	-0.0062	0.001	8.753	mg/L
⌊>	Sc-1	45	126613.260	126613.26				mg/L
	Cl	35	10374.713	524.53				mg/L
	Kr	83	71.668	-0.33				mg/L
	Br	81	5607.572	-417.58				mg/L
	P	31	5244.708	-488.30				mg/L
	S	34	109554.188	-8365.03				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.037			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.996			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.775			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.452			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 20:41:37
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 20:41:37

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, March 29, 2011 20:46:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16547.101	0.02				ug/L
|	Be	9	14.667	0.00	0.0287	0.005	17.479	ug/L
|	Al	27	2700.377	-0.02	-1.0559	0.147	13.925	ug/L
⌊>	Sc	45	127458.054	127458.05				ug/L
⌈	Ti	49	30.003	-0.00	-0.1295	0.059	45.200	ug/L
|	V	51	4994.659	0.01	0.3169	0.032	10.125	ug/L
|	Cr	52	11928.229	0.01	0.4784	0.028	5.939	ug/L
|	Cr	53	826.784	0.00	0.7983	0.025	3.182	ug/L
|	Mn	55	5371.830	0.02	0.3770	0.011	2.908	ug/L
|	Co	59	3281.905	0.01	0.4172	0.004	1.032	ug/L
|	Ni	60	2804.755	0.01	1.6667	0.053	3.155	ug/L
|	Cu	65	1523.798	0.00	0.8340	0.018	2.102	ug/L
|	Zn	66	6847.746	0.02	3.5415	0.013	0.372	ug/L
|>	Ge	72	295782.768	295782.77				ug/L
|	As	75	270.924	0.00	0.4035	0.019	4.667	ug/L
|	Se	77	95.334	0.00	0.2435	0.284	116.679	ug/L
|	Se	82	39.175	0.00	0.4912	0.008	1.671	ug/L
⌊	Rb	85	30.334	-0.00				mg/L
	Y	89	205313.477	-10723.47				ug/L
	Rh	103	18.667	-6.00				ug/L
⌈	Mo	98	80.170	0.00	0.0199	0.001	3.275	ug/L
|	Ag	107	2678.385	0.01	0.4693	0.003	0.664	ug/L
|	Cd	114	240.847	0.00	0.1984	0.032	15.957	ug/L
|>	In	115	281381.803	281381.80				ug/L
|	Sn	118	139.601	0.00	-0.0754	0.001	1.548	ug/L
⌊	Sb	123	1517.949	0.01	0.4024	0.008	2.091	ug/L
⌈	Ba	135	1105.072	0.00	0.7113	0.016	2.225	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	362465.409	362465.41				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	573.356	0.00	0.0920	0.003	3.299	ug/L
|	Tl	205	1390.236	0.00	0.0843	0.003	4.141	ug/L
|	Pb	206	2424.652	0.01	0.3993	0.014	3.446	ug/L
|	Pb	207	2249.275	0.01	0.3977	0.006	1.384	ug/L
|	Pb	208	10092.116	0.03	0.3974	0.004	0.977	ug/L
|	U	238	14446.572	0.05	0.4209	0.003	0.730	ug/L
⌊>	Bi	209	319017.560	319017.56				ug/L

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 20:48:27
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	10169.519	-1.30	-0.0329	0.000	0.349	mg/L
|	Mg	24	366.711	0.00	-0.0046	0.000	1.173	mg/L
|	K	39	321773.317	-0.11	-0.0087	0.003	34.677	mg/L
|	Ca	43	190.021	-0.00	-0.0158	0.003	19.358	mg/L
|	Fe	54	29313.540	-0.00	-0.0040	0.005	135.399	mg/L
|	Fe	57	5919.010	-0.00	-0.0056	0.001	9.062	mg/L
⌊>	Sc-1	45	127458.054	127458.05				mg/L
	Cl	35	9874.874	24.69				mg/L
	Kr	83	56.667	-15.33				mg/L
	Br	81	5764.328	-260.83				mg/L
	P	31	5222.037	-510.97				mg/L
	S	34	103117.098	-14802.12				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	79.221				
|	Cr	52	59.800				
|	Cr	53					
|	Mn	55	75.406				
|	Co	59	104.303				
|	Ni	60	104.172				
|	Cu	65	104.254				
|	Zn	66	56.665				
|>	Ge	72		93.934			
|	As	75	100.877				
|	Se	77					
|	Se	82	122.795				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	117.315				
|	Cd	114	99.191				
|>	In	115		93.504			
|	Sn	118					
⌊	Sb	123	100.591				
⌈	Ba	135	94.836				
|	Ce	140					
⌊>	Tb	159		95.536			
⌈	Ho	165					
|	Tl	203	114.945				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.350				
|	U	238	105.224				
⌊>	Bi	209		100.819			
⌈	Na	23					

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 20:48:27
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	V	51	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Cr	52	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Mn	55	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Zn	66	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Se	82	LLCCV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 20:48:27
Page 3

Approved: March 30, 2011

2.2 General Chemistry Data

2.2.1 Percent Solids Data

2.2.1.1 Raw Data

LABORATORY REPORT

L11030925

03/29/11 13:52

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SWMU-57-32511-SS-FC-8'-NUM2	L11030925-01	D2216-90	1	28-MAR-11
SWMU-57-32511-SS-4'SW-1	L11030925-02	D2216-90	1	28-MAR-11
SWMU-57-32511-SS-7.5'SW2	L11030925-03	D2216-90	1	28-MAR-11
SWMU-57-32511-SS-7.5'SW-3	L11030925-04	D2216-90	1	28-MAR-11
SWMU-57-32611-FC-15'-NUM3	L11030925-05	D2216-90	1	28-MAR-11
SWMU-57-32611-FC-13'-NUM4	L11030925-06	D2216-90	1	28-MAR-11

Microbac Laboratories Inc.

Report Number: **L11030925**
Report Date : **March 29, 2011**

Sample Number:	L11030925-01	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	SWMU-57-32511-SS-FC-8'-NUI	Prep Method:	D2216-90	Prep Date:	03/29/2011 09:38
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG360128	Analyst:	JDH	Run Date:	03/29/2011 09:38
Collect Date:	03/25/2011 13:55	Dilution:	1	File ID:	B1.360128-0101
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	77.4		1.00	1.00

Report Number: **L11030925**
Report Date : **March 29, 2011**

Sample Number:	L11030925-02	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	SWMU-57-32511-SS-4'SW-1	Prep Method:	D2216-90	Prep Date:	03/29/2011 09:38
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG360128	Analyst:	JDH	Run Date:	03/29/2011 09:38
Collect Date:	03/25/2011 14:00	Dilution:	1	File ID:	B1.360128-0102
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	75.3		1.00	1.00

Report Number: **L11030925**
Report Date : **March 29, 2011**

Sample Number:	L11030925-03	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	SWMU-57-32511-SS-7.5'SW2	Prep Method:	D2216-90	Prep Date:	03/29/2011 09:38
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG360128	Analyst:	JDH	Run Date:	03/29/2011 09:38
Collect Date:	03/25/2011 14:45	Dilution:	1	File ID:	B1.360128-0103
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	78.4		1.00	1.00

Report Number: **L11030925**
Report Date : **March 29, 2011**

Sample Number:	L11030925-04	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	SWMU-57-32511-SS-7.5'SW-3	Prep Method:	D2216-90	Prep Date:	03/29/2011 09:38
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG360128	Analyst:	JDH	Run Date:	03/29/2011 09:38
Collect Date:	03/25/2011 16:25	Dilution:	1	File ID:	B1.360128-0104
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	79.3		1.00	1.00

Report Number: **L11030925**
Report Date : **March 29, 2011**

Sample Number:	L11030925-05	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	SWMU-57-32611-FC-15'-NUM3	Prep Method:	D2216-90	Prep Date:	03/29/2011 09:38
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG360128	Analyst:	JDH	Run Date:	03/29/2011 09:38
Collect Date:	03/26/2011 08:45	Dilution:	1	File ID:	B1.360128-0105
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	75.2		1.00	1.00

Report Number: **L11030925**
Report Date : **March 29, 2011**

Sample Number:	L11030925-06	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	SWMU-57-32611-FC-13'-NUM4	Prep Method:	D2216-90	Prep Date:	03/29/2011 09:38
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG360128	Analyst:	JDH	Run Date:	03/29/2011 09:38
Collect Date:	03/26/2011 09:20	Dilution:	1	File ID:	B1.360128-0106
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	77.8		1.00	1.00

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG360128 Analyst:JDH ADT(on):03/28/2011 15:42
Method:D2216-90 Instrument:BAL001 ADT(off):03/29/2011 09:38
SOP:K0003 Rev:11

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L11030790-03	1.33	38.51	33.3			85.99	
L11030790-05	1.34	30.46	22.17			71.53	
L11030790-07	1.33	31.48	27.16			85.67	
L11030790-09	1.33	25.37	20.87			81.28	
L11030790-11	1.31	26.74	18.06			65.87	
L11030790-13	1.32	17.06	12.59			71.60	
L11030790-15	1.31	33.37	23.56			69.40	
L11030790-18	1.33	30.49	26.62			86.73	
L11030851-01	1.33	34.67	28.92			82.75	
L11030851-02	1.33	22.42	17.34			75.91	
L11030851-03	1.32	35.23	26.31			73.70	
L11030851-04	1.34	22.52	17.37			75.68	
L11030919-01	1.33	17.73	15.35			85.49	
L11030919-02	1.32	18.39	17.04			92.09	
L11030919-03	1.33	13.78	12.65			90.92	
L11030919-04	1.31	19.2	17.76			91.95	
L11030919-05	1.34	19.09	17.29			89.86	
L11030919-06	1.34	30.32	27.08			88.82	
L11030919-07	1.33	33.68	28.37			83.59	
L11030919-08	1.33	33.05	29.09			87.52	
L11030919-09	1.32	30.38	27.87			91.36	
L11030919-10	1.31	37.85	34.09			89.71	
L11030919-11	1.33	30.9	25.85			82.92	
L11030919-12	1.33	35.44	32.05			90.06	
L11030919-13	1.33	35.7	25.85			71.34	
L11030919-14	1.31	33.57	30.56			90.67	
L11030919-15	1.31	31	28.69			92.22	
L11030919-16	1.32	27.41	23.55			85.21	
L11030919-17	1.32	31.03	28.41			91.18	
L11030919-18	1.34	32.02	29.02			90.22	
L11030919-19	1.34	31.51	28.78			90.95	
L11030919-20	1.33	30.05	27.09			89.69	
L11030919-21	1.32	33.72	29.43			86.76	
L11030919-22	1.35	28.65	26.11			90.70	
L11030919-23	1.31	32.31	28.5			87.71	
L11030919-24	1.33	32.44	30.06			92.35	
L11030919-25	1.32	32.43	29.21			89.65	
L11030919-26	1.33	30.86	28.31			91.36	
L11030919-27	1.35	23.93	18.72			76.93	
L11030919-28	1.34	35.95	33.05			91.62	
L11030919-29	1.34	27.23	25.24			92.31	
L11030919-30	1.32	30.31	27.72			91.07	

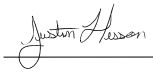
PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1955979
Report generated: 03/29/2011 09:43

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG360128 Analyst:JDH ADT(on):03/28/2011 15:42
Method:D2216-90 Instrument:BAL001 ADT(off):03/29/2011 09:38
SOP:K0003 Rev:11

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L11030925-01	1.3	26.08	20.47			77.36	
L11030925-02	1.34	21.69	16.66			75.28	
L11030925-03	1.32	20.69	16.5			78.37	
L11030925-04	1.32	21.71	17.48			79.25	
L11030925-05	1.33	20.71	15.9			75.18	
L11030925-06	1.34	24.04	19.01			77.84	
WG360128-01	1.33	30.49	26.62			86.73	13.27
WG360128-02	1.33	28.14	23.64			83.22	16.78
WG360128-03	1.33	30.05	27.09			89.69	10.31
WG360128-04	1.32	30.31	27.72			91.07	8.934
WG360128-05	1.31	25.71	23.42			90.61	9.385
WG360128-06	1.3	31.51	28.89			91.33	8.673

Analyst: 

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1955979
Report generated: 03/29/2011 09:43

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
April 11, 2011

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
ALV – AMY L. VALENTINE	AML – TONY M. LONG	AZH – AFTER HOURS
BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CSH – CHRIS S. HILL	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
ECL – ERIC C. LAWSON	EDL – ERIN D. LONG	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR	HJR – HOLLY J. REED
JAL – JOHN A. LENT	JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON
JKT – JANE K. THOMPSON	JLL – JOHN L. LENT	JWR – JOHN W. RICHARDS
JWS – JACK W. SHEAVES	JYH – JI Y. HU	KEB – KATIE E. BARNES
KHR – KIM H. RHODES	KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF
LSB – LESLIE S. BUCINA	MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN
MES – MARY E. SCHILLING	MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR
MSW – MATT S. WILSON	PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT
RAH – ROY A. HALSTEAD	RB – BOB BUCHANAN	REK – BOB E. KYER
RLK – ROBIN L. KLINGER	RWC – RODNEY W. CAMPBELL	SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF	TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS	VC – VICKI COLLIER	WJB – WILL J. BEASLEY
WTD – WADE T. DELONG		

Microbac Laboratories Inc.
List of Valid Qualifiers
April 11, 2011

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the low standard (LOQ)
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

Qualkey: DOD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 2164

156 Starlite Drive
Marietta, OH 45750

KEMRON
ENVIRONMENTAL SERVICES

CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4308
Fax: 740-376-2536

Company Name: UXB - KEMRON

Project Contact: MARY LOU ROCHETTE | Contact Phone #: 740-373-4308

Turn Around Requirements: 1-DAY ~~PA0669-401-001/4~~ | Location: RFAAP - SWMU-57

Project ID: MA0669-401-001

Sampler (print): JOHN ANDERSON | Signature:

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	* METALS - SEE LIST
SWMU-57-32511		X	3-25-11	1355	SOIL	1		1
SS-FC-8'-NUM2								
SWMU-57-32511		X	3-25-11	1400	SOIL	1		1
SS-4'SW-1								
SWMU-57-32511		X	3-25-11	1445	SOIL	1		1
SS-7.5'SW-2								
SWMU-57-32511		X	3-25-11	1625	SOIL	1		1
SS-7'SW-3								
SWMU-57-32611		X	3-26-11	0845	SOIL	1		1
FC-15'-NUM3								
SWMU-57-32611		X	3-26-11	0920	SOIL	1		1
FC-13'-NUM4								

TOTAL # (LAB USE)

Program
☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

ADDITIONAL REQUIREMENTS

* PER RFAAP QAPP
- ALUMINUM
- ANTIMONY
- MANGANESE
- CADMIUM
- CHROMIUM
- IRON

4 TEMP
1 BLANK

Microbac OVD 221000013532
Received: 03/28/2011 10:27
By: BRENDA GREENWALT
Brenda Greenwalt

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3-26-11	1135			
Relinquished by: (Signature)	Date	Time	Remarks:		

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page _____ of _____

Page 1504

COOLER INSPECTION

Received: 04/08/2011 09:58
Delivery Method: FedEx
Opened By: Brenda Greenwalt
Comments:

Login(s): L11040312|

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
0015465	G	1.0	345750985100000379462495606020 11		

1	Yes	Were shipping coolers sealed?
2	Yes	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	Yes	Were COC's received/information complete/signed and dated?
6	Yes	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were samples received within EPA hold times?
9	Yes	Were correct perservatives used? (water only)
10	Yes	Were pH ranges acceptable? (voa's excluded)
11	NA	Were VOA samples free of headspace (less than 6mm)?

Discrepancies:

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11030925
Account: 2820
Project: 2820.216
Samples: 6
Due Date: 29-MAR-2011

Samplenum	Container ID	Products
L11030925-01	813599	MN PCT-S SB-AX AL CD-MS CR-MS FE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	28-MAR-2011 11:42	RLK	
2	PREP	W1	DIG	28-MAR-2011 11:45	REK	RLK
3	ANALYZ*	DIG	METALS	28-MAR-2011 13:49	EDL	REK
4	ANALYZ	WET	W1	29-MAR-2011 08:21	RLK	JDH
5	STORE	W1	A2	08-APR-2011 08:11	BLG	BLG

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11030925-02	813600	MN PCT-S SB-AX AL CD-MS CR-MS FE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	28-MAR-2011 11:42	RLK	
2	PREP	W1	DIG	28-MAR-2011 11:45	REK	RLK
3	ANALYZ*	DIG	METALS	28-MAR-2011 13:49	EDL	REK
4	ANALYZ	WET	W1	29-MAR-2011 08:21	RLK	JDH
5	STORE	W1	A2	08-APR-2011 08:11	BLG	BLG

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11030925-03	813601	MN PCT-S SB-AX AL CD-MS CR-MS FE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	28-MAR-2011 11:42	RLK	
2	PREP	W1	DIG	28-MAR-2011 11:45	REK	RLK
3	ANALYZ*	DIG	METALS	28-MAR-2011 13:49	EDL	REK
4	ANALYZ	WET	W1	29-MAR-2011 08:21	RLK	JDH
5	STORE	W1	A2	08-APR-2011 08:11	BLG	BLG

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11030925
Account: 2820
Project: 2820.216
Samples: 6
Due Date: 29-MAR-2011

Samplenum	Container ID	Products
L11030925-04	813602	MN PCT-S SB-AX AL CD-MS CR-MS FE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	28-MAR-2011 11:42	RLK	
2	PREP	W1	DIG	28-MAR-2011 11:45	REK	RLK
3	ANALYZ*	DIG	METALS	28-MAR-2011 13:49	EDL	REK
4	ANALYZ	WET	W1	29-MAR-2011 08:21	RLK	JDH
5	STORE	W1	A2	08-APR-2011 08:11	BLG	BLG

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11030925-05	813603	MN PCT-S SB-AX AL CD-MS CR-MS FE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	28-MAR-2011 11:42	RLK	
2	PREP	W1	DIG	28-MAR-2011 11:45	REK	RLK
3	ANALYZ*	DIG	METALS	28-MAR-2011 13:49	EDL	REK
4	ANALYZ	WET	W1	29-MAR-2011 08:21	RLK	JDH
5	STORE	W1	A2	08-APR-2011 08:11	BLG	BLG

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11030925-06	813604	MN PCT-S SB-AX AL CD-MS CR-MS FE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	28-MAR-2011 11:42	RLK	
2	PREP	W1	DIG	28-MAR-2011 11:44	REK	RLK
3	ANALYZ*	DIG	METALS	28-MAR-2011 13:49	EDL	REK
4	ANALYZ	WET	W1	29-MAR-2011 08:21	RLK	JDH
5	STORE	W1	A2	08-APR-2011 08:11	BLG	BLG

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L11030926

Client: Mary Lou Rochette, 156 Starlite Drive, Marietta, OH, 45750

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	*Team Chemist/Data Specialist*	Kathy.Albertson@microbac.com
Stephanie Mossburg	*Team Chemist/Data Specialist*	Stephanie.Mossburg@microbac.com
Tony Long	*Team Chemist/Data Specialist*	Tony.Long@microbac.com
Amanda Fickiesen	*Client Services Specialist*	Amanda.Fickiesen@microbac.com
Annie Brown	*Client Services Specialist*	Annie.Brown@microbac.com

This report was reviewed on April 06, 2011.

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in this report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on April 06, 2011.

David Vandenberg - Managing Director

State of origin: Virginia
Accrediting authority: N/A ID:N/A
QAPP: DOD Ver 4.1
This report contains a total of 1524 pages.

Look closer. Go further. Do more.

Microbac REPORT L11030926
PREPARED FOR Kemron Environmental Services
WORK ID:

1.0 Introduction 3
2.0 Full Sample Data Package 12
2.1 Metals Data 13
2.1.1 Metals I C P Data 14
2.1.1.1 Summary Data 15
2.1.1.2 QC Summary Data 30
2.1.1.3 Raw Data 96
2.1.2 Metals ICP-MS Data 927
2.1.2.1 Summary Data 928
2.1.2.2 QC Summary Data 938
2.1.2.3 Raw Data 984
2.2 General Chemistry Data 1505
2.2.1 Percent Solids Data 1506
2.2.1.1 Raw Data 1507
3.0 Attachments 1517

1.0 Introduction

LABORATORY REPORT

L11030926

04/06/11 14:15

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Marv Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Summary

Client ID	Lab ID	Date Collected	Date Received
SWMU-57-32511-SS-FC-2'-NUM1	L11030926-01	03/25/2011 08:15	03/28/2011
SWMU-57-32511-SS-DUP	L11030926-02	03/25/2011 08:15	03/28/2011
SWMU-57-32511-SS-MS	L11030926-03	03/25/2011 08:15	03/28/2011
SWMU-57-32511-SS-MSD	L11030926-04	03/25/2011 08:15	03/28/2011
SWMU-57-32511-SS-FC-B3-2.5'	L11030926-05	03/25/2011 11:00	03/28/2011
SWMU-57-32611-SS-2.5' SW-4	L11030926-06	03/26/2011 08:15	03/28/2011

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number: **L11030926-01** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32511-SS-FC-2'-NU** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/28/2011 12:50**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/28/2011 15:25**
Collect Date: **03/25/2011 08:15** | Dilution: **1** | File ID: **T2.032811.152545**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	26500		20.3	10.1
Antimony, Total	7440-36-0	4.44		1.01	0.507
Iron, Total	7439-89-6	40900		3.04	1.52
Manganese, Total	7439-96-5	138		0.507	0.253

Sample Number: **L11030926-01** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-32511-SS-FC-2'-NU** | Prep Method: **3051A** | Prep Date: **03/28/2011 12:10**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **03/28/2011 11:38**
Workgroup Number: **WG360123** | Analyst: **EDL** | Run Date: **03/28/2011 17:04**
Collect Date: **03/25/2011 08:15** | Dilution: **5** | File ID: **EL.032811.170431**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	0.563	J	0.657	0.329
Chromium, Total	7440-47-3	15.6		2.63	1.31

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Sample Number: **L11030926-01** | PrePrep Method: **NONE** | Instrument: **BAL001**
Client ID: **SWMU-57-32511-SS-FC-2'-NU** | Prep Method: **D2216-90** | Prep Date: **03/30/2011 08:30**
Matrix: **Soil** | Analytical Method: **D2216-90** | Cal Date:
Workgroup Number: **WG360278** | Analyst: **JDH** | Run Date: **03/30/2011 08:30**
Collect Date: **03/25/2011 08:15** | Dilution: **1** | File ID: **B1.360278-0126**
Sample Tag: **01** | Units: **weight %**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	75.2		1.00	1.00

Sample Number: **L11030926-02** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32511-SS-DUP** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/28/2011 12:50**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/28/2011 15:36**
Collect Date: **03/25/2011 08:15** | Dilution: **1** | File ID: **T2.032811.153635**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **75.1**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	3.38		0.974	0.487
Manganese, Total	7439-96-5	124		0.487	0.243

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number: **L11030926-02** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32511-SS-DUP** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/28/2011 12:50**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/28/2011 15:54**
Collect Date: **03/25/2011 08:15** | Dilution: **5** | File ID: **T2.032811.155442**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **75.1**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	31200		97.4	48.7
Iron, Total	7439-89-6	45900		14.6	7.30

Sample Number: **L11030926-02** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-32511-SS-DUP** | Prep Method: **3051A** | Prep Date: **03/28/2011 12:11**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **03/28/2011 11:38**
Workgroup Number: **WG360123** | Analyst: **EDL** | Run Date: **03/28/2011 17:11**
Collect Date: **03/25/2011 08:15** | Dilution: **5** | File ID: **EL.032811.171119**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **75.1**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	0.603	J	0.642	0.321
Chromium, Total	7440-47-3	27.0		2.57	1.28

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Sample Number: **L11030926-02** | PrePrep Method: **NONE** | Instrument: **BAL001**
Client ID: **SWMU-57-32511-SS-DUP** | Prep Method: **D2216-90** | Prep Date: **03/30/2011 08:30**
Matrix: **Soil** | Analytical Method: **D2216-90** | Cal Date:
Workgroup Number: **WG360278** | Analyst: **JDH** | Run Date: **03/30/2011 08:30**
Collect Date: **03/25/2011 08:15** | Dilution: **1** | File ID: **B1.360278-0127**
Sample Tag: **01** | Units: **weight %**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	75.1		1.00	1.00

Sample Number: **L11030926-03** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32511-SS-MS** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/28/2011 12:50**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/28/2011 15:29**
Collect Date: **03/25/2011 08:15** | Dilution: **1** | File ID: **T2.032811.152922**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	31000		20.3	10.1
Antimony, Total	7440-36-0	28.8		1.01	0.507
Iron, Total	7439-89-6	40300		3.04	1.52
Manganese, Total	7439-96-5	134		0.507	0.253

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number: **L11030926-03** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-32511-SS-MS** | Prep Method: **3051A** | Prep Date: **03/28/2011 12:05**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **03/28/2011 11:38**
Workgroup Number: **WG360123** | Analyst: **EDL** | Run Date: **03/28/2011 17:18**
Collect Date: **03/25/2011 08:15** | Dilution: **5** | File ID: **EL.032811.171807**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	15.8		0.657	0.329
Chromium, Total	7440-47-3	37.1		2.63	1.31

Sample Number: **L11030926-03** | PrePrep Method: **NONE** | Instrument: **BAL001**
Client ID: **SWMU-57-32511-SS-MS** | Prep Method: **D2216-90** | Prep Date: **03/30/2011 08:30**
Matrix: **Soil** | Analytical Method: **D2216-90** | Cal Date:
Workgroup Number: **WG360278** | Analyst: **JDH** | Run Date: **03/30/2011 08:30**
Collect Date: **03/25/2011 08:15** | Dilution: **1** | File ID: **B1.360278-0128**
Sample Tag: **01** | Units: **weight %**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	75.2		1.00	1.00

Sample Number: **L11030926-04** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32511-SS-MSD** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/28/2011 12:50**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/28/2011 15:32**
Collect Date: **03/25/2011 08:15** | Dilution: **1** | File ID: **T2.032811.153258**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	28900		20.3	10.1
Antimony, Total	7440-36-0	29.0		1.01	0.507
Iron, Total	7439-89-6	39200		3.04	1.52
Manganese, Total	7439-96-5	130		0.507	0.253

Sample Number: **L11030926-04** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-32511-SS-MSD** | Prep Method: **3051A** | Prep Date: **03/28/2011 12:05**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **03/28/2011 11:38**
Workgroup Number: **WG360123** | Analyst: **EDL** | Run Date: **03/28/2011 17:24**
Collect Date: **03/25/2011 08:15** | Dilution: **5** | File ID: **EL.032811.172455**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	15.0		0.657	0.329
Chromium, Total	7440-47-3	35.6		2.63	1.31

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number: **L11030926-04** | PrePrep Method: **NONE** | Instrument: **BAL001**
Client ID: **SWMU-57-32511-SS-MSD** | Prep Method: **D2216-90** | Prep Date: **03/30/2011 08:30**
Matrix: **Soil** | Analytical Method: **D2216-90** | Cal Date:
Workgroup Number: **WG360278** | Analyst: **JDH** | Run Date: **03/30/2011 08:30**
Collect Date: **03/25/2011 08:15** | Dilution: **1** | File ID: **B1.360278-0129**
Sample Tag: **01** | Units: **weight %**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	75.2		1.00	1.00

Sample Number: **L11030926-05** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32511-SS-FC-B3-2.!** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/29/2011 11:14**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/29/2011 14:10**
Collect Date: **03/25/2011 11:00** | Dilution: **1** | File ID: **T2.032911.141049**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **74.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	3.44		1.01	0.503

Sample Number: **L11030926-05** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32511-SS-FC-B3-2.!** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/29/2011 11:14**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/29/2011 14:18**
Collect Date: **03/25/2011 11:00** | Dilution: **100** | File ID: **T2.032911.141805**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **74.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	24900		2010	1010
Manganese, Total	7439-96-5	264		50.3	25.1

Sample Number: **L11030926-05** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32511-SS-FC-B3-2.!** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/29/2011 11:14**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/29/2011 15:16**
Collect Date: **03/25/2011 11:00** | Dilution: **200** | File ID: **T2.032911.151610**
Sample Tag: **DL02** | Units: **mg/kg** | Percent Solid: **74.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Iron, Total	7439-89-6	44100		604	302

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number: **L11030926-05** | PrePrep Method: **NONE** | Instrument: **ELAN-ICP**
Client ID: **SWMU-57-32511-SS-FC-B3-2.!** | Prep Method: **3051A** | Prep Date: **03/28/2011 12:14**
Matrix: **Soil** | Analytical Method: **6020** | Cal Date: **03/28/2011 11:38**
Workgroup Number: **WG360123** | Analyst: **EDL** | Run Date: **03/28/2011 17:31**
Collect Date: **03/25/2011 11:00** | Dilution: **5** | File ID: **EL.032811.173144**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **74.0**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	0.460	J	0.645	0.323
Chromium, Total	7440-47-3	30.7		2.58	1.29

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Sample Number: **L11030926-05** | PrePrep Method: **NONE** | Instrument: **BAL001**
Client ID: **SWMU-57-32511-SS-FC-B3-2.!** | Prep Method: **D2216-90** | Prep Date: **03/30/2011 08:30**
Matrix: **Soil** | Analytical Method: **D2216-90** | Cal Date:
Workgroup Number: **WG360278** | Analyst: **JDH** | Run Date: **03/30/2011 08:30**
Collect Date: **03/25/2011 11:00** | Dilution: **1** | File ID: **B1.360278-0130**
Sample Tag: **01** | Units: **weight %**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	74.0		1.00	1.00

Sample Number: **L11030926-06** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32611-SS-2.5' SW-4** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/29/2011 11:14**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/29/2011 14:21**
Collect Date: **03/26/2011 08:15** | Dilution: **100** | File ID: **T2.032911.142143**
Sample Tag: **DL01** | Units: **mg/kg** | Percent Solid: **77.4**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	30300		1800	901
Manganese, Total	7439-96-5	182		45.1	22.5

Sample Number: **L11030926-06** | PrePrep Method: **NONE** | Instrument: **ICP-THERMO2**
Client ID: **SWMU-57-32611-SS-2.5' SW-4** | Prep Method: **3051A** | Prep Date: **03/28/2011 11:56**
Matrix: **Soil** | Analytical Method: **6010B** | Cal Date: **03/29/2011 11:14**
Workgroup Number: **WG360132** | Analyst: **JYH** | Run Date: **03/29/2011 14:14**
Collect Date: **03/26/2011 08:15** | Dilution: **1** | File ID: **T2.032911.141428**
Sample Tag: **01** | Units: **mg/kg** | Percent Solid: **77.4**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	0.901	0.451

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number: **L11030926-06**
Client ID: **SWMU-57-32611-SS-2.5' SW-**
Matrix: **Soil**
Workgroup Number: **WG360132**
Collect Date: **03/26/2011 08:15**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6010B**
Analyst: **JYH**
Dilution: **200**
Units: **mg/kg**

Instrument: **ICP-THERMO2**
Prep Date: **03/28/2011 11:56**
Cal Date: **03/29/2011 11:14**
Run Date: **03/29/2011 15:19**
File ID: **T2.032911.151949**
Percent Solid: **77.4**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Iron, Total	7439-89-6	40600		541	270

Sample Number: **L11030926-06**
Client ID: **SWMU-57-32611-SS-2.5' SW-**
Matrix: **Soil**
Workgroup Number: **WG360123**
Collect Date: **03/26/2011 08:15**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3051A**
Analytical Method: **6020**
Analyst: **EDL**
Dilution: **5**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **03/28/2011 12:15**
Cal Date: **03/28/2011 11:38**
Run Date: **03/28/2011 17:38**
File ID: **EL.032811.173831**
Percent Solid: **77.4**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.632	0.316
Chromium, Total	7440-47-3	17.6		2.53	1.26

U Analyte was not detected. The concentration is below the reported LOD.

Sample Number: **L11030926-06**
Client ID: **SWMU-57-32611-SS-2.5' SW-**
Matrix: **Soil**
Workgroup Number: **WG360278**
Collect Date: **03/26/2011 08:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **03/30/2011 08:30**
Cal Date:
Run Date: **03/30/2011 08:30**
File ID: **B1.360278-0131**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	77.4		1.00	1.00

Login Number: L11030926

Department: Login

Chain of Custody:

Shipment Conditions

COC #	Cooler #	Temperature
2163	0013037	1.0

Sample Management: All samples were received intact.

Sample Identification

Lab ID	Client ID
L11030926-01	SWMU-57-32511-SS-FC-2'-NUM1
L11030926-02	SWMU-57-32511-SS-DUP
L11030926-03	SWMU-57-32511-SS-MS
L11030926-04	SWMU-57-32511-SS-MSD
L11030926-05	SWMU-57-32511-SS-FC-B3-2.5'
L11030926-06	SWMU-57-32611-SS-2.5' SW-4

Narrative ID: 24344
Approved By: Stephanie Mossburg
Stephanie Mossburg

2.0 Full Sample Data Package

2.1 Metals Data

2.1.1 Metals I C P Data

2.1.1.1 Summary Data

Login Number: L11030926

Department: Metals

Analyst: Ji Hu

METHOD

Preparation: SW-846 3051

Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: WG360132 - Due to continuing calibration verification failure for all analytes on 28-Mar-2011 at 17:10, client samples 05 and 06 were reanalyzed on a later calibration which was compliant for all analytes.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG360132 - Aluminum and iron for client sample 02 were reported from a five-fold dilution where the 25-fold serial dilution was compliant.

Matrix Spikes: WG360132 - Sample 01 was chosen by the client for MS/MSD analysis. Samples 03(MS) and 04(MSD) yielded noncompliant recoveries for three analytes.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 24456
Approved By: Sheri Pfalzgraf

LABORATORY REPORT

L11030926

04/06/11 14:15

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SWMU-57-32511-SS-FC-2'-NUM1	L11030926-01	6010B	1	28-MAR-11
SWMU-57-32511-SS-DUP	L11030926-02	6010B	1	28-MAR-11
SWMU-57-32511-SS-DUP	L11030926-02	6010B	5	28-MAR-11
SWMU-57-32511-SS-MS	L11030926-03	6010B	1	28-MAR-11
SWMU-57-32511-SS-MSD	L11030926-04	6010B	1	28-MAR-11
SWMU-57-32511-SS-FC-B3-2.5'	L11030926-05	6010B	1	28-MAR-11
SWMU-57-32511-SS-FC-B3-2.5'	L11030926-05	6010B	100	28-MAR-11
SWMU-57-32511-SS-FC-B3-2.5'	L11030926-05	6010B	200	28-MAR-11
SWMU-57-32611-SS-2.5' SW-4	L11030926-06	6010B	100	28-MAR-11
SWMU-57-32611-SS-2.5' SW-4	L11030926-06	6010B	1	28-MAR-11
SWMU-57-32611-SS-2.5' SW-4	L11030926-06	6010B	200	28-MAR-11

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	L11030926-01	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32511-SS-FC-2'-NUI	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/28/2011 12:50
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/28/2011 15:25
Collect Date:	03/25/2011 08:15	Dilution:	1	File ID:	T2.032811.152545
Sample Tag:	01	Units:	mg/kg	Percent Solid:	75.2

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	26500		20.3	10.1
Antimony, Total	7440-36-0	4.44		1.01	0.507
Iron, Total	7439-89-6	40900		3.04	1.52
Manganese, Total	7439-96-5	138		0.507	0.253

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	**L11030926-02**	PrePrep Method:	**NONE**	Instrument:	**ICP-THERMO2**
Client ID:	**SWMU-57-32511-SS-DUP**	Prep Method:	**3051A**	Prep Date:	**03/28/2011 11:56**
Matrix:	**Soil**	Analytical Method:	**6010B**	Cal Date:	**03/28/2011 12:50**
Workgroup Number:	**WG360132**	Analyst:	**JYH**	Run Date:	**03/28/2011 15:36**
Collect Date:	**03/25/2011 08:15**	Dilution:	**1**	File ID:	**T2.032811.153635**
Sample Tag:	**01**	Units:	**mg/kg**	Percent Solid:	**75.1**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	**7440-36-0**	**3.38**		**0.974**	**0.487**
Manganese, Total	**7439-96-5**	**124**		**0.487**	**0.243**

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	L11030926-02	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32511-SS-DUP	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/28/2011 12:50
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/28/2011 15:54
Collect Date:	03/25/2011 08:15	Dilution:	5	File ID:	T2.032811.155442
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	75.1

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	31200		97.4	48.7
Iron, Total	7439-89-6	45900		14.6	7.30

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	L11030926-03	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32511-SS-MS	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/28/2011 12:50
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/28/2011 15:29
Collect Date:	03/25/2011 08:15	Dilution:	1	File ID:	T2.032811.152922
Sample Tag:	01	Units:	mg/kg	Percent Solid:	75.2

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	31000		20.3	10.1
Antimony, Total	7440-36-0	28.8		1.01	0.507
Iron, Total	7439-89-6	40300		3.04	1.52
Manganese, Total	7439-96-5	134		0.507	0.253

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	L11030926-04	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32511-SS-MSD	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/28/2011 12:50
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/28/2011 15:32
Collect Date:	03/25/2011 08:15	Dilution:	1	File ID:	T2.032811.153258
Sample Tag:	01	Units:	mg/kg	Percent Solid:	75.2

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	28900		20.3	10.1
Antimony, Total	7440-36-0	29.0		1.01	0.507
Iron, Total	7439-89-6	39200		3.04	1.52
Manganese, Total	7439-96-5	130		0.507	0.253

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	L11030926-05	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32511-SS-FC-B3-2.5	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/29/2011 11:14
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/29/2011 14:10
Collect Date:	03/25/2011 11:00	Dilution:	1	File ID:	T2.032911.141049
Sample Tag:	01	Units:	mg/kg	Percent Solid:	74.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0	3.44		1.01	0.503

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	L11030926-05	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32511-SS-FC-B3-2.5	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/29/2011 11:14
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/29/2011 14:18
Collect Date:	03/25/2011 11:00	Dilution:	100	File ID:	T2.032911.141805
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	74.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	24900		2010	1010
Manganese, Total	7439-96-5	264		50.3	25.1

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	L11030926-05	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32511-SS-FC-B3-2.5	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/29/2011 11:14
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/29/2011 15:16
Collect Date:	03/25/2011 11:00	Dilution:	200	File ID:	T2.032911.151610
Sample Tag:	DL02	Units:	mg/kg	Percent Solid:	74.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Iron, Total	7439-89-6	44100		604	302

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	L11030926-06	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32611-SS-2.5' SW-4	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/29/2011 11:14
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/29/2011 14:21
Collect Date:	03/26/2011 08:15	Dilution:	100	File ID:	T2.032911.142143
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	77.4

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Aluminum, Total	7429-90-5	30300		1800	901
Manganese, Total	7439-96-5	182		45.1	22.5

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	L11030926-06	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32611-SS-2.5' SW-4	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/29/2011 11:14
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/29/2011 14:14
Collect Date:	03/26/2011 08:15	Dilution:	1	File ID:	T2.032911.141428
Sample Tag:	01	Units:	mg/kg	Percent Solid:	77.4

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Antimony, Total	7440-36-0		U	0.901	0.451

U Analyte was not detected. The concentration is below the reported LOD.

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	L11030926-06	PrePrep Method:	NONE	Instrument:	ICP-THERMO2
Client ID:	SWMU-57-32611-SS-2.5' SW-4	Prep Method:	3051A	Prep Date:	03/28/2011 11:56
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	03/29/2011 11:14
Workgroup Number:	WG360132	Analyst:	JYH	Run Date:	03/29/2011 15:19
Collect Date:	03/26/2011 08:15	Dilution:	200	File ID:	T2.032911.151949
Sample Tag:	DL02	Units:	mg/kg	Percent Solid:	77.4

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Iron, Total	7439-89-6	40600		541	270

2.1.1.2 QC Summary Data

Example 6010 Calculations
Thermo Scientific iCAP 6500

1.0 Initial Calibration (ICAL) Parameters
For a multi-point calibration, the system performs linear regression from data consisting of a blank and four standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system in ug/mL (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial volume (mL)	50
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/mL (mg/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (mg/L) (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial weight (g)	1
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/g (mg/kg)	5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	5
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (mg/kg)	6.25

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG360099
Analyst: REK
Spike Analyst: ERP
Run Date: 03/28/2011 11:56
Method: 3051A
Balance: BAL014
Instrument: MW-1

SOP: ME406 Revison 12
Spike Solution: STD39933
Spike Witness: VC
HNO3 Lot #: COA15168
HCL Lot #: COA15185
Digestion Tubes Lot #: COA15251

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG360099-02	BLANK	10	1 g	50 mL	175.99 g	175.977 g		
2	WG360099-03	LCS	10	1 g	50 mL	182.308 g	182.298 g	5 mL	
3	L11030823-27	SAMP	7	1.355 g	50 mL	177.301 g	177.286 g		03/31/11
4	L11030823-28	SAMP	7	1.438 g	50 mL	176.481 g	176.327 g		03/31/11
5	L11030823-29	SAMP	7	1.368 g	50 mL	180.067 g	179.877 g		03/31/11
6	L11030823-30	SAMP	7	1.361 g	50 mL	177.392 g	177.14 g		03/31/11
7	L11030823-31	SAMP	7	1.404 g	50 mL	180.323 g	180.181 g		03/31/11
8	L11030823-32	SAMP	7	1.361 g	50 mL	177.454 g	177.368 g		03/31/11
9	L11030823-33	SAMP	7	1.32 g	50 mL	180.471 g	180.4 g		03/31/11
10	L11030823-34	SAMP	7	1.303 g	50 mL	176.041 g	175.97 g		03/31/11
11	L11030823-35	SAMP	7	1.368 g	50 mL	177.792 g	177.724 g		03/31/11
12	L11030921-01	SAMP	10	1.004 g	50 mL	176.16 g	175.925 g		03/31/11
13	L11030925-01	SAMP	7	1.352 g	50 mL	178.776 g	178.746 g		03/29/11
14	L11030925-02	SAMP	7	1.313 g	50 mL	178.049 g	178.008 g		03/29/11
15	L11030925-03	SAMP	7	1.336 g	50 mL	176.977 g	176.958 g		03/29/11
16	L11030925-04	SAMP	7	1.469 g	50 mL	178.86 g	178.839 g		03/29/11
17	L11030925-05	SAMP	7	1.368 g	50 mL	179.657 g	179.638 g		03/29/11
18	L11030925-06	SAMP	7	1.458 g	50 mL	176.865 g	176.831 g		03/29/11
19	WG360099-01	REF	7	1.312 g	50 mL	177.525 g	177.475 g		
20	L11030926-01	RS01	7	1.312 g	50 mL	177.525 g	177.475 g		03/31/11
21	L11030926-02	SAMP	7	1.367 g	50 mL	179.724 g	179.703 g		03/31/11
22	WG360099-04	MS	7	1.312 g	50 mL	184.199 g	184.197 g	5 mL	
23	L11030926-03	MS01	7	1.312 g	50 mL	184.199 g	184.197 g	5 mL	03/31/11
24	WG360099-05	MSD	7	1.312 g	50 mL	183.65 g	183.64 g	5 mL	
25	L11030926-04	SD01	7	1.312 g	50 mL	183.65 g	183.64 g	5 mL	03/31/11
26	L11030926-05	SAMP	7	1.344 g	50 mL	178.802 g	178.792 g		03/31/11
27	L11030926-06	SAMP	7	1.434 g	50 mL	176.786 g	176.775 g		03/31/11

Analyst:

Reviewer: Brenda Gregory

MW_DIG - Modified 09/30/2009
PDF ID: 1955216
Report generated: 03/28/2011 12:46

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032811T2.1
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36866

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD4444368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 359705,360037,360132,360097,360131

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	T2.032811.123610	WG360412-01	Calibration Point		1		03/28/11 12:36
2	T2.032811.123951	WG360412-02	Calibration Point		1		03/28/11 12:39
3	T2.032811.124332	WG360412-03	Calibration Point		1		03/28/11 12:43
4	T2.032811.124711	WG360412-04	Calibration Point		1		03/28/11 12:47
5	T2.032811.125038	WG360412-05	Calibration Point		1		03/28/11 12:50
6	T2.032811.125407	WG360412-06	Initial Calibration Verification		1		03/28/11 12:54
7	T2.032811.125733	WG360412-07	Initial Calib Blank		1		03/28/11 12:57
8	T2.032811.130115	WG360412-08	Low Level Initial Calibration V		1		03/28/11 13:01
9	T2.032811.130458	WG360412-09	Interference Check		1		03/28/11 13:04
10	T2.032811.130839	WG360412-10	Interference Check		1		03/28/11 13:08
11	T2.032811.131217	WG360412-11	CCV		1		03/28/11 13:12
12	T2.032811.131543	WG360412-12	CCB		1		03/28/11 13:15
13	T2.032811.131929	WG359605-02	Method/Prep Blank	1/50	1		03/28/11 13:19
14	T2.032811.132310	WG359605-03	Laboratory Control S	1/50	1		03/28/11 13:23
15	T2.032811.132636	L11030612-21	S-5-2.5-NS		1	WG359605-01	03/28/11 13:26
16	T2.032811.133011	L11030612-22	S-5-2.5-NS-MS	1.35/50	1	WG359605-04	03/28/11 13:30
17	T2.032811.133349	L11030612-23	S-5-2.5-NS-MSD	1.35/50	1	WG359605-05	03/28/11 13:33
18	T2.032811.133724	L11030721-01	LMF-20110201	1.061/50	50		03/28/11 13:37
19	T2.032811.134055	L11030721-02	LMF-20110225	1.072/50	50		03/28/11 13:40
20	T2.032811.134428	WG359705-05	Post Digestion Spike		50	L11030721-02	03/28/11 13:44
21	T2.032811.134753	WG359705-06	Serial Dilution		250	L11030721-02	03/28/11 13:47
22	T2.032811.135129	WG359705-06	Serial Dilution		1250	L11030721-02	03/28/11 13:51
23	T2.032811.135513	WG360412-13	CCV		1		03/28/11 13:55
24	T2.032811.135839	WG360412-14	CCB		1		03/28/11 13:58
25	T2.032811.140222	WG360412-15	Low Level Continuing Calibra		1		03/28/11 14:02
26	T2.032811.140603	L11030460-28	11506-C0016	1.012/50	5		03/28/11 14:06
27	T2.032811.140941	L11030460-29	11507-C0001		5	WG359714-01	03/28/11 14:09
28	T2.032811.141316	L11030460-30	11507-C0001-MS	1.008/50	5	WG359714-04	03/28/11 14:13
29	T2.032811.141647	L11030460-31	11507-C0001-MSD	1.008/50	5	WG359714-05	03/28/11 14:16
30	T2.032811.142025	L11030460-41	11507-C0011	1.012/50	5		03/28/11 14:20
31	T2.032811.142403	L11030460-42	11507-C0012	1.022/50	5		03/28/11 14:24
32	T2.032811.142741	L11030460-43	11507-C0013	1.007/50	5		03/28/11 14:27
33	T2.032811.143119	L11030460-44	11507-C0014	1.006/50	5		03/28/11 14:31
34	T2.032811.143457	L11030460-45	11507-C0015	1.003/50	5		03/28/11 14:34

Page: 1 Approved: March 29, 2011

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032811T2.1
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36866

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD4444368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 359705,360037,360132,360097,360131

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	T2.032811.143835	L11030460-46	11507-C0016	1.007/50	5		03/28/11 14:38
36	T2.032811.144219	WG360412-16	CCV		1		03/28/11 14:42
37	T2.032811.144545	WG360412-17	CCB		1		03/28/11 14:45
38	T2.032811.144930	L11030460-47	11508-C0001	1.007/50	5		03/28/11 14:49
39	T2.032811.145307	L11030460-48	11508-C0002	1.007/50	5		03/28/11 14:53
40	T2.032811.145644	L11030461-01	11508-C0003	1.008/50	5		03/28/11 14:56
41	T2.032811.150027	WG360412-18	CCV		1		03/28/11 15:00
42	T2.032811.150353	WG360412-19	CCB		1		03/28/11 15:03
43	T2.032811.150737	WG360099-02	Method/Prep Blank	1/50	1		03/28/11 15:07
44	T2.032811.151118	WG360099-03	Laboratory Control S	1/50	1		03/28/11 15:11
45	T2.032811.151444	WG360412-20	Linear Range Check		1		03/28/11 15:14
46	T2.032811.151822	WG360412-20	Linear Range Check		1		03/28/11 15:18
47	T2.032811.152203	WG360412-20	Linear Range Check		1		03/28/11 15:22
48	T2.032811.152545	L11030926-01	SWMU-57-32511-SS-FC-2'-N		1	WG360099-01	03/28/11 15:25
49	T2.032811.152922	L11030926-03	SWMU-57-32511-SS-MS	1.312/50	1	WG360099-04	03/28/11 15:29
50	T2.032811.153258	L11030926-04	SWMU-57-32511-SS-MSD	1.312/50	1	WG360099-05	03/28/11 15:32
51	T2.032811.153635	L11030926-02	SWMU-57-32511-SS-DUP	1.367/50	1		03/28/11 15:36
52	T2.032811.154012	WG360132-01	Post Digestion Spike		1	L11030926-02	03/28/11 15:40
53	T2.032811.154358	WG360412-21	CCV		1		03/28/11 15:43
54	T2.032811.154723	WG360412-22	CCB		1		03/28/11 15:47
55	T2.032811.155109	WG360132-01	Post Digestion Spike		5	L11030926-02	03/28/11 15:51
56	T2.032811.155442	L11030926-02	SWMU-57-32511-SS-DUP	1.367/50	5		03/28/11 15:54
57	T2.032811.155819	WG360132-02	Serial Dilution		25	L11030926-02	03/28/11 15:58
58	T2.032811.160153	WG360132-02	Serial Dilution		125	L11030926-02	03/28/11 16:01
59	T2.032811.160530	L11030925-01	SWMU-57-32511-SS-FC-8'-N	1.352/50	1		03/28/11 16:05
60	T2.032811.160909	L11030925-02	SWMU-57-32511-SS-4'SW-1	1.313/50	1		03/28/11 16:09
61	T2.032811.161247	L11030925-03	SWMU-57-32511-SS-7.5'SW	1.336/50	1		03/28/11 16:12
62	T2.032811.161624	L11030925-04	SWMU-57-32511-SS-7.5'SW	1.469/50	1		03/28/11 16:16
63	T2.032811.162002	L11030925-05	SWMU-57-32611-FC-15'-NU	1.368/50	1		03/28/11 16:20
64	T2.032811.162340	L11030925-06	SWMU-57-32611-FC-13'-NU	1.458/50	1		03/28/11 16:23
65	T2.032811.162724	WG360412-23	CCV		1		03/28/11 16:27
66	T2.032811.163049	WG360412-24	CCB		1		03/28/11 16:30
67	T2.032811.163434	L11030926-05	SWMU-57-32511-SS-FC-B3-	1.344/50	1		03/28/11 16:34
68	T2.032811.163812	L11030926-06	SWMU-57-32611-SS-2.5' SW	1.434/50	1		03/28/11 16:38

Page: 2 Approved: March 29, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032811T2.1
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36866

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD4444368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 359705,360037,360132,360097,360131

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	T2.032811.164150	L11030925-01	SWMU-57-32511-SS-FC-8'-N	1.352/50	100		03/28/11 16:41
70	T2.032811.164527	L11030925-02	SWMU-57-32511-SS-4'SW-1	1.313/50	100		03/28/11 16:45
71	T2.032811.164905	L11030925-03	SWMU-57-32511-SS-7.5'SW	1.336/50	100		03/28/11 16:49
72	T2.032811.165242	L11030925-04	SWMU-57-32511-SS-7.5'SW	1.469/50	100		03/28/11 16:52
73	T2.032811.165619	L11030925-05	SWMU-57-32611-FC-15'-NU	1.368/50	100		03/28/11 16:56
74	T2.032811.165958	L11030925-06	SWMU-57-32611-FC-13'-NU	1.458/50	100		03/28/11 16:59
75	T2.032811.170336	L11030926-05	SWMU-57-32511-SS-FC-B3-	1.344/50	100		03/28/11 17:03
76	T2.032811.170714	L11030926-06	SWMU-57-32611-SS-2.5' SW	1.434/50	100		03/28/11 17:07
77	T2.032811.171057	WG360412-25	CCV		1		03/28/11 17:10
78	T2.032811.171422	WG360412-26	CCB		1		03/28/11 17:14
79	T2.032811.171807	L11030823-27	13989-C0024	1.355/50	1		03/28/11 17:18
80	T2.032811.172140	L11030823-28	13989-C0025	1.438/50	1		03/28/11 17:21
81	T2.032811.172516	L11030823-29	13989-C0026	1.368/50	1		03/28/11 17:25
82	T2.032811.172852	L11030823-30	13989-C0027	1.361/50	1		03/28/11 17:28
83	T2.032811.173226	L11030823-31	13989-C0028	1.404/50	1		03/28/11 17:32
84	T2.032811.173559	L11030823-32	13989-C0029	1.361/50	1		03/28/11 17:35
85	T2.032811.173931	L11030823-33	13989-C0030	1.32/50	1		03/28/11 17:39
86	T2.032811.174312	L11030823-34	13989-C0031	1.303/50	1		03/28/11 17:43
87	T2.032811.174648	L11030823-35	13989-C0032	1.368/50	1		03/28/11 17:46
88	T2.032811.175024	L11030921-01	\#3	1.004/50	1		03/28/11 17:50
89	T2.032811.175447	WG360412-27	CCV		1		03/28/11 17:54
90	T2.032811.175811	WG360412-28	CCB		1		03/28/11 17:58
91	T2.032811.180153	L11030926-01	SWMU-57-32511-SS-FC-2'-N		100	WG360099-01	03/28/11 18:01
92	T2.032811.180530	L11030926-03	SWMU-57-32511-SS-MS	1.312/50	100	WG360099-04	03/28/11 18:05
93	T2.032811.180908	L11030926-04	SWMU-57-32511-SS-MSD	1.312/50	100	WG360099-05	03/28/11 18:09
94	T2.032811.181250	WG360412-29	CCV		1		03/28/11 18:12
95	T2.032811.181614	WG360412-30	CCB		1		03/28/11 18:16
96	T2.032811.181959	WG359838-02	Method/Prep Blank	1/50	1		03/28/11 18:19
97	T2.032811.182340	WG359838-03	Laboratory Control S	1/50	1		03/28/11 18:23
98	T2.032811.182717	L11030685-23	13666-C0010	1.477/50	1		03/28/11 18:27
99	T2.032811.183051	WG360097-01	Post Digestion Spike		1	L11030685-23	03/28/11 18:30
100	T2.032811.183421	WG360097-02	Serial Dilution		5	L11030685-23	03/28/11 18:34
101	T2.032811.183751	WG360097-02	Serial Dilution		25	L11030685-23	03/28/11 18:37
102	T2.032811.184136	L11030685-24	13666-C0011	1.358/50	1		03/28/11 18:41

Page: 3 Approved: March 29, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032811T2.1
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36866

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD4444368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 359705,360037,360132,360097,360131

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	T2.032811.184518	WG360412-31	CCV		1		03/28/11 18:45
104	T2.032811.184842	WG360412-32	CCB		1		03/28/11 18:48
105	T2.032811.185232	L11030685-25	13666-C0012	1.329/50	1		03/28/11 18:52
106	T2.032811.185607	L11030685-26	13666-C0013	1.348/50	1		03/28/11 18:56
107	T2.032811.185942	L11030685-27	13666-C0014	1.413/50	1		03/28/11 18:59
108	T2.032811.190318	L11030685-28	13666-C0015	1.332/50	1		03/28/11 19:03
109	T2.032811.190702	L11030685-29	13666-C0016	1.404/50	1		03/28/11 19:07
110	T2.032811.191045	L11030685-30	13666-C0017	1.368/50	1		03/28/11 19:10
111	T2.032811.191436	L11030685-31	13666-C0018	1.302/50	1		03/28/11 19:14
112	T2.032811.191829	L11030685-32	13666-C0019	1.39/50	1		03/28/11 19:18
113	T2.032811.192229	L11030685-33	13666-C0020	1.407/50	1		03/28/11 19:22
114	T2.032811.192604	L11030685-34	13666-C0021	1.359/50	1		03/28/11 19:26
115	T2.032811.192947	WG360412-33	CCV		1		03/28/11 19:29
116	T2.032811.193312	WG360412-34	CCB		1		03/28/11 19:33
117	T2.032811.193701	L11030685-35	13666-C0022		1	WG359838-01	03/28/11 19:37
118	T2.032811.194036	L11030685-36	13666-C0022-MS	1.406/50	1	WG359838-04	03/28/11 19:40
119	T2.032811.194417	L11030685-37	13666-C0022-MSD	1.406/50	1	WG359838-05	03/28/11 19:44
120	T2.032811.194758	L11030685-38	13666-C0023	1.395/50	1		03/28/11 19:47
121	T2.032811.195134	L11030685-39	13666-C0024	1.338/50	1		03/28/11 19:51
122	T2.032811.195517	L11030685-40	13666-C0025	1.351/50	1		03/28/11 19:55
123	T2.032811.195854	L11030685-41	13666-C0026	1.38/50	1		03/28/11 19:58
124	T2.032811.200236	L11030685-42	13666-C0027	1.4/50	1		03/28/11 20:02
125	T2.032811.200615	L11030685-43	13666-C0028	1.376/50	1		03/28/11 20:06
126	T2.032811.200957	L11030685-44	13666-C0029	1.306/50	1		03/28/11 20:09
127	T2.032811.201339	WG360412-35	CCV		1		03/28/11 20:13
128	T2.032811.201703	WG360412-36	CCB		1		03/28/11 20:17
129	T2.032811.202052	WG359844-02	Method/Prep Blank	1/50	1		03/28/11 20:20
130	T2.032811.202432	WG359844-03	Laboratory Control S	1/50	1		03/28/11 20:24
131	T2.032811.202809	L11030686-19	13977-C0010	1.32/50	1		03/28/11 20:28
132	T2.032811.203144	WG360131-01	Post Digestion Spike		1	L11030686-19	03/28/11 20:31
133	T2.032811.203515	WG360131-02	Serial Dilution		5	L11030686-19	03/28/11 20:35
134	T2.032811.203844	WG360131-02	Serial Dilution		25	L11030686-19	03/28/11 20:38
135	T2.032811.204222	L11030686-20	13977-C0011	1.318/50	1		03/28/11 20:42
136	T2.032811.204558	L11030686-21	13977-C0012	1.305/50	1		03/28/11 20:45

Page: 4 Approved: March 29, 2011

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032811T2.1
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36866

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD4444368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 359705,360037,360132,360097,360131

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
137	T2.032811.204938	L11030686-22	13977-C0013	1.319/50	1		03/28/11 20:49
138	T2.032811.205314	L11030686-23	13977-C0014	1.371/50	1		03/28/11 20:53
139	T2.032811.205657	WG360412-37	CCV		1		03/28/11 20:56
140	T2.032811.210022	WG360412-38	CCB		1		03/28/11 21:00
141	T2.032811.210408	L11030686-24	13977-C0015	1.398/50	1		03/28/11 21:04
142	T2.032811.210743	L11030686-25	13977-C0016	1.398/50	1		03/28/11 21:07
143	T2.032811.211119	L11030686-26	13977-C0017	1.352/50	1		03/28/11 21:11
144	T2.032811.211503	L11030686-27	13977-C0018	1.394/50	1		03/28/11 21:15
145	T2.032811.211838	L11030686-28	13977-C0019	1.459/50	1		03/28/11 21:18
146	T2.032811.212214	L11030686-29	13977-C0020	1.408/50	1		03/28/11 21:22
147	T2.032811.212550	L11030686-30	13977-C0021	1.424/50	1		03/28/11 21:25
148	T2.032811.212926	L11030686-31	14029-C0001		1	WG359844-01	03/28/11 21:29
149	T2.032811.213302	L11030686-32	14029-C0001-MS	1.45/50	1	WG359844-04	03/28/11 21:33
150	T2.032811.213636	L11030686-33	14029-C0001-MSD	1.45/50	1	WG359844-05	03/28/11 21:36
151	T2.032811.214019	WG360412-39	CCV		1		03/28/11 21:40
152	T2.032811.214343	WG360412-40	CCB		1		03/28/11 21:43
153	T2.032811.214728	L11030686-34	14029-C0002	1.333/50	1		03/28/11 21:47
154	T2.032811.215104	L11030686-35	14029-C0003	1.444/50	1		03/28/11 21:51
155	T2.032811.215448	L11030686-36	14029-C0004	1.383/50	1		03/28/11 21:54
156	T2.032811.215824	L11030686-40	14029-C0006	1.303/50	1		03/28/11 21:58
157	T2.032811.220159	L11030686-41	14029-C0007	1.32/50	1		03/28/11 22:01
158	T2.032811.220535	L11030686-42	14029-C0008	1.438/50	1		03/28/11 22:05
159	T2.032811.220911	L11030686-43	14029-C0009	1.444/50	1		03/28/11 22:09
160	T2.032811.221250	WG360412-41	CCV		1		03/28/11 22:12
161	T2.032811.221615	WG360412-42	CCB		1		03/28/11 22:16
162	T2.032811.221954	-	L		1		03/28/11 22:19
163	T2.032811.222338	-	L		1		03/28/11 22:23
164	T2.032811.222724	-	L		1		03/28/11 22:27
165	T2.032811.223110	-	L		1		03/28/11 22:31
166	T2.032811.223454	-	L		1		03/28/11 22:34
167	T2.032811.223838	-	L		1		03/28/11 22:38
168	T2.032811.224217	-	L		1		03/28/11 22:42
169	T2.032811.224559	-	L		1		03/28/11 22:45
170	T2.032811.224940	-	L		1		03/28/11 22:49

Page: 5 Approved: March 29, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032811T2.1
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36866

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD4444368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 359705,360037,360132,360097,360131

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
171	T2.032811.225322	-	L		1		03/28/11 22:53

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	T2.032911.110024	WG360276-01	Calibration Point		1		03/29/11 11:00
2	T2.032911.110406	WG360276-02	Calibration Point		1		03/29/11 11:04
3	T2.032911.110745	WG360276-03	Calibration Point		1		03/29/11 11:07
4	T2.032911.111125	WG360276-04	Calibration Point		1		03/29/11 11:11
5	T2.032911.111448	WG360276-05	Calibration Point		1		03/29/11 11:14
6	T2.032911.112011	WG360276-06	Initial Calibration Verification		1		03/29/11 11:20
7	T2.032911.112332	WG360276-07	Initial Calib Blank		1		03/29/11 11:23
8	T2.032911.112715	WG360276-08	Low Level Initial Calibration V		1		03/29/11 11:27
9	T2.032911.113054	WG360276-09	Interference Check		1		03/29/11 11:30
10	T2.032911.113435	WG360276-10	Interference Check		1		03/29/11 11:34
11	T2.032911.113814	WG360276-11	CCV		1		03/29/11 11:38
12	T2.032911.114136	WG360276-12	CCB		1		03/29/11 11:41
13	T2.032911.114524	L11030925-05	SWMU-57-32611-FC-15'-NU	1.368/50	5		03/29/11 11:45
14	T2.032911.114855	L11030925-05	SWMU-57-32611-FC-15'-NU		500		03/29/11 11:48
15	T2.032911.115242	WG360276-13	CCV		1		03/29/11 11:52
16	T2.032911.115604	WG360276-14	CCB		1		03/29/11 11:56
17	T2.032911.115950	WG360050-02	Method/Prep Blank	1/50	1		03/29/11 11:59
18	T2.032911.120331	WG360050-03	Laboratory Control S	1/50	1		03/29/11 12:03
19	T2.032911.120656	L11030873-01	MATERIAL	1.005/50	1		03/29/11 12:06
20	T2.032911.121034	WG360050-01	Reference Sample		1	L11030893-05	03/29/11 12:10
21	T2.032911.121420	WG360050-04	Matrix Spike	1.372/50	1	L11030893-05	03/29/11 12:14
22	T2.032911.121806	WG360050-05	Matrix Spike Duplica	1.372/50	1	L11030893-05	03/29/11 12:18
23	T2.032911.122152	L11030893-01	PFG6089	1.319/50	1		03/29/11 12:21
24	T2.032911.122529	WG360207-01	Post Digestion Spike		1	L11030893-01	03/29/11 12:25
25	T2.032911.122906	L11030893-01	PFG6089		5		03/29/11 12:29
26	T2.032911.123236	WG360207-02	Serial Dilution		25	L11030893-01	03/29/11 12:32
27	T2.032911.123618	WG360276-15	CCV		1		03/29/11 12:36
28	T2.032911.123940	WG360276-16	CCB		1		03/29/11 12:39
29	T2.032911.124329	L11030893-02	PFG6090	1.326/50	1		03/29/11 12:43
30	T2.032911.124709	L11030893-03	PFG6091	1.376/50	1		03/29/11 12:47
31	T2.032911.125047	L11030893-04	PFG6092	1.326/50	1		03/29/11 12:50
32	T2.032911.125433	WG360276-17	Linear Range Check		1		03/29/11 12:54
33	T2.032911.125815	L11030693-32	9440-C0028	1.318/50	1		03/29/11 12:58
34	T2.032911.130149	L11030693-33	9440-C0029	1.306/50	1		03/29/11 13:01

Page: 1 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	T2.032911.130522	L11030693-37	9440-C0031	1.452/50	1		03/29/11 13:05
36	T2.032911.130853	L11030693-38	9440-C0032	1.471/50	1		03/29/11 13:08
37	T2.032911.131226	L11030693-39	9440-C0033	1.318/50	1		03/29/11 13:12
38	T2.032911.131606	WG360276-18	CCV		1		03/29/11 13:16
39	T2.032911.131930	WG360276-19	CCB		1		03/29/11 13:19
40	T2.032911.132314	WG360276-20	Low Level Continuing Calibra		1		03/29/11 13:23
41	T2.032911.132654	L11030693-40	9440-C0034	1.433/50	1		03/29/11 13:26
42	T2.032911.133035	L11030693-41	9440-C0035	1.488/50	1		03/29/11 13:30
43	T2.032911.133408	L11030693-42	9440-C0036	1.328/50	1		03/29/11 13:34
44	T2.032911.133743	L11030851-01	CS-2	1.39/50	1		03/29/11 13:37
45	T2.032911.134122	L11030851-02	CS-7	1.32/50	1		03/29/11 13:41
46	T2.032911.134502	L11030851-03	CS-11	1.382/50	1		03/29/11 13:45
47	T2.032911.134840	L11030851-04	CS-3	1.44/50	1		03/29/11 13:48
48	T2.032911.135218	L11030874-01	BLDG 464 PAD	1.01/50	1		03/29/11 13:52
49	T2.032911.135609	L11030874-02	BLDG 464 DRUM PAD	1.005/50	1		03/29/11 13:56
50	T2.032911.135959	L11030460-28	11506-C0016	1.012/50	2		03/29/11 13:59
51	T2.032911.140343	WG360276-21	CCV		1		03/29/11 14:03
52	T2.032911.140706	WG360276-22	CCB		1		03/29/11 14:07
53	T2.032911.141049	L11030926-05	SWMU-57-32511-SS-FC-B3-	1.344/50	1		03/29/11 14:10
54	T2.032911.141428	L11030926-06	SWMU-57-32611-SS-2.5' SW	1.434/50	1		03/29/11 14:14
55	T2.032911.141805	L11030926-05	SWMU-57-32511-SS-FC-B3-	1.344/50	1		03/29/11 14:18
56	T2.032911.142143	L11030926-06	SWMU-57-32611-SS-2.5' SW	1.434/50	1		03/29/11 14:21
57	T2.032911.142525	WG360276-23	CCV		1		03/29/11 14:25
58	T2.032911.142848	WG360276-24	CCB		1		03/29/11 14:28
59	T2.032911.143235	L11030823-27	13989-C0024	1.355/50	1		03/29/11 14:32
60	T2.032911.143609	L11030823-28	13989-C0025	1.438/50	1		03/29/11 14:36
61	T2.032911.143945	L11030823-29	13989-C0026	1.368/50	1		03/29/11 14:39
62	T2.032911.144321	L11030823-30	13989-C0027	1.361/50	1		03/29/11 14:43
63	T2.032911.144654	L11030823-31	13989-C0028	1.404/50	1		03/29/11 14:46
64	T2.032911.145027	L11030823-32	13989-C0029	1.361/50	1		03/29/11 14:50
65	T2.032911.145400	L11030823-33	13989-C0030	1.32/50	1		03/29/11 14:54
66	T2.032911.145741	L11030823-34	13989-C0031	1.303/50	1		03/29/11 14:57
67	T2.032911.150114	L11030823-35	13989-C0032	1.368/50	1		03/29/11 15:01
68	T2.032911.150448	L11030921-01	\#3	1.004/50	1		03/29/11 15:04

Page: 2 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	T2.032911.150905	WG360276-25	CCV		1		03/29/11 15:09
70	T2.032911.151226	WG360276-26	CCB		1		03/29/11 15:12
71	T2.032911.151610	L11030926-05	SWMU-57-32511-SS-FC-B3-	1.344/50	200		03/29/11 15:16
72	T2.032911.151949	L11030926-06	SWMU-57-32611-SS-2.5' SW	1.434/50	200		03/29/11 15:19
73	T2.032911.152333	L11030686-24	13977-C0015	1.398/50	1		03/29/11 15:23
74	T2.032911.152709	L11030686-25	13977-C0016	1.398/50	1		03/29/11 15:27
75	T2.032911.153044	L11030686-26	13977-C0017	1.352/50	1		03/29/11 15:30
76	T2.032911.153427	L11030686-27	13977-C0018	1.394/50	1		03/29/11 15:34
77	T2.032911.153803	L11030686-28	13977-C0019	1.459/50	1		03/29/11 15:38
78	T2.032911.154139	L11030686-29	13977-C0020	1.408/50	1		03/29/11 15:41
79	T2.032911.154515	L11030686-30	13977-C0021	1.424/50	1		03/29/11 15:45
80	T2.032911.154851	WG359844-01	Reference Sample		1	L11030686-31	03/29/11 15:48
81	T2.032911.155234	WG360276-27	CCV		1		03/29/11 15:52
82	T2.032911.155555	WG360276-28	CCB		1		03/29/11 15:55
83	T2.032911.155942	WG359844-04	Matrix Spike	1.45/50	1	L11030686-31	03/29/11 15:59
84	T2.032911.160315	WG359844-05	Matrix Spike Duplica	1.45/50	1	L11030686-31	03/29/11 16:03
85	T2.032911.160650	L11030686-34	14029-C0002	1.333/50	1		03/29/11 16:06
86	T2.032911.161025	L11030686-35	14029-C0003	1.444/50	1		03/29/11 16:10
87	T2.032911.161409	L11030686-36	14029-C0004	1.383/50	1		03/29/11 16:14
88	T2.032911.161744	L11030686-40	14029-C0006	1.303/50	1		03/29/11 16:17
89	T2.032911.162119	L11030686-41	14029-C0007	1.32/50	1		03/29/11 16:21
90	T2.032911.162500	L11030686-42	14029-C0008	1.438/50	1		03/29/11 16:25
91	T2.032911.162836	L11030686-43	14029-C0009	1.444/50	1		03/29/11 16:28
92	T2.032911.163215	WG360276-29	CCV		1		03/29/11 16:32
93	T2.032911.163538	WG360276-30	CCB		1		03/29/11 16:35
94	T2.032911.163921	WG359300-02	Method/Prep Blank	1/50	1		03/29/11 16:39
95	T2.032911.164301	WG359300-03	Laboratory Control S	1/50	1		03/29/11 16:43
96	T2.032911.164637	L11030418-07	8839-C0030	1.356/50	1		03/29/11 16:46
97	T2.032911.165013	L11030418-08	8839-C0031	1.322/50	1		03/29/11 16:50
98	T2.032911.165348	L11030418-09	8839-C0032	1.343/50	1		03/29/11 16:53
99	T2.032911.165722	L11030418-10	8839-C0033	1.479/50	1		03/29/11 16:57
100	T2.032911.170057	L11030418-11	8839-C0034	1.303/50	2		03/29/11 17:00
101	T2.032911.170424	WG359748-01	Post Digestion Spike		2	L11030418-11	03/29/11 17:04
102	T2.032911.170747	WG359748-02	Serial Dilution		10	L11030418-11	03/29/11 17:07

Page: 3 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	T2.032911.171120	WG359748-02	Serial Dilution		50	L11030418-11	03/29/11 17:11
104	T2.032911.171507	WG360276-31	CCV		1		03/29/11 17:15
105	T2.032911.171832	WG360276-32	CCB		1		03/29/11 17:18
106	T2.032911.172219	L11030418-12	8839-C0035	1.402/50	1		03/29/11 17:22
107	T2.032911.172553	L11030418-13	8839-C0036	1.388/50	1		03/29/11 17:25
108	T2.032911.172927	L11030418-14	8839-C0037	1.394/50	1		03/29/11 17:29
109	T2.032911.173303	L11030418-15	8839-C0038	1.355/50	1		03/29/11 17:33
110	T2.032911.173639	L11030418-16	8839-C0039	1.345/50	1		03/29/11 17:36
111	T2.032911.174014	L11030418-17	8839-C0040	1.323/50	1		03/29/11 17:40
112	T2.032911.174348	L11030418-18	8839-C0041	1.324/50	1		03/29/11 17:43
113	T2.032911.174723	L11030418-19	8839-C0042	1.402/50	1		03/29/11 17:47
114	T2.032911.175059	L11030418-20	8839-C0043	1.315/50	1		03/29/11 17:50
115	T2.032911.175454	L11030418-21	8839-C0044	1.366/50	1		03/29/11 17:54
116	T2.032911.175850	WG360276-33	CCV		1		03/29/11 17:58
117	T2.032911.180216	WG360276-34	CCB		1		03/29/11 18:02
118	T2.032911.180601	L11030418-22	8839-C0045	1.329/50	1		03/29/11 18:06
119	T2.032911.180957	L11030418-23	8839-C0046	1.418/50	1		03/29/11 18:09
120	T2.032911.181346	L11030418-24	8839-C0047	1.496/50	1		03/29/11 18:13
121	T2.032911.181743	L11030418-25	8839-C0048	1.354/50	1		03/29/11 18:17
122	T2.032911.182133	WG359300-01	Reference Sample		1	L11030418-29	03/29/11 18:21
123	T2.032911.182517	WG359300-04	Matrix Spike	1.317/50	1	L11030418-29	03/29/11 18:25
124	T2.032911.182900	WG359300-05	Matrix Spike Duplica	1.317/50	1	L11030418-29	03/29/11 18:29
125	T2.032911.183247	WG360276-35	CCV		1		03/29/11 18:32
126	T2.032911.183612	WG360276-36	CCB		1		03/29/11 18:36
127	T2.032911.183952	WG359839-02	Method/Prep Blank	1/50	1		03/29/11 18:39
128	T2.032911.184333	WG359839-03	Laboratory Control S	1/50	1		03/29/11 18:43
129	T2.032911.184710	L11030685-45	13666-C0030	1.361/50	1		03/29/11 18:47
130	T2.032911.185050	L11030685-46	13666-C0031	1.462/50	1		03/29/11 18:50
131	T2.032911.185424	L11030685-47	13666-C0032	1.341/50	1		03/29/11 18:54
132	T2.032911.185757	L11030685-48	13666-C0033	1.418/50	1		03/29/11 18:57
133	T2.032911.190148	L11030686-01	13666-C0034	1.425/50	1		03/29/11 19:01
134	T2.032911.190548	WG360208-01	Post Digestion Spike		1	L11030686-01	03/29/11 19:05
135	T2.032911.190945	WG360208-02	Serial Dilution		5	L11030686-01	03/29/11 19:09
136	T2.032911.191313	WG360208-02	Serial Dilution		25	L11030686-01	03/29/11 19:13

Page: 4 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
137	T2.032911.191649	WG360276-37	CCV		1		03/29/11 19:16
138	T2.032911.192014	WG360276-38	CCB		1		03/29/11 19:20
139	T2.032911.192357	L11030686-02	13666-C0035	1.463/50	1		03/29/11 19:23
140	T2.032911.192739	L11030686-03	13666-C0036	1.337/50	1		03/29/11 19:27
141	T2.032911.193111	L11030686-04	13666-C0037	1.345/50	1		03/29/11 19:31
142	T2.032911.193443	L11030686-05	13666-C0038	1.335/50	1		03/29/11 19:34
143	T2.032911.193823	L11030686-06	13666-C0039	1.331/50	1		03/29/11 19:38
144	T2.032911.194158	L11030686-07	13666-C0040	1.4/50	1		03/29/11 19:41
145	T2.032911.194530	L11030686-08	13977-C0001	1.386/50	1		03/29/11 19:45
146	T2.032911.194920	L11030686-09	13977-C0002	1.429/50	1		03/29/11 19:49
147	T2.032911.195250	WG359839-01	Reference Sample		1	L11030686-10	03/29/11 19:52
148	T2.032911.195623	WG359839-04	Matrix Spike	1.474/50	1	L11030686-10	03/29/11 19:56
149	T2.032911.200003	WG360276-39	CCV		1		03/29/11 20:00
150	T2.032911.200328	WG360276-40	CCB		1		03/29/11 20:03
151	T2.032911.200712	WG359839-05	Matrix Spike Duplica	1.474/50	1	L11030686-10	03/29/11 20:07
152	T2.032911.201053	L11030686-13	13977-C0004	1.318/50	1		03/29/11 20:10
153	T2.032911.201434	L11030686-14	13977-C0005	1.303/50	1		03/29/11 20:14
154	T2.032911.201826	L11030686-15	13977-C0006	1.359/50	1		03/29/11 20:18
155	T2.032911.202159	L11030686-16	13977-C0007	1.354/50	1		03/29/11 20:21
156	T2.032911.202531	L11030686-17	13977-C0008	1.399/50	1		03/29/11 20:25
157	T2.032911.202920	L11030686-18	13977-C0009	1.355/50	1		03/29/11 20:29
158	T2.032911.203258	WG360276-41	CCV		1		03/29/11 20:32
159	T2.032911.203622	WG360276-42	CCB		1		03/29/11 20:36
160	T2.032911.204006	WG360079-02	Method/Prep Blank	1/50	1		03/29/11 20:40
161	T2.032911.204345	WG360079-03	Laboratory Control S	1/50	1		03/29/11 20:43
162	T2.032911.204723	L11030499-09	15506-C0007	1.382/50	1		03/29/11 20:47
163	T2.032911.205053	WG360281-01	Post Digestion Spike		1	L11030499-09	03/29/11 20:50
164	T2.032911.205422	WG360281-02	Serial Dilution		5	L11030499-09	03/29/11 20:54
165	T2.032911.205759	WG360281-02	Serial Dilution		25	L11030499-09	03/29/11 20:57
166	T2.032911.210132	L11030499-10	15506-C0008	1.37/50	1		03/29/11 21:01
167	T2.032911.210501	L11030499-11	15506-C0009	1.472/50	1		03/29/11 21:05
168	T2.032911.210832	L11030499-12	15506-C0010	1.329/50	1		03/29/11 21:08
169	T2.032911.211210	L11030499-13	15506-C0011	1.385/50	1		03/29/11 21:12
170	T2.032911.211549	WG360276-43	CCV		1		03/29/11 21:15

Page: 5 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
171	T2.032911.211913	WG360276-44	CCB		1		03/29/11 21:19
172	T2.032911.212259	L11030499-14	15506-C0012	1.377/50	1		03/29/11 21:22
173	T2.032911.212636	L11030499-15	15506-C0013	1.337/50	1		03/29/11 21:26
174	T2.032911.213007	L11030499-16	15506-C0014	1.498/50	1		03/29/11 21:30
175	T2.032911.213336	L11030499-17	15506-C0015	1.385/50	1		03/29/11 21:33
176	T2.032911.213707	L11030499-18	15506-C0016	1.368/50	1		03/29/11 21:37
177	T2.032911.214039	WG360079-01	Reference Sample		1	L11030499-19	03/29/11 21:40
178	T2.032911.214409	WG360079-04	Matrix Spike	1.364/50	1	L11030499-19	03/29/11 21:44
179	T2.032911.214739	WG360079-05	Matrix Spike Duplica	1.364/50	1	L11030499-19	03/29/11 21:47
180	T2.032911.215109	L11030499-22	15506-C0018	1.446/50	1		03/29/11 21:51
181	T2.032911.215440	L11030499-23	15506-C0019	1.475/50	1		03/29/11 21:54
182	T2.032911.215819	WG360276-45	CCV		1		03/29/11 21:58
183	T2.032911.220144	WG360276-46	CCB		1		03/29/11 22:01
184	T2.032911.220529	L11030499-24	15506-C0020	1.352/50	1		03/29/11 22:05
185	T2.032911.220901	L11030499-25	15508-C0001	1.478/50	1		03/29/11 22:09
186	T2.032911.221230	L11030499-26	15508-C0002	1.323/50	1		03/29/11 22:12
187	T2.032911.221600	L11030499-27	15508-C0003	1.437/50	1		03/29/11 22:16
188	T2.032911.221929	L11030499-28	15508-C0004	1.34/50	1		03/29/11 22:19
189	T2.032911.222301	L11030499-29	15508-C0005	1.34/50	1		03/29/11 22:23
190	T2.032911.222634	L11030499-30	15508-C0006	1.412/50	1		03/29/11 22:26
191	T2.032911.223014	WG360276-47	CCV		1		03/29/11 22:30
192	T2.032911.223339	WG360276-48	CCB		1		03/29/11 22:33
193	T2.032911.223723	WG360077-02	Method/Prep Blank	1/50	1		03/29/11 22:37
194	T2.032911.224105	WG360077-03	Laboratory Control S	1/50	1		03/29/11 22:41
195	T2.032911.224442	L11030498-35	14236-C0035	1.438/50	1		03/29/11 22:44
196	T2.032911.224819	WG360284-01	Post Digestion Spike		1	L11030498-35	03/29/11 22:48
197	T2.032911.225151	WG360284-02	Serial Dilution		5	L11030498-35	03/29/11 22:51
198	T2.032911.225520	WG360284-02	Serial Dilution		25	L11030498-35	03/29/11 22:55
199	T2.032911.225855	WG360077-01	Reference Sample		1	L11030498-36	03/29/11 22:58
200	T2.032911.230231	WG360077-04	Matrix Spike	1.41/50	1	L11030498-36	03/29/11 23:02
201	T2.032911.230606	WG360077-05	Matrix Spike Duplica	1.41/50	1	L11030498-36	03/29/11 23:06
202	T2.032911.230942	L11030498-39	14236-C0037	1.402/50	1		03/29/11 23:09
203	T2.032911.231337	WG360276-49	CCV		1		03/29/11 23:13
204	T2.032911.231701	WG360276-50	CCB		1		03/29/11 23:17

Page: 6 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
205	T2.032911.232043	L11030498-40	14236-C0038	1.34/50	1		03/29/11 23:20
206	T2.032911.232426	L11030498-41	14236-C0039	1.344/50	1		03/29/11 23:24
207	T2.032911.232803	L11030498-42	14236-C0040	1.387/50	1		03/29/11 23:28
208	T2.032911.233139	L11030498-43	14236-C0041	1.386/50	1		03/29/11 23:31
209	T2.032911.233518	L11030498-44	14236-C0042	1.482/50	1		03/29/11 23:35
210	T2.032911.233853	L11030498-45	14236-C0043	1.495/50	1		03/29/11 23:38
211	T2.032911.234229	L11030498-46	14236-C0044	1.465/50	1		03/29/11 23:42
212	T2.032911.234613	L11030498-47	14236-C0045	1.367/50	1		03/29/11 23:46
213	T2.032911.234956	L11030498-48	14236-C0046	1.393/50	1		03/29/11 23:49
214	T2.032911.235339	L11030499-01	14236-C0047	1.464/50	1		03/29/11 23:53
215	T2.032911.235726	WG360276-51	CCV		1		03/29/11 23:57
216	T2.033011.000050	WG360276-52	CCB		1		03/30/11 00:00
217	T2.033011.000434	L11030499-02	14236-C0048	1.407/50	1		03/30/11 00:04
218	T2.033011.000810	L11030499-03	15506-C0001	1.382/50	1		03/30/11 00:08
219	T2.033011.001145	L11030499-04	15506-C0002	1.419/50	1		03/30/11 00:11
220	T2.033011.001521	L11030499-05	15506-C0003	1.373/50	1		03/30/11 00:15
221	T2.033011.001855	L11030499-06	15506-C0004	1.444/50	1		03/30/11 00:18
222	T2.033011.002230	L11030499-07	15506-C0005	1.463/50	1		03/30/11 00:22
223	T2.033011.002605	L11030499-08	15506-C0006	1.406/50	1		03/30/11 00:26
224	T2.033011.002948	WG360276-53	CCV		1		03/30/11 00:29
225	T2.033011.003313	WG360276-54	CCB		1		03/30/11 00:33
226	T2.033011.003658	WG359858-02	Method/Prep Blank	1/50	1		03/30/11 00:36
227	T2.033011.004039	WG359858-03	Laboratory Control S	1/50	1		03/30/11 00:40
228	T2.033011.004417	WG359858-01	Reference Sample		1	L11030687-09	03/30/11 00:44
229	T2.033011.004753	WG359858-04	Matrix Spike	1.359/50	1	L11030687-09	03/30/11 00:47
230	T2.033011.005129	WG359858-05	Matrix Spike Duplica	1.359/50	1	L11030687-09	03/30/11 00:51
231	T2.033011.005501	L11030687-18	14029-C0030	1.487/50	1		03/30/11 00:55
232	T2.033011.005837	WG360286-01	Post Digestion Spike		1	L11030687-18	03/30/11 00:58
233	T2.033011.010210	WG360286-02	Serial Dilution		5	L11030687-18	03/30/11 01:02
234	T2.033011.010542	WG360286-02	Serial Dilution		25	L11030687-18	03/30/11 01:05
235	T2.033011.010920	L11030687-19	14029-C0031	1.422/50	1		03/30/11 01:09
236	T2.033011.011258	WG360276-55	CCV		1		03/30/11 01:12
237	T2.033011.011621	WG360276-56	CCB		1		03/30/11 01:16
238	T2.033011.012006	L11030687-20	14029-C0032	1.332/50	1		03/30/11 01:20

Page: 7 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO2 Dataset: 032911T2.2
Analyst1: JYH Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 36880

Calibration Std: STD44471 ICV Std: STD44294 Post Spike: STD39932
ICSA: STD44413 ICSAB: STD44368 Int. Std: STD44297
CCV: STD44355 LLCCV:

Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284

Comments: Additional workgroup: 360286

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
239	T2.033011.012343	L11030687-21	14029-C0033	1.498/50	1		03/30/11 01:23
240	T2.033011.012719	L11030687-22	14029-C0034	1.412/50	1		03/30/11 01:27
241	T2.033011.013056	L11030687-23	14029-C0035	1.38/50	1		03/30/11 01:30
242	T2.033011.013432	L11030687-24	14029-C0036	1.375/50	1		03/30/11 01:34
243	T2.033011.013808	L11030687-25	14029-C0037	1.456/50	1		03/30/11 01:38
244	T2.033011.014145	L11030687-26	14029-C0038	1.471/50	1		03/30/11 01:41
245	T2.033011.014521	L11030687-27	14029-C0039	1.348/50	1		03/30/11 01:45
246	T2.033011.014855	L11030687-28	14029-C0040	1.375/50	1		03/30/11 01:48
247	T2.033011.015231	L11030687-29	14029-C0041	1.371/50	1		03/30/11 01:52
248	T2.033011.015609	WG360276-57	CCV		1		03/30/11 01:56
249	T2.033011.015931	WG360276-58	CCB		1		03/30/11 01:59
250	T2.033011.020314	L11030687-30	14029-C0042	1.476/50	1		03/30/11 02:03
251	T2.033011.020647	L11030687-31	14029-C0043	1.486/50	1		03/30/11 02:06
252	T2.033011.021025	L11030687-32	14029-C0044	1.402/50	1		03/30/11 02:10
253	T2.033011.021359	L11030687-33	14029-C0045	1.369/50	1		03/30/11 02:13
254	T2.033011.021735	L11030687-34	14029-C0046	1.307/50	1		03/30/11 02:17
255	T2.033011.022112	L11030687-35	14029-C0047	1.438/50	1		03/30/11 02:21
256	T2.033011.022448	L11030687-36	14029-C0048	1.327/50	1		03/30/11 02:24
257	T2.033011.022821	WG360276-59	CCV		1		03/30/11 02:28
258	T2.033011.023144	WG360276-60	CCB		1		03/30/11 02:31

Page: 8 Approved: March 30, 2011

Maren Berry

Microbac Laboratories Inc.

Data Checklist

Date: 28-MAR-2011
Analyst: JYH
Analyst: NA
Method: 6010
Instrument: ICP-THERMO2
Curve Workgroup: 360412
Runlog ID: 39713
Analytical Workgroups: 359705,360037,360132,360097,360131

Additional workgroups: 360048,360037	
Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	460,925,926,685,686
Client Forms	X
Level X	
Level 3	
Level 4	721,460,925,926,685,686
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:

Secondary Reviewer:
29-MAR-2011

CHECKLIST1 - Modified 03/05/2008
Generated: MAR-30-2011 16:28:28

Microbac Laboratories Inc.

Data Checklist

Date: 29-MAR-2011
Analyst: JYH
Analyst: NA
Method: 6010
Instrument: ICP-THERMO2
Curve Workgroup: 360276
Runlog ID: 39728
Analytical Workgroups: 360132,360207,360037,360131,359748,360208,360281,360284,360286

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	823,926,693,851,873,874,893,686
	685,418,498,499,687
Client Forms	X
Level X	
Level 3	
Level 4	823,926,693,851,460,874,893,686
	685,418,498,499,687
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
29-MAR-2011

Secondary Reviewer:
30-MAR-2011

CHECKLIST1 - Modified 03/05/2008
Generated: MAR-30-2011 18:07:17

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method 6010B AAB#: WG360132

Login Number: L11030926

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SWMU-57-32511-SS-FC-2'-	01	03/25/11					03/28/11	3.2	180		03/28/11	3.3	180	
SWMU-57-32511-SS-DUP	02	03/25/11					03/28/11	3.2	180		03/28/11	3.3	180	
SWMU-57-32511-SS-DUP	02	03/25/11					03/28/11	3.2	180		03/28/11	3.3	180	
SWMU-57-32511-SS-MS	03	03/25/11					03/28/11	3.2	180		03/28/11	3.3	180	
SWMU-57-32511-SS-MSD	04	03/25/11					03/28/11	3.2	180		03/28/11	3.3	180	
SWMU-57-32511-SS-FC-B3-	05	03/25/11					03/28/11	3	180		03/29/11	4.1	180	
SWMU-57-32511-SS-FC-B3-	05	03/25/11					03/28/11	3	180		03/29/11	4.1	180	
SWMU-57-32511-SS-FC-B3-	05	03/25/11					03/28/11	3	180		03/29/11	4.2	180	
SWMU-57-32611-SS-2.5' S	06	03/26/11					03/28/11	2.2	180		03/29/11	3.3	180	
SWMU-57-32611-SS-2.5' S	06	03/26/11					03/28/11	2.2	180		03/29/11	3.2	180	
SWMU-57-32611-SS-2.5' S	06	03/26/11					03/28/11	2.2	180		03/29/11	3.3	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1956360
Report generated 03/30/2011 08:56

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11030926
Blank File ID: T2.032811.150737
Prep Date: 03/28/11 11:56
Analyzed Date: 03/28/11 15:07
Analyst: JYH

Work Group: WG360132
Blank Sample ID: WG360099-02
Instrument ID: ICP-THERMO2
Method: 6010B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG360099-03	T2.032811.151118	03/28/11 15:11	01
SWMU-57-32511-SS-FC-2'-NUM1	L11030926-01	T2.032811.152545	03/28/11 15:25	01
SWMU-57-32511-SS-MS	L11030926-03	T2.032811.152922	03/28/11 15:29	01
SWMU-57-32511-SS-MSD	L11030926-04	T2.032811.153258	03/28/11 15:32	01
SWMU-57-32511-SS-DUP	L11030926-02	T2.032811.153635	03/28/11 15:36	01
SWMU-57-32511-SS-DUP	L11030926-02	T2.032811.155442	03/28/11 15:54	DL01
SWMU-57-32511-SS-FC-B3-2.5'	L11030926-05	T2.032911.141049	03/29/11 14:10	01
SWMU-57-32611-SS-2.5' SW-4	L11030926-06	T2.032911.141428	03/29/11 14:14	01
SWMU-57-32511-SS-FC-B3-2.5'	L11030926-05	T2.032911.141805	03/29/11 14:18	DL01
SWMU-57-32611-SS-2.5' SW-4	L11030926-06	T2.032911.142143	03/29/11 14:21	DL01
SWMU-57-32511-SS-FC-B3-2.5'	L11030926-05	T2.032911.151610	03/29/11 15:16	DL02
SWMU-57-32611-SS-2.5' SW-4	L11030926-06	T2.032911.151949	03/29/11 15:19	DL02

Report Name: BLANK_SUMMARY
PDF File ID: 1956361
Report generated 03/30/2011 09:32

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11030926 Prep Date: 03/28/11 11:56 Sample ID: WG360099-02
Instrument ID: ICP-THERMO2 Run Date: 03/28/11 15:07 Prep Method: 3051A
File ID: T2.032811.150737 Analyst: JYH Method: 6010B
Workgroup (AAB#): WG360132 Matrix: Soil Units: mg/kg
Contract #: Cal ID: ICP-TH-28-MAR-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Aluminum, Total	10.0	20.0	10.0	1	U
Antimony, Total	0.500	1.00	0.500	1	U
Iron, Total	1.50	3.00	1.50	1	U
Manganese, Total	0.250	0.500	0.250	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1956362
30-MAR-2011 08:56

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360099-03
Instrument ID: ICP-THERMO2 Run Time: 15:11 Prep Method: 3051A
File ID: T2.032811.151118 Analyst: JYH Method: 6010B
Workgroup (AAB#): WG360132 Matrix: Soil Units: mg/kg
QC Key: DOD4 Lot#: STD39933 Cal ID: ICP-TH-28-MAR-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Aluminum, Total	250	235	94.2	80 - 120	
Antimony, Total	30.0	28.5	94.9	80 - 120	
Iron, Total	100	96.5	96.5	80 - 120	
Manganese, Total	12.5	12.0	96.1	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1956363
Report generated: 03/30/2011 08:56

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L11030926 Cal ID: ICP-THERMO2- 28-MAR-11 Worknum: WG360132
Instrument ID: ICP-THERMO2 Contract #: Prep Method: 3051A
Parent ID: L11030926-01 File ID: T2.032811.152545 Dil: 1 Method: 6010B
Sample ID: L11030926-03 MS File ID: T2.032811.152922 Dil: 1 Matrix: Soil
Sample ID: L11030926-04 MSD File ID: T2.032811.153258 Dil: 1 Units: mg/kg
Percent Solid: 75.2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Aluminum, Total	26500	253	31000	1770	253	28900	934	7.05	80 - 120	20	*
Antimony, Total	4.44	30.4	28.8	80.2	30.4	29.0	80.8	0.664	80 - 120	20	
Iron, Total	40900	101	40300	-614	101	39200	-1700	2.77	80 - 120	20	*
Manganese, Total	138	12.7	134	-26.7	12.7	130	-63.2	3.50	80 - 120	20	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008
PDF File ID: 1956364
Report generated 04/01/2011 15:48

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11030926 **Worknum:** WG360132
Instrument: ICP-THERMO2 **Method:** 6010B
Serial Dil: WG360132-02 **File ID:** T2.032811.155442 **Dil:** 5 **Units:** mg/L
Sample: L11030926-02 **File ID:** T2.032811.153635 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	572		640		11.90	E
Antimony	.0694	X	.0635	F	8.50	
Iron	837		945		12.90	E
Manganese	2.56		2.755		7.62	

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1956358
03/30/2011 08:55

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11030926 **Worknum:** WG360132
Instrument: ICP-THERMO2 **Method:** 6010B
Serial Dil: WG360132-02 **File ID:** T2.032811.155819 **Dil:** 25 **Units:** mg/L
Sample: L11030926-02 **File ID:** T2.032811.155442 **Dil:** 5

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	640		650		1.56	
Antimony	.0635	F	ND	U		
Iron	945		940		0.53	
Manganese	2.755		2.8		1.63	

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1956358
03/30/2011 08:55

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11030926 **Worknum:** WG360132
Instrument ID: ICP-THERMO2 **Method:** 6010B
Post Spike ID: WG360132-01 **File ID:** T2.032811.154012 **Dil:** 1 **Units:** mg/L
Sample ID: L11030926-02 **File ID:** T2.032811.153635 **Dil:** 1 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	537		572		5	437.1	75 - 125	N
ANTIMONY	0.638		0.0694		.6	95.9	75 - 125	
IRON	761		837		2	385.4	75 - 125	N
MANGANESE	2.54		2.56		.25	97.0	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1956359
Report generated: 03/30/2011 08:55

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11030926**	Workgroup (AAB#):	**WG360132**
Analytical Method:	**6010B**	Instrument ID:	**ICP-THERMO2**
ICAL Worknum:	**WG360412**	Initial Calibration Date:	**28-MAR-2011 12:50**

	WG360412-01		WG360412-02		WG360412-03		WG360412-04		WG360412-05			
	Conc	**INT**	**Conc**	**INT**	**Conc**	**INT**	**Conc**	**INT**	**Conc**	**INT**	**R**	**Q**
ALUMINUM	0	0.0117	.1	0.0196	.2	0.0288	10	0.872	20	1.82	.999681	
ANTIMONY	0	0.0000600	.012	0.000270	.024	0.000470	1.2	0.0224	2.4	0.0461	.999851	
IRON	0	0	.04	0.000540	.08	0.00103	4	0.0497	8	0.0994	.999986	
MANGANESE	0	0.000110	.005	0.000690	.01	0.00130	.5	0.0613	1	0.123	.999992	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID 1956368
Report generated: 30-MAR-2011 17:02

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11030926**	Workgroup (AAB#):	**WG360132**
Analytical Method:	**6010B**	Instrument ID:	**ICP-THERMO2**
ICAL Worknum:	**WG360276**	Initial Calibration Date:	**29-MAR-2011 11:14**

	WG360276-01		WG360276-02		WG360276-03		WG360276-04		WG360276-05			
	Conc	**INT**	**Conc**	**INT**	**Conc**	**INT**	**Conc**	**INT**	**Conc**	**INT**	**R**	**Q**
ALUMINUM	0	0.00929	.1	0.0176	.2	0.0254	10	0.852	20	1.74	.999916	
ANTIMONY	0	0.0000500	.012	0.000260	.024	0.000480	1.2	0.0216	2.4	0.0431	.999999	
IRON	0	0.0000200	.04	0.000560	.08	0.00112	4	0.0578	8	0.111	.999798	
MANGANESE	0	0.000150	.005	0.000920	.01	0.00165	.5	0.0767	1	0.147	.999811	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID 1956368
Report generated: 30-MAR-2011 17:02

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360412-07
Instrument ID: ICP-THERMO2 Run Time: 12:57 Method: 6010B
File ID: T2.032811.125733 Analyst: JYH Units: mg/L
Workgroup (AAB#): WG360132 Cal ID: ICP-THERI - 28-MAR-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.2	.4	.2	U
ANTIMONY	.01	.02	.01	U
IRON	.03	.06	.03	U
MANGANESE	.005	.01	.005	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1956370
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-07
Instrument ID: ICP-THERMO2 Run Time: 11:23 Method: 6010B
File ID: T2.032911.112332 Analyst: JYH Units: mg/L
Workgroup (AAB#): WG360132 Cal ID: ICP-THERI - 29-MAR-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.2	.4	.2	U
ANTIMONY	.01	.02	.01	U
IRON	.03	.06	.03	U
MANGANESE	.005	.01	.005	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1956370
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360412-12

Instrument ID: ICP-THERMO2 Run Time: 13:15 Method: 6010B

File ID: T2.032811.131543 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956373
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360412-19

Instrument ID: ICP-THERMO2 Run Time: 15:03 Method: 6010B

File ID: T2.032811.150353 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956373
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360412-22

Instrument ID: ICP-THERMO2 Run Time: 15:47 Method: 6010B

File ID: T2.032811.154723 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956373
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360412-24

Instrument ID: ICP-THERMO2 Run Time: 16:30 Method: 6010B

File ID: T2.032811.163049 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956373
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-12
Instrument ID: ICP-THERMO2 Run Time: 11:41 Method: 6010B
File ID: T2.032911.114136 Analyst: JYH Units: mg/L
Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11
Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956373
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-14
Instrument ID: ICP-THERMO2 Run Time: 11:56 Method: 6010B
File ID: T2.032911.115604 Analyst: JYH Units: mg/L
Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11
Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956373
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-16

Instrument ID: ICP-THERMO2 Run Time: 12:39 Method: 6010B

File ID: T2.032911.123940 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956373
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-19

Instrument ID: ICP-THERMO2 Run Time: 13:19 Method: 6010B

File ID: T2.032911.131930 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956373
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-22

Instrument ID: ICP-THERMO2 Run Time: 14:07 Method: 6010B

File ID: T2.032911.140706 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956373
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-24

Instrument ID: ICP-THERMO2 Run Time: 14:28 Method: 6010B

File ID: T2.032911.142848 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956373
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-26
Instrument ID: ICP-THERMO2 Run Time: 15:12 Method: 6010B
File ID: T2.032911.151226 Analyst: JYH Units: mg/L
Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11
Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956373
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-28
Instrument ID: ICP-THERMO2 Run Time: 15:55 Method: 6010B
File ID: T2.032911.155555 Analyst: JYH Units: mg/L
Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11
Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.200	0.400	0.200	U
Antimony	0.0100	0.0200	0.0100	U
Iron	0.0300	0.0600	0.0300	U
Manganese	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1956373
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360412-06

Instrument ID: ICP-THERMO2 Run Time: 12:54 Method: 6010B

File ID: T2.032811.125407 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Aluminum		10	9.89	98.9	90 - 110	
Antimony		1.2	1.17	97.7	90 - 110	
Iron		4	4.02	101	90 - 110	
Manganese		.5	0.506	101	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1956369

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-06

Instrument ID: ICP-THERMO2 Run Time: 11:20 Method: 6010B

File ID: T2.032911.112011 Analyst: JYH Units: mg/L

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Aluminum		10	9.62	96.2	90 - 110	
Antimony		1.2	1.19	99.0	90 - 110	
Iron		4	3.99	99.6	90 - 110	
Manganese		.5	0.496	99.2	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008

PDF File ID: 1956369

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360412-11

Instrument ID: ICP-THERMO2 Run Time: 13:12 Method: 6010B

File ID: T2.032811.131217 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.79	mg/L	97.9	90 - 110		
Antimony		1.20	1.18	mg/L	98.1	90 - 110		
Iron		4.00	4.05	mg/L	101	90 - 110		
Manganese		0.500	0.499	mg/L	99.9	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956372

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360412-18

Instrument ID: ICP-THERMO2 Run Time: 15:00 Method: 6010B

File ID: T2.032811.150027 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.48	mg/L	94.8	90 - 110		
Antimony		1.20	1.19	mg/L	99.2	90 - 110		
Iron		4.00	3.89	mg/L	97.3	90 - 110		
Manganese		0.500	0.484	mg/L	96.9	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956372

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360412-21

Instrument ID: ICP-THERMO2 Run Time: 15:43 Method: 6010B

File ID: T2.032811.154358 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.98	mg/L	99.8	90 - 110		
Antimony		1.20	1.22	mg/L	102	90 - 110		
Iron		4.00	4.12	mg/L	103	90 - 110		
Manganese		0.500	0.493	mg/L	98.6	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956372

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360412-23

Instrument ID: ICP-THERMO2 Run Time: 16:27 Method: 6010B

File ID: T2.032811.162724 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 28-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.85	mg/L	98.5	90 - 110		
Antimony		1.20	1.20	mg/L	99.9	90 - 110		
Iron		4.00	3.92	mg/L	98.1	90 - 110		
Manganese		0.500	0.479	mg/L	95.7	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956372

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-11

Instrument ID: ICP-THERMO2 Run Time: 11:38 Method: 6010B

File ID: T2.032911.113814 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.0	mg/L	100	90 - 110		
Antimony		1.20	1.21	mg/L	101	90 - 110		
Iron		4.00	3.92	mg/L	98.1	90 - 110		
Manganese		0.500	0.484	mg/L	96.9	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956372

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-13

Instrument ID: ICP-THERMO2 Run Time: 11:52 Method: 6010B

File ID: T2.032911.115242 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.96	mg/L	99.6	90 - 110		
Antimony		1.20	1.21	mg/L	101	90 - 110		
Iron		4.00	3.90	mg/L	97.5	90 - 110		
Manganese		0.500	0.486	mg/L	97.2	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956372

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-15

Instrument ID: ICP-THERMO2 Run Time: 12:36 Method: 6010B

File ID: T2.032911.123618 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.81	mg/L	98.1	90 - 110		
Antimony		1.20	1.19	mg/L	99.3	90 - 110		
Iron		4.00	3.92	mg/L	98.1	90 - 110		
Manganese		0.500	0.482	mg/L	96.3	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956372

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-18

Instrument ID: ICP-THERMO2 Run Time: 13:16 Method: 6010B

File ID: T2.032911.131606 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.0	mg/L	100	90 - 110		
Antimony		1.20	1.21	mg/L	101	90 - 110		
Iron		4.00	3.85	mg/L	96.2	90 - 110		
Manganese		0.500	0.480	mg/L	95.9	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956372

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-21

Instrument ID: ICP-THERMO2 Run Time: 14:03 Method: 6010B

File ID: T2.032911.140343 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.0	mg/L	100	90 - 110		
Antimony		1.20	1.24	mg/L	103	90 - 110		
Iron		4.00	3.79	mg/L	94.9	90 - 110		
Manganese		0.500	0.461	mg/L	92.2	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956372

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-23

Instrument ID: ICP-THERMO2 Run Time: 14:25 Method: 6010B

File ID: T2.032911.142525 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.0	mg/L	100	90 - 110		
Antimony		1.20	1.23	mg/L	102	90 - 110		
Iron		4.00	3.76	mg/L	94.1	90 - 110		
Manganese		0.500	0.460	mg/L	91.9	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956372

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-25

Instrument ID: ICP-THERMO2 Run Time: 15:09 Method: 6010B

File ID: T2.032911.150905 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.1	mg/L	101	90 - 110		
Antimony		1.20	1.24	mg/L	103	90 - 110		
Iron		4.00	3.80	mg/L	95.1	90 - 110		
Manganese		0.500	0.463	mg/L	92.6	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956372

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360276-27

Instrument ID: ICP-THERMO2 Run Time: 15:52 Method: 6010B

File ID: T2.032911.155234 Analyst: JYH QC Key: DOD4

Workgroup (AAB#): WG360132 Cal ID: ICP-TH - 29-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	10.2	mg/L	102	90 - 110		
Antimony		1.20	1.25	mg/L	104	90 - 110		
Iron		4.00	3.76	mg/L	93.9	90 - 110		
Manganese		0.500	0.459	mg/L	91.7	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1956372

Report generated 03/30/2011 17:02

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11030926 **Workgroup (AAB#):** WG360132
Instrument ID: ICP-THERMO2 **Method:** 6010B
Sol. A : WG360412-09 **File ID:** T2.032811.130458 **Units:** mg/L
Sol. AB : WG360412-10 **File ID:** T2.032811.130839 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Aluminum	250	247	98.8	250	253	101	
Antimony	NS	-0.00636	NS	0.500	0.488	97.6	
Iron	100	97.4	97.4	100	97.0	97.0	
Manganese	NS	-0.00198	NS	0.250	0.236	94.4	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1956371
Report generated 03/30/2011 17:02

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11030926 **Workgroup (AAB#):** WG360132
Instrument ID: ICP-THERMO2 **Method:** 6010B
Sol. A : WG360276-09 **File ID:** T2.032911.113054 **Units:** mg/L
Sol. AB : WG360276-10 **File ID:** T2.032911.113435 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Aluminum	250	250	100	250	262	105	
Antimony	NS	-0.00464	NS	0.500	0.519	104	
Iron	100	93.9	93.9	100	96.5	96.5	
Manganese	NS	-0.00148	NS	0.250	0.236	94.4	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1956371
Report generated 03/30/2011 17:02

LRC SAMPLE

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360412
Instrument ID: ICP-THERMO2 Run Time: 12:50 Prep Method: 3051A
Analyst: JYH Method: 6010B
Workgroup (AAB#): WG360132 Matrix: Solid Units: mg/kg
Cal ID: 28-MAR-11 - 28-MAR-2011 12:50

Analytes	Expected	Found	% Rec	Limits	Q
Aluminum, Total	900	869	96.6	90 - 110	
Iron, Total	1000	950	95.0	90 - 110	
Manganese, Total	200	184	92.0	90 - 110	

KEMRON FORMS - Modified 08/28/2006
Version 1.5 PDF File ID: 1957059
Report generated 03/30/2011 17:07

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11030926 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	AL	AS	B	BA	BE
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	0.0000210	0	0	0	0
ARSENIC	189.00	0	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	0	0.00190	0	-0.000140	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0
COBALT	228.60	0	0	0	0	0
COPPER	224.70	0	0	0	0	0
IRON	261.20	0	0	0	0	0
LEAD	220.30	0.000335	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	0
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	-0.000750	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	-0.0000300	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	-0.0000120	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	0
ZINC	206.20	0.0000420	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1956367
Report generated: 03/30/2011 08:56

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11030926 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	CA	CO	CR	CU	FE
ALUMINUM	308.20	0	-0.000820	0	0	0
ANTIMONY	206.80	0	0	0.00950	0	0.0000560
ARSENIC	189.00	0	0	0.000490	0	-0.0000120
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0.00343	0	0	-0.000619
CADMIUM	228.80	0	-0.00200	0	0	-0.00000800
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0.0000530
COBALT	228.60	0	0	0.000108	0	0
COPPER	224.70	0	0.0000770	0	0	0.000196
IRON	261.20	0	0	0	0	0
LEAD	220.30	0	-0.0000930	-0.000172	0.000809	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	0
MANGANESE	257.60	0	0	-0.0000920	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0.000100	0	0	0.0000320
PHOSPHORUS	214.90	0	0	0	0.00200	0.00120
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0.0000570	0	0	0	0
THALLIUM	190.80	0	0.00397	0.000276	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	-0.00000200
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	-0.0000300

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1956367
Report generated: 03/30/2011 08:56

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11030926 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	LI	MG	MN	MO	NA
ALUMINUM	308.20	0	0	0	0.0153	0
ANTIMONY	206.80	0	0	0	0.000670	0
ARSENIC	189.00	0	0	0	0.00109	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	-0.00169	0
CADMIUM	228.80	0	0	0	0.0000220	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0.000160	0	0
COBALT	228.60	0	0	0	-0.000983	0
COPPER	224.70	0	0	0	0.00274	0
IRON	261.20	0	0	0	0	0
LEAD	220.30	0	0	0	-0.00183	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	-0.00190	-0.0110	0
MANGANESE	257.60	0	0.00000900	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	0	0	0	0.00800	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0.000156	0
SILICON	212.40	0	0	0	0.0187	0
SILVER	328.00	0	0	0	-0.0000440	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	-0.000153	0
VANADIUM	292.40	0	0	0	-0.00778	0
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1956367
Report generated: 03/30/2011 08:56

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11030926 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	NI	SB	SN	SR	TI
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	0	0	-0.00840	0	-0.000990
ARSENIC	189.00	0	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	-0.000128	0	0	0	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0.0000550
COBALT	228.60	0.000175	0	0	0	0.00188
COPPER	224.70	-0.0120	0	0	0	0.000269
IRON	261.20	0	0	0	0	0
LEAD	220.30	0.000110	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	-0.00290
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
PHOSPHORUS	214.90	0	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	-0.00620
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	-0.00170
TIN	189.90	0	0	0	0	-0.00220
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	0.000824
ZINC	206.20	0	0	0	0	0
ZIRCONIUM	339.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1956367
Report generated: 03/30/2011 08:56

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11030926 **Date:** 01/25/2011
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Wave Length	V	ZN	ZR
ALUMINUM	308.20	0.00300	0	0
ANTIMONY	206.80	-0.00438	0	0
ARSENIC	189.00	0.000107	0	0
BARIUM	455.40	0	0	0
BERYLLIUM	313.00	0	0	0
BORON	249.70	0	0	0
CADMIUM	228.80	0.0000820	0	0
CALCIUM	422.70	0	0	0
CHROMIUM	267.70	0	0	
COBALT	228.60	0.0000200	0	0
COPPER	224.70	0	0	
IRON	261.20	0	0	0
LEAD	220.30	-0.000126	0	0
LITHIUM	670.80	0	0	0
MAGNESIUM	279.10	0	0	0
MANGANESE	257.60	0	0	0
MOLYBDENUM	202.03	-0.000110	0	0
NICKEL	231.60	0	0	0
PHOSPHORUS	214.90	-0.00500	0	0.00200
POTASSIUM	766.40	0	0	0
SELENIUM	196.00	0	0	0
SILICON	212.40	0	0	0
SILVER	328.00	-0.00617	0	0
SODIUM	589.50	0	0	0
STRONTIUM	407.80	0	0	0
THALLIUM	190.80	-0.0282	0	0
TIN	189.90	0	0	0
TITANIUM	337.30	0	0	0
VANADIUM	292.40	0	0	
ZINC	206.20	0	0	0
ZIRCONIUM	339.20	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 1956367
Report generated: 03/30/2011 08:56

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L11030926 **Date:** 12/13/2010
Insturment ID: ICP-THERMO2 **Method:** 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	810.0
Antimony	10.00	90.0
Arsenic	10.00	90.0
Barium	10.00	90.0
Beryllium	15.00	4.5
Boron	10.00	90.0
Cadmium	10.00	16.2
Calcium	10.00	900.0
Chromium	10.00	81.0
Cobalt	10.00	90.0
Copper	10.00	180.0
Iron	5.00	900.0
Lead	10.00	180.0
Lithium	10.00	90.0
Magnesium	15.00	900.0
Manganese	15.00	180.0
Molybdenum	10.00	9.0
Nickel	10.00	90.0
Phosphorus	10.00	900.0
Potassium	10.00	315.0
Selenium	10.00	90.0
Silicon	10.00	90.0
Silver	5.00	9.0
Sodium	10.00	315.0
Strontium	10.00	4.5
Thallium	10.00	9.0
Tin	10.00	90.0
Titanium	15.00	90.0
Vanadium	10.00	90.0
Zinc	10.00	45.0
Zirconium	10.00	45.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1956366
Report generated: 03/30/2011 08:56

2.1.1.3 Raw Data

Sample Name: S0 Acquired: 3/28/2011 12:36:10 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00023**	**.01166**	**-.00010**	**.00078**	**.00261**	**-.00156**	**.00022**
Stddev	.00024	.00010	.00002	.00012	.00008	.00006	.00007
%RSD	104.13	.86590	25.093	14.946	2.9384	3.6109	31.411
#1	-.00029	.01159	-.00013	.00075	.00259	-.00150	.00023
#2	.00003	.01161	-.00008	.00091	.00270	-.00160	.00015
#3	-.00043	.01177	-.00009	.00068	.00255	-.00160	.00028

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00010**	**-.00012**	**.00047**	**.00014**	**.00000**	**-.00131**	**-.00070**
Stddev	.00002	.00004	.00007	.00002	.00001	.00005	.00013
%RSD	22.573	34.705	14.380	16.330	180.46	4.0937	19.267
#1	.00012	-.00015	.00042	.00016	.00000	-.00134	-.00056
#2	.00008	-.00012	.00046	.00013	.00001	-.00134	-.00083
#3	.00009	-.00007	.00055	.00012	.00000	-.00125	-.00070

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00000**	**.00011**	**.00005**	**-.00304**	**-.00006**	**.00001**	**-.00014**
Stddev	.00002	.00002	.00000	.00012	.00003	.00000	.00001
%RSD	1011.6	13.991	5.7729	3.9176	50.736	29.969	6.0655
#1	-.00001	.00010	.00005	-.00312	-.00009	.00000	-.00013
#2	.00002	.00010	.00005	-.00290	-.00006	.00001	-.00015
#3	-.00001	.00012	.00005	-.00309	-.00003	.00000	-.00015

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00404**	**.00022**	**.00016**	**.00006**	**-.00002**	**.00048**	**.00000**
Stddev	.00016	.00001	.00001	.00002	.00002	.00002	.00001
%RSD	3.9210	5.2612	3.5102	38.096	101.09	3.5996	408.09
#1	-.00403	.00023	.00017	.00004	.00000	.00046	.00001
#2	-.00389	.00022	.00016	.00009	-.00002	.00048	.00002
#3	-.00421	.00020	.00016	.00005	-.00004	.00050	-.00001

Approved: March 29, 2011

Sample Name: S0 Acquired: 3/28/2011 12:36:10 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00101**	**-.00040**	**-.00006**	**.00038**	**.00372**	**-.00101**
Stddev	.00001	.00002	.00002	.00006	.00003	.00008
%RSD	1.3707	4.5549	33.333	16.981	.91203	7.6263
#1	.00102	-.00038	-.00008	.00043	.00368	-.00108
#2	.00101	-.00039	-.00004	.00039	.00373	-.00093
#3	.00099	-.00042	-.00006	.00031	.00375	-.00101

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49330.**	**55055.**
Stddev	85.	319.
%RSD	.17304	.57992
#1	49257.	54806.
#2	49310.	54943.
#3	49424.	55415.

Approved: March 29, 2011

Sample Name: S1 Acquired: 3/28/2011 12:39:51 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	Ba4554	Be3131	Ca4226	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00066**	**.01959**	**.01397**	**.00059**	**.00202**	**.00028**	**.00031**
Stddev	.00009	.00045	.00025	.00007	.00005	.00004	.00004
%RSD	14.410	2.2997	1.7757	12.358	2.2966	15.801	13.109
#1	.00068	.01916	.01406	.00052	.00201	.00028	.00027
#2	.00055	.01955	.01415	.00058	.00198	.00024	.00030
#3	.00074	.02006	.01369	.00067	.00207	.00032	.00035

Elem	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00183**	**.00049**	**.00054**	**.00456**	**.00164**	**.00034**	**.00069**
Stddev	.00014	.00001	.00001	.00012	.00004	.00003	.00004
%RSD	7.4348	2.2825	2.5872	2.7344	2.4712	8.4157	5.2566
#1	.00168	.00048	.00056	.00460	.00159	.00034	.00066
#2	.00187	.00050	.00054	.00466	.00167	.00037	.00073
#3	.00193	.00049	.00053	.00442	.00165	.00032	.00068

Elem	Mo2020	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00088**	**.01574**	**.00023**	**.00002**	**.00001**	**-.00389**	**.00025**
Stddev	.00004	.00023	.00001	.00001	.00003	.00013	.00001
%RSD	4.0731	1.4775	4.2985	61.385	212.89	3.4738	5.9254
#1	.00086	.01578	.00023	.00002	-.00002	-.00378	.00025
#2	.00085	.01595	.00022	.00004	.00004	-.00384	.00023
#3	.00092	.01549	.00024	.00001	.00002	-.00404	.00026

Elem	S_1820	Sb2068	Si2124	Sn1899	Sr4077	Ti3372	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00016**	**.00027**	**.00045**	**.00049**	**.01800**	**.00063**	**.00542**
Stddev	.00001	.00002	.00001	.00003	.00009	.00004	.00007
%RSD	8.1501	8.2687	2.7206	5.2196	.51947	6.0324	1.3256
#1	.00015	.00025	.00045	.00047	.01811	.00061	.00534
#2	.00015	.00028	.00044	.00049	.01796	.00061	.00548
#3	.00017	.00029	.00047	.00052	.01793	.00068	.00543

Approved: March 29, 2011

Sample Name: S1 Acquired: 3/28/2011 12:39:51 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062	Zr3391
Units	Cts/S	Cts/S
Avg	**.00650**	**-.00099**
Stddev	.00027	.00009
%RSD	4.1811	9.5500
#1	.00641	-.00089
#2	.00629	-.00100
#3	.00680	-.00108
Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49772.**	**56085.**
Stddev	1265.	432.
%RSD	2.5420	.77083
#1	50790.	55794.
#2	50169.	55879.
#3	48355.	56582.

Approved: March 29, 2011

Sample Name: S2 Acquired: 3/28/2011 12:43:32 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00158**	**.02876**	**.00004**	**.00223**	**.02553**	**.00292**	**.00386**
Stddev	.00004	.00024	.00001	.00005	.00017	.00013	.00017
%RSD	2.7925	.82087	35.791	2.2139	.65674	4.6046	4.3223
#1	.00162	.02857	.00005	.00225	.02562	.00277	.00388
#2	.00153	.02868	.00003	.00217	.02533	.00300	.00368
#3	.00159	.02902	.00003	.00226	.02563	.00300	.00401

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00044**	**.00074**	**.00343**	**.00094**	**.00103**	**.01041**	**.00389**
Stddev	.00001	.00003	.00007	.00005	.00003	.00008	.00015
%RSD	2.0588	3.9311	1.9490	4.8114	3.0236	.75934	3.8045
#1	.00044	.00071	.00343	.00093	.00101	.01042	.00387
#2	.00045	.00075	.00350	.00090	.00101	.01048	.00405
#3	.00043	.00077	.00337	.00099	.00106	.01033	.00375

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00060**	**.00130**	**.00177**	**.03449**	**.00053**	**.00002**	**.00019**
Stddev	.00002	.00001	.00003	.00058	.00002	.00001	.00003
%RSD	3.4919	.94454	1.4912	1.6845	3.0640	50.350	18.084
#1	.00061	.00132	.00175	.03459	.00051	.00003	.00018
#2	.00058	.00129	.00176	.03387	.00054	.00004	.00023
#3	.00062	.00130	.00180	.03502	.00055	.00001	.00016

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00407**	**.00027**	**.00016**	**.00047**	**.00004**	**.00048**	**.00101**
Stddev	.00009	.00001	.00000	.00003	.00001	.00000	.00001
%RSD	2.2052	2.1916	2.6988	5.6032	15.973	.43962	.80661
#1	-.00415	.00026	.00016	.00046	.00004	.00048	.00101
#2	-.00398	.00027	.00017	.00044	.00005	.00048	.00101
#3	-.00408	.00028	.00016	.00050	.00004	.00048	.00102

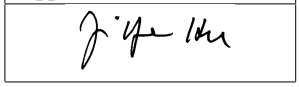
Approved: March 29, 2011

Sample Name: S2 Acquired: 3/28/2011 12:43:32 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03508**	**.00175**	**.00006**	**.01076**	**.00914**	**-.00097**
Stddev	.00039	.00007	.00001	.00020	.00038	.00003
%RSD	1.1011	3.7559	10.705	1.8815	4.1772	3.4237
#1	.03509	.00179	.00006	.01067	.00873	-.00094
#2	.03470	.00167	.00007	.01061	.00922	-.00100
#3	.03547	.00178	.00006	.01099	.00948	-.00096

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48902.**	**56110.**
Stddev	571.	365.
%RSD	1.1669	.65022
#1	49417.	55947.
#2	49000.	56528.
#3	48289.	55855.

Approved: March 29, 2011



Sample Name: S3 Acquired: 3/28/2011 12:47:11 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.09449**	**.87210**	**.00668**	**.06894**	**1.1441**	**.22392**	**.18206**
Stddev	.00115	.01559	.00002	.00104	.0082	.00317	.00109
%RSD	1.2150	1.7871	.36767	1.5095	.71809	1.4176	.59983
#1	.09503	.87565	.00667	.06923	1.1449	.22535	.18252
#2	.09317	.85504	.00671	.06778	1.1355	.22029	.18082
#3	.09527	.88560	.00667	.06980	1.1518	.22613	.18286

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01767**	**.03988**	**.14510**	**.03819**	**.04970**	**.57722**	**.25448**
Stddev	.00009	.00014	.00212	.00015	.00023	.00285	.00115
%RSD	.49127	.35790	1.4589	.39517	.46070	.49391	.45314
#1	.01765	.03990	.14578	.03833	.04978	.57885	.25473
#2	.01777	.04001	.14273	.03822	.04945	.57393	.25322
#3	.01760	.03973	.14680	.03803	.04989	.57888	.25549

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03043**	**.06134**	**.08559**	**1.8784**	**.02874**	**.00001**	**.01655**
Stddev	.00011	.00051	.00047	.0077	.00009	.00002	.00008
%RSD	.37011	.83769	.55412	.41004	.30289	118.63	.48778
#1	.03056	.06171	.08555	1.8867	.02879	.00003	.01662
#2	.03034	.06075	.08608	1.8715	.02879	.00001	.01655
#3	.03040	.06155	.08514	1.8770	.02864	.00000	.01646

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00384**	**.00292**	**.00013**	**.02238**	**.00403**	**.00084**	**.04909**
Stddev	.00015	.00001	.00001	.00009	.00002	.00001	.00051
%RSD	3.8947	.36336	8.4740	.39444	.55777	1.7800	1.0438
#1	-.00396	.00291	.00011	.02243	.00401	.00086	.04937
#2	-.00367	.00294	.00013	.02243	.00405	.00083	.04940
#3	-.00389	.00293	.00013	.02228	.00401	.00083	.04850

Approved: March 29, 2011

Sample Name: S3 Acquired: 3/28/2011 12:47:11 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6994**	**.10151**	**.00607**	**.51176**	**.25789**	**-.00049**
Stddev	.0069	.00051	.00001	.00856	.00149	.00013
%RSD	.40764	.50563	.16753	1.6718	.57851	27.659
#1	1.7046	.10171	.00607	.51513	.25808	-.00064
#2	1.6916	.10093	.00608	.50203	.25927	-.00038
#3	1.7022	.10190	.00606	.51812	.25631	-.00044

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49134.**	**57319.**
Stddev	124.	697.
%RSD	.25205	1.2153
#1	49085.	56516.
#2	49041.	57758.
#3	49274.	57685.

Approved: March 29, 2011

Sample Name: S4 Acquired: 3/28/2011 12:50:38 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.19603**	**1.8246**	**.01397**	**.14174**	**2.3102**	**.46607**	**.36941**
Stddev	.00092	.0066	.00003	.00002	.0024	.00175	.00107
%RSD	.46707	.36470	.17983	.01238	.10379	.37543	.28970
#1	.19687	1.8263	.01398	.14176	2.3089	.46628	.37047
#2	.19617	1.8173	.01395	.14173	2.3088	.46770	.36944
#3	.19505	1.8303	.01399	.14174	2.3130	.46422	.36833

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03641**	**.08130**	**.29489**	**.07755**	**.09943**	**1.1737**	**.51743**
Stddev	.00002	.00010	.00123	.00019	.00032	.0032	.00085
%RSD	.05033	.11860	.41704	.24975	.32256	.27710	.16520
#1	.03641	.08135	.29404	.07746	.09971	1.1768	.51831
#2	.03640	.08119	.29630	.07742	.09908	1.1740	.51660
#3	.03643	.08136	.29433	.07777	.09949	1.1703	.51737

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.06125**	**.12292**	**.17451**	**3.8048**	**.05824**	**.00002**	**.03355**
Stddev	.00029	.00043	.00019	.0173	.00002	.00001	.00009
%RSD	.48155	.35089	.11004	.45450	.04205	33.610	.25560
#1	.06159	.12332	.17465	3.8218	.05826	.00001	.03350
#2	.06106	.12298	.17457	3.8055	.05821	.00002	.03364
#3	.06111	.12246	.17429	3.7872	.05824	.00002	.03349

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00376**	**.00576**	**.00015**	**.04610**	**.00838**	**.00129**	**.09989**
Stddev	.00003	.00001	.00001	.00006	.00003	.00001	.00009
%RSD	.92509	.25483	7.0112	.12969	.40295	.39151	.08582
#1	-.00380	.00577	.00015	.04603	.00838	.00129	.09988
#2	-.00373	.00575	.00016	.04615	.00842	.00130	.09980
#3	-.00375	.00575	.00014	.04611	.00835	.00130	.09997

Approved: March 29, 2011

Sample Name: S4 Acquired: 3/28/2011 12:50:38 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1305) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.4323**	**.20529**	**.01224**	**1.0511**	**.52313**	**.00025**
Stddev	.0112	.00011	.00003	.0013	.00078	.00015
%RSD	.32633	.05310	.22087	.12046	.14927	62.683
#1	3.4427	.20542	.01224	1.0522	.52307	.00034
#2	3.4338	.20524	.01221	1.0514	.52238	.00007
#3	3.4205	.20522	.01227	1.0497	.52394	.00033

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47891.**	**57006.**
Stddev	72.	443.
%RSD	.15123	.77651
#1	47808.	56498.
#2	47941.	57209.
#3	47924.	57311.

Approved: March 29, 2011

Sample Name: ICV Acquired: 3/28/2011 12:54:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39988**	**9.8898**	**.39663**	**.50733**	**1.0029**	**.05032**	**10.073**
Stddev	.00580	.1170	.00654	.00584	.0047	.00074	.045
%RSD	1.4510	1.1826	1.6481	1.1502	.47198	1.4797	.44719
#1	.40632	10.007	.40410	.51380	1.0083	.05117	10.123
#2	.39504	9.7726	.39196	.50245	1.0012	.04977	10.058
#3	.39829	9.8901	.39383	.50575	.99928	.05002	10.037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04973**	**.20008**	**.50164**	**.49750**	**4.0223**	**50.100**	**1.0081**
Stddev	.00090	.00390	.00720	.00924	.0148	.157	.0043
%RSD	1.8198	1.9476	1.4363	1.8570	.36759	.31274	.42870
#1	.05077	.20458	.50987	.50813	4.0306	50.278	1.0129
#2	.04914	.19783	.49648	.49291	4.0052	50.042	1.0068
#3	.04927	.19783	.49857	.49145	4.0310	49.981	1.0045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.029**	**.50559**	**1.0242**	**51.524**	**.50314**	F **2.8057**	**.49705**
Stddev	.071	.00140	.0162	.174	.00842	3.6754	.00874
%RSD	.70942	.27722	1.5770	.33682	1.6736	131.00	1.7583
#1	9.9819	.50669	1.0426	51.723	.51285	2.5068	.50675
#2	9.9934	.50607	1.0124	51.440	.49787	-.71118	.49458
#3	10.110	.50401	1.0177	51.408	.49870	6.6214	.48980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-5.0000%	

Approved: March 29, 2011

Sample Name: ICV Acquired: 3/28/2011 12:54:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **15.711**	**10.033**	F **13.051**	**1.1728**	**.39925**	F **1298.6**	**.98913**
Stddev	15.122	.245	4.751	.0191	.00580	23.3	.01876
%RSD	96.248	2.4433	36.403	1.6318	1.4538	1.7980	1.8964
#1	27.452	10.316	7.8370	1.1949	.40558	1325.4	1.0107
#2	21.035	9.9006	17.135	1.1615	.39418	1283.4	.97987
#3	-1.3523	9.8821	14.181	1.1620	.39798	1286.9	.97681
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	5.0000%		5.0000%			5.0000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0089**	**.99661**	**.50507**	**1.0248**	**1.0049**	F **1.5731**
Stddev	.0048	.00211	.00934	.0144	.0199	.2476
%RSD	.47713	.21166	1.8502	1.4058	1.9779	15.741
#1	1.0144	.99771	.51581	1.0409	1.0277	1.2892
#2	1.0067	.99418	.49877	1.0131	.99152	1.6860
#3	1.0055	.99795	.50062	1.0205	.99535	1.7442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						5.0000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48893.**	**57342.**
Stddev	618.	227.
%RSD	1.2638	.39625
#1	48185.	57452.
#2	49328.	57493.
#3	49165.	57081.

Approved: March 29, 2011

Sample Name: ICB Acquired: 3/28/2011 12:57:33 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**-.00201**	**.00009**	**.00224**	**-.00015**	**.00001**	**-.00631**
Stddev	.00005	.00400	.00077	.00035	.00001	.00002	.00595
%RSD	12.502	198.77	848.57	15.684	9.0061	196.92	94.383
#1	-.00040	.00197	.00097	.00225	-.00015	.00001	-.01234
#2	-.00049	-.00199	-.00046	.00259	-.00016	-.00001	-.00615
#3	-.00040	-.00602	-.00024	.00188	-.00013	.00003	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00001**	**.00001**	**-.00044**	**.00033**	**.06969**	**-.00237**
Stddev	.00002	.00005	.00018	.00032	.00221	.03088	.00037
%RSD	404.02	857.12	1710.8	71.892	668.29	44.316	15.784
#1	.00002	-.00006	.00009	-.00040	-.00116	.08795	-.00195
#2	-.00001	.00004	.00014	-.00078	-.00072	.03403	-.00249
#3	-.00003	.00000	-.00020	-.00015	.00287	.08708	-.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00571**	**-.00023**	**.00016**	**-.00288**	**-.00012**	F **8.4374**	**-.00035**
Stddev	.00969	.00027	.00018	.00729	.00029	10.284	.00100
%RSD	169.67	119.23	117.26	253.45	237.08	121.89	288.10
#1	.00525	-.00008	.00031	.00186	-.00039	1.0445	-.00109
#2	-.00925	-.00055	.00021	-.01127	.00018	20.182	-.00074
#3	-.01313	-.00007	-.00005	.00078	-.00015	4.0858	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.1000	
Low Limit						-1.0000	

Approved: March 29, 2011

Sample Name: ICB Acquired: 3/28/2011 12:57:33 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.868**	**-.01920**	**.91614**	**-.00141**	**-.00212**	**-.22893**	**.00000**
Stddev	13.152	.02442	8.1813	.00087	.00194	.24834	.0002
%RSD	110.83	127.17	893.02	62.228	91.670	108.48	22629.
#1	21.866	-.00338	-8.3250	-.00240	-.00048	.01664	.00019
#2	-3.0314	-.00690	3.8385	-.00107	-.00160	-.47996	-.00014
#3	16.768	-.04733	7.2350	-.00075	-.00426	-.22348	-.00005
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0400						
Low Limit	-1.2000						

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00048**	**-.00037**	**-.00016**	**.00143**	F **.34046**
Stddev	.00007	.00031	.00093	.00011	.00063	.10134
%RSD	58.673	64.520	254.61	64.970	44.143	29.765
#1	-.00014	.00084	-.00067	-.00007	.00095	.35391
#2	-.00017	.00028	.00068	-.00014	.00214	.23307
#3	-.00004	.00032	-.00111	-.00028	.00119	.43441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49782.**	**57101.**
Stddev	828.	1612.
%RSD	1.6639	2.8227
#1	49195.	57658.
#2	49422.	55284.
#3	50729.	58360.

Approved: March 29, 2011

Sample Name: LLICV Acquired: 3/28/2011 13:01:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00792**	**.17998**	**.00741**	**.01102**	**.01969**	**.00096**	**.19618**
Stddev	.00053	.00165	.00059	.00032	.00028	.00001	.00307
%RSD	6.7232	.91422	7.9798	2.8669	1.4092	.81785	1.5669
#1	.00799	.18157	.00686	.01101	.01995	.00095	.19940
#2	.00842	.18009	.00804	.01134	.01940	.00096	.19587
#3	.00736	.17828	.00734	.01070	.01974	.00096	.19327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00394**	**.00991**	**.00964**	**.07977**	**1.0419**	**.01683**
Stddev	.00001	.00017	.00038	.00052	.00091	.0055	.00111
%RSD	1.4524	4.1832	3.8039	5.4386	1.1444	.52851	6.5923
#1	.00095	.00402	.01027	.01023	.08075	1.0399	.01779
#2	.00098	.00406	.00952	.00944	.07894	1.0482	.01709
#3	.00096	.00376	.00995	.00924	.07964	1.0377	.01562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20344**	**.00986**	**.01896**	**.97620**	**.00998**	**9.6642**	**.01029**
Stddev	.01199	.00025	.00029	.00656	.00028	5.3064	.00077
%RSD	5.8916	2.5593	1.5122	.67176	2.8027	54.907	7.5046
#1	.21082	.01009	.01914	.97801	.01030	15.759	.00949
#2	.18961	.00959	.01911	.96892	.00977	7.1651	.01035
#3	.20988	.00989	.01863	.98166	.00986	6.0689	.01104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: LLICV Acquired: 3/28/2011 13:01:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.49879**	**.20814**	**1.8719**	**.02057**	**.00685**	**.03856**	**.01948**
Stddev	2.1817	.05899	6.0740	.00156	.00073	.26865	.00029
%RSD	437.39	28.343	324.49	7.5739	10.726	696.68	1.4815
#1	1.3212	.22101	-1.6557	.02207	.00719	-.23142	.01939
#2	-2.9172	.25964	-1.6142	.02068	.00735	.30585	.01980
#3	.09968	.14378	8.8855	.01896	.00601	.04125	.01924
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01956**	**.01949**	**.01068**	**.01920**	**.02098**	**.05355**
Stddev	.00012	.00099	.00081	.00022	.00017	.01445
%RSD	.60309	5.0806	7.5631	1.1323	.81172	26.976
#1	.01953	.02058	.01036	.01910	.02090	.04878
#2	.01945	.01923	.01160	.01945	.02117	.06978
#3	.01969	.01865	.01008	.01905	.02086	.04210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50359.**	**55657.**
Stddev	284.	539.
%RSD	.56456	.96817
#1	50302.	55146.
#2	50108.	56220.
#3	50668.	55606.

Approved: March 29, 2011

Sample Name: ICSA Acquired: 3/28/2011 13:04:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**247.02**	**-.00341**	**.04620**	**.00098**	**-.00001**	**251.70**
Stddev	.00066	3.04	.00146	.00108	.00005	.00002	1.13
%RSD	87.096	1.2319	42.923	2.3420	4.8834	151.67	.44734
#1	-.00008	245.74	-.00382	.04619	.00094	-.00001	252.84
#2	-.00080	244.83	-.00179	.04513	.00103	-.00003	250.59
#3	-.00140	250.50	-.00463	.04729	.00097	.00000	251.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.00135**	**.00009**	**-.00160**	**.00018**	**97.449**	**.03225**	**.00587**
Stddev	.00009	.00010	.00021	.00052	.574	.02093	.00125
%RSD	6.5629	106.09	12.805	294.94	.58923	64.911	21.223
#1	.00132	.00004	-.00180	.00016	97.853	.01562	.00731
#2	.00144	.00020	-.00139	-.00034	96.791	.02537	.00519
#3	.00127	.00003	-.00162	.00070	97.702	.05576	.00512
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.00050						
Low Limit	-.00050						

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**257.89**	**-.00198**	**-.00091**	**.00067**	**-.00141**	F **-411.23**	F **-.01184**
Stddev	2.04	.00012	.00011	.00522	.00081	13.07	.00098
%RSD	.79005	6.2932	11.893	780.93	57.625	3.1770	8.3052
#1	259.28	-.00211	-.00083	-.00505	-.00228	-399.76	-.01133
#2	255.55	-.00186	-.00103	.00517	-.00067	-425.45	-.01121
#3	258.83	-.00197	-.00086	.00188	-.00129	-408.49	-.01297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						.50000	.00500
Low Limit						-.50000	-.00500

Approved: March 29, 2011

Sample Name: ICSA Acquired: 3/28/2011 13:04:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **5.8683**	F **230.85**	F **-31.572**	**-.00636**	**-.00316**	**.61026**	**.00050**
Stddev	6.0202	3.86	4.458	.00082	.00124	.14909	.00061
%RSD	102.59	1.6700	14.122	12.927	39.450	24.431	123.08
#1	8.7452	232.69	-30.724	-.00728	-.00421	.74875	.00062
#2	9.9104	226.42	-27.598	-.00568	-.00348	.45244	-.00017
#3	-1.0506	233.44	-36.393	-.00613	-.00178	.62958	.00104
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.04000	.04000	.04000				
Low Limit	-.04000	-.04000	-.04000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	**-.00953**	**.00120**	**-.00225**	**-.00632**	F **-7.0762**
Stddev	.00010	.00039	.00220	.00001	.00093	.2271
%RSD	10.567	4.1164	182.57	.46914	14.644	3.2086
#1	-.00107	-.00959	.00071	-.00224	-.00643	-6.8161
#2	-.00101	-.00911	.00361	-.00226	-.00535	-7.1777
#3	-.00086	-.00989	-.00070	-.00225	-.00719	-7.2348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46976.**	**55558.**
Stddev	482.	567.
%RSD	1.0257	1.0213
#1	46796.	55049.
#2	47522.	56170.
#3	46610.	55455.

Approved: March 29, 2011

Sample Name: ICSAB Acquired: 3/28/2011 13:08:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51125**	**252.68**	**.24061**	**.04428**	**.24237**	**.26086**	**252.66**
Stddev	.00460	3.36	.00299	.00060	.00082	.00173	1.69
%RSD	.89915	1.3297	1.2418	1.3533	.33694	.66438	.66863
#1	.51401	254.66	.24373	.04483	.24244	.26214	254.23
#2	.50594	248.80	.23778	.04364	.24153	.25889	250.87
#3	.51379	254.57	.24030	.04436	.24315	.26155	252.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44576**	**.23927**	**.24380**	**.24108**	**97.012**	**5.0432**	**.00575**
Stddev	.00511	.00300	.00202	.00254	.392	.0236	.00064
%RSD	1.1453	1.2529	.82869	1.0520	.40429	.46789	11.038
#1	.45042	.24211	.24534	.24365	97.233	5.0704	.00585
#2	.44030	.23613	.24151	.23858	96.559	5.0286	.00633
#3	.44656	.23957	.24455	.24100	97.245	5.0306	.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**255.84**	**.23567**	**-.00075**	**4.9814**	**.47656**	F **-426.04**	**.46148**
Stddev	.92	.00244	.00009	.0400	.00700	11.73	.00494
%RSD	.35970	1.0335	11.386	.80387	1.4698	2.7522	1.0698
#1	256.65	.23794	-.00069	5.0099	.48326	-421.00	.46542
#2	254.84	.23310	-.00071	4.9356	.46928	-417.68	.45594
#3	256.03	.23598	-.00085	4.9987	.47715	-439.44	.46308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.50000	
Low Limit						-.50000	

Approved: March 29, 2011

Sample Name: ICSAB Acquired: 3/28/2011 13:08:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.680**	F **236.25**	F **-45.548**	**.48839**	**.24102**	**.94351**	**.00005**
Stddev	6.407	3.76	8.036	.00820	.00846	.14761	.00017
%RSD	43.641	1.5927	17.643	1.6786	3.5091	15.644	364.38
#1	10.159	239.63	-40.569	.49506	.24648	1.1072	.00023
#2	11.870	232.20	-41.256	.47924	.23128	.82057	-.00011
#3	22.012	236.93	-54.818	.49086	.24530	.90275	.00002
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.60000	.60000	.60000				
Low Limit	.40000	.40000	.40000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00096**	**-.00916**	**.44548**	**.24861**	**.45583**	F **-7.4396**
Stddev	.00004	.00029	.00585	.00236	.00853	.1863
%RSD	4.1229	3.2019	1.3140	.94940	1.8716	2.5042
#1	-.00092	-.00936	.45119	.25099	.46369	-7.6461
#2	-.00100	-.00882	.43949	.24627	.44676	-7.3884
#3	-.00095	-.00930	.44577	.24857	.45703	-7.2842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47025.**	**58249.**
Stddev	461.	412.
%RSD	.97954	.70714
#1	46628.	57817.
#2	47530.	58638.
#3	46919.	58293.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 13:12:17 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39472**	**9.7868**	**.39066**	**.49426**	**.99892**	**.04928**	**10.028**
Stddev	.00869	.1437	.00940	.00919	.03094	.00094	.244
%RSD	2.2021	1.4687	2.4057	1.8603	3.0978	1.9126	2.4361
#1	.38496	9.6242	.37990	.48375	.97278	.04820	9.8878
#2	.40161	9.8969	.39730	.50082	1.0331	.04975	10.310
#3	.39760	9.8392	.39477	.49821	.99088	.04990	9.8868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04917**	**.19860**	**.49952**	**.49701**	**4.0542**	**49.497**	**.99493**
Stddev	.00111	.00520	.00965	.01364	.1059	1.500	.02701
%RSD	2.2484	2.6159	1.9320	2.7447	2.6118	3.0308	2.7146
#1	.04790	.19262	.48839	.48129	4.0188	48.166	.97042
#2	.04990	.20122	.50464	.50398	4.1732	51.122	1.0239
#3	.04970	.20197	.50553	.50576	3.9705	49.202	.99047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9949**	**.49933**	**.97599**	**49.568**	**.49631**	F **5.9393**	**.49662**
Stddev	.2812	.01520	.01954	1.405	.01207	21.702	.01228
%RSD	2.8134	3.0439	2.0023	2.8338	2.4314	365.39	2.4736
#1	9.9132	.48567	.95346	48.244	.48239	-9.6153	.48247
#2	10.308	.51571	.98827	51.041	.50286	-3.2980	.50286
#3	9.7636	.49663	.98625	49.420	.50370	30.731	.50453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 13:12:17 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **16.509**	**10.002**	F **21.016**	**1.1776**	**.38833**	**5.0653**	**.99305**
Stddev	12.401	.306	3.671	.0223	.00627	.5005	.02562
%RSD	75.116	3.0604	17.467	1.8900	1.6135	9.8804	2.5795
#1	5.1388	9.6490	18.397	1.1519	.38110	4.7135	.96351
#2	14.657	10.160	19.440	1.1895	.39171	5.6383	1.0065
#3	29.733	10.196	25.212	1.1914	.39217	4.8441	1.0091
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99479**	**.99475**	**.49898**	**.99268**	**.99252**	F **.85670**
Stddev	.02907	.02862	.01160	.01714	.02976	.23468
%RSD	2.9219	2.8767	2.3245	1.7270	2.9986	27.394
#1	.96816	.97206	.48576	.97309	.95816	.69329
#2	1.0258	1.0269	.50373	1.0049	1.0101	1.1256
#3	.99042	.98529	.50746	1.0000	1.0093	.75119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49037.**	**58099.**
Stddev	759.	1317.
%RSD	1.5480	2.2673
#1	49911.	58765.
#2	48547.	56582.
#3	48653.	58950.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 13:15:43 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.01184**	**-.00015**	**.00177**	**.00002**	**.00004**	**-.00607**
Stddev	.00042	.01594	.00071	.00023	.00002	.00002	.00178
%RSD	842.77	134.66	467.07	13.180	132.72	53.552	29.275
#1	-.00031	.00548	.00055	.00199	.00004	.00004	-.00591
#2	.00052	.02997	-.00088	.00180	.00001	.00006	-.00792
#3	-.00006	.00005	-.00013	.00153	.00000	.00002	-.00438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00004**	**.00028**	**-.00017**	**-.00046**	**.06857**	**-.00290**
Stddev	.00008	.00002	.00038	.00006	.00201	.02013	.00072
%RSD	323.61	47.815	136.72	33.050	435.21	29.355	24.857
#1	-.00004	.00003	.00019	-.00011	.00177	.09033	-.00296
#2	-.00001	.00003	.00070	-.00017	-.00214	.06476	-.00215
#3	.00012	.00006	-.00005	-.00022	-.00102	.05062	-.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**-.00012**	**.00027**	**.00571**	**.00022**	F **5.5985**	**.00030**
Stddev	.00814	.00039	.00035	.00232	.00045	6.8768	.00006
%RSD	795.38	330.67	132.14	40.626	203.20	122.83	21.327
#1	-.00799	.00033	.00002	.00327	-.00018	4.3453	.00027
#2	.00784	-.00029	.00011	.00788	.00013	13.016	.00037
#3	.00322	-.00040	.00067	.00599	.00071	-.56550	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 13:15:43 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.0217**	**-.01640**	**-.91991**	**-.00049**	**-.00077**	**-.15975**	**.00049**
Stddev	7.5947	.03194	4.0971	.00106	.00089	.11779	.00027
%RSD	84.183	194.74	445.38	215.64	115.53	73.731	55.160
#1	1.6213	-.02515	3.0397	-.00064	-.00149	-.05136	.00041
#2	16.797	-.04305	-5.1419	-.00148	.00023	-.14281	.00027
#3	8.6470	.01900	-.65750	.00064	-.00105	-.28510	.00079
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000						
Low Limit	-1.0000						

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00025**	**.00053**	**.00030**	**.00135**	**.04027**
Stddev	.00007	.00131	.00079	.00061	.00010	.14775
%RSD	222.85	519.31	148.98	201.16	7.2875	366.90
#1	-.00003	-.00166	.00067	-.00009	.00136	-.00468
#2	.00004	-.00002	-.00032	.00100	.00144	.20527
#3	-.00010	.00093	.00125	.00000	.00124	-.07978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49738.**	**57407.**
Stddev	1116.	203.
%RSD	2.2445	.35329
#1	48965.	57176.
#2	49232.	57484.
#3	51018.	57559.

Approved: March 29, 2011

Sample Name: PBS 94 Acquired: 3/28/2011 13:19:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.00103**	**-.00310**	**-.00119**	**.00120**	**.00000**	**.00692**
Stddev	.00048	.00128	.00194	.00049	.00011	.0000	.00581
%RSD	102.85	124.74	62.587	40.830	8.7919	1533.0	83.927
#1	-.00097	.00026	-.00441	-.00156	.00130	-.00002	.00626
#2	-.00001	-.00231	-.00403	-.00137	.00109	.00001	.01303
#3	-.00043	-.00104	-.00087	-.00064	.00120	.00001	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00035**	**.00103**	**-.00015**	**.02632**	**.17489**	**-.00291**
Stddev	.00009	.00014	.00006	.00018	.00044	.01962	.00049
%RSD	34.375	40.995	5.4199	115.83	1.6735	11.220	16.947
#1	.00024	-.00040	.00108	-.00035	.02661	.19747	-.00340
#2	.00038	-.00019	.00103	-.00010	.02581	.16514	-.00241
#3	.00020	-.00045	.00097	-.00001	.02653	.16204	-.00290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00099**	**.00016**	**.00007**	**.02384**	**.00069**	F **-47.144**	**.00124**
Stddev	.01642	.00024	.00014	.00122	.00060	5.267	.00029
%RSD	1664.6	156.32	194.21	5.1303	87.158	11.172	23.604
#1	.00050	-.00001	.00011	.02413	.00083	-41.451	.00091
#2	-.01810	.00043	-.00008	.02489	.00121	-51.842	.00148
#3	.01464	.00005	.00018	.02250	.00003	-48.139	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: PBS 94 Acquired: 3/28/2011 13:19:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.367**	**2.7818**	F **-496.43**	**-.00011**	**.00038**	**4.5599**	**.00023**
Stddev	3.099	.0367	8.29	.00041	.00110	.1181	.00027
%RSD	14.502	1.3190	1.6706	360.56	293.76	2.5897	117.61
#1	22.229	2.7399	-493.54	-.00053	-.00088	4.4261	-.00008
#2	17.928	2.8083	-489.98	.00029	.00082	4.6497	.00038
#3	23.942	2.7971	-505.79	-.00011	.00119	4.6038	.00039
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00097**	**-.00218**	**-.00023**	**.00449**	**.01008**
Stddev	.00009	.00058	.00047	.00006	.00136	.18505
%RSD	38.310	59.669	21.476	26.416	30.265	1836.2
#1	-.00019	.00049	-.00164	-.00025	.00374	-.04072
#2	-.00033	.00081	-.00237	-.00016	.00605	.21523
#3	-.00017	.00162	-.00251	-.00028	.00366	-.14427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47702.**	**56890.**
Stddev	136.	760.
%RSD	.28612	1.3366
#1	47774.	56013.
#2	47787.	57377.
#3	47545.	57278.

Approved: March 29, 2011

Sample Name: LCSS 94 Acquired: 3/28/2011 13:23:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19699**	**4.6189**	**.19168**	**.94124**	**.47956**	**.02500**	**4.7486**
Stddev	.00106	.0148	.00136	.00296	.00718	.00010	.0714
%RSD	.53640	.31951	.71090	.31454	1.4975	.39505	1.5028
#1	.19821	4.6215	.19134	.94005	.47136	.02501	4.6683
#2	.19645	4.6030	.19053	.93907	.48254	.02490	4.7725
#3	.19632	4.6322	.19318	.94461	.48477	.02510	4.8049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02468**	**.10263**	**.25387**	**.24974**	**1.9349**	**23.685**	**.47716**
Stddev	.00009	.00044	.00075	.00104	.0362	.357	.00653
%RSD	.35763	.42994	.29366	.41821	1.8693	1.5084	1.3680
#1	.02476	.10212	.25367	.24863	1.8937	23.280	.46969
#2	.02459	.10285	.25325	.24988	1.9496	23.821	.48003
#3	.02469	.10292	.25470	.25070	1.9613	23.954	.48177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.8066**	**.24018**	**.52186**	**24.445**	**.25552**	F **-36.609**	**.24707**
Stddev	.1071	.00453	.00351	.348	.00022	10.122	.00098
%RSD	2.2283	1.8851	.67329	1.4241	.08511	27.650	.39860
#1	4.6986	.23557	.51998	24.057	.25528	-28.271	.24662
#2	4.8083	.24036	.52591	24.546	.25558	-33.685	.24639
#3	4.9128	.24462	.51968	24.731	.25570	-47.872	.24820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: LCSS 94 Acquired: 3/28/2011 13:23:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.3721**	**5.2034**	F **-24.308**	**.57254**	**.18847**	F **650.18**	**.49403**
Stddev	9.5555	.0382	12.172	.00184	.00171	1.81	.00162
%RSD	149.96	.73473	50.075	.32192	.90789	.27766	.32727
#1	17.391	5.1621	-37.221	.57125	.18685	648.11	.49217
#2	1.3574	5.2375	-22.656	.57172	.19026	651.03	.49509
#3	.36783	5.2107	-13.046	.57465	.18829	651.41	.49483
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit			9.0000			90.000	
Low Limit			-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47849**	**.48129**	**.24401**	**.51831**	**.50349**	**.87464**
Stddev	.00652	.00697	.00114	.00089	.00051	.23834
%RSD	1.3627	1.4485	.46899	.17127	.10201	27.251
#1	.47116	.47398	.24270	.51917	.50319	.68532
#2	.48071	.48204	.24453	.51740	.50408	.79630
#3	.48362	.48786	.24480	.51836	.50319	1.1423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47264.**	**56625.**
Stddev	100.	474.
%RSD	.21098	.83651
#1	47150.	57141.
#2	47332.	56525.
#3	47311.	56210.

Approved: March 29, 2011

Sample Name: L1103061221 Acquired: 3/28/2011 13:26:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02164**	**145.44**	**.14780**	**.16691**	**1.6548**	**.00127**	**55.793**
Stddev	.00077	.56	.00039	.00115	.0169	.00001	.449
%RSD	3.5602	.38172	.26438	.69122	1.0219	1.0454	.80525
#1	.02077	145.69	.14736	.16698	1.6731	.00129	56.280
#2	.02223	145.83	.14793	.16803	1.6516	.00126	55.703
#3	.02191	144.80	.14811	.16572	1.6398	.00127	55.394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00517**	**.18525**	**.27413**	**.31558**	**331.56**	**19.104**	**.07013**
Stddev	.00014	.00026	.00072	.00072	2.61	.152	.00148
%RSD	2.6696	.13864	.26349	.22712	.78720	.79709	2.1113
#1	.00528	.18507	.27341	.31588	333.45	19.267	.07132
#2	.00502	.18515	.27485	.31610	332.66	19.082	.07060
#3	.00523	.18555	.27414	.31476	328.58	18.965	.06847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**75.617**	**6.3193**	**.01003**	**3.4970**	**.23110**	F **63920.**	**.06234**
Stddev	.475	.0568	.00005	.0121	.00056	92.	.00062
%RSD	.62754	.89898	.45037	.34687	.24067	.14343	.98968
#1	75.623	6.3665	.00999	3.5105	.23168	63965.	.06289
#2	76.089	6.3353	.01008	3.4933	.23107	63815.	.06167
#3	75.140	6.2562	.01002	3.4871	.23057	63981.	.06246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103061221 Acquired: 3/28/2011 13:26:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **42.673**	F **86.014**	F **-5748.5**	**-.00129**	**.00080**	F **804.61**	**.01031**
Stddev	4.255	.271	10.5	.00152	.00318	2.23	.00023
%RSD	9.9701	.31550	.18327	117.49	396.38	.27671	2.2201
#1	45.788	86.272	-5752.8	-.00075	.00185	804.71	.01025
#2	44.406	86.038	-5756.3	-.00012	-.00277	802.33	.01056
#3	37.826	85.731	-5736.5	-.00300	.00332	806.78	.01012
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47558**	**2.6695**	**.02629**	**.82616**	**.50888**	F **285.34**
Stddev	.00373	.0184	.00072	.00094	.00377	1.51
%RSD	.78334	.68732	2.7565	.11375	.74105	.52773
#1	.47966	2.6866	.02608	.82679	.51309	284.17
#2	.47470	2.6717	.02570	.82508	.50581	284.82
#3	.47237	2.6501	.02710	.82661	.50775	287.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48125.**	**59443.**
Stddev	67.	390.
%RSD	.13955	.65543
#1	48062.	59229.
#2	48196.	59208.
#3	48119.	59893.

Approved: March 29, 2011

Sample Name: L1103061222S Acquired: 3/28/2011 13:30:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23320**	**201.08**	**.33393**	**1.0032**	**2.4188**	**.01568**	**64.514**
Stddev	.00030	2.07	.00219	.0017	.0139	.00002	.285
%RSD	.12777	1.0305	.65497	.17087	.57316	.11447	.44227
#1	.23349	201.28	.33578	1.0033	2.4332	.01565	64.829
#2	.23290	203.05	.33448	1.0014	2.4175	.01568	64.273
#3	.23322	198.92	.33152	1.0048	2.4056	.01569	64.440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02737**	**.30064**	**.60024**	**.56851**	**413.40**	**42.292**	**.53518**
Stddev	.00008	.00050	.00319	.00189	3.27	.197	.00247
%RSD	.27443	.16536	.53208	.33234	.79131	.46634	.46159
#1	.02736	.30084	.59995	.57032	414.91	42.518	.53765
#2	.02745	.30101	.60358	.56867	409.65	42.157	.53519
#3	.02730	.30008	.59721	.56655	415.66	42.200	.53271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**87.583**	**6.7235**	**.45674**	**27.196**	**.49689**	F **59837.**	**.27420**
Stddev	.447	.0194	.00127	.123	.00075	105.	.00058
%RSD	.51094	.28850	.27909	.45105	.15096	.17538	.21222
#1	87.366	6.7293	.45530	27.324	.49766	59852.	.27435
#2	87.285	6.7019	.45773	27.079	.49687	59933.	.27356
#3	88.097	6.7393	.45719	27.186	.49616	59725.	.27469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103061222S Acquired: 3/28/2011 13:30:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **47.800**	F **109.08**	F **-8688.7**	**.50153**	**.16259**	F **1525.4**	**.43861**
Stddev	7.733	.34	21.7	.00173	.00249	3.2	.00249
%RSD	16.178	.30969	.24987	.34568	1.5337	.20979	.56666
#1	55.328	109.39	-8709.0	.50296	.16207	1522.1	.43626
#2	48.194	109.13	-8691.4	.50202	.16531	1528.5	.44121
#3	39.877	108.72	-8665.8	.49960	.16041	1525.6	.43836
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0013**	**7.4879**	**.24599**	**1.6282**	**1.0771**	F **352.60**
Stddev	.0052	.0263	.00213	.0040	.0021	.06
%RSD	.51827	.35191	.86679	.24818	.19726	.01767
#1	1.0072	7.5184	.24361	1.6241	1.0748	352.55
#2	.99758	7.4735	.24664	1.6322	1.0776	352.67
#3	.99902	7.4720	.24773	1.6283	1.0789	352.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47998.**	**60133.**
Stddev	98.	229.
%RSD	.20327	.38073
#1	47923.	59994.
#2	47963.	60397.
#3	48108.	60008.

Approved: March 29, 2011

Sample Name: L1103061223SD Acquired: 3/28/2011 13:33:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22575**	**185.71**	**.32799**	**.98947**	**2.2480**	**.01807**	**70.982**
Stddev	.00072	2.41	.00142	.00582	.0067	.00002	.169
%RSD	.31822	1.2954	.43174	.58855	.29847	.13224	.23807
#1	.22495	183.33	.32637	.98406	2.2462	.01806	70.807
#2	.22598	188.14	.32867	.98872	2.2423	.01805	70.994
#3	.22633	185.65	.32894	.99563	2.2554	.01810	71.144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02769**	**.30063**	**.54154**	**.56964**	**414.23**	**42.596**	**.51522**
Stddev	.00007	.00062	.00368	.00134	2.20	.141	.00288
%RSD	.25797	.20719	.68018	.23573	.53114	.33175	.55887
#1	.02773	.30000	.53807	.56813	415.90	42.462	.51325
#2	.02772	.30065	.54113	.57007	415.06	42.580	.51389
#3	.02761	.30124	.54541	.57071	411.74	42.744	.51852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**93.191**	**7.1919**	**.45947**	**27.278**	**.48618**	F **73582.**	**.27824**
Stddev	.384	.0138	.00086	.106	.00056	59.	.00027
%RSD	.41157	.19248	.18717	.38805	.11549	.08057	.09651
#1	92.750	7.1763	.45857	27.162	.48556	73514.	.27838
#2	93.380	7.2026	.46028	27.303	.48630	73623.	.27793
#3	93.443	7.1968	.45956	27.369	.48666	73610.	.27841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103061223SD Acquired: 3/28/2011 13:33:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359605-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **28.249**	F **103.04**	F **-6263.2**	**.49526**	**.16312**	F **1665.5**	**.44093**
Stddev	1.369	.14	24.5	.00297	.00055	4.7	.00197
%RSD	4.8472	.13947	.39194	.59936	.34021	.27971	.44658
#1	29.795	102.87	-6237.4	.49184	.16374	1660.1	.44153
#2	27.189	103.10	-6265.8	.49713	.16292	1668.2	.43872
#3	27.764	103.14	-6286.3	.49682	.16269	1668.1	.44252
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99896**	**6.3919**	**.24245**	**1.5679**	**1.0753**	F **333.48**
Stddev	.00288	.0162	.00282	.0095	.0016	3.12
%RSD	.28824	.25312	1.1626	.60410	.14612	.93525
#1	.99595	6.3770	.24005	1.5586	1.0735	330.51
#2	.99924	6.3896	.24174	1.5677	1.0764	333.21
#3	1.0017	6.4091	.24556	1.5775	1.0760	336.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47832.**	**58289.**
Stddev	59.	379.
%RSD	.12286	.65074
#1	47898.	57948.
#2	47809.	58221.
#3	47787.	58698.

Approved: March 29, 2011

Sample Name: L1103072101 Acquired: 3/28/2011 13:37:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.55072**	**.00361**	**.00390**	**.01046**	**.00001**	**156.39**
Stddev	.00068	.00127	.00046	.00045	.00009	.00001	1.45
%RSD	272.79	.23011	12.640	11.492	.83118	65.648	.92936
#1	-.00052	.54959	.00357	.00422	.01042	.00003	154.85
#2	.00078	.55049	.00408	.00409	.01057	.00001	156.59
#3	.00048	.55209	.00317	.00339	.01041	.00001	157.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00048**	**.00595**	**.01269**	**2.3761**	**.58067**	**.00059**
Stddev	.00005	.00009	.00019	.00014	.0118	.00245	.00082
%RSD	10.169	18.684	3.1178	1.0726	.49701	.42170	139.49
#1	.00047	.00056	.00612	.01282	2.3624	.57876	.00113
#2	.00057	.00038	.00576	.01255	2.3831	.58343	-.00036
#3	.00056	.00050	.00598	.01271	2.3827	.57982	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**70.012**	**1.2575**	**.00007**	**.20821**	**.00166**	**138.46**	**.01482**
Stddev	.186	.0076	.00022	.00189	.00016	3.34	.00130
%RSD	.26560	.60600	322.55	.90974	9.6142	2.4089	8.7690
#1	69.862	1.2507	.00024	.20627	.00151	141.57	.01351
#2	70.220	1.2559	.00014	.20829	.00164	138.87	.01611
#3	69.954	1.2657	-.00018	.21006	.00183	134.93	.01485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103072101 Acquired: 3/28/2011 13:37:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.6428**	F **204.17**	F **-7512.6**	**-.00250**	**-.00273**	**61.961**	**.00102**
Stddev	11.535	.28	28.5	.00028	.00182	.149	.00007
%RSD	150.92	.13872	.37967	11.075	66.841	.24071	7.0554
#1	.66974	204.20	-7485.1	-.00225	-.00473	62.099	.00094
#2	1.3017	204.44	-7510.6	-.00280	-.00230	61.982	.00107
#3	20.957	203.88	-7542.1	-.00245	-.00116	61.803	.00106
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06074**	**.01403**	**.00111**	**.00437**	**.19532**	**1.6248**
Stddev	.00073	.00025	.00071	.00004	.00137	.2460
%RSD	1.2096	1.8004	64.532	.90495	.70306	15.143
#1	.05990	.01379	.00182	.00438	.19515	1.6480
#2	.06113	.01430	.00039	.00440	.19678	1.8585
#3	.06120	.01401	.00111	.00433	.19405	1.3680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49632.**	**58449.**
Stddev	168.	129.
%RSD	.33936	.22038
#1	49802.	58597.
#2	49628.	58384.
#3	49465.	58366.

Approved: March 29, 2011

Sample Name: L1103072102 Acquired: 3/28/2011 13:40:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG359705-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.54908**	**.00268**	**.00235**	**.01004**	**.00003**	**167.02**
Stddev	.00131	.00669	.00027	.00035	.00012	.00000	1.01
%RSD	26039.	1.2190	10.122	15.057	1.2349	7.6474	.60741
#1	-.00007	.54262	.00291	.00247	.01003	.00003	167.34
#2	-.00127	.54864	.00274	.00263	.01017	.00003	167.84
#3	.00135	.55599	.00238	.00195	.00992	.00003	165.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00047**	**.00511**	**.01062**	**1.9017**	**.41430**	**.00160**
Stddev	.00005	.00006	.00040	.00020	.0176	.02722	.00092
%RSD	8.1039	13.159	7.9169	1.8999	.92318	6.5697	57.394
#1	.00052	.00054	.00506	.01083	1.8878	.44524	.00095
#2	.00061	.00047	.00553	.01043	1.9214	.40361	.00119
#3	.00060	.00041	.00473	.01059	1.8960	.39405	.00264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**73.196**	**.91198**	**-.00009**	**.13790**	**.00166**	**113.02**	**.01226**
Stddev	.751	.00748	.00011	.00066	.00033	13.15	.00069
%RSD	1.0263	.82053	119.75	.48145	19.617	11.634	5.6081
#1	73.464	.91573	-.00018	.13772	.00193	127.54	.01268
#2	73.776	.91684	-.00013	.13864	.00130	101.92	.01263
#3	72.347	.90336	.00003	.13735	.00174	109.59	.01147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103072102 Acquired: 3/28/2011 13:40:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG359705-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.3505**	F **208.74**	F **-6132.3**	**-.00233**	**-.00254**	**47.442**	**.00059**
Stddev	1.9345	1.90	49.2	.00121	.00184	.410	.00019
%RSD	36.154	.91066	.80282	51.764	72.205	.86334	32.725
#1	5.1119	207.23	-6099.5	-.00234	-.00221	47.406	.00079
#2	3.5464	208.11	-6108.4	-.00354	-.00089	47.052	.00057
#3	7.3932	210.88	-6188.9	-.00112	-.00452	47.869	.00041
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06370**	**.01151**	**.00163**	**.00459**	**.26788**	**1.3759**
Stddev	.00042	.00065	.00122	.00025	.00242	.2117
%RSD	.65707	5.6614	74.767	5.4257	.90286	15.387
#1	.06395	.01083	.00302	.00440	.26608	1.2465
#2	.06393	.01213	.00105	.00487	.26694	1.2609
#3	.06322	.01156	.00081	.00451	.27063	1.6202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48743.**	**57691.**
Stddev	240.	621.
%RSD	.49335	1.0757
#1	48954.	57488.
#2	48794.	57198.
#3	48482.	58388.

Approved: March 29, 2011

Sample Name: L1103072102PS Acquired: 3/28/2011 13:44:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG359705-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22217**	**5.7671**	**.22103**	**1.1043**	**.50302**	**.02659**	**169.56**
Stddev	.00178	.0385	.00122	.0056	.00274	.00012	.76
%RSD	.80160	.66786	.55182	.51048	.54526	.45550	.44718
#1	.22014	5.7262	.22147	1.0989	.50045	.02651	168.74
#2	.22348	5.7723	.21966	1.1102	.50271	.02673	169.70
#3	.22289	5.8028	.22197	1.1040	.50591	.02654	170.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02826**	**.10683**	**.26277**	**.27655**	**3.8371**	**25.813**	**.51075**
Stddev	.00024	.00029	.00105	.00064	.0218	.108	.00250
%RSD	.84989	.27526	.39949	.23253	.56869	.41825	.48995
#1	.02799	.10659	.26158	.27584	3.8202	25.691	.50851
#2	.02842	.10673	.26357	.27675	3.8295	25.854	.51029
#3	.02838	.10715	.26315	.27707	3.8618	25.894	.51345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**77.089**	**1.1273**	**.53119**	**26.310**	**.26656**	**110.74**	**.27822**
Stddev	.482	.0052	.00449	.130	.00140	12.32	.00321
%RSD	.62494	.46499	.84547	.49262	.52556	11.124	1.1530
#1	76.600	1.1216	.52625	26.161	.26520	124.60	.27558
#2	77.106	1.1284	.53229	26.392	.26647	101.05	.27728
#3	77.563	1.1319	.53503	26.378	.26800	106.57	.28179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103072102PS Acquired: 3/28/2011 13:44:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG359705-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.8403**	F **212.56**	F **-6229.0**	**.63864**	**.22382**	F **780.18**	**.00150**
Stddev	6.8413	.47	41.9	.00551	.00333	4.85	.00012
%RSD	87.258	.22232	.67240	.86269	1.4862	.62121	7.8108
#1	15.640	212.04	-6192.3	.63445	.22025	775.15	.00158
#2	5.0240	212.65	-6219.9	.63659	.22437	780.58	.00156
#3	2.8567	212.98	-6274.6	.64488	.22683	784.82	.00137
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.55728**	**.50981**	**.27049**	**.53572**	**.79093**	**3.5053**
Stddev	.00310	.00241	.00242	.00168	.00337	.0722
%RSD	.55551	.47312	.89573	.31452	.42596	2.0599
#1	.55383	.50751	.26770	.53377	.78711	3.4367
#2	.55820	.50959	.27177	.53677	.79349	3.4988
#3	.55981	.51232	.27202	.53661	.79219	3.5806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47893.**	**58171.**
Stddev	115.	332.
%RSD	.24082	.57157
#1	48026.	58543.
#2	47840.	58070.
#3	47814.	57901.

Approved: March 29, 2011

Sample Name: L1103072102SDL Acquired: 3/28/2011 13:47:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 250 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.10262**	**.00200**	**.00034**	**.00189**	**.00001**	**33.258**
Stddev	.00055	.00117	.00075	.00064	.00010	.00001	.016
%RSD	97.330	1.1444	37.420	187.01	5.3886	112.90	.04690
#1	.00007	.10159	.00134	.00025	.00192	.00000	33.262
#2	-.00088	.10238	.00282	-.00025	.00197	.00001	33.241
#3	-.00088	.10390	.00186	.00102	.00178	.00002	33.272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00035**	**.00094**	**.00179**	**.37909**	**.12899**	**-.00251**
Stddev	.00009	.00014	.00024	.00060	.01410	.00879	.00087
%RSD	1748.0	39.439	26.074	33.663	3.7195	6.8115	34.525
#1	-.00009	.00025	.00098	.00181	.39505	.13342	-.00229
#2	.00009	.00051	.00115	.00238	.36832	.11887	-.00347
#3	-.00002	.00029	.00067	.00118	.37389	.13468	-.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.656**	**.18598**	**-.00016**	**.02824**	**.00014**	**57.445**	**.00237**
Stddev	.008	.00123	.00018	.00677	.00031	11.563	.00090
%RSD	.05496	.65898	117.35	23.986	213.44	20.128	38.018
#1	14.647	.18672	-.00001	.03600	-.00014	62.187	.00306
#2	14.661	.18456	-.00036	.02349	.00047	65.884	.00135
#3	14.660	.18665	-.00010	.02523	.00011	44.266	.00271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103072102SDL Acquired: 3/28/2011 13:47:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 250 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.198**	F **43.595**	F **-1224.4**	**-.00307**	**-.00285**	**8.5100**	**-.00014**
Stddev	6.887	.104	3.9	.00019	.00124	.3660	.00021
%RSD	61.503	.23807	.32195	6.1438	43.585	4.3004	145.38
#1	17.511	43.700	-1220.4	-.00293	-.00401	8.1134	-.00038
#2	12.231	43.493	-1224.6	-.00301	-.00300	8.5820	-.00001
#3	3.8530	43.591	-1228.3	-.00328	-.00154	8.8347	-.00003
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01286**	**.00253**	**.00210**	**.00057**	**.05677**	**.16378**
Stddev	.00007	.00016	.00068	.00007	.00027	.13180
%RSD	.55636	6.1579	32.327	12.126	.47045	80.475
#1	.01292	.00248	.00184	.00050	.05671	.21308
#2	.01278	.00241	.00159	.00059	.05653	.01443
#3	.01286	.00271	.00287	.00064	.05706	.26383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49815.**	**59375.**
Stddev	107.	679.
%RSD	.21545	1.1429
#1	49937.	60146.
#2	49769.	59112.
#3	49738.	58868.

Approved: March 29, 2011

Sample Name: L1103072102SDL Acquired: 3/28/2011 13:51:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 1250 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01507**	**.00193**	**-.00113**	**.00015**	**.00002**	**7.5724**
Stddev	.00022	.00034	.00099	.00042	.00003	.00001	.0432
%RSD	345.52	2.2483	51.232	37.270	18.525	70.524	.57080
#1	-.00019	.01546	.00279	-.00094	.00017	.00003	7.6219
#2	.00019	.01482	.00216	-.00161	.00017	.00002	7.5530
#3	-.00020	.01495	.00085	-.00084	.00012	.00000	7.5422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00030**	**.00002**	**.00109**	**.04448**	**.09542**	**-.00344**
Stddev	.00007	.00015	.00009	.00018	.00351	.02264	.00056
%RSD	46.353	49.424	440.23	16.143	7.8811	23.722	16.267
#1	-.00018	.00028	.00005	.00094	.04770	.10988	-.00403
#2	-.00019	.00016	.00010	.00128	.04075	.06933	-.00291
#3	-.00007	.00045	-.00008	.00105	.04499	.10704	-.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.3520**	**.04239**	**-.00029**	**-.00058**	**.00009**	**61.317**	**.00155**
Stddev	.0385	.00047	.00005	.00033	.00037	5.557	.00099
%RSD	1.1478	1.1005	15.921	56.427	429.05	9.0621	63.833
#1	3.3904	.04244	-.00024	-.00083	.00003	55.688	.00165
#2	3.3135	.04189	-.00032	-.00069	.00048	61.464	.00249
#3	3.3522	.04282	-.00032	-.00021	-.00025	66.798	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103072102SDL Acquired: 3/28/2011 13:51:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 1250 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.125**	F **9.8990**	F **-275.36**	**-.00349**	**-.00371**	**.76119**	**-.00022**
Stddev	8.397	.1000	10.51	.00127	.00062	.28547	.00012
%RSD	75.475	1.0106	3.8177	36.478	16.657	37.504	53.944
#1	13.667	9.9190	-272.39	-.00473	-.00331	.81995	-.00032
#2	17.957	9.7905	-266.65	-.00353	-.00443	.45091	-.00009
#3	1.7511	9.9875	-287.03	-.00219	-.00341	1.0127	-.00026
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00271**	**.00042**	**.00202**	**-.00014**	**.01523**	**.35536**
Stddev	.00007	.00054	.00030	.00014	.00079	.23353
%RSD	2.7099	130.96	14.812	101.31	5.2179	65.716
#1	.00279	.00079	.00228	-.00004	.01501	.44621
#2	.00265	.00066	.00209	-.00030	.01457	.52981
#3	.00270	-.00021	.00169	-.00008	.01611	.09006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50366.**	**59050.**
Stddev	346.	218.
%RSD	.68672	.36991
#1	50372.	59280.
#2	50709.	59027.
#3	50018.	58845.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 13:55:13 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38481**	**9.3281**	**.39022**	**.47552**	**.95543**	**.04792**	**9.5732**
Stddev	.00786	.1646	.00386	.00829	.02362	.00080	.2534
%RSD	2.0424	1.7650	.98998	1.7435	2.4721	1.6717	2.6470
#1	.37596	9.1387	.38665	.46601	.93121	.04705	9.3287
#2	.38752	9.4095	.38970	.47932	.97840	.04807	9.8346
#3	.39095	9.4362	.39432	.48122	.95670	.04863	9.5564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04877**	**.19825**	**.48354**	**.49610**	**3.8778**	**47.850**	**.95222**
Stddev	.00044	.00161	.00731	.00349	.0990	1.254	.02472
%RSD	.90542	.81074	1.5127	.70416	2.5539	2.6204	2.5956
#1	.04828	.19677	.47561	.49307	3.7801	46.582	.92676
#2	.04891	.19803	.48498	.49532	3.9781	49.090	.97612
#3	.04912	.19996	.49003	.49992	3.8751	47.878	.95377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7768**	**.48418**	**.96646**	**48.057**	**.49431**	**9.4979**	**.49496**
Stddev	.2697	.01328	.00609	1.318	.00369	10.513	.00360
%RSD	2.7581	2.7427	.63053	2.7424	.74673	110.69	.72664
#1	9.5230	.47032	.96216	46.746	.49112	21.637	.49121
#2	10.060	.49680	.96379	49.382	.49347	3.5277	.49529
#3	9.7475	.48542	.97344	48.042	.49835	3.3294	.49838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 13:55:13 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-6.1933**	**10.083**	F **18.895**	**1.1627**	**.38298**	**4.8799**	**.98748**
Stddev	6.8845	.187	2.094	.0129	.00385	.0903	.00722
%RSD	111.16	1.8505	11.081	1.1132	1.0060	1.8499	.73142
#1	-1.8884	9.9144	20.180	1.1485	.37858	4.9802	.97919
#2	-14.133	10.050	16.479	1.1657	.38463	4.8053	.99238
#3	-2.5581	10.283	20.025	1.1739	.38574	4.8542	.99089
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	-10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95761**	**.95806**	**.49787**	**.96235**	**.99961**	**1.0619**
Stddev	.02651	.02614	.00697	.01594	.00686	.1039
%RSD	2.7684	2.7282	1.3990	1.6568	.68603	9.7791
#1	.93109	.93379	.48997	.94486	.99566	1.1535
#2	.98411	.98573	.50051	.96610	.99565	1.0832
#3	.95762	.95465	.50313	.97608	1.0075	.94911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49041.**	**55934.**
Stddev	126.	836.
%RSD	.25769	1.4954
#1	49098.	56423.
#2	49129.	54968.
#3	48896.	56410.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 13:58:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**.00746**	**-.00033**	**.00207**	**.00008**	**.00002**	**-.00533**
Stddev	.00063	.00140	.00055	.00068	.00010	.00001	.00928
%RSD	77.334	18.727	165.60	33.077	132.78	49.867	174.10
#1	-.00057	.00819	-.00003	.00128	.00012	.00001	.00423
#2	-.00154	.00585	-.00096	.00245	-.00004	.00001	-.01429
#3	-.00035	.00835	.00001	.00247	.00016	.00003	-.00593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00002**	**.00208**	**-.00007**	**.00340**	**.07493**	**-.00338**
Stddev	.00007	.00012	.00041	.00038	.00245	.02044	.00038
%RSD	5770.1	641.14	19.586	541.26	72.017	27.275	11.108
#1	-.00006	-.00008	.00174	.00033	.00076	.08655	-.00360
#2	.00007	.00012	.00196	-.00044	.00386	.05134	-.00294
#3	.00000	-.00010	.00253	-.00010	.00559	.08691	-.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01394**	**-.00018**	**.00018**	**-.00030**	**.00167**	F **12.549**	**.00009**
Stddev	.00299	.00029	.00018	.00577	.00008	4.872	.00047
%RSD	21.427	159.05	97.330	1927.7	4.6419	38.820	538.33
#1	-.01680	.00013	.00022	.00572	.00167	14.991	.00008
#2	-.01084	-.00043	.00033	-.00085	.00175	6.9395	.00057
#3	-.01418	-.00024	-.00001	-.00578	.00159	15.716	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 13:58:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-6.2553**	**.06904**	F **-2.4423**	**-.00189**	**-.00314**	**-.06300**	**.00001**
Stddev	3.1512	.04881	4.1082	.00052	.00035	.02947	.00017
%RSD	50.377	70.700	168.21	27.482	11.209	46.781	2979.9
#1	-4.4192	.03411	-6.5985	-.00129	-.00292	-.05463	.00018
#2	-4.4527	.04821	1.6161	-.00224	-.00355	-.09575	.00000
#3	-9.8939	.12482	-2.3447	-.00213	-.00296	-.03862	-.00016
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00004**	**.00075**	**-.00022**	**.00173**	**-.01993**
Stddev	.00003	.00042	.00162	.00015	.00034	.11184
%RSD	75.362	1039.5	214.56	70.263	19.862	561.29
#1	-.00007	.00045	-.00108	-.00017	.00210	-.02037
#2	-.00001	.00007	.00197	-.00009	.00142	-.13155
#3	-.00004	-.00040	.00138	-.00039	.00166	.09214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48713.**	**56213.**
Stddev	55.	617.
%RSD	.11213	1.0970
#1	48755.	56922.
#2	48732.	55798.
#3	48651.	55919.

Approved: March 29, 2011

Sample Name: LLCCV Acquired: 3/28/2011 14:02:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00782**	**.19208**	**.00710**	**.01125**	**.01892**	**.00099**	**.18648**
Stddev	.00023	.00042	.00143	.00020	.00006	.00001	.00634
%RSD	2.9536	.21755	20.099	1.7529	.32716	.78290	3.3972
#1	.00774	.19251	.00750	.01137	.01888	.00099	.18320
#2	.00764	.19167	.00552	.01136	.01890	.00098	.18246
#3	.00808	.19205	.00829	.01102	.01899	.00100	.19379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**.00430**	**.01091**	**.01007**	**.08255**	**1.0244**	**.01526**
Stddev	.00012	.00005	.00050	.00043	.00130	.0276	.00067
%RSD	13.117	1.1737	4.6157	4.3031	1.5703	2.6923	4.3785
#1	.00104	.00435	.01067	.00957	.08223	1.0140	.01484
#2	.00096	.00425	.01057	.01028	.08145	1.0035	.01492
#3	.00080	.00430	.01149	.01035	.08398	1.0556	.01603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18445**	**.00969**	**.01989**	**.95351**	**.01374**	**18.981**	**.00974**
Stddev	.00694	.00022	.00020	.00616	.00182	10.329	.00159
%RSD	3.7625	2.2798	1.0221	.64609	13.211	54.419	16.331
#1	.17988	.00955	.01990	.94672	.01179	27.060	.00891
#2	.19243	.00994	.01968	.95506	.01406	22.540	.00874
#3	.18103	.00957	.02009	.95875	.01538	7.3428	.01158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: LLCCV Acquired: 3/28/2011 14:02:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **15.747**	**.23702**	**5.5228**	**.02243**	**.00537**	**-.12813**	**.02043**
Stddev	3.095	.01805	4.7957	.00041	.00152	.04941	.00025
%RSD	19.652	7.6168	86.836	1.8113	28.348	38.560	1.2436
#1	19.243	.21684	10.399	.02289	.00657	-.15571	.02026
#2	13.359	.24257	5.3572	.02226	.00366	-.07109	.02072
#3	14.639	.25164	.81198	.02213	.00588	-.15759	.02031
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01934**	**.01977**	**.01068**	**.02001**	**.02182**	**.27718**
Stddev	.00009	.00025	.00101	.00024	.00064	.20843
%RSD	.48118	1.2516	9.4908	1.1776	2.9457	75.199
#1	.01924	.01960	.01037	.01975	.02174	.39118
#2	.01938	.01966	.00985	.02007	.02122	.40374
#3	.01942	.02005	.01181	.02021	.02250	.03661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49157.**	**57628.**
Stddev	127.	586.
%RSD	.25890	1.0166
#1	49010.	57278.
#2	49219.	57303.
#3	49241.	58305.

Approved: March 29, 2011

Sample Name: L1103046028 Acquired: 3/28/2011 14:06:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**11.927**	**.01743**	**.00965**	**.21848**	**.00148**	**519.12**
Stddev	.00046	.114	.00144	.00048	.00214	.00002	3.50
%RSD	71.813	.95914	8.2464	4.9313	.98130	1.0764	.67394
#1	.00025	11.800	.01750	.00935	.21631	.00150	517.37
#2	.00052	11.958	.01884	.01020	.21852	.00146	516.84
#3	.00114	12.023	.01597	.00941	.22060	.00148	523.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00218**	**.01209**	**.02036**	**.06165**	**8.3621**	**1.2699**	**.01335**
Stddev	.00014	.00015	.00148	.00162	.0811	.0215	.00041
%RSD	6.3179	1.2529	7.2515	2.6250	.96943	1.6890	3.0539
#1	.00207	.01200	.01874	.05995	8.2927	1.2697	.01367
#2	.00215	.01200	.02073	.06183	8.3425	1.2486	.01289
#3	.00234	.01226	.02162	.06317	8.4512	1.2915	.01349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.9699**	**2.1454**	**.00029**	**.07153**	**.01933**	F **7930.3**	**.11300**
Stddev	.0253	.0267	.00009	.00336	.00064	151.3	.00348
%RSD	.85190	1.2432	29.121	4.7031	3.2887	1.9076	3.0824
#1	2.9587	2.1185	.00020	.07013	.01999	7776.4	.11001
#2	2.9521	2.1458	.00036	.07537	.01928	7935.8	.11216
#3	2.9989	2.1718	.00032	.06910	.01872	8078.8	.11682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046028 Acquired: 3/28/2011 14:06:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-9.6025**	F **589.03**	F **-6095.0**	**-.00107**	**-.00021**	F **417.36**	**.00068**
Stddev	10.235	11.90	129.0	.00107	.00025	8.96	.00014
%RSD	106.58	2.0199	2.1169	99.739	117.44	2.1465	20.399
#1	-19.965	577.89	-5951.1	-.00111	-.00038	407.71	.00075
#2	.4996	587.63	-6133.8	.00002	.00007	418.94	.00052
#3	-9.3421	601.56	-6200.2	-.00212	-.00033	425.41	.00077
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11454**	**.11020**	**.00118**	**.03538**	**.04167**	**14.920**
Stddev	.00120	.00128	.00113	.00019	.00079	.119
%RSD	1.0520	1.1625	95.779	.52600	1.8859	.80069
#1	.11330	.11025	.00045	.03516	.04086	14.792
#2	.11461	.10890	.00248	.03550	.04171	14.940
#3	.11571	.11146	.00061	.03547	.04244	15.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47359.**	**55958.**
Stddev	75.	143.
%RSD	.15809	.25603
#1	47354.	55796.
#2	47286.	56012.
#3	47436.	56067.

Approved: March 29, 2011

Sample Name: L1103046029 Acquired: 3/28/2011 14:09:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG359714-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**8.4738**	**.02387**	**.01024**	**.29283**	**.00120**	**306.71**
Stddev	.00044	.0453	.00104	.00073	.00117	.00002	3.12
%RSD	44.711	.53499	4.3433	7.1293	.39794	1.3019	1.0158
#1	.00148	8.4591	.02312	.00948	.29267	.00119	309.27
#2	.00066	8.5247	.02505	.01031	.29176	.00122	303.24
#3	.00080	8.4377	.02343	.01094	.29407	.00120	307.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00361**	**.01195**	**.01334**	**.32772**	**9.1801**	**2.9572**	**.00929**
Stddev	.00014	.00016	.00033	.00282	.0520	.0281	.00092
%RSD	3.8634	1.3398	2.4950	.85920	.56649	.94917	9.8956
#1	.00345	.01179	.01370	.32520	9.1812	2.9747	.00823
#2	.00366	.01195	.01328	.32721	9.1275	2.9248	.00983
#3	.00371	.01211	.01305	.33076	9.2315	2.9719	.00980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.3217**	**2.5051**	**.00046**	**.04465**	**.01177**	F **6385.5**	**.20009**
Stddev	.0220	.0194	.00024	.00419	.00043	62.4	.00088
%RSD	.50854	.77271	51.009	9.3765	3.6336	.97709	.43756
#1	4.3126	2.5215	.00068	.04064	.01211	6316.3	.19986
#2	4.3058	2.4838	.00021	.04431	.01129	6403.0	.19935
#3	4.3468	2.5100	.00050	.04899	.01192	6437.3	.20105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046029 Acquired: 3/28/2011 14:09:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG359714-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.66531**	F **361.07**	F **-6204.6**	**.00049**	**-.00071**	F **335.07**	**.00321**
Stddev	6.1247	2.37	46.3	.00074	.00200	3.86	.00012
%RSD	920.57	.65762	.74618	151.42	280.52	1.1520	3.7691
#1	6.0706	358.40	-6158.8	.00132	-.00025	331.35	.00309
#2	-2.1672	361.86	-6203.7	-.00007	.00101	334.79	.00333
#3	-5.8993	362.95	-6251.4	.00021	-.00291	339.06	.00321
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09658**	**.10428**	**.00171**	**.02754**	**.11813**	**10.225**
Stddev	.00014	.00073	.00066	.00020	.00048	.108
%RSD	.14160	.69541	38.255	.72987	.40772	1.0513
#1	.09656	.10344	.00163	.02732	.11778	10.236
#2	.09645	.10463	.00240	.02757	.11868	10.326
#3	.09672	.10476	.00110	.02772	.11793	10.112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47440.**	**57346.**
Stddev	27.	312.
%RSD	.05757	.54455
#1	47454.	57034.
#2	47457.	57659.
#3	47408.	57344.

Approved: March 29, 2011

Sample Name: L1103046030S Acquired: 3/28/2011 14:13:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG359714-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04532**	**8.8492**	**.07059**	**.01038**	**.28624**	**.00127**	**304.57**
Stddev	.00137	.1774	.00254	.00037	.00468	.00005	4.19
%RSD	3.0175	2.0042	3.5918	3.5911	1.6338	4.0233	1.3759
#1	.04440	8.6840	.06772	.01000	.28143	.00122	300.04
#2	.04467	8.8270	.07153	.01041	.28653	.00128	305.36
#3	.04689	9.0366	.07252	.01074	.29077	.00132	308.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00973**	**.01284**	**.01399**	**.39619**	**9.6033**	**3.1318**	**.00691**
Stddev	.00034	.00023	.00007	.01210	.1625	.0645	.00059
%RSD	3.4700	1.7828	.51576	3.0530	1.6924	2.0612	8.5431
#1	.00942	.01269	.01402	.38464	9.4403	3.0817	.00653
#2	.00968	.01273	.01405	.39516	9.6042	3.1090	.00759
#3	.01009	.01311	.01391	.40877	9.7654	3.2046	.00661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.2004**	**2.4943**	**.00049**	**.04030**	**.01341**	F **6693.9**	**.26044**
Stddev	.0620	.0455	.00017	.00383	.00073	210.5	.00704
%RSD	1.4750	1.8244	35.201	9.4957	5.4805	3.1443	2.7021
#1	4.1422	2.4464	.00046	.04091	.01359	6504.7	.25361
#2	4.1935	2.4994	.00033	.03620	.01260	6656.4	.26004
#3	4.2655	2.5370	.00067	.04378	.01403	6920.6	.26766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046030S Acquired: 3/28/2011 14:13:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG359714-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.3132**	F **384.89**	F **-6407.8**	**.00062**	**-.00261**	F **303.85**	**.00327**
Stddev	14.300	11.90	184.9	.00136	.00144	9.36	.00029
%RSD	431.62	3.0908	2.8850	218.70	55.134	3.0816	8.9777
#1	19.761	373.43	-6239.8	-.00094	-.00427	294.96	.00299
#2	-6.1800	384.06	-6377.6	.00149	-.00179	302.96	.00357
#3	-3.6411	397.18	-6605.8	.00132	-.00177	313.62	.00325
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09702**	**.09953**	**.00087**	**.02918**	**.12706**	**10.528**
Stddev	.00182	.00263	.00079	.00035	.00378	.329
%RSD	1.8759	2.6443	90.809	1.2091	2.9759	3.1224
#1	.09529	.09700	.00176	.02884	.12420	10.199
#2	.09684	.09935	.00058	.02915	.12564	10.529
#3	.09892	.10225	.00026	.02954	.13135	10.856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47286.**	**56826.**
Stddev	257.	138.
%RSD	.54288	.24299
#1	47464.	56970.
#2	47401.	56815.
#3	46991.	56694.

Approved: March 29, 2011

Sample Name: L1103046031SD Acquired: 3/28/2011 14:16:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG359714-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04664**	**9.2996**	**.07079**	**.01143**	**.29655**	**.00132**	**321.71**
Stddev	.00096	.1553	.00101	.00028	.00346	.00003	2.97
%RSD	2.0481	1.6695	1.4234	2.4763	1.1678	2.1180	.92167
#1	.04573	9.1434	.07176	.01171	.29359	.00130	324.51
#2	.04655	9.3016	.06975	.01115	.29569	.00135	318.60
#3	.04763	9.4539	.07087	.01143	.30036	.00131	322.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00982**	**.01282**	**.01491**	**.40908**	**10.214**	**3.2661**	**.00873**
Stddev	.00029	.00015	.00028	.00602	.104	.0324	.00025
%RSD	2.9980	1.1952	1.8557	1.4726	1.0151	.99143	2.9014
#1	.00950	.01266	.01509	.40245	10.117	3.2299	.00851
#2	.00987	.01283	.01460	.41058	10.201	3.2762	.00901
#3	.01008	.01296	.01506	.41422	10.323	3.2923	.00868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.5860**	**2.6581**	**.00058**	**.04074**	**.01385**	F **6765.2**	**.26200**
Stddev	.0457	.0155	.00015	.00336	.00013	105.3	.00421
%RSD	.99637	.58482	25.945	8.2372	.97275	1.5560	1.6067
#1	4.5414	2.6432	.00048	.04197	.01371	6666.1	.25777
#2	4.5837	2.6568	.00050	.04331	.01398	6753.8	.26206
#3	4.6327	2.6742	.00075	.03694	.01386	6875.7	.26618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046031SD Acquired: 3/28/2011 14:16:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG359714-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.5854**	F **381.30**	F **-6477.2**	**.00124**	**.00033**	F **326.26**	**.00281**
Stddev	12.911	5.17	97.7	.00132	.00186	5.64	.00006
%RSD	196.06	1.3547	1.5085	106.87	569.96	1.7276	2.2182
#1	1.6608	376.21	-6390.3	.00257	-.00065	320.22	.00274
#2	21.234	381.14	-6458.4	-.00008	-.00085	327.18	.00287
#3	-3.1389	386.54	-6582.9	.00122	.00248	331.38	.00281
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10262**	**.10681**	**.00053**	**.02986**	**.14105**	**10.449**
Stddev	.00129	.00159	.00056	.00017	.00197	.277
%RSD	1.2602	1.4872	107.48	.57415	1.3994	2.6503
#1	.10120	.10528	.00054	.02968	.13947	10.386
#2	.10292	.10670	-.00005	.02986	.14043	10.209
#3	.10373	.10845	.00108	.03002	.14326	10.752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47182.**	**56310.**
Stddev	190.	301.
%RSD	.40244	.53488
#1	47353.	56070.
#2	47216.	56213.
#3	46978.	56648.

Approved: March 29, 2011

Sample Name: L1103046041 Acquired: 3/28/2011 14:20:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00123**	**8.7270**	**.02012**	**.00744**	**.26748**	**.00115**	**323.34**
Stddev	.00080	.0178	.00173	.00026	.00231	.00002	35.85
%RSD	65.311	.20351	8.5878	3.4780	.86176	1.6645	11.087
#1	.00081	8.7071	.01879	.00767	.26682	.00113	321.57
#2	.00072	8.7411	.01949	.00749	.26558	.00116	288.41
#3	.00216	8.7328	.02207	.00716	.27004	.00115	360.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00226**	**.01177**	**.01229**	**.15526**	**9.5636**	**1.2008**	**.01049**
Stddev	.00006	.00020	.00023	.00047	.1203	.0372	.00055
%RSD	2.5940	1.6747	1.8762	.30439	1.2575	3.0975	5.2124
#1	.00227	.01181	.01209	.15474	9.5243	1.1933	.00988
#2	.00220	.01194	.01254	.15539	9.4680	1.1679	.01093
#3	.00231	.01155	.01223	.15566	9.6987	1.2412	.01065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.5762**	**2.2380**	**.00007**	**.07673**	**.01293**	F **4763.6**	**.14045**
Stddev	.0371	.0244	.00016	.00609	.00044	28.1	.00069
%RSD	1.4417	1.0898	241.92	7.9421	3.3648	.58896	.48954
#1	2.5686	2.2281	.00004	.08203	.01253	4735.9	.13971
#2	2.5434	2.2202	-.00008	.07007	.01339	4762.8	.14106
#3	2.6165	2.2658	.00024	.07809	.01288	4792.0	.14057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046041 Acquired: 3/28/2011 14:20:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **13.097**	F **370.88**	F **-3528.8**	**.00010**	**-.00180**	F **261.91**	**.00310**
Stddev	6.746	.68	21.3	.00128	.00184	2.53	.00031
%RSD	51.510	.18343	.60415	1268.0	101.96	.96706	9.8507
#1	20.442	371.33	-3509.0	.00156	-.00340	259.11	.00335
#2	11.671	370.10	-3525.9	-.00040	.00020	262.57	.00319
#3	7.1773	371.23	-3551.4	-.00085	-.00221	264.04	.00276
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09351**	**.09686**	**.00114**	**.03323**	**.05809**	**12.725**
Stddev	.00071	.00167	.00072	.00054	.00026	.092
%RSD	.75444	1.7248	62.924	1.6341	.44536	.72288
#1	.09323	.09646	.00116	.03368	.05782	12.672
#2	.09431	.09543	.00184	.03340	.05811	12.831
#3	.09298	.09870	.00041	.03263	.05834	12.671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47723.**	**57383.**
Stddev	196.	633.
%RSD	.41100	1.1034
#1	47496.	57704.
#2	47828.	57791.
#3	47844.	56653.

Approved: March 29, 2011

Sample Name: L1103046042 Acquired: 3/28/2011 14:24:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**13.180**	**.02322**	**.00980**	**.25782**	**.00154**	**497.77**
Stddev	.00070	.279	.00051	.00051	.00152	.00000	11.75
%RSD	76.177	2.1169	2.1876	5.2433	.58997	.26373	2.3599
#1	.00134	12.878	.02358	.01000	.25615	.00154	485.47
#2	.00011	13.428	.02343	.01019	.25821	.00154	498.99
#3	.00129	13.234	.02264	.00922	.25911	.00154	508.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00257**	**.01352**	**.01606**	**.11084**	**11.478**	**1.2710**	**.01370**
Stddev	.00009	.00024	.00016	.00164	.052	.0210	.00072
%RSD	3.5822	1.7815	1.0065	1.4818	.45143	1.6549	5.2859
#1	.00255	.01331	.01588	.10972	11.433	1.2468	.01323
#2	.00267	.01378	.01618	.11273	11.467	1.2854	.01453
#3	.00249	.01346	.01612	.11007	11.535	1.2806	.01332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.8201**	**2.2294**	**.00011**	**.12328**	**.01771**	F **7696.1**	**.12506**
Stddev	.0228	.0055	.00009	.00560	.00070	118.2	.00301
%RSD	.80999	.24577	83.433	4.5446	3.9811	1.5353	2.4028
#1	2.8425	2.2305	.00010	.11873	.01723	7604.1	.12296
#2	2.7968	2.2235	.00021	.12954	.01852	7829.4	.12851
#3	2.8210	2.2343	.00002	.12157	.01737	7654.9	.12372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046042 Acquired: 3/28/2011 14:24:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.603**	F **546.09**	F **-6554.4**	**.00043**	**-.00070**	F **355.99**	**.00130**
Stddev	2.393	6.86	87.4	.00050	.00058	6.59	.00013
%RSD	16.384	1.2560	1.3330	114.96	83.177	1.8512	9.8118
#1	17.003	540.75	-6497.9	-.00010	-.00003	351.36	.00132
#2	12.218	553.83	-6655.0	.00051	-.00095	363.53	.00141
#3	14.588	543.69	-6510.1	.00089	-.00112	353.07	.00116
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11029**	**.13153**	**.00189**	**.05342**	**.04216**	**16.554**
Stddev	.00037	.00159	.00086	.00129	.00041	.325
%RSD	.33336	1.2126	45.334	2.4097	.97873	1.9651
#1	.11040	.12975	.00160	.05204	.04215	16.191
#2	.10988	.13201	.00285	.05458	.04258	16.819
#3	.11060	.13283	.00121	.05364	.04175	16.653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46712.**	**57025.**
Stddev	411.	514.
%RSD	.87907	.90161
#1	46832.	56441.
#2	46255.	57224.
#3	47049.	57410.

Approved: March 29, 2011

Sample Name: L1103046043 Acquired: 3/28/2011 14:27:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**8.8360**	**.02272**	**.00712**	**.24909**	**.00117**	**575.37**
Stddev	.00071	.1556	.00056	.00063	.00046	.00002	29.97
%RSD	86.004	1.7615	2.4465	8.7812	.18379	2.0818	5.2092
#1	.00052	8.6619	.02332	.00651	.24914	.00115	597.09
#2	.00163	8.8842	.02260	.00776	.24861	.00118	587.85
#3	.00032	8.9618	.02223	.00709	.24952	.00119	541.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00250**	**.01129**	**.01124**	**.13690**	**8.5498**	**1.2540**	**.01721**
Stddev	.00009	.00039	.00061	.00340	.0129	.0281	.00019
%RSD	3.6968	3.4222	5.4079	2.4849	.15063	2.2426	1.1140
#1	.00242	.01084	.01054	.13315	8.5635	1.2359	.01739
#2	.00247	.01150	.01169	.13776	8.5380	1.2864	.01723
#3	.00260	.01152	.01148	.13979	8.5479	1.2397	.01701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.7160**	**1.8189**	**.00023**	**.15593**	**.01279**	F **5124.6**	**.12827**
Stddev	.0194	.0020	.00017	.00326	.00031	86.7	.00182
%RSD	.52301	.11182	76.097	2.0877	2.4488	1.6912	1.4193
#1	3.7383	1.8212	.00036	.15704	.01280	5029.9	.12673
#2	3.7070	1.8173	.00029	.15849	.01248	5143.9	.13028
#3	3.7026	1.8183	.00003	.15226	.01310	5200.0	.12779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046043 Acquired: 3/28/2011 14:27:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.782**	F **653.28**	F **-6651.3**	**.00156**	**.00040**	F **252.12**	**.00108**
Stddev	9.865	14.95	149.2	.00141	.00139	5.41	.00058
%RSD	45.291	2.2878	2.2427	90.378	348.40	2.1463	53.588
#1	18.533	637.17	-6490.9	.00030	-.00093	246.31	.00108
#2	13.950	655.97	-6677.3	.00130	.00028	253.02	.00050
#3	32.861	666.70	-6785.8	.00309	.00185	257.02	.00166
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.09150**	**.00143**	**.04319**	**.05615**	**13.483**
Stddev	-----	.00023	.00050	.00048	.00154	.456
%RSD	-----	.25585	34.630	1.1073	2.7347	3.3821
#1	.11208	.09135	.00182	.04271	.05451	12.986
#2	.11315	.09177	.00159	.04366	.05755	13.581
#3	^ -----	.09138	.00087	.04321	.05638	13.882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46294.**	**58138.**
Stddev	409.	347.
%RSD	.88310	.59767
#1	46763.	57921.
#2	46107.	57955.
#3	46012.	58539.

Approved: March 29, 2011

Sample Name: L1103046044 Acquired: 3/28/2011 14:31:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**9.8256**	**.02144**	**.00805**	**.23749**	**.00140**	**737.99**
Stddev	.00055	.0616	.00066	.00041	.00292	.00002	30.31
%RSD	63.063	.62697	3.0964	5.0522	1.2291	1.5601	4.1066
#1	.00026	9.7839	.02216	.00845	.23433	.00138	753.20
#2	.00104	9.8963	.02131	.00764	.24009	.00139	703.09
#3	.00133	9.7966	.02085	.00807	.23805	.00142	757.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.01284**	**.01499**	**.06011**	**8.4020**	**1.0429**	**.02506**
Stddev	.00005	.00016	.00017	.00153	.1138	.0044	.00163
%RSD	2.6198	1.2328	1.1168	2.5496	1.3547	.41782	6.5066
#1	.00201	.01280	.01491	.05915	8.2818	1.0463	.02346
#2	.00212	.01302	.01489	.06188	8.5082	1.0444	.02500
#3	.00208	.01271	.01519	.05930	8.4159	1.0380	.02672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.4329**	**1.6459**	**.00010**	**.20014**	**.01634**	F **5742.0**	**.09387**
Stddev	.0560	.0146	.00022	.00608	.00039	107.0	.00179
%RSD	1.6300	.88741	225.33	3.0369	2.3634	1.8638	1.9116
#1	3.3683	1.6317	.00011	.19314	.01664	5739.3	.09242
#2	3.4659	1.6609	.00030	.20317	.01647	5850.3	.09588
#3	3.4646	1.6451	-.00013	.20411	.01590	5636.3	.09331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046044 Acquired: 3/28/2011 14:31:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.882**	F **823.70**	F **-7580.2**	**.00213**	**-.00150**	F **294.77**	**.00091**
Stddev	11.027	12.49	133.3	.00026	.00262	5.64	.00023
%RSD	92.804	1.5167	1.7588	12.014	174.24	1.9151	25.459
#1	20.830	822.95	-7581.0	.00193	.00145	294.34	.00089
#2	-.43715	836.55	-7713.2	.00205	-.00355	300.62	.00068
#3	15.254	811.60	-7446.5	.00242	-.00241	289.36	.00114
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13390**	**.10038**	**.00144**	**.05309**	**.02557**	**15.619**
Stddev	.00306	.00164	.00118	.00053	.00068	.075
%RSD	2.2835	1.6338	81.935	1.0034	2.6671	.48281
#1	.13102	.09849	.00183	.05249	.02518	15.608
#2	.13711	.10142	.00011	.05349	.02635	15.700
#3	.13356	.10122	.00237	.05329	.02516	15.550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46117.**	**57604.**
Stddev	685.	183.
%RSD	1.4853	.31813
#1	45812.	57670.
#2	45637.	57397.
#3	46901.	57745.

Approved: March 29, 2011

Sample Name: L1103046045 Acquired: 3/28/2011 14:34:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**13.022**	**.02677**	**.00879**	**.26111**	**.00157**	**348.76**
Stddev	.00023	.130	.00183	.00036	.00142	.00001	38.51
%RSD	28.096	.99772	6.8284	4.1115	.54236	.81732	11.041
#1	.00058	12.907	.02472	.00885	.26262	.00156	368.27
#2	.00104	12.998	.02735	.00840	.25981	.00158	304.40
#3	.00084	13.163	.02824	.00912	.26090	.00158	373.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00288**	**.01382**	**.01629**	**.16140**	**10.360**	**1.7187**	**.01064**
Stddev	.00007	.00041	.00019	.00371	.049	.0098	.00099
%RSD	2.4984	2.9664	1.1725	2.2970	.46843	.57173	9.2962
#1	.00296	.01349	.01615	.15871	10.399	1.7261	.01173
#2	.00282	.01368	.01651	.15987	10.306	1.7075	.01039
#3	.00286	.01427	.01623	.16563	10.375	1.7223	.00980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.6968**	**2.0573**	**.00012**	**.06031**	**.01728**	F **7591.2**	**.13992**
Stddev	.0156	.0114	.00010	.00098	.00039	182.2	.00345
%RSD	.57963	.55459	87.553	1.6291	2.2437	2.4000	2.4628
#1	2.6968	2.0683	.00014	.06060	.01734	7461.0	.13622
#2	2.6812	2.0455	.00021	.06111	.01687	7513.2	.14049
#3	2.7124	2.0580	.00000	.05921	.01763	7799.4	.14304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046045 Acquired: 3/28/2011 14:34:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **17.530**	F **460.22**	F **-6455.0**	**.00040**	**.00015**	F **366.48**	**.00179**
Stddev	9.835	10.16	166.7	.00149	.00244	9.45	.00010
%RSD	56.107	2.2072	2.5822	370.19	1638.2	2.5782	5.4337
#1	26.406	451.54	-6339.0	.00065	-.00002	360.08	.00188
#2	19.227	457.73	-6379.9	.00175	.00267	362.04	.00169
#3	6.9561	471.39	-6646.0	-.00120	-.00220	377.34	.00181
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08741**	**.12457**	**.00168**	**.04536**	**.06931**	**15.605**
Stddev	.00154	.00110	.00148	.00041	.00082	.037
%RSD	1.7640	.88428	87.876	.91139	1.1844	.23474
#1	.08676	.12582	.00273	.04489	.06897	15.567
#2	.08917	.12372	.00233	.04550	.06872	15.640
#3	.08630	.12418	-.00001	.04569	.07025	15.608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46560.**	**58932.**
Stddev	273.	599.
%RSD	.58646	1.0170
#1	46327.	58249.
#2	46860.	59176.
#3	46492.	59371.

Approved: March 29, 2011

Sample Name: L1103046046 Acquired: 3/28/2011 14:38:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00195**	**18.192**	**.02645**	**.00914**	**.27574**	**.00189**	**316.18**
Stddev	.00056	.189	.00047	.00028	.00123	.00003	1.30
%RSD	28.881	1.0365	1.7713	3.0804	.44508	1.4451	.41248
#1	.00241	17.982	.02620	.00931	.27433	.00186	316.29
#2	.00211	18.246	.02616	.00929	.27635	.00188	317.43
#3	.00132	18.347	.02699	.00881	.27654	.00191	314.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00242**	**.01528**	**.02045**	**.09391**	**14.842**	**1.6165**	**.00952**
Stddev	.00003	.00015	.00056	.00105	.076	.0234	.00016
%RSD	1.3092	.95240	2.7318	1.1182	.51236	1.4481	1.7201
#1	.00239	.01511	.02056	.09313	14.759	1.6025	.00954
#2	.00245	.01538	.01984	.09351	14.860	1.6435	.00934
#3	.00241	.01535	.02094	.09511	14.908	1.6035	.00967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0793**	**1.7207**	**.00017**	**.06080**	**.01947**	F **7614.8**	**.11819**
Stddev	.0241	.0174	.00013	.00393	.00021	62.8	.00081
%RSD	1.1577	1.0129	80.185	6.4615	1.0812	.82408	.68470
#1	2.0523	1.7019	.00002	.06037	.01923	7576.8	.11785
#2	2.0869	1.7238	.00020	.05710	.01957	7580.3	.11760
#3	2.0986	1.7363	.00028	.06492	.01961	7687.2	.11911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046046 Acquired: 3/28/2011 14:38:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **24.842**	F **378.92**	F **-6142.6**	**.00070**	**-.00046**	F **394.71**	**.00109**
Stddev	7.480	2.85	55.7	.00152	.00065	4.09	.00014
%RSD	30.109	.75252	.90756	217.28	140.50	1.0353	13.009
#1	29.456	376.39	-6118.0	.00042	-.00016	391.61	.00092
#2	28.858	378.37	-6103.4	-.00066	-.00121	393.19	.00117
#3	16.212	382.01	-6206.4	.00234	-.00002	399.34	.00117
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06120**	**.18820**	**.00242**	**.06315**	**.03568**	**22.803**
Stddev	.00082	.00130	.00131	.00057	.00035	.228
%RSD	1.3323	.69278	54.044	.90061	.97102	1.0010
#1	.06028	.18766	.00215	.06263	.03608	22.540
#2	.06148	.18726	.00126	.06306	.03546	22.945
#3	.06183	.18969	.00383	.06376	.03550	22.924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47381.**	**60290.**
Stddev	74.	155.
%RSD	.15709	.25688
#1	47316.	60332.
#2	47462.	60420.
#3	47364.	60119.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 14:42:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41010**	**9.9134**	**.40732**	**.50165**	**.96461**	**.05001**	**9.5508**
Stddev	.00213	.0541	.00075	.00370	.02415	.00028	.2475
%RSD	.51833	.54572	.18515	.73669	2.5032	.56564	2.5911
#1	.40973	9.8776	.40679	.49947	.97423	.04982	9.6788
#2	.40818	9.8870	.40818	.49956	.98246	.04988	9.7080
#3	.41238	9.9757	.40700	.50592	.93713	.05034	9.2655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05069**	**.20564**	**.50116**	**.51571**	**3.8258**	**47.746**	**.96652**
Stddev	.00015	.00063	.00240	.00187	.0977	1.272	.02499
%RSD	.30440	.30622	.47972	.36195	2.5546	2.6647	2.5858
#1	.05059	.20495	.49901	.51430	3.8850	48.294	.97645
#2	.05086	.20619	.50072	.51782	3.8794	48.653	.98503
#3	.05060	.20577	.50375	.51500	3.7130	46.292	.93809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.4606**	**.47196**	**.99759**	**48.112**	**.51073**	F **7.7023**	**.50727**
Stddev	.2960	.01177	.00592	1.332	.00193	14.057	.00521
%RSD	3.1285	2.4930	.59336	2.7685	.37759	182.50	1.0264
#1	9.6247	.47897	.99869	48.756	.51006	20.480	.50257
#2	9.6381	.47853	1.0029	48.998	.51290	9.9822	.51287
#3	9.1189	.45837	.99120	46.580	.50923	-7.3549	.50638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 14:42:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **20.628**	**10.275**	F **14.627**	**1.2055**	**.39410**	**5.1138**	**1.0148**
Stddev	7.056	.098	8.768	.0075	.00501	.1579	.0057
%RSD	34.207	.95487	59.942	.62565	1.2701	3.0885	.56536
#1	13.244	10.168	21.681	1.2045	.39353	5.0623	1.0093
#2	27.303	10.296	17.389	1.2135	.39937	5.2911	1.0207
#3	21.336	10.361	4.8109	1.1986	.38941	4.9881	1.0145
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96279**	**.96081**	**.51403**	**1.0130**	**1.0181**	**1.0331**
Stddev	.02648	.02614	.00447	.0047	.0092	.1831
%RSD	2.7498	2.7208	.87050	.46839	.90611	17.724
#1	.97471	.97144	.51084	1.0105	1.0076	.82655
#2	.98121	.97995	.51915	1.0100	1.0246	1.1756
#3	.93245	.93102	.51212	1.0184	1.0222	1.0971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47714.**	**58920.**
Stddev	143.	1387.
%RSD	.29974	2.3548
#1	47765.	57743.
#2	47552.	58567.
#3	47824.	60450.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 14:45:45 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00775**	**-.00129**	**.00179**	**.00001**	**.00001**	**-.00355**
Stddev	.00026	.00131	.00014	.00030	.00011	.00002	.00507
%RSD	207.48	16.904	10.564	16.622	724.93	314.43	142.90
#1	-.00004	.00843	-.00132	.00186	.00013	.00003	-.00646
#2	.00043	.00624	-.00140	.00147	-.00002	.00000	-.00649
#3	-.00001	.00858	-.00114	.00205	-.00007	.00000	.00231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00006**	**.00004**	**.00014**	**.00019**	**.03048**	**-.00112**
Stddev	.00001	.00008	.00012	.00016	.00060	.03110	.00089
%RSD	16.540	125.23	323.04	116.48	312.73	102.05	79.626
#1	.00004	-.00012	-.00010	-.00005	.00083	-.00207	-.00015
#2	.00003	.00003	.00013	.00022	-.00036	.03361	-.00190
#3	.00004	-.00009	.00008	.00024	.00010	.05990	-.00130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00180**	**-.00022**	**.00020**	**.00637**	**-.00005**	F **6.2631**	**-.00055**
Stddev	.00694	.00011	.00013	.00282	.00012	3.7935	.00107
%RSD	385.52	52.864	64.326	44.223	257.30	60.570	196.19
#1	.00932	-.00019	.00032	.00581	-.00012	8.6957	.00069
#2	.00045	-.00034	.00021	.00387	-.00012	1.8920	-.00116
#3	-.00437	-.00012	.00007	.00943	.00009	8.2015	-.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 14:45:45 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-2.0154**	**.02441**	F **-7.9141**	**-.00045**	**-.00013**	**.17495**	**.00034**
Stddev	3.4006	.02577	1.8799	.00075	.00083	.10322	.00008
%RSD	168.73	105.58	23.753	167.95	659.69	58.997	24.345
#1	-2.0448	.01314	-9.0227	-.00100	-.00067	.10521	.00025
#2	-5.4012	.00619	-5.7436	-.00074	.00083	.12613	.00042
#3	1.3998	.05389	-8.9761	.00041	-.00053	.29353	.00034
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00047**	**-.00035**	**-.00019**	**.00244**	**-.03768**
Stddev	.00008	.00074	.00145	.00023	.00168	.04165
%RSD	295.44	156.49	418.26	123.99	69.020	110.52
#1	.00005	.00051	.00101	-.00023	.00101	-.03559
#2	-.00012	.00119	-.00187	.00006	.00429	-.08034
#3	-.00002	-.00029	-.00018	-.00039	.00201	.00287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48681.**	**56537.**
Stddev	78.	807.
%RSD	.15997	1.4267
#1	48769.	55884.
#2	48621.	56288.
#3	48653.	57438.

Approved: March 29, 2011

Sample Name: L1103046047 Acquired: 3/28/2011 14:49:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**9.2277**	**.02480**	**.00836**	**.24662**	**.00128**	**330.33**
Stddev	.00016	.1121	.00084	.00055	.00214	.00002	23.26
%RSD	18.002	1.2150	3.3920	6.5807	.86939	1.2436	7.0408
#1	.00094	9.1012	.02422	.00899	.24480	.00128	342.15
#2	.00070	9.3147	.02576	.00810	.24607	.00130	345.32
#3	.00099	9.2673	.02440	.00798	.24898	.00127	303.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00295**	**.01126**	**.01303**	**.21352**	**9.9188**	**2.1184**	**.00966**
Stddev	.00007	.00027	.00013	.00340	.0931	.0182	.00121
%RSD	2.4181	2.4321	1.0256	1.5905	.93915	.86093	12.478
#1	.00293	.01119	.01317	.21037	9.8511	2.0991	.00913
#2	.00290	.01103	.01303	.21308	9.8803	2.1208	.00881
#3	.00303	.01157	.01290	.21712	10.025	2.1354	.01104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.9625**	**2.4871**	**.00016**	**.05487**	**.01299**	F **6681.5**	**.17046**
Stddev	.0165	.0213	.00007	.00381	.00065	126.5	.00247
%RSD	.23758	.85513	43.537	6.9473	5.0161	1.8934	1.4468
#1	6.9721	2.4709	.00023	.05629	.01293	6556.8	.16864
#2	6.9434	2.4793	.00016	.05055	.01237	6677.9	.16947
#3	6.9719	2.5112	.00009	.05777	.01366	6809.7	.17326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046047 Acquired: 3/28/2011 14:49:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.8621**	F **387.56**	F **-4766.6**	**.00276**	**-.00073**	F **272.20**	**.00214**
Stddev	6.7452	5.29	77.2	.00009	.00109	5.27	.00035
%RSD	235.67	1.3652	1.6204	3.1728	149.46	1.9362	16.486
#1	8.9094	383.18	-4701.7	.00267	-.00043	267.65	.00239
#2	-4.4124	386.05	-4746.2	.00285	-.00194	270.96	.00231
#3	4.0893	393.44	-4852.0	.00275	.00018	277.98	.00174
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11012**	**.09967**	**.00201**	**.03014**	**.07263**	**11.421**
Stddev	.00231	.00158	.00027	.00050	.00221	.352
%RSD	2.1022	1.5813	13.498	1.6507	3.0424	3.0792
#1	.10885	.10038	.00179	.02957	.07085	11.192
#2	.10872	.09786	.00193	.03039	.07194	11.246
#3	.11279	.10076	.00232	.03046	.07510	11.826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47476.**	**56629.**
Stddev	118.	149.
%RSD	.24902	.26362
#1	47545.	56460.
#2	47543.	56684.
#3	47339.	56742.

Approved: March 29, 2011

Sample Name: L1103046048 Acquired: 3/28/2011 14:53:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**10.962**	**.01884**	**.00772**	**.22376**	**.00144**	**453.25**
Stddev	.00007	.195	.00088	.00017	.00490	.00002	2.42
%RSD	10.614	1.7829	4.6610	2.1458	2.1918	1.5125	.53479
#1	.00071	10.837	.01785	.00753	.22629	.00143	455.93
#2	.00061	10.861	.01913	.00777	.22688	.00143	451.21
#3	.00058	11.187	.01953	.00785	.21811	.00147	452.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00249**	**.01109**	**.01461**	**.06228**	**9.6923**	**1.2688**	**.01301**
Stddev	.00008	.00013	.00041	.00127	.1961	.0391	.00049
%RSD	3.0589	1.1753	2.8223	2.0359	2.0228	3.0775	3.7445
#1	.00243	.01103	.01433	.06189	9.8102	1.2737	.01338
#2	.00257	.01099	.01442	.06125	9.8006	1.3051	.01320
#3	.00245	.01123	.01509	.06369	9.4659	1.2275	.01246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.8223**	**2.3782**	**.00009**	**.07527**	**.01547**	F **8085.2**	**.11634**
Stddev	.1880	.0470	.00006	.00579	.00014	118.0	.00199
%RSD	2.1313	1.9748	68.505	7.6885	.88096	1.4599	1.7088
#1	8.9609	2.4057	.00011	.06936	.01549	7991.7	.11552
#2	8.8978	2.4049	.00015	.07554	.01532	8046.1	.11490
#3	8.6083	2.3240	.00002	.08093	.01559	8217.8	.11861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046048 Acquired: 3/28/2011 14:53:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.5755**	F **499.28**	F **-4752.9**	**.00095**	**.00012**	F **290.10**	**.00085**
Stddev	8.8115	9.65	80.7	.00041	.00158	4.67	.00007
%RSD	342.13	1.9336	1.6975	42.819	1283.8	1.6085	8.2050
#1	3.3109	491.28	-4691.5	.00082	-.00167	287.06	.00080
#2	10.996	496.56	-4722.9	.00063	.00132	287.77	.00081
#3	-6.5807	510.00	-4844.3	.00141	.00072	295.47	.00093
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		9.0000	9.0000			90.000	
Low Limit		-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12705**	**.10579**	**.00131**	**.03435**	**.04250**	**13.772**
Stddev	.00322	.00225	.00191	.00104	.00155	.383
%RSD	2.5311	2.1249	146.12	3.0197	3.6394	2.7792
#1	.12848	.10664	-.00089	.03356	.04141	13.439
#2	.12931	.10749	.00252	.03398	.04181	13.687
#3	.12337	.10324	.00229	.03553	.04427	14.190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46625.**	**56742.**
Stddev	453.	814.
%RSD	.97114	1.4350
#1	46946.	55979.
#2	46822.	56649.
#3	46107.	57599.

Approved: March 29, 2011

Sample Name: L1103046101 Acquired: 3/28/2011 14:56:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**8.1994**	**.02511**	**.00754**	**.27771**	**.00128**	**412.10**
Stddev	.00070	.0744	.00104	.00052	.00611	.00001	3.99
%RSD	173.06	.90790	4.1283	6.9435	2.1986	.91705	.96846
#1	.00073	8.1399	.02471	.00796	.27937	.00127	415.42
#2	.00088	8.1755	.02433	.00695	.27095	.00128	407.67
#3	-.00040	8.2829	.02629	.00769	.28282	.00130	413.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00313**	**.01182**	**.01439**	**.14523**	**9.9851**	**1.7501**	**.01214**
Stddev	.00009	.00016	.00065	.00173	.2238	.0517	.00004
%RSD	2.8157	1.3589	4.5003	1.1917	2.2415	2.9548	.31110
#1	.00304	.01167	.01415	.14324	10.075	1.7351	.01215
#2	.00312	.01199	.01390	.14644	9.7302	1.7075	.01217
#3	.00322	.01181	.01512	.14599	10.150	1.8076	.01210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.781**	**2.9520**	**.00006**	**.05926**	**.01437**	F **6570.9**	**.18183**
Stddev	.232	.0656	.00006	.00601	.00062	79.7	.00146
%RSD	2.1547	2.2211	90.645	10.135	4.3478	1.2128	.80443
#1	10.891	2.9912	.00008	.06525	.01386	6479.3	.18015
#2	10.515	2.8763	.00000	.05323	.01417	6624.3	.18280
#3	10.938	2.9885	.00011	.05930	.01507	6609.1	.18254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103046101 Acquired: 3/28/2011 14:56:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-5.0578**	F **470.89**	F **-4348.4**	**.00052**	**.00017**	F **295.42**	**.00133**
Stddev	4.2853	6.78	47.0	.00035	.00085	3.45	.00032
%RSD	84.726	1.4396	1.0810	67.677	503.85	1.1682	23.728
#1	-9.6319	463.13	-4294.1	.00038	-.00019	291.46	.00152
#2	-1.1361	475.66	-4376.3	.00092	-.00045	297.78	.00097
#3	-4.4055	473.87	-4374.7	.00026	.00114	297.03	.00151
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14666**	**.09412**	**.00047**	**.02991**	**.06755**	**10.696**
Stddev	.00392	.00236	.00140	.00028	.00095	.004
%RSD	2.6751	2.5091	297.32	.93395	1.4060	.03430
#1	.14818	.09520	.00181	.03003	.06649	10.692
#2	.14220	.09141	-.00099	.02959	.06783	10.697
#3	.14959	.09574	.00059	.03011	.06833	10.699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46854.**	**56118.**
Stddev	302.	650.
%RSD	.64478	1.1586
#1	46785.	55405.
#2	46592.	56679.
#3	47184.	56269.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 15:00:27 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39691**	**9.4821**	**.39933**	**.48243**	**.97173**	**.04875**	**9.6774**
Stddev	.00594	.1097	.00153	.00582	.00622	.00060	.0786
%RSD	1.4977	1.1571	.38323	1.2058	.64006	1.2308	.81183
#1	.39313	9.4251	.39756	.47872	.96473	.04845	9.5867
#2	.39383	9.4127	.40008	.47945	.97663	.04836	9.7219
#3	.40376	9.6086	.40033	.48914	.97383	.04944	9.7236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04976**	**.20208**	**.48895**	**.50593**	**3.8925**	**48.364**	**.97177**
Stddev	.00032	.00136	.00575	.00401	.0354	.331	.00558
%RSD	.63830	.67494	1.1750	.79310	.91013	.68456	.57426
#1	.04946	.20070	.48678	.50192	3.8573	47.982	.96639
#2	.05010	.20343	.48462	.50995	3.9282	48.566	.97753
#3	.04973	.20210	.49547	.50593	3.8919	48.545	.97139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7975**	**.48446**	**.97344**	**48.758**	**.49987**	F **3.7343**	**.49851**
Stddev	.0661	.00444	.00500	.263	.00352	7.3944	.00371
%RSD	.67423	.91696	.51409	.53988	.70441	198.01	.74330
#1	9.7238	.47936	.96884	48.454	.49687	9.9355	.49456
#2	9.8515	.48746	.97876	48.924	.50375	-4.4492	.50191
#3	9.8173	.48656	.97270	48.895	.49899	5.7166	.49907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 15:00:27 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.3146**	**10.097**	F **15.907**	**1.1901**	**.38744**	**5.2697**	**1.0032**
Stddev	3.8172	.077	4.640	.0102	.00289	.2285	.0089
%RSD	88.472	.76182	29.171	.85960	.74659	4.3369	.88255
#1	2.3317	10.053	20.425	1.1823	.38516	5.1440	.99619
#2	8.7152	10.186	11.153	1.2017	.39069	5.5335	1.0132
#3	1.8969	10.052	16.145	1.1863	.38646	5.1315	1.0003
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	-10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97401**	**.97226**	**.50655**	**.98476**	**.99562**	F **.80313**
Stddev	.00617	.00465	.00494	.01253	.00712	.21315
%RSD	.63384	.47842	.97441	1.2729	.71547	26.540
#1	.96693	.96709	.50236	.97856	.98936	.76471
#2	.97826	.97610	.51199	.97653	1.0034	.61181
#3	.97683	.97360	.50530	.99918	.99413	1.0329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48431.**	**56689.**
Stddev	219.	418.
%RSD	.45130	.73763
#1	48543.	57151.
#2	48179.	56336.
#3	48570.	56582.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 15:03:53 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00750**	**.00003**	**.00208**	**.00006**	**.00002**	**-.00327**
Stddev	.00055	.00079	.00134	.00043	.00005	.00001	.00159
%RSD	132.90	10.602	4518.1	20.587	92.217	27.123	48.604
#1	-.00030	.00833	-.00109	.00256	.00007	.00002	-.00144
#2	-.00101	.00675	-.00033	.00174	.00000	.00003	-.00428
#3	.00007	.00741	.00151	.00193	.00011	.00002	-.00408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00004**	**.00013**	**-.00072**	**.00170**	**.04282**	**-.00189**
Stddev	.00010	.00012	.00013	.00021	.00142	.01279	.00015
%RSD	185.76	309.25	97.999	29.280	83.477	29.874	7.7126
#1	-.00005	-.00004	.00023	-.00096	.00260	.05742	-.00187
#2	.00015	-.00002	-.00001	-.00061	.00242	.03744	-.00175
#3	.00006	.00018	.00018	-.00058	.00006	.03359	-.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00905**	**.00001**	**.00025**	**.01191**	**.00017**	F **15.622**	**.00031**
Stddev	.00839	.00027	.00010	.00712	.00035	.929	.00109
%RSD	92.669	4910.2	38.304	59.765	203.84	5.9471	351.39
#1	-.01707	-.00028	.00015	.00373	.00042	14.855	-.00030
#2	-.00034	.00004	.00027	.01673	.00033	15.355	-.00034
#3	-.00974	.00026	.00033	.01527	-.00023	16.655	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 15:03:53 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.5334**	**.03235**	F **-4.3633**	**-.00159**	**-.00099**	**-.14006**	**-.00003**
Stddev	7.2639	.01282	5.4493	.00043	.00021	.12943	.00017
%RSD	85.124	39.628	124.89	27.172	21.078	92.413	546.16
#1	11.346	.02268	.09568	-.00112	-.00075	.00868	.00016
#2	13.971	.04689	-2.7480	-.00197	-.00113	-.20177	-.00016
#3	.28380	.02749	-10.438	-.00169	-.00108	-.22708	-.00010
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00071**	**-.00060**	**.00004**	**.00195**	F **.13703**
Stddev	.00002	.00079	.00032	.00018	.00058	.14885
%RSD	194.10	111.22	53.247	463.90	29.600	108.62
#1	-.00001	.00042	-.00091	.00007	.00133	.00986
#2	.00001	.00161	-.00063	-.00015	.00248	.30075
#3	-.00003	.00010	-.00027	.00020	.00205	.10049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49198.**	**57270.**
Stddev	315.	480.
%RSD	.64047	.83737
#1	48845.	56718.
#2	49295.	57582.
#3	49452.	57510.

Approved: March 29, 2011

Sample Name: PBS R5 Acquired: 3/28/2011 15:07:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.00801**	**-.00010**	**-.00234**	**.00031**	**.00001**	**-.03304**
Stddev	.00056	.00216	.00095	.00033	.00004	.00001	.00425
%RSD	184.15	27.010	942.99	14.079	13.782	144.24	12.862
#1	.00033	-.00573	.00087	-.00254	.00027	.00002	-.03769
#2	-.00072	-.00826	-.00013	-.00196	.00033	.00000	-.02937
#3	-.00053	-.01004	-.00104	-.00252	.00035	.00000	-.03206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00009**	**.00011**	**-.00025**	**.00286**	**.02238**	**-.00142**
Stddev	.00006	.00016	.00012	.00036	.00246	.00782	.00047
%RSD	374.03	188.07	106.46	143.94	86.038	34.960	32.769
#1	.00005	.00003	.00013	-.00049	.00090	.03130	-.00113
#2	-.00003	-.00027	.00022	.00016	.00562	.01915	-.00118
#3	-.00007	-.00002	-.00002	-.00043	.00206	.01668	-.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00369**	**-.00014**	**-.00016**	**.00422**	**.00014**	**3.4359**	**-.00038**
Stddev	.00415	.00023	.00007	.00261	.00038	4.9622	.00129
%RSD	112.67	162.79	44.239	61.810	274.79	144.42	344.58
#1	.00074	-.00003	-.00015	.00121	-.00030	3.6104	.00108
#2	-.00750	.00001	-.00010	.00586	.00036	8.3085	-.00141
#3	-.00430	-.00041	-.00024	.00559	.00036	-1.6112	-.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: PBS R5 Acquired: 3/28/2011 15:07:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **16.102**	**.16444**	F **-32.628**	**-.00259**	**-.00071**	**.06024**	**.00002**
Stddev	2.696	.03680	7.319	.00130	.00292	.17371	.00017
%RSD	16.743	22.376	22.433	50.391	413.13	288.34	896.08
#1	18.297	.20667	-33.359	-.00364	-.00083	.25700	-.00016
#2	13.093	.13927	-39.554	-.00113	-.00356	-.00439	.00004
#3	16.915	.14739	-24.970	-.00299	.00227	-.07188	.00018
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00065**	**-.00057**	**-.00031**	**.00054**	F **-.01959**
Stddev	.00002	.00088	.00075	.00009	.00045	.13924
%RSD	5.8406	134.44	131.62	30.017	83.115	710.81
#1	-.00030	.00016	-.00119	-.00041	.00106	.12745
#2	-.00032	.00013	-.00076	-.00030	.00029	-.14944
#3	-.00034	.00167	.00026	-.00022	.00027	-.03678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49682.**	**59951.**
Stddev	407.	432.
%RSD	.81847	.71988
#1	49378.	59457.
#2	50144.	60140.
#3	49524.	60255.

Approved: March 29, 2011

Sample Name: LCSS R5 Acquired: 3/28/2011 15:11:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19894**	**4.7098**	**.19073**	**.93450**	**.48597**	**.02482**	**4.7949**
Stddev	.00810	.1853	.00783	.03696	.00308	.00096	.0382
%RSD	4.0727	3.9334	4.1036	3.9554	.63440	3.8623	.79752
#1	.20031	4.7188	.18900	.93682	.48830	.02488	4.8247
#2	.20626	4.8904	.19927	.97025	.48712	.02574	4.8082
#3	.19024	4.5202	.18391	.89644	.48247	.02383	4.7518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02471**	**.10250**	**.25227**	**.24812**	**1.9307**	**23.938**	**.48704**
Stddev	.00105	.00426	.01019	.00999	.0089	.121	.00321
%RSD	4.2422	4.1583	4.0392	4.0258	.45969	.50540	.65930
#1	.02451	.10213	.25278	.24715	1.9373	24.053	.48967
#2	.02584	.10693	.26219	.25856	1.9342	23.949	.48800
#3	.02377	.09843	.24183	.23865	1.9206	23.812	.48347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.7726**	**.24025**	**.51510**	**24.854**	**.25402**	F **-42.241**	**.24268**
Stddev	.0277	.00111	.02065	.157	.00981	9.313	.01148
%RSD	.58082	.46276	4.0099	.63279	3.8607	22.047	4.7290
#1	4.7439	.24108	.51164	25.023	.25239	-39.534	.24114
#2	4.7746	.24068	.53726	24.827	.26454	-52.608	.25485
#3	4.7992	.23898	.49639	24.712	.24512	-34.582	.23205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: LCSS R5 Acquired: 3/28/2011 15:11:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **19.728**	**5.2833**	F **-53.384**	**.56911**	**.18452**	F **644.71**	**.48151**
Stddev	.893	.1934	4.518	.02640	.00841	28.66	.02029
%RSD	4.5275	3.6601	8.4628	4.6397	4.5576	4.4448	4.2143
#1	20.067	5.2012	-52.313	.56824	.18494	641.68	.47970
#2	18.715	5.5042	-49.498	.59595	.19271	674.76	.50265
#3	20.403	5.1446	-58.341	.54316	.17591	617.69	.46219
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000		9.0000			90.000	
Low Limit	-.00400		-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48823**	**.48800**	**.24202**	**.52087**	**.50618**	**.89124**
Stddev	.00333	.00155	.01224	.01977	.01230	.13101
%RSD	.68301	.31678	5.0583	3.7951	2.4301	14.699
#1	.49145	.48979	.24147	.52072	.49951	.78242
#2	.48843	.48715	.25453	.54071	.52037	.85466
#3	.48479	.48707	.23007	.50117	.49865	1.0367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47381.**	**56664.**
Stddev	1468.	415.
%RSD	3.0979	.73222
#1	47304.	56263.
#2	45954.	56636.
#3	48886.	57092.

Approved: March 29, 2011

Sample Name: LRC Acquired: 3/28/2011 15:14:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	F **869.03**	F **-.01010**	**.00108**	**-.00014**	**-.00002**	**-.03587**
Stddev	.00032	4.47	.00260	.00010	.00015	.00002	.00354
%RSD	44.266	.51416	25.761	8.9649	108.86	115.96	9.8666
#1	-.00045	864.34	-.00733	.00107	.00001	-.00001	-.03483
#2	-.00108	869.53	-.01249	.00118	-.00013	.00000	-.03981
#3	-.00066	873.23	-.01048	.00099	-.00030	-.00004	-.03296
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		810.00	90.000				
Low Limit		-.10000	-.01000				

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00063**	**.00047**	**-.00042**	**-.00088**	**.04523**	**-.00254**
Stddev	.00007	.00007	.00028	.00076	.00300	.01860	.00061
%RSD	74.315	10.753	59.649	180.98	340.01	41.114	23.793
#1	-.00003	.00062	.00057	.00042	-.00339	.06179	-.00288
#2	-.00009	.00056	.00068	-.00062	-.00171	.02511	-.00290
#3	-.00018	.00070	.00015	-.00105	.00245	.04880	-.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00472**	**.00177**	**.00010**	**.00789**	**-.00426**	F **-3104.5**	F **-.01275**
Stddev	.01076	.00039	.00048	.00275	.00015	24.1	.00072
%RSD	227.96	22.092	503.78	34.921	3.6120	.77526	5.6613
#1	-.00601	.00222	.00056	.01101	-.00409	-3105.1	-.01349
#2	-.01477	.00155	-.00041	.00582	-.00440	-3080.2	-.01270
#3	.00662	.00153	.00013	.00683	-.00428	-3128.3	-.01205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit						900.00	225.00
Low Limit						-.00400	-.00500

Approved: March 29, 2011

Sample Name: LRC Acquired: 3/28/2011 15:14:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8284**	**.80218**	F **-104.58**	**-.00792**	F **-.01254**	**-.05313**	**-.00066**
Stddev	5.8045	.05808	12.69	.00408	.00251	.42584	.00059
%RSD	317.46	7.2408	12.132	51.546	19.989	801.50	89.931
#1	-2.6027	.76567	-109.26	-.00386	-.01106	-.46099	-.00080
#2	-.31103	.86916	-114.27	-.00787	-.01113	-.08707	-.00001
#3	8.3990	.77172	-90.219	-.01202	-.01543	.38866	-.00116
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			9.0000		81.000		
Low Limit			-.00400		-.01000		

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00036**	**-.00193**	**.00007**	F **-.01933**	**.09343**
Stddev	.00009	.00041	.00192	.00006	.00013	.17970
%RSD	43.577	113.72	99.576	92.193	.67727	192.34
#1	-.00012	.00020	.00015	.00008	-.01934	.10685
#2	-.00030	.00005	-.00365	.00012	-.01920	-.09261
#3	-.00022	.00082	-.00230	.00000	-.01946	.26604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					45.000	
Low Limit					-.01000	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48633.**	**61047.**
Stddev	344.	421.
%RSD	.70658	.69044
#1	49017.	60612.
#2	48529.	61453.
#3	48354.	61077.

Approved: March 29, 2011

Sample Name: LRC Acquired: 3/28/2011 15:18:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00170**	**.02561**	**-.00507**	**.43814**	**-.00010**	**-.00006**	**-.03937**
Stddev	.00049	.00488	.00063	.01248	.00004	.00001	.00163
%RSD	29.022	19.041	12.437	2.8490	38.758	15.586	4.1330
#1	-.00121	.02921	-.00480	.44216	-.00008	-.00005	-.03838
#2	-.00169	.02755	-.00579	.42415	-.00014	-.00006	-.03849
#3	-.00220	.02006	-.00461	.44812	-.00008	-.00005	-.04125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00265**	**-.00056**	F **-.03908**	**.02563**	F **950.29**	**-.05957**	**-.00309**
Stddev	.00028	.00017	.00115	.00501	13.79	.01744	.00162
%RSD	10.422	31.246	2.9386	19.543	1.4517	29.277	52.526
#1	.00281	-.00048	-.03932	.02287	954.70	-.04873	-.00137
#2	.00233	-.00076	-.03783	.03141	934.83	-.07968	-.00330
#3	.00280	-.00044	-.04009	.02261	961.34	-.05029	-.00460
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		900.00		
Low Limit			-.00300		-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00342**	**.00179**	**-.00588**	**-.01099**	**-.00199**	F **3351.5**	**.03509**
Stddev	.00572	.00020	.00040	.00370	.00157	112.9	.00240
%RSD	167.28	10.967	6.8654	33.691	79.273	3.3682	6.8446
#1	.00089	.00157	-.00559	-.00673	-.00183	3287.9	.03245
#2	-.00124	.00188	-.00634	-.01283	-.00050	3481.8	.03567
#3	-.00991	.00193	-.00571	-.01342	-.00363	3284.8	.03714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: LRC Acquired: 3/28/2011 15:18:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-4.1613**	**.44859**	F **103.83**	**-.01672**	**-.00746**	**1.9286**	**.00627**
Stddev	1.3878	.12293	4.94	.00156	.00105	.4746	.00026
%RSD	33.349	27.404	4.7611	9.3310	14.018	24.609	4.1788
#1	-3.7457	.34302	98.364	-.01753	-.00749	1.6626	.00638
#2	-5.7094	.58355	107.99	-.01492	-.00849	2.4765	.00645
#3	-3.0288	.41919	105.13	-.01770	-.00640	1.6466	.00597
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00247**	**.00620**	F **-.02134**	**.01021**	F **-78.536**
Stddev	.00001	.00040	.00199	.00054	.00068	1.564
%RSD	3.1612	16.102	32.017	2.5539	6.6598	1.9918
#1	-.00026	.00202	.00560	-.02116	.00986	-77.887
#2	-.00027	.00258	.00459	-.02195	.01099	-80.321
#3	-.00025	.00279	.00842	-.02090	.00978	-77.401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				90.000		45.000
Low Limit				-.01000		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47005.**	**55379.**
Stddev	1103.	85.
%RSD	2.3470	.15379
#1	47639.	55343.
#2	45732.	55476.
#3	47646.	55317.

Approved: March 29, 2011

Sample Name: LRC Acquired: 3/28/2011 15:22:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06249**	**.10018**	**.00543**	**-.01562**	**.00003**	**.00008**	**-.04118**
Stddev	.00061	.00110	.00048	.00037	.00007	.00002	.00675
%RSD	.98217	1.0982	8.7919	2.3926	235.75	21.403	16.393
#1	.06213	.10145	.00593	-.01580	-.00002	.00006	-.04874
#2	.06214	.09951	.00498	-.01586	.00000	.00010	-.03908
#3	.06320	.09958	.00539	-.01519	.00010	.00008	-.03574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00069**	F **-.01210**	**.00211**	**.01390**	**-.01804**	**-.00089**
Stddev	.00005	.00013	.00010	.00021	.00558	.00739	.00061
%RSD	25.926	18.822	.81294	9.8803	40.127	40.992	67.979
#1	.00017	.00071	-.01199	.00218	.01959	-.02586	-.00019
#2	.00026	.00081	-.01214	.00187	.01368	-.01710	-.00119
#3	.00017	.00056	-.01217	.00227	.00844	-.01116	-.00129
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.11421**	F **183.79**	F **-.01003**	**-.00641**	**.00189**	F **-559.72**	**.02252**
Stddev	.00418	.90	.00006	.00386	.00020	10.40	.00082
%RSD	3.6637	.48921	.56964	60.274	10.542	1.8585	3.6317
#1	-.11503	184.09	-.00997	-.00375	.00210	-571.14	.02345
#2	-.11792	182.78	-.01008	-.01084	.00171	-557.25	.02191
#3	-.10967	184.50	-.01005	-.00464	.00186	-550.78	.02221
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	900.00	180.00	18.000			900.00	
Low Limit	-.10000	-.00300	-.01000			-.00400	

Approved: March 29, 2011

Sample Name: LRC Acquired: 3/28/2011 15:22:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-17.092**	F **29.838**	F **-3201.2**	**-.00276**	**.10672**	**.35149**	**-.00070**
Stddev	4.035	.061	6.9	.00010	.00242	.08356	.00003
%RSD	23.610	.20536	.21555	3.6994	2.2664	23.773	4.7482
#1	-21.676	29.776	-3198.8	-.00264	.10699	.29832	-.00066
#2	-14.075	29.841	-3195.9	-.00283	.10899	.30835	-.00073
#3	-15.525	29.898	-3209.0	-.00280	.10418	.44781	-.00070
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00539**	**.00495**	F **-.01598**	**.00537**	F **-.06490**
Stddev	.00009	.00073	.00026	.00012	.00037	.08363
%RSD	40.969	13.470	5.3135	.77517	6.8388	128.85
#1	-.00015	-.00466	.00466	-.01603	.00559	-.14456
#2	-.00032	-.00540	.00519	-.01608	.00495	.02219
#3	-.00019	-.00611	.00499	-.01584	.00557	-.07234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				90.000		45.000
Low Limit				-.01000		-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49051.**	**55647.**
Stddev	76.	285.
%RSD	.15414	.51133
#1	49091.	55646.
#2	49098.	55932.
#3	48964.	55363.

Approved: March 29, 2011

Sample Name: L1103092601 Acquired: 3/28/2011 15:25:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02130**	**522.89**	**.05417**	**.38831**	**.76732**	**.00742**	**17.895**
Stddev	.00043	31.01	.00456	.00453	.01198	.00079	.316
%RSD	2.0111	5.9302	8.4210	1.1661	1.5610	10.616	1.7674
#1	.02082	494.27	.04972	.39189	.75429	.00657	17.562
#2	.02166	555.83	.05883	.38322	.76982	.00813	17.934
#3	.02141	518.58	.05396	.38983	.77785	.00755	18.190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01174**	**.06489**	**.57640**	**.35866**	**807.24**	**17.982**	**.27619**
Stddev	.00069	.00717	.06863	.04507	11.08	.262	.00469
%RSD	5.9145	11.049	11.907	12.567	1.3728	1.4577	1.6970
#1	.01111	.05821	.50415	.31694	794.45	17.701	.27191
#2	.01248	.07247	.64073	.40647	813.56	18.026	.27546
#3	.01163	.06399	.58432	.35257	813.72	18.219	.28120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.250**	**2.7180**	**.01139**	**.65672**	**.20023**	F **45703.**	**.20713**
Stddev	.398	.0512	.00137	.01049	.02453	4975.	.02872
%RSD	2.0655	1.8822	12.025	1.5977	12.251	10.885	13.864
#1	18.792	2.6612	.01011	.64681	.17756	41124.	.18047
#2	19.450	2.7326	.01284	.65564	.22627	50996.	.23754
#3	19.508	2.7603	.01122	.66771	.19688	44987.	.20339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092601 Acquired: 3/28/2011 15:25:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **51.145**	F **83.950**	F **-11712.**	**.08753**	**.00158**	F **492.02**	**.03024**
Stddev	4.726	9.323	1281.	.01333	.00328	51.84	.00274
%RSD	9.2401	11.106	10.938	15.233	207.98	10.537	9.0524
#1	47.983	75.126	-10514.	.07589	-.00217	444.04	.02746
#2	48.874	93.703	-13062.	.10208	.00297	547.01	.03294
#3	56.577	83.022	-11561.	.08463	.00393	485.02	.03034
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11505**	**2.3087**	**.04644**	**1.5378**	**.89464**	F **339.70**
Stddev	.00204	.0356	.00355	.1699	.09650	38.51
%RSD	1.7718	1.5408	7.6505	11.047	10.786	11.337
#1	.11301	2.2693	.04330	1.3575	.80631	299.08
#2	.11507	2.3182	.05030	1.6949	.99763	375.69
#3	.11709	2.3386	.04572	1.5608	.87998	344.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46248.**	**56919.**
Stddev	3461.	521.
%RSD	7.4834	.91528
#1	49463.	57441.
#2	42585.	56399.
#3	46697.	56918.

Approved: March 29, 2011

Sample Name: L1103092603S Acquired: 3/28/2011 15:29:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22398**	**611.21**	**.22202**	**1.0690**	**1.2653**	**.02667**	**22.316**
Stddev	.00179	1.20	.00173	.0009	.0035	.00008	.025
%RSD	.79811	.19574	.78083	.08676	.27516	.29620	.11121
#1	.22218	611.57	.22033	1.0684	1.2630	.02662	22.316
#2	.22401	612.19	.22194	1.0684	1.2636	.02664	22.291
#3	.22575	609.88	.22379	1.0700	1.2693	.02677	22.340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03380**	**.15530**	**.77778**	**.57787**	**794.95**	**41.660**	**.73893**
Stddev	.00007	.00094	.00718	.00324	3.91	.047	.00118
%RSD	.20154	.60593	.92265	.56127	.49126	.11222	.15934
#1	.03374	.15422	.76995	.57456	799.36	41.640	.73926
#2	.03378	.15585	.77935	.57801	793.59	41.627	.73762
#3	.03387	.15585	.78405	.58104	791.91	41.713	.73990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.655**	**2.6512**	**.44498**	**22.496**	**.44955**	F **44288.**	**.41805**
Stddev	.114	.0076	.00203	.017	.00246	188.	.00063
%RSD	.44390	.28692	.45538	.07535	.54675	.42387	.15047
#1	25.523	2.6439	.44288	22.497	.44697	44076.	.41826
#2	25.720	2.6506	.44513	22.513	.44981	44353.	.41734
#3	25.721	2.6591	.44692	22.479	.45186	44434.	.41854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092603S Acquired: 3/28/2011 15:29:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **69.330**	F **86.666**	F **-11384.**	**.56847**	**.14973**	F **1412.7**	**.45429**
Stddev	3.542	.559	39.	.00605	.00101	5.6	.00271
%RSD	5.1086	.64504	.34375	1.0636	.67515	.39781	.59621
#1	68.202	86.118	-11339.	.56233	.14919	1406.6	.45182
#2	66.490	86.646	-11411.	.56864	.14909	1413.9	.45386
#3	73.298	87.235	-11401.	.57442	.15089	1417.6	.45719
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.56418**	**5.1687**	**.25487**	**2.1623**	**1.4262**	F **363.88**
Stddev	.00009	.0070	.00102	.0104	.0033	2.09
%RSD	.01538	.13568	.40138	.48276	.23110	.57564
#1	.56408	5.1625	.25372	2.1516	1.4227	361.46
#2	.56424	5.1674	.25519	2.1630	1.4268	365.17
#3	.56420	5.1763	.25568	2.1724	1.4292	365.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46621.**	**58496.**
Stddev	117.	145.
%RSD	.25129	.24764
#1	46746.	58381.
#2	46603.	58449.
#3	46514.	58659.

Approved: March 29, 2011

Sample Name: L1103092604SD Acquired: 3/28/2011 15:32:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22437**	**569.59**	**.22138**	**1.0974**	**1.1923**	**.02768**	**21.392**
Stddev	.00325	11.72	.00477	.0133	.0050	.00043	.098
%RSD	1.4479	2.0582	2.1538	1.2100	.42313	1.5380	.45991
#1	.22562	573.31	.22399	1.0848	1.1876	.02775	21.279
#2	.22681	579.00	.22427	1.1113	1.1919	.02806	21.453
#3	.22068	556.45	.21587	1.0962	1.1976	.02722	21.446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03306**	**.15033**	**.74386**	**.55557**	**773.21**	**40.008**	**.70821**
Stddev	.00074	.00318	.01102	.01307	13.73	.185	.00104
%RSD	2.2285	2.1184	1.4817	2.3520	1.7758	.46297	.14640
#1	.03322	.15105	.74640	.56244	758.06	39.816	.70712
#2	.03370	.15310	.75339	.56377	784.82	40.023	.70833
#3	.03226	.14685	.73179	.54050	776.76	40.185	.70918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.785**	**2.5600**	**.45512**	**23.335**	**.42900**	F **42574.**	**.40142**
Stddev	.229	.0191	.00868	.085	.00789	915.	.00668
%RSD	.96330	.74505	1.9074	.36330	1.8402	2.1494	1.6629
#1	23.624	2.5388	.45594	23.249	.43027	42705.	.39894
#2	23.684	2.5652	.46336	23.418	.43619	43417.	.40898
#3	24.048	2.5759	.44605	23.338	.42055	41601.	.39634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092604SD Acquired: 3/28/2011 15:32:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360099-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **55.095**	F **82.231**	F **-10834.**	**.57226**	**.15255**	F **1579.4**	**.45899**
Stddev	1.601	1.830	249.	.01232	.00537	35.3	.00798
%RSD	2.9051	2.2260	2.2989	2.1531	3.5186	2.2328	1.7389
#1	55.987	82.892	-10857.	.57334	.15535	1578.4	.46054
#2	56.050	83.638	-11071.	.58400	.15594	1615.2	.46608
#3	53.247	80.161	-10575.	.55943	.14636	1544.7	.45035
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.56926**	**4.6157**	**.25972**	**2.0796**	**1.3137**	F **314.31**
Stddev	.00199	.0101	.00665	.0271	.0228	3.25
%RSD	.34994	.21985	2.5594	1.3038	1.7341	1.0339
#1	.56736	4.6040	.26382	2.0832	1.3225	313.92
#2	.57134	4.6204	.26329	2.1048	1.3308	317.74
#3	.56909	4.6225	.25205	2.0509	1.2878	311.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46111.**	**57212.**
Stddev	564.	236.
%RSD	1.2240	.41277
#1	46026.	57373.
#2	45594.	57322.
#3	46713.	56941.

Approved: March 29, 2011

Sample Name: L1103092602 Acquired: 3/28/2011 15:36:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02423**	**572.14**	**.05585**	**.39730**	**.79994**	**.00789**	**18.082**
Stddev	.00057	1.73	.00212	.00384	.00333	.00002	.091
%RSD	2.3608	.30232	3.8004	.96740	.41643	.23653	.50256
#1	.02432	574.13	.05385	.39310	.79827	.00787	18.018
#2	.02475	570.99	.05563	.39816	.80378	.00790	18.186
#3	.02361	571.30	.05808	.40065	.79778	.00791	18.042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01110**	**.06586**	**.54861**	**.37573**	**836.77**	**20.052**	**.30168**
Stddev	.00017	.00043	.00021	.00221	6.91	.068	.00100
%RSD	1.5675	.64795	.03814	.58777	.82621	.34090	.33104
#1	.01098	.06580	.54882	.37828	829.31	20.020	.30190
#2	.01130	.06546	.54841	.37451	838.05	20.130	.30255
#3	.01102	.06631	.54861	.37439	842.96	20.005	.30059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.114**	**2.5557**	**.00996**	**.73735**	**.22017**	F **45820.**	**.21876**
Stddev	.144	.0107	.00022	.00468	.00131	81.	.00037
%RSD	.68180	.41888	2.1922	.63460	.59453	.17657	.17132
#1	20.974	2.5502	.00987	.73196	.22003	45730.	.21901
#2	21.262	2.5681	.01021	.74032	.22154	45887.	.21833
#3	21.107	2.5489	.00980	.73977	.21893	45843.	.21894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092602 Acquired: 3/28/2011 15:36:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **65.844**	F **82.380**	F **-11230.**	**.06943**	**-.00243**	F **488.03**	**.03248**
Stddev	6.942	.249	27.	.00136	.00224	1.43	.00037
%RSD	10.543	.30222	.24075	1.9614	92.147	.29351	1.1297
#1	71.755	82.526	-11203.	.06803	-.00067	486.41	.03230
#2	67.577	82.522	-11257.	.07075	-.00167	489.11	.03224
#3	58.199	82.092	-11230.	.06951	-.00496	488.57	.03290
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12173**	**2.6307**	**.05040**	**1.6500**	**.94909**	F **349.17**
Stddev	.00056	.0130	.00033	.0001	.00061	.69
%RSD	.45894	.49230	.64882	.00587	.06425	.19641
#1	.12128	2.6222	.05077	1.6501	.94876	349.43
#2	.12236	2.6456	.05029	1.6500	.94873	349.69
#3	.12155	2.6243	.05015	1.6499	.94980	348.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46955.**	**57967.**
Stddev	36.	275.
%RSD	.07615	.47432
#1	46915.	57956.
#2	46965.	57698.
#3	46984.	58248.

Approved: March 29, 2011

Sample Name: L1103092602PS Acquired: 3/28/2011 15:40:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360132-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23312**	**536.78**	**.24930**	**1.3217**	**1.2119**	**.03333**	**21.387**
Stddev	.00421	4.24	.00141	.0088	.0044	.00033	.051
%RSD	1.8044	.78918	.56603	.66189	.36417	.97578	.23628
#1	.22972	533.58	.24853	1.3158	1.2071	.03312	21.347
#2	.23180	535.18	.24844	1.3177	1.2129	.03317	21.371
#3	.23782	541.58	.25093	1.3318	1.2158	.03371	21.444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03522**	**.15969**	**.75073**	**.58344**	**760.80**	**42.249**	**.76032**
Stddev	.00037	.00172	.00320	.00906	5.24	.089	.00042
%RSD	1.0376	1.0787	.42687	1.5529	.68932	.21182	.05528
#1	.03497	.15869	.74974	.57870	754.75	42.148	.76066
#2	.03505	.15870	.74814	.57774	763.71	42.283	.75985
#3	.03564	.16168	.75432	.59389	763.94	42.317	.76045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.852**	**2.5425**	**.51420**	**25.496**	**.44511**	F **42255.**	**.42871**
Stddev	.134	.0172	.00515	.052	.00487	411.	.00440
%RSD	.56383	.67527	1.0014	.20465	1.0932	.97282	1.0267
#1	23.708	2.5233	.51129	25.554	.44182	42054.	.42757
#2	23.974	2.5476	.51117	25.454	.44281	41984.	.42498
#3	23.874	2.5565	.52015	25.480	.45070	42728.	.43356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092602PS Acquired: 3/28/2011 15:40:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360132-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **66.105**	F **81.010**	F **-10419.**	**.63785**	**.18794**	F **1093.9**	**.02908**
Stddev	9.770	.996	107.	.00904	.00319	12.0	.00063
%RSD	14.780	1.2301	1.0307	1.4179	1.6986	1.1015	2.1824
#1	75.292	80.541	-10365.	.63057	.19034	1086.9	.02887
#2	55.841	80.334	-10349.	.63502	.18916	1086.9	.02858
#3	67.183	82.154	-10543.	.64797	.18431	1107.8	.02979
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.60083**	**2.8786**	**.27839**	**2.0259**	**1.3571**	F **326.45**
Stddev	.00123	.0039	.00216	.0215	.0117	2.61
%RSD	.20482	.13566	.77489	1.0618	.86510	.79957
#1	.60172	2.8743	.27716	2.0108	1.3530	326.48
#2	.59943	2.8819	.27714	2.0164	1.3479	323.83
#3	.60134	2.8797	.28089	2.0505	1.3703	329.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46539.**	**58345.**
Stddev	342.	247.
%RSD	.73570	.42321
#1	46675.	58535.
#2	46792.	58066.
#3	46150.	58435.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 15:43:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41408**	**9.9794**	**.40976**	**.50856**	**.99187**	**.05102**	**9.9195**
Stddev	.00076	.0572	.00172	.00369	.00400	.00023	.0358
%RSD	.18304	.57334	.41896	.72539	.40314	.45781	.36055
#1	.41332	9.9467	.40778	.50668	.99347	.05076	9.9376
#2	.41409	9.9460	.41088	.50619	.99481	.05108	9.9425
#3	.41483	10.045	.41062	.51281	.98731	.05122	9.8783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05109**	**.20735**	**.51116**	**.51895**	**4.1177**	**49.743**	**.98748**
Stddev	.00011	.00124	.00294	.00282	.0288	.139	.00371
%RSD	.22048	.59639	.57437	.54253	.69899	.27882	.37559
#1	.05097	.20615	.50862	.51596	4.1108	49.788	.98929
#2	.05109	.20728	.51047	.51933	4.1493	49.853	.98993
#3	.05119	.20862	.51438	.52155	4.0930	49.587	.98321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.132**	**.49300**	**1.0002**	**50.134**	**.51378**	**9.4612**	**.51463**
Stddev	.038	.00202	.0006	.108	.00178	2.3679	.00298
%RSD	.37306	.40912	.06350	.21618	.34568	25.027	.57865
#1	10.098	.49316	1.0004	50.196	.51182	11.790	.51208
#2	10.173	.49494	1.0007	50.197	.51425	9.5378	.51790
#3	10.125	.49091	.99951	50.009	.51528	7.0560	.51390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 15:43:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.4411**	**10.482**	F **8.0272**	**1.2222**	**.39763**	F **5.5755**	**1.0266**
Stddev	1.9070	.037	6.3631	.0037	.00116	.1230	.0058
%RSD	22.592	.35492	79.269	.30474	.29116	2.2054	.56170
#1	10.142	10.461	14.980	1.2182	.39818	5.4682	1.0319
#2	8.8025	10.524	6.6082	1.2255	.39841	5.5485	1.0205
#3	6.3793	10.459	2.4934	1.2230	.39630	5.7097	1.0275
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	-10.000%		-10.000%			10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99486**	**.99639**	**.52310**	**1.0285**	**1.0288**	F **1.7748**
Stddev	.00307	.00331	.00099	.0038	.0052	.0697
%RSD	.30894	.33193	.18881	.36704	.50296	3.9279
#1	.99691	.99591	.52254	1.0252	1.0239	1.7696
#2	.99635	.99992	.52253	1.0276	1.0283	1.7078
#3	.99133	.99335	.52425	1.0326	1.0342	1.8469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48361.**	**56727.**
Stddev	266.	335.
%RSD	.55069	.59006
#1	48640.	56983.
#2	48334.	56348.
#3	48110.	56850.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 15:47:23 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.01087**	**-.00071**	**.00295**	**-.00003**	**.00002**	**-.00655**
Stddev	.00061	.00136	.00037	.00060	.00006	.00001	.00308
%RSD	146.99	12.517	51.697	20.356	244.41	69.011	46.991
#1	-.00015	.01240	-.00100	.00316	-.00006	.00003	-.00307
#2	.00002	.00980	-.00084	.00227	.00005	.00000	-.00891
#3	-.00111	.01041	-.00030	.00342	-.00006	.00002	-.00769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00015**	**.00004**	**-.00027**	**.01123**	**.11346**	**-.00376**
Stddev	.00004	.00023	.00006	.00022	.00119	.01034	.00030
%RSD	148.79	154.35	136.10	81.548	10.553	9.1113	8.0919
#1	.00007	.00041	.00000	-.00042	.01135	.10831	-.00347
#2	.00001	.00007	.00011	-.00002	.00999	.12536	-.00408
#3	-.00001	-.00003	.00001	-.00038	.01236	.10670	-.00374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00949**	**-.00004**	**.00020**	**-.00161**	**.00033**	F **12.554**	**-.00119**
Stddev	.00993	.00023	.00007	.00287	.00053	6.351	.00071
%RSD	104.56	594.22	33.997	178.55	159.57	50.589	60.010
#1	-.00547	-.00016	.00015	.00109	.00093	6.4712	-.00155
#2	-.00221	.00022	.00028	-.00129	-.00010	19.143	-.00037
#3	-.02080	-.00018	.00018	-.00463	.00018	12.048	-.00165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 15:47:23 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **6.4322**	F **.07188**	F **-8.5333**	**-.00099**	**-.00275**	**-.03441**	**-.00013**
Stddev	7.4041	.02035	3.7308	.00032	.00097	.00942	.00008
%RSD	115.11	28.304	43.720	32.361	35.132	27.375	66.258
#1	2.8841	.07870	-5.1437	-.00067	-.00167	-.04330	-.00005
#2	1.4699	.08794	-7.9256	-.00100	-.00353	-.02454	-.00012
#3	14.943	.04900	-12.531	-.00131	-.00306	-.03539	-.00021
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00021**	**.00041**	**-.00019**	**.00286**	**-.05188**
Stddev	.00004	.00077	.00026	.00033	.00138	.21783
%RSD	32.658	365.88	63.102	175.96	48.147	419.89
#1	-.00013	-.00026	.00064	-.00016	.00444	-.18995
#2	-.00007	-.00021	.00013	.00013	.00196	-.16492
#3	-.00015	.00110	.00045	-.00053	.00218	.19923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48668.**	**55523.**
Stddev	147.	322.
%RSD	.30186	.57976
#1	48771.	55294.
#2	48500.	55385.
#3	48733.	55891.

Approved: March 29, 2011

Sample Name: L1103092602PS Acquired: 3/28/2011 15:51:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360132-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21690**	**133.73**	**.22319**	**1.1146**	**.65564**	**.02783**	**8.6737**
Stddev	.00094	1.35	.00346	.0060	.00194	.00011	.0235
%RSD	.43452	1.0067	1.5492	.53743	.29584	.40333	.27048
#1	.21584	132.83	.22083	1.1077	.65740	.02773	8.6475
#2	.21721	133.09	.22157	1.1182	.65597	.02782	8.6927
#3	.21765	135.28	.22716	1.1178	.65356	.02795	8.6810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02888**	**.12119**	**.37188**	**.34655**	**188.25**	**29.026**	**.55142**
Stddev	.00014	.00109	.00239	.00279	.75	.055	.00104
%RSD	.49854	.90213	.64262	.80420	.40044	.19056	.18889
#1	.02883	.12056	.36982	.34461	188.49	29.032	.55168
#2	.02878	.12055	.37130	.34530	188.86	29.079	.55231
#3	.02905	.12245	.37450	.34975	187.41	28.969	.55027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6722**	**.78964**	**.53003**	**25.743**	**.31514**	F **10371.**	**.30870**
Stddev	.0455	.00415	.00324	.072	.00182	53.	.00262
%RSD	.47071	.52613	.61166	.28073	.57909	.51240	.84965
#1	9.6593	.79043	.52669	25.688	.31403	10341.	.30805
#2	9.7228	.79334	.53022	25.825	.31414	10339.	.30646
#3	9.6346	.78515	.53316	25.717	.31725	10432.	.31159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092602PS Acquired: 3/28/2011 15:51:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360132-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **15.026**	F **23.974**	F **-2572.1**	**.62485**	**.20757**	F **793.60**	**.00774**
Stddev	4.589	.167	19.7	.00321	.00231	7.09	.00014
%RSD	30.539	.69501	.76716	.51338	1.1107	.89372	1.7629
#1	18.220	23.856	-2563.8	.62214	.20618	786.97	.00788
#2	9.7678	23.902	-2557.9	.62402	.20631	792.77	.00761
#3	17.090	24.165	-2594.6	.62840	.21023	801.08	.00771
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51854**	**1.0392**	**.27365**	**.85954**	**.75259**	F **73.168**
Stddev	.00123	.0043	.00206	.00500	.01114	.475
%RSD	.23771	.41347	.75237	.58173	1.4799	.64867
#1	.51777	1.0396	.27182	.85392	.74440	72.782
#2	.51996	1.0433	.27325	.86118	.74810	73.024
#3	.51789	1.0347	.27588	.86351	.76527	73.698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48687.**	**56711.**
Stddev	28.	237.
%RSD	.05796	.41801
#1	48685.	56765.
#2	48715.	56452.
#3	48659.	56916.

Approved: March 29, 2011

Sample Name: L1103092602SDL Acquired: 3/28/2011 15:54:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360132-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00459**	**128.08**	**.01326**	**.09182**	**.16686**	**.00158**	**3.7405**
Stddev	.00030	1.40	.00157	.00069	.00116	.00001	.0320
%RSD	6.4892	1.0935	11.842	.74732	.69762	.61068	.85622
#1	.00439	127.33	.01259	.09254	.16812	.00159	3.7742
#2	.00493	127.22	.01505	.09117	.16583	.00158	3.7366
#3	.00445	129.70	.01213	.09176	.16661	.00158	3.7105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00232**	**.01455**	**.11424**	**.08191**	**188.54**	**4.3486**	**.05996**
Stddev	.00004	.00034	.00194	.00216	1.74	.0307	.00057
%RSD	1.5612	2.3334	1.6976	2.6405	.92125	.70487	.94763
#1	.00228	.01420	.11362	.08009	190.44	4.3723	.06037
#2	.00233	.01459	.11269	.08132	187.04	4.3594	.05931
#3	.00235	.01488	.11642	.08430	188.14	4.3140	.06018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.6139**	**.55139**	**.00178**	**.14672**	**.04897**	F **10248.**	**.04860**
Stddev	.0436	.00548	.00014	.00305	.00144	164.	.00069
%RSD	.94495	.99454	7.6383	2.0760	2.9355	1.6027	1.4289
#1	4.6530	.55699	.00175	.14325	.04807	10117.	.04780
#2	4.5669	.55113	.00193	.14796	.04821	10196.	.04895
#3	4.6217	.54604	.00166	.14896	.05063	10433.	.04904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092602SDL Acquired: 3/28/2011 15:54:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360132-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.8589**	F **18.182**	F **-2510.0**	**.01272**	**-.00149**	F **104.69**	**.00683**
Stddev	1.3324	.409	45.4	.00264	.00199	1.82	.00017
%RSD	13.515	2.2470	1.8071	20.719	133.78	1.7376	2.4478
#1	10.798	17.912	-2480.6	.01303	-.00301	103.35	.00677
#2	10.445	17.983	-2487.0	.00994	.00076	103.96	.00701
#3	8.3339	18.652	-2562.2	.01519	-.00221	106.76	.00669
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02513**	**.56173**	**.01307**	**.33911**	**.21140**	F **66.417**
Stddev	.00022	.00427	.00108	.00348	.00329	.556
%RSD	.89396	.75995	8.2701	1.0267	1.5552	.83788
#1	.02534	.56665	.01278	.33726	.20898	66.497
#2	.02516	.55906	.01216	.33694	.21007	65.825
#3	.02489	.55948	.01426	.34313	.21514	66.930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49126.**	**57156.**
Stddev	513.	294.
%RSD	1.0432	.51465
#1	49488.	56824.
#2	49352.	57259.
#3	48540.	57384.

Approved: March 29, 2011

Sample Name: L1103092602SDL Acquired: 3/28/2011 15:58:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360132-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**25.964**	**.00284**	**.01652**	**.03289**	**.00033**	**.69959**
Stddev	.00077	.199	.00101	.00149	.00138	.00001	.02527
%RSD	4091.4	.76691	35.706	9.0095	4.1873	4.4237	3.6116
#1	-.00060	26.030	.00307	.01489	.03151	.00034	.67472
#2	-.00022	26.122	.00173	.01781	.03426	.00033	.72523
#3	.00088	25.740	.00371	.01685	.03292	.00031	.69883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00330**	**.02372**	**.01739**	**37.596**	**.93766**	**.00785**
Stddev	.00003	.00006	.00062	.00010	1.486	.03108	.00193
%RSD	9.9668	1.7252	2.6348	.56099	3.9537	3.3143	24.639
#1	.00025	.00332	.02444	.01739	36.076	.91285	.00567
#2	.00028	.00334	.02339	.01729	39.047	.97252	.00936
#3	.00023	.00323	.02332	.01749	37.664	.92762	.00851
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94059**	**.11177**	**-.00010**	**.01884**	**.01009**	F **2199.9**	**.01067**
Stddev	.03815	.00432	.00020	.00660	.00027	22.8	.00071
%RSD	4.0565	3.8632	189.83	35.028	2.6372	1.0375	6.6510
#1	.90276	.10732	-.00033	.01695	.01029	2176.4	.01128
#2	.97906	.11595	-.00004	.01340	.01020	2201.2	.01084
#3	.93995	.11203	.00005	.02618	.00979	2222.0	.00989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092602SDL Acquired: 3/28/2011 15:58:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360132-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.38669**	**4.1361**	F **-590.92**	**.00161**	**-.00351**	**20.225**	**.00124**
Stddev	12.866	.5612	94.88	.00057	.00046	.400	.00024
%RSD	3327.1	13.569	16.057	35.399	13.083	1.9766	19.684
#1	13.929	3.7403	-531.95	.00095	-.00298	19.774	.00147
#2	-4.1060	4.7784	-700.37	.00197	-.00383	20.368	.00098
#3	-10.983	3.8896	-540.44	.00189	-.00372	20.534	.00127
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00475**	**.11080**	**.00412**	**.06984**	**.04787**	**9.7004**
Stddev	.00019	.00402	.00041	.00052	.00055	.4067
%RSD	4.0496	3.6303	10.021	.74864	1.1562	4.1923
#1	.00455	.10646	.00413	.06950	.04728	10.034
#2	.00493	.11440	.00370	.07045	.04838	9.8197
#3	.00478	.11154	.00453	.06958	.04795	9.2473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49985.**	**57582.**
Stddev	529.	1718.
%RSD	1.0584	2.9839
#1	50586.	59531.
#2	49784.	56287.
#3	49587.	56927.

Approved: March 29, 2011

Sample Name: L1103092602SDL Acquired: 3/28/2011 16:01:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG360132-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**4.9009**	**.00237**	**.00170**	**.00622**	**.00009**	**.10169**
Stddev	.00049	.0198	.00072	.00039	.00024	.00001	.00220
%RSD	92.677	.40311	30.276	22.804	3.8016	12.414	2.1612
#1	-.00014	4.8784	.00161	.00143	.00632	.00008	.10330
#2	-.00108	4.9153	.00245	.00151	.00595	.00008	.09919
#3	-.00037	4.9091	.00304	.00214	.00639	.00010	.10259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00085**	**.00447**	**.00345**	**7.3073**	**.25099**	**-.00221**
Stddev	.00009	.00011	.00023	.00037	.2134	.03040	.00030
%RSD	118.32	13.064	5.2565	10.847	2.9207	12.110	13.659
#1	-.00015	.00086	.00473	.00318	7.4187	.28584	-.00192
#2	-.00011	.00096	.00430	.00387	7.0613	.22990	-.00252
#3	.00003	.00074	.00437	.00329	7.4421	.23725	-.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19207**	**.02136**	**-.00038**	**-.00139**	**.00151**	**460.92**	**.00183**
Stddev	.00775	.00036	.00015	.00347	.00036	7.44	.00088
%RSD	4.0361	1.6996	40.009	249.54	23.645	1.6133	48.061
#1	.20087	.02165	-.00042	.00120	.00135	467.91	.00170
#2	.18625	.02095	-.00021	-.00004	.00192	461.74	.00103
#3	.18908	.02149	-.00051	-.00534	.00125	453.11	.00277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092602SDL Acquired: 3/28/2011 16:01:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 125 Custom ID2: Custom ID3:
Comment: WG360132-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.883**	**.70297**	F **-105.21**	**-.00234**	**-.00289**	**2.6874**	**-.00001**
Stddev	6.676	.03388	3.63	.00054	.00046	.1093	.00029
%RSD	61.343	4.8198	3.4541	22.892	15.815	4.0674	4759.5
#1	17.066	.68754	-108.73	-.00263	-.00311	2.5668	-.00018
#2	3.8049	.67955	-101.47	-.00267	-.00236	2.7155	.00033
#3	11.777	.74182	-105.43	-.00172	-.00320	2.7800	-.00017
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**.02171**	**.00165**	**.01370**	**.01114**	**2.3495**
Stddev	.00005	.00100	.00083	.00019	.00018	.1799
%RSD	7.2133	4.6154	50.112	1.4054	1.6315	7.6561
#1	.00070	.02282	.00227	.01352	.01133	2.2948
#2	.00061	.02088	.00196	.01390	.01110	2.5504
#3	.00069	.02143	.00071	.01368	.01097	2.2034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50095.**	**58231.**
Stddev	312.	590.
%RSD	.62369	1.0124
#1	50453.	58256.
#2	49955.	58807.
#3	49877.	57629.

Approved: March 29, 2011

Sample Name: L1103092501 Acquired: 3/28/2011 16:05:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00824**	**391.14**	**.02902**	**.30493**	**.27435**	**.01871**	**.39566**
Stddev	.00041	22.69	.00219	.00755	.00940	.00060	.01515
%RSD	5.0347	5.8017	7.5349	2.4760	3.4266	3.1819	3.8297
#1	-.00861	416.20	.02953	.30283	.28321	.01925	.41038
#2	-.00779	371.97	.03091	.31331	.26449	.01807	.38011
#3	-.00831	385.27	.02663	.29866	.27535	.01881	.39649
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00252**	**.05477**	**.21474**	**.02589**	**591.14**	**17.473**	**.07315**
Stddev	.00017	.00163	.00860	.00372	10.81	.512	.00343
%RSD	6.6870	2.9704	4.0035	14.368	1.8281	2.9324	4.6870
#1	.00246	.05644	.22263	.02933	585.86	17.948	.07611
#2	.00271	.05319	.20558	.02195	603.57	16.930	.06939
#3	.00238	.05469	.21602	.02640	583.99	17.542	.07395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.2327**	**4.4085**	**-.00212**	**1.6549**	**.06939**	F **25298.**	**.02939**
Stddev	.1103	.1075	.00029	.0606	.00305	864.	.00110
%RSD	1.3397	2.4378	13.641	3.6606	4.3885	3.4147	3.7496
#1	8.3171	4.5015	-.00233	1.7120	.07196	26183.	.02882
#2	8.1079	4.2909	-.00179	1.5914	.06602	24457.	.02870
#3	8.2731	4.4332	-.00224	1.6613	.07018	25256.	.03066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092501 Acquired: 3/28/2011 16:05:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **49.827**	F **19.941**	F **-3247.4**	**-.01205**	**-.00566**	F **436.68**	**.01107**
Stddev	7.305	.762	120.8	.00218	.00237	13.55	.00078
%RSD	14.660	3.8210	3.7197	18.094	41.815	3.1025	7.0625
#1	51.210	20.708	-3376.4	-.01236	-.00309	450.62	.01082
#2	41.930	19.184	-3136.9	-.01405	-.00616	423.56	.01044
#3	56.341	19.931	-3228.8	-.00972	-.00775	435.84	.01194
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03275**	**.25224**	**-.00222**	**.30430**	**.12385**	F **244.16**
Stddev	.00115	.00908	.00196	.01071	.00354	10.35
%RSD	3.5082	3.5999	88.255	3.5182	2.8556	4.2399
#1	.03384	.26177	-.00341	.31285	.12791	253.38
#2	.03155	.24368	.00004	.29229	.12215	232.96
#3	.03284	.25127	-.00328	.30775	.12148	246.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49822.**	**61195.**
Stddev	1090.	712.
%RSD	2.1879	1.1630
#1	48687.	60637.
#2	50861.	60950.
#3	49917.	61996.

Approved: March 29, 2011

Sample Name: L1103092502 Acquired: 3/28/2011 16:09:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01839**	**546.51**	**.04690**	**.32454**	**.99450**	**.00839**	**5.8104**
Stddev	.00071	30.91	.00338	.00734	.01298	.00043	.0834
%RSD	3.8477	5.6556	7.1978	2.2620	1.3049	5.1268	1.4356
#1	.01916	571.95	.05080	.31903	1.0094	.00875	5.9058
#2	.01778	512.11	.04480	.33287	.98819	.00791	5.7511
#3	.01823	555.46	.04511	.32173	.98589	.00850	5.7744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00697**	**.05844**	**.56504**	**.28905**	**676.52**	**18.991**	**.30000**
Stddev	.00032	.00550	.03234	.02988	3.17	.211	.00433
%RSD	4.5451	9.4167	5.7233	10.336	.46893	1.1131	1.4428
#1	.00730	.06292	.59272	.31399	673.39	19.232	.30477
#2	.00667	.05230	.52950	.25593	679.73	18.837	.29893
#3	.00694	.06009	.57292	.29722	676.43	18.904	.29631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.979**	**2.1713**	**.00860**	**1.7814**	**.21233**	F **31237.**	**.18194**
Stddev	.123	.0279	.00066	.0321	.02076	2873.	.02063
%RSD	.64645	1.2839	7.6494	1.7995	9.7776	9.1961	11.339
#1	19.065	2.2026	.00875	1.8184	.23069	33678.	.19915
#2	18.838	2.1491	.00788	1.7639	.18980	28072.	.15907
#3	19.033	2.1622	.00917	1.7618	.21651	31962.	.18761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092502 Acquired: 3/28/2011 16:09:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **66.927**	F **42.276**	F **-6363.6**	**-.00964**	**-.00129**	F **592.52**	**.02707**
Stddev	2.138	3.874	610.8	.00431	.00333	53.12	.00155
%RSD	3.1943	9.1632	9.5983	44.733	259.09	8.9644	5.7118
#1	65.501	45.308	-6867.7	-.00639	-.00513	635.17	.02832
#2	69.385	37.912	-5684.3	-.01453	.00045	533.02	.02534
#3	65.894	43.608	-6538.7	-.00800	.00082	609.38	.02756
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06999**	**2.1108**	**.04264**	**1.4767**	**.69380**	F **314.85**
Stddev	.00101	.0197	.00143	.0790	.05721	17.18
%RSD	1.4395	.93331	3.3455	5.3501	8.2457	5.4555
#1	.07114	2.1335	.04410	1.5407	.74516	328.80
#2	.06930	2.0984	.04258	1.3884	.63214	295.66
#3	.06952	2.1005	.04124	1.5011	.70410	320.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49310.**	**59641.**
Stddev	2798.	578.
%RSD	5.6737	.96909
#1	46981.	59064.
#2	52413.	60220.
#3	48536.	59639.

Approved: March 29, 2011

Sample Name: L1103092503 Acquired: 3/28/2011 16:12:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03537**	**466.47**	**.04952**	**.39579**	**.89196**	**.00280**	**1.8227**
Stddev	.00024	17.36	.00354	.01168	.00331	.00007	.0079
%RSD	.67981	3.7210	7.1516	2.9505	.37079	2.4423	.43459
#1	.03561	478.34	.05207	.39248	.88822	.00287	1.8270
#2	.03513	474.52	.05100	.38613	.89316	.00278	1.8135
#3	.03536	446.55	.04547	.40877	.89450	.00274	1.8275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00500**	**.12127**	**.55066**	**.32448**	**818.95**	**24.063**	**.14259**
Stddev	.00017	.00786	.02446	.02633	12.55	.064	.00057
%RSD	3.4808	6.4848	4.4425	8.1157	1.5324	.26450	.40246
#1	.00504	.12609	.56184	.34039	819.25	24.011	.14312
#2	.00481	.12551	.56753	.33896	806.25	24.043	.14198
#3	.00515	.11219	.52260	.29408	831.34	24.134	.14267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.334**	**6.9535**	**.00782**	**9.6383**	**.19342**	F **50217.**	**.24771**
Stddev	.299	.0685	.00076	.0369	.01335	3127.	.01499
%RSD	1.3998	.98501	9.7088	.38313	6.9031	6.2270	6.0532
#1	21.152	6.9094	.00788	9.6243	.20120	52041.	.25681
#2	21.172	6.9187	.00854	9.6105	.20106	52003.	.25591
#3	21.679	7.0324	.00702	9.6802	.17800	46606.	.23040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092503 Acquired: 3/28/2011 16:12:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.956**	F **44.536**	F **-7442.9**	**-.00915**	**.00395**	F **962.40**	**.03238**
Stddev	7.136	2.950	482.7	.00139	.00168	53.84	.00104
%RSD	10.349	6.6240	6.4850	15.220	42.593	5.5944	3.2108
#1	75.911	46.262	-7697.5	-.00960	.00328	995.25	.03346
#2	69.305	46.216	-7744.9	-.00759	.00587	991.69	.03231
#3	61.651	41.129	-6886.2	-.01026	.00271	900.26	.03138
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05123**	**4.3748**	**.05067**	**1.6548**	**.56680**	F **324.41**
Stddev	.00023	.0202	.00036	.0677	.03020	15.23
%RSD	.44383	.46110	.71538	4.0911	5.3289	4.6934
#1	.05129	4.3586	.05026	1.6916	.58342	330.84
#2	.05098	4.3684	.05087	1.6961	.58504	335.36
#3	.05142	4.3974	.05090	1.5766	.53193	307.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47785.**	**58630.**
Stddev	2063.	606.
%RSD	4.3170	1.0330
#1	46604.	58934.
#2	46583.	59024.
#3	50166.	57933.

Approved: March 29, 2011

Sample Name: L1103092504 Acquired: 3/28/2011 16:16:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02587**	**497.11**	**.02054**	**.29618**	**1.1063**	**.00369**	**1.4498**
Stddev	.00084	4.12	.00012	.00729	.0081	.00009	.0158
%RSD	3.2479	.82866	.59493	2.4602	.73216	2.4707	1.0889
#1	.02651	500.87	.02042	.28788	1.0974	.00358	1.4317
#2	.02492	492.70	.02066	.30152	1.1085	.00372	1.4608
#3	.02618	497.75	.02053	.29915	1.1132	.00376	1.4568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00346**	**.13399**	**.25013**	**.29367**	**637.39**	**19.222**	**.17351**
Stddev	.00008	.00048	.00170	.00336	13.49	.147	.00152
%RSD	2.2956	.35818	.67786	1.1453	2.1164	.76410	.87431
#1	.00339	.13455	.25149	.29750	621.88	19.053	.17180
#2	.00354	.13371	.24823	.29231	646.42	19.311	.17404
#3	.00343	.13372	.25068	.29121	643.86	19.303	.17469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.556**	**5.2021**	**.00250**	**.97218**	**.18926**	F **35271.**	**.15033**
Stddev	.181	.0582	.00025	.00323	.00063	84.	.00158
%RSD	1.0325	1.1186	10.190	.33196	.33044	.23943	1.0502
#1	17.348	5.1350	.00258	.97028	.18993	35337.	.14851
#2	17.637	5.2326	.00270	.97591	.18869	35176.	.15124
#3	17.682	5.2387	.00221	.97036	.18915	35301.	.15126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092504 Acquired: 3/28/2011 16:16:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **71.331**	F **40.231**	F **-6703.0**	**-.01278**	**-.00038**	F **603.74**	**.02631**
Stddev	9.801	.487	27.1	.00372	.00110	6.50	.00031
%RSD	13.740	1.2093	.40374	29.099	289.46	1.0763	1.1949
#1	65.357	40.720	-6720.5	-.00951	-.00072	607.61	.02652
#2	65.993	40.224	-6671.9	-.01201	.00085	596.23	.02595
#3	82.642	39.747	-6716.8	-.01683	-.00127	607.37	.02646
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04212**	**3.9399**	**.03806**	**1.3919**	**.63778**	F **244.88**
Stddev	.00035	.0312	.00034	.0089	.00206	.83
%RSD	.83095	.79294	.88519	.64290	.32351	.34041
#1	.04174	3.9042	.03796	1.3840	.63598	244.39
#2	.04220	3.9534	.03777	1.3901	.63732	244.42
#3	.04243	3.9621	.03843	1.4016	.64003	245.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48018.**	**60522.**
Stddev	108.	319.
%RSD	.22435	.52662
#1	47894.	60890.
#2	48087.	60358.
#3	48073.	60320.

Approved: March 29, 2011

Sample Name: L1103092505 Acquired: 3/28/2011 16:20:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00720**	**252.23**	**.03812**	**.65456**	**.28469**	**.01635**	**3.2124**
Stddev	.00075	2.25	.00086	.00647	.00072	.00008	.0203
%RSD	10.425	.89264	2.2639	.98855	.25232	.50719	.63219
#1	-.00734	250.33	.03822	.65190	.28491	.01627	3.2080
#2	-.00786	254.71	.03892	.64984	.28389	.01644	3.1947
#3	-.00638	251.64	.03721	.66194	.28528	.01635	3.2346
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**.33257**	**.03914**	**.17637**	F **1427.5**	**9.1308**	**.04915**
Stddev	.00006	.00272	.00069	.00528	7.3	.0504	.00014
%RSD	1.1302	.81787	1.7704	2.9942	.50844	.55186	.29260
#1	.00501	.32982	.03866	.17064	1423.8	9.1041	.04931
#2	.00495	.33263	.03993	.17744	1422.9	9.0995	.04911
#3	.00507	.33525	.03882	.18104	1435.9	9.1890	.04903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					900.00		
Low Limit					-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.9696**	**9.1231**	**-.00810**	**1.1487**	**.11698**	F **21810.**	**.07766**
Stddev	.0200	.0750	.00023	.0073	.00114	32.	.00082
%RSD	.33536	.82209	2.8087	.63275	.97527	.14751	1.0595
#1	5.9802	9.1141	-.00811	1.1468	.11568	21773.	.07826
#2	5.9465	9.0530	-.00832	1.1426	.11746	21826.	.07800
#3	5.9820	9.2022	-.00787	1.1568	.11781	21832.	.07673
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092505 Acquired: 3/28/2011 16:20:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **53.135**	F **36.667**	F **-5623.8**	F **-.02167**	**-.00533**	F **959.56**	**.01489**
Stddev	2.191	.598	34.6	.00091	.00260	3.05	.00031
%RSD	4.1230	1.6321	.61551	4.1938	48.738	.31765	2.1075
#1	51.785	36.019	-5600.9	-.02218	-.00792	961.10	.01466
#2	51.957	36.781	-5606.9	-.02062	-.00273	961.53	.01476
#3	55.663	37.199	-5663.6	-.02221	-.00535	956.05	.01525
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000	90.000		90.000	
Low Limit	-.00400	-.00400	-.00400	-.02000		-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04753**	**.14528**	**.00450**	**.21520**	**.28129**	F **157.90**
Stddev	.00017	.00168	.00065	.00083	.00216	1.49
%RSD	.35123	1.1553	14.429	.38569	.76675	.94190
#1	.04759	.14638	.00453	.21464	.27967	157.28
#2	.04734	.14610	.00383	.21616	.28046	156.83
#3	.04766	.14335	.00513	.21481	.28374	159.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51053.**	**63790.**
Stddev	78.	406.
%RSD	.15303	.63608
#1	51139.	63631.
#2	51033.	64251.
#3	50986.	63487.

Approved: March 29, 2011

Sample Name: L1103092506 Acquired: 3/28/2011 16:23:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00784**	**300.91**	**.05570**	**.25488**	**.49923**	**.01971**	**2.7892**
Stddev	.00044	5.92	.00199	.00400	.00157	.00043	.0210
%RSD	5.5851	1.9682	3.5749	1.5685	.31481	2.1610	.75180
#1	-.00760	306.54	.05784	.25556	.49840	.02018	2.7928
#2	-.00758	294.73	.05391	.25849	.50104	.01935	2.8081
#3	-.00835	301.47	.05535	.25058	.49824	.01960	2.7667
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00268**	**.29732**	**.38534**	**.30142**	**517.39**	**16.080**	**.13955**
Stddev	.00003	.01001	.00908	.00930	5.16	.094	.00113
%RSD	1.0924	3.3654	2.3561	3.0849	.99636	.58430	.80776
#1	.00270	.30843	.39557	.31189	519.61	16.114	.13830
#2	.00269	.28901	.37825	.29411	521.06	16.153	.14048
#3	.00264	.29453	.38220	.29826	511.50	15.974	.13986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9134**	**5.8858**	**.00105**	**3.1876**	**.26163**	F **31176.**	**.08871**
Stddev	.0484	.0472	.00018	.0238	.00810	1046.	.00398
%RSD	.48827	.80188	17.514	.74611	3.0976	3.3548	4.4844
#1	9.8693	5.8881	.00125	3.1903	.27040	32330.	.09330
#2	9.9652	5.9318	.00101	3.2100	.25442	30290.	.08637
#3	9.9058	5.8375	.00089	3.1627	.26006	30909.	.08645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092506 Acquired: 3/28/2011 16:23:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **59.654**	F **30.041**	F **-4654.3**	**-.00987**	**-.00399**	F **687.36**	**.01194**
Stddev	1.589	.767	141.1	.00080	.00065	13.55	.00007
%RSD	2.6633	2.5519	3.0324	8.1124	16.199	1.9712	.55844
#1	58.512	30.902	-4810.8	-.01004	-.00471	702.65	.01201
#2	58.980	29.432	-4536.7	-.00900	-.00345	682.59	.01189
#3	61.468	29.788	-4615.3	-.01058	-.00382	676.84	.01190
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05383**	**.32215**	**-.00072**	**.37525**	**.30791**	F **339.85**
Stddev	.00032	.00651	.00071	.00763	.00880	7.42
%RSD	.59863	2.0205	97.576	2.0328	2.8587	2.1835
#1	.05394	.31766	-.00035	.38335	.31793	348.12
#2	.05408	.31918	-.00028	.36820	.30144	333.78
#3	.05346	.32961	-.00154	.37422	.30436	337.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**53597.**	**63950.**
Stddev	1193.	510.
%RSD	2.2256	.79691
#1	52273.	63588.
#2	54589.	63730.
#3	53929.	64533.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 16:27:24 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40658**	**9.8549**	**.40128**	**.49832**	**.97125**	**.05036**	**9.6990**
Stddev	.00298	.1078	.00549	.00480	.00923	.00041	.0419
%RSD	.73389	1.0938	1.3689	.96264	.95024	.81109	.43172
#1	.40652	9.7746	.40056	.49699	.96090	.05042	9.6518
#2	.40363	9.8127	.39618	.49433	.97863	.04992	9.7316
#3	.40959	9.9774	.40710	.50364	.97422	.05073	9.7137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05023**	**.20401**	**.50798**	**.51170**	**3.9246**	**48.738**	**.96373**
Stddev	.00080	.00240	.00515	.00745	.0146	.219	.00778
%RSD	1.5875	1.1761	1.0136	1.4557	.37241	.44941	.80743
#1	.05007	.20343	.50932	.51182	3.9370	48.485	.95507
#2	.04952	.20195	.50230	.50419	3.9085	48.865	.97015
#3	.05109	.20664	.51233	.51909	3.9284	48.864	.96597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9073**	**.47866**	**.98750**	**49.121**	**.50731**	F **13.505**	**.50992**
Stddev	.0403	.00140	.01388	.122	.00602	5.394	.00603
%RSD	.40705	.29203	1.4052	.24809	1.1863	39.941	1.1833
#1	9.8781	.47857	.98995	48.993	.50787	16.273	.51010
#2	9.8905	.47730	.97256	49.235	.50103	16.954	.50379
#3	9.9533	.48009	.99999	49.135	.51303	7.2890	.51586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 16:27:24 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **19.812**	**10.377**	**10.129**	**1.1985**	**.39198**	F **6.0383**	**1.0129**
Stddev	8.542	.112	3.500	.0182	.00757	.4360	.0176
%RSD	43.113	1.0764	34.555	1.5180	1.9307	7.2208	1.7352
#1	12.508	10.293	11.901	1.1957	.39232	5.5732	1.0088
#2	29.204	10.335	12.388	1.1818	.38425	6.4379	.99776
#3	17.725	10.504	6.0972	1.2179	.39937	6.1037	1.0322
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000					5.0000	
Range	10.000%					10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97198**	**.97087**	**.51243**	**1.0161**	**1.0215**	F **2.9585**
Stddev	.00526	.00618	.00717	.0087	.0079	.1848
%RSD	.54113	.63668	1.3995	.85888	.77170	6.2480
#1	.96608	.96374	.51048	1.0133	1.0208	2.7641
#2	.97620	.97467	.50643	1.0091	1.0140	3.1320
#3	.97365	.97421	.52037	1.0259	1.0297	2.9795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48876.**	**57186.**
Stddev	433.	542.
%RSD	.88614	.94805
#1	48986.	56627.
#2	49244.	57709.
#3	48399.	57222.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 16:30:49 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.00787**	**-.00044**	**.00136**	**-.00014**	**.00003**	**-.00804**
Stddev	.00080	.00273	.00033	.00048	.00007	.00002	.00408
%RSD	161.26	34.713	75.203	35.272	48.901	65.623	50.719
#1	-.00064	.00617	-.00082	.00123	-.00020	.00001	-.00552
#2	.00037	.01101	-.00018	.00189	-.00016	.00005	-.01274
#3	-.00121	.00641	-.00033	.00096	-.00007	.00004	-.00585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00001**	**.00013**	**-.00012**	**.01075**	**.13296**	**-.00523**
Stddev	.00011	.00009	.00035	.00063	.00928	.00705	.00133
%RSD	222.20	1087.2	265.71	514.11	86.283	5.3038	25.485
#1	.00007	-.00008	.00050	-.00056	.02144	.13638	-.00652
#2	-.00007	.00009	-.00021	.00060	.00475	.13765	-.00532
#3	-.00016	-.00003	.00011	-.00041	.00607	.12485	-.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00873**	**-.00003**	**-.00005**	**.00170**	**.00029**	F **16.837**	**-.00102**
Stddev	.01396	.00007	.00022	.00177	.00027	15.182	.00040
%RSD	159.98	225.79	478.33	104.08	93.114	90.169	39.681
#1	.01861	-.00009	-.00010	.00117	.00006	33.931	-.00102
#2	.01481	-.00006	-.00024	.00368	.00059	4.9200	-.00142
#3	-.00724	.00005	.00020	.00026	.00022	11.661	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 16:30:49 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.545**	F **.07314**	F **-4.2393**	**-.00116**	**-.00282**	**.29268**	**-.00005**
Stddev	6.106	.02178	4.1538	.00118	.00113	.21905	.00023
%RSD	52.891	29.784	97.985	101.53	39.971	74.842	487.81
#1	5.7330	.07314	-1.4354	-.00098	-.00361	.18036	.00015
#2	17.908	.05135	-9.0114	-.00008	-.00153	.15258	.00001
#3	10.993	.09492	-2.2711	-.00242	-.00332	.54511	-.00029
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00051**	**.00067**	**-.00031**	**.00174**	F **.14926**
Stddev	.00003	.00042	.00060	.00018	.00051	.22352
%RSD	20.694	82.153	89.493	59.462	29.439	149.75
#1	-.00010	.00032	.00018	-.00043	.00134	.26769
#2	-.00012	.00022	.00049	-.00040	.00232	-.10855
#3	-.00015	.00098	.00134	-.00010	.00157	.28865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49551.**	**57723.**
Stddev	876.	1149.
%RSD	1.7670	1.9898
#1	50541.	56765.
#2	49236.	58997.
#3	48877.	57408.

Approved: March 29, 2011

Sample Name: L1103092605 Acquired: 3/28/2011 16:34:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03404**	**436.10**	**.04373**	**.36533**	**.77875**	**.00161**	**5.2245**
Stddev	.00118	11.62	.00188	.01439	.03116	.00005	.2168
%RSD	3.4591	2.6641	4.2907	3.9391	4.0013	3.2066	4.1500
#1	.03357	442.30	.04482	.36754	.77813	.00163	5.2187
#2	.03317	443.30	.04480	.34996	.74790	.00166	5.0106
#3	.03538	422.70	.04156	.37849	.81021	.00156	5.4441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00876**	**.09795**	**.44120**	**.31632**	**760.16**	**18.890**	**.21134**
Stddev	.00016	.00445	.01218	.01662	21.15	.731	.00827
%RSD	1.8156	4.5401	2.7610	5.2535	2.7825	3.8705	3.9117
#1	.00892	.10077	.44521	.32495	765.96	18.821	.21144
#2	.00860	.10026	.45086	.32685	736.71	18.196	.20302
#3	.00877	.09283	.42752	.29716	777.80	19.654	.21955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.306**	**4.5800**	**.00727**	**2.4075**	**.18221**	F **33621.**	**.23008**
Stddev	.648	.1773	.00025	.0968	.00785	1208.	.01035
%RSD	3.5400	3.8714	3.4626	4.0224	4.3069	3.5923	4.4967
#1	18.121	4.5408	.00745	2.4091	.18593	34368.	.23682
#2	17.771	4.4256	.00737	2.3099	.18751	34267.	.23524
#3	19.026	4.7736	.00698	2.5036	.17320	32228.	.21817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092605 Acquired: 3/28/2011 16:34:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.967**	F **72.400**	F **-11928.**	**.05750**	**.00547**	F **485.51**	**.02957**
Stddev	8.543	3.106	511.	.00388	.00263	19.01	.00110
%RSD	13.786	4.2896	4.2870	6.7422	48.022	3.9164	3.7358
#1	71.818	74.465	-12319.	.05847	.00244	498.03	.03055
#2	57.489	73.907	-12115.	.06081	.00691	494.87	.02977
#3	56.593	68.829	-11349.	.05324	.00706	463.63	.02837
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04345**	**4.7755**	**.04422**	**1.3747**	**.85834**	F **273.63**
Stddev	.00174	.1868	.00165	.0339	.02785	6.17
%RSD	4.0114	3.9112	3.7294	2.4630	3.2449	2.2563
#1	.04350	4.7741	.04281	1.3885	.87238	277.11
#2	.04169	4.5894	.04380	1.3995	.87638	277.28
#3	.04518	4.9629	.04603	1.3361	.82626	266.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47925.**	**59315.**
Stddev	1267.	1196.
%RSD	2.6443	2.0169
#1	47161.	59874.
#2	47226.	60130.
#3	49388.	57942.

Approved: March 29, 2011

Sample Name: L1103092606 Acquired: 3/28/2011 16:38:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04422**	**566.72**	**.04582**	**.36778**	**.93689**	^ *****	**.80222**
Stddev	.00057	26.60	.00282	.00317	.00174	-----	.00332
%RSD	1.2952	4.6932	6.1557	.86076	.18577	-----	.41391
#1	.04356	576.35	.04727	.36541	.93496	^ -----	.79865
#2	.04450	536.65	.04257	.37137	.93735	^ -----	.80279
#3	.04459	587.16	.04762	.36655	.93835	^ -----	.80522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00449**	**.10393**	**.39628**	**.35009**	**765.06**	**28.959**	**.26573**
Stddev	.00006	.00853	.02291	.03048	4.05	.025	.00141
%RSD	1.3282	8.2035	5.7819	8.7068	.52995	.08679	.52963
#1	.00455	.10755	.40556	.36441	763.92	28.943	.26473
#2	.00443	.09419	.37018	.31508	761.70	28.947	.26734
#3	.00448	.11004	.41309	.37077	769.56	28.988	.26513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.988**	**3.5518**	**.00581**	**.42380**	**.22891**	F **27396.**	**.26977**
Stddev	.187	.0124	.00050	.00252	.01857	2120.	.02186
%RSD	.72121	.35057	8.6027	.59531	8.1126	7.7375	8.1041
#1	25.882	3.5497	.00579	.42664	.23718	28311.	.28183
#2	25.877	3.5405	.00532	.42293	.20764	24972.	.24453
#3	26.204	3.5651	.00632	.42183	.24192	28904.	.28295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103092606 Acquired: 3/28/2011 16:38:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **85.582**	F **38.348**	F **-6536.5**	**-.01235**	**-.00151**	F **678.62**	**.03354**
Stddev	8.735	2.961	498.5	.00418	.00373	51.51	.00231
%RSD	10.206	7.7220	7.6266	33.896	247.72	7.5898	6.9019
#1	89.650	39.528	-6744.2	-.01185	.00220	697.15	.03446
#2	91.541	34.978	-5967.7	-.01676	-.00145	620.41	.03090
#3	75.556	40.537	-6897.5	-.00843	-.00526	718.29	.03525
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05836**	**6.4448**	**.04605**	**1.4855**	**.82673**	F **308.47**
Stddev	.00014	.0036	.00132	.0765	.05774	15.81
%RSD	.23316	.05604	2.8641	5.1495	6.9839	5.1241
#1	.05829	6.4416	.04667	1.5122	.85437	314.31
#2	.05852	6.4487	.04453	1.3992	.76037	290.57
#3	.05827	6.4440	.04694	1.5450	.86546	320.52
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49014.**	**59827.**
Stddev	2580.	458.
%RSD	5.2645	.76519
#1	47902.	59615.
#2	51964.	60352.
#3	47176.	59513.

Approved: March 29, 2011

Sample Name: L1103092501 Acquired: 3/28/2011 16:41:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**4.8346**	**.00308**	**.00167**	**.00300**	**.00024**	**-.04273**
Stddev	.00034	.1679	.00069	.00030	.00007	.00002	.00735
%RSD	364.74	3.4732	22.485	18.031	2.4133	9.5072	17.191
#1	.00038	4.8729	.00384	.00166	.00292	.00024	-.04347
#2	-.00028	4.9800	.00249	.00197	.00300	.00027	-.03504
#3	.00018	4.6508	.00291	.00137	.00306	.00023	-.04968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00106**	**.00184**	**.00028**	**7.3062**	**.31385**	**-.00475**
Stddev	.00003	.00009	.00015	.00031	.0668	.00451	.00097
%RSD	14.534	8.4501	8.0257	112.96	.91383	1.4358	20.404
#1	-.00017	.00115	.00178	.00016	7.2345	.31896	-.00363
#2	-.00016	.00097	.00174	.00004	7.3176	.31214	-.00529
#3	-.00021	.00105	.00201	.00063	7.3665	.31045	-.00533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10660**	**.05495**	**-.00057**	**.05677**	**.00041**	**369.06**	**.00036**
Stddev	.01496	.00090	.00008	.00829	.00052	3.93	.00057
%RSD	14.029	1.6419	14.252	14.606	127.81	1.0651	160.30
#1	.09316	.05405	-.00051	.04949	.00001	367.23	.00099
#2	.10393	.05495	-.00066	.05502	.00021	373.58	.00021
#3	.12271	.05585	-.00054	.06580	.00099	366.38	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092501 Acquired: 3/28/2011 16:41:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.589**	**.29345**	F **-60.462**	**-.00322**	**-.00147**	**4.5854**	**-.00019**
Stddev	2.986	.04324	6.449	.00033	.00153	.1754	.00021
%RSD	23.722	14.736	10.667	10.145	104.52	3.8244	108.81
#1	9.1811	.28929	-57.612	-.00358	-.00027	4.5484	-.00012
#2	13.840	.33862	-67.845	-.00310	-.00093	4.4315	-.00003
#3	14.748	.25243	-55.928	-.00296	-.00320	4.7763	-.00042
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00314**	**.00052**	**.00317**	**.00226**	**.43765**
Stddev	.00005	.00050	.00078	.00007	.00199	.27725
%RSD	119.70	16.032	151.15	2.3520	88.441	63.350
#1	.00007	.00265	.00002	.00324	.00096	.46249
#2	-.00002	.00311	.00142	.00318	.00125	.14881
#3	.00008	.00366	.00011	.00309	.00455	.70164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51533.**	**58525.**
Stddev	779.	661.
%RSD	1.5121	1.1288
#1	51908.	59084.
#2	50637.	58695.
#3	52054.	57796.

Approved: March 29, 2011

Sample Name: L1103092502 Acquired: 3/28/2011 16:45:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**6.0539**	**.00140**	**.00124**	**.00954**	**.00010**	**.01064**
Stddev	.00060	.1330	.00063	.00067	.00037	.00001	.00329
%RSD	190.01	2.1965	45.334	53.736	3.8347	9.9891	30.943
#1	.00019	5.9159	.00181	.00136	.00949	.00010	.00996
#2	-.00098	6.1812	.00067	.00052	.00920	.00009	.00773
#3	-.00016	6.0646	.00171	.00185	.00993	.00011	.01421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00073**	**.00590**	**.00365**	**7.2515**	**.27785**	**-.00128**
Stddev	.00001	.00011	.00018	.00005	.2183	.02578	.00057
%RSD	10.187	15.710	2.9686	1.3321	3.0097	9.2782	44.226
#1	-.00011	.00065	.00569	.00359	7.1772	.28125	-.00192
#2	-.00013	.00067	.00599	.00366	7.0801	.25055	-.00106
#3	-.00011	.00086	.00601	.00368	7.4973	.30177	-.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19687**	**.02282**	**-.00046**	**.01032**	**.00264**	**411.54**	**.00335**
Stddev	.00536	.00074	.00014	.00506	.00018	7.95	.00101
%RSD	2.7251	3.2283	30.364	49.045	6.8678	1.9312	30.084
#1	.20305	.02253	-.00060	.01572	.00243	404.50	.00258
#2	.19340	.02228	-.00032	.00568	.00274	420.16	.00297
#3	.19415	.02366	-.00046	.00957	.00275	409.96	.00449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092502 Acquired: 3/28/2011 16:45:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **13.343**	**.47390**	F **-80.224**	**-.00380**	**-.00352**	**6.0566**	**-.00009**
Stddev	11.920	.03989	8.220	.00050	.00161	.1064	.00023
%RSD	89.333	8.4170	10.247	13.165	45.662	1.7560	246.53
#1	26.750	.42960	-77.361	-.00367	-.00245	5.9355	-.00024
#2	9.3350	.50696	-89.493	-.00435	-.00274	6.1348	.00017
#3	3.9437	.48515	-73.819	-.00338	-.00536	6.0995	-.00021
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.02129**	**.00202**	**.01472**	**.01182**	**2.4887**
Stddev	.00004	.00139	.00059	.00036	.00087	.1680
%RSD	10.016	6.5189	29.276	2.4143	7.3178	6.7509
#1	.00032	.02019	.00146	.01433	.01090	2.3353
#2	.00038	.02082	.00196	.01503	.01261	2.6682
#3	.00039	.02285	.00264	.01478	.01196	2.4625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50927.**	**59342.**
Stddev	874.	1342.
%RSD	1.7167	2.2613
#1	51937.	60439.
#2	50435.	59742.
#3	50411.	57846.

Approved: March 29, 2011

Sample Name: L1103092503 Acquired: 3/28/2011 16:49:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**4.6670**	**.00169**	**.00221**	**.00847**	**.00005**	**-.03309**
Stddev	.00042	.1216	.00111	.00077	.00020	.00001	.00461
%RSD	89.308	2.6050	65.617	34.788	2.3544	13.217	13.926
#1	-.00042	4.5691	.00112	.00288	.00830	.00005	-.02777
#2	-.00091	4.6289	.00296	.00238	.00869	.00005	-.03572
#3	-.00008	4.8031	.00098	.00137	.00843	.00004	-.03579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00148**	**.00536**	**.00380**	**8.7476**	**.31593**	**-.00336**
Stddev	.00002	.00014	.00013	.00017	.1745	.02459	.00098
%RSD	13.457	9.1905	2.4030	4.5577	1.9944	7.7834	29.234
#1	-.00013	.00143	.00546	.00393	8.6717	.32599	-.00419
#2	-.00014	.00137	.00522	.00387	8.9472	.33390	-.00362
#3	-.00017	.00163	.00540	.00360	8.6240	.28791	-.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22720**	**.07241**	**-.00045**	**.08021**	**.00221**	**608.28**	**.00237**
Stddev	.01072	.00152	.00003	.00279	.00035	8.56	.00018
%RSD	4.7205	2.0973	6.9832	3.4755	15.669	1.4070	7.5000
#1	.23783	.07075	-.00048	.08280	.00239	614.91	.00228
#2	.22739	.07372	-.00042	.07726	.00243	598.62	.00226
#3	.21638	.07278	-.00046	.08056	.00181	611.31	.00258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092503 Acquired: 3/28/2011 16:49:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-11.116**	**.46973**	F **-90.675**	**-.00361**	**-.00289**	**9.0951**	**-.00007**
Stddev	3.381	.05570	4.474	.00076	.00093	.4267	.00008
%RSD	30.410	11.857	4.9340	21.105	32.160	4.6917	109.27
#1	-9.3723	.41940	-90.289	-.00447	-.00318	8.6236	-.00016
#2	-15.013	.46022	-86.407	-.00301	-.00184	9.4547	-.00002
#3	-8.9639	.52958	-95.329	-.00335	-.00363	9.2069	-.00003
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.04296**	**.00143**	**.01578**	**.01064**	**2.1591**
Stddev	.00005	.00054	.00038	.00045	.00044	.1611
%RSD	25.324	1.2625	26.808	2.8672	4.1191	7.4618
#1	.00016	.04278	.00127	.01527	.01036	2.1761
#2	.00020	.04356	.00115	.01595	.01042	2.3111
#3	.00027	.04252	.00187	.01613	.01115	1.9902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51537.**	**56969.**
Stddev	869.	967.
%RSD	1.6867	1.6981
#1	52047.	56946.
#2	52030.	56014.
#3	50533.	57948.

Approved: March 29, 2011

Sample Name: L1103092504 Acquired: 3/28/2011 16:52:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**5.1545**	**.00123**	**.00078**	**.01115**	**.00005**	**-.03401**
Stddev	.00035	.2046	.00079	.00046	.00033	.00001	.00289
%RSD	76.372	3.9698	64.190	59.246	2.9811	21.428	8.4888
#1	-.00083	5.1775	.00115	.00025	.01085	.00004	-.03651
#2	-.00013	4.9393	.00205	.00098	.01151	.00006	-.03085
#3	-.00041	5.3466	.00048	.00111	.01110	.00004	-.03466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00157**	**.00228**	**.00300**	**6.9982**	**.22373**	**-.00103**
Stddev	.00005	.00012	.00022	.00027	.1523	.00688	.00082
%RSD	25.114	7.8960	9.6206	8.9730	2.1767	3.0748	79.027
#1	-.00013	.00152	.00250	.00301	6.8343	.21746	-.00198
#2	-.00022	.00147	.00206	.00273	7.1354	.22265	-.00054
#3	-.00019	.00171	.00227	.00327	7.0249	.23109	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19625**	**.05625**	**-.00060**	**-.00640**	**.00173**	**441.61**	**.00157**
Stddev	.00590	.00103	.00009	.00787	.00016	17.03	.00058
%RSD	3.0055	1.8290	15.768	122.97	9.4591	3.8559	36.712
#1	.19522	.05510	-.00064	-.01473	.00155	425.49	.00147
#2	.20259	.05656	-.00049	-.00536	.00186	439.91	.00219
#3	.19093	.05709	-.00067	.00090	.00179	459.42	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092504 Acquired: 3/28/2011 16:52:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-8.9365**	**.38957**	F **-81.955**	**-.00276**	**-.00282**	**5.2869**	**-.00002**
Stddev	12.473	.06191	6.361	.00097	.00049	.1370	.00003
%RSD	139.57	15.892	7.7619	35.034	17.484	2.5911	125.22
#1	-20.451	.39340	-79.067	-.00261	-.00280	5.1504	-.00004
#2	-10.672	.32583	-77.550	-.00188	-.00331	5.2860	.00001
#3	4.3135	.44948	-89.248	-.00379	-.00233	5.4243	-.00005
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.04128**	**.00171**	**.01366**	**.01169**	**1.1312**
Stddev	.00000	.00144	.00077	.00066	.00149	.1262
%RSD	2.2173	3.4818	45.100	4.8614	12.723	11.157
#1	.00017	.03966	.00128	.01327	.01093	1.2768
#2	.00016	.04240	.00259	.01327	.01074	1.0616
#3	.00016	.04178	.00125	.01442	.01340	1.0551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51139.**	**57110.**
Stddev	879.	598.
%RSD	1.7186	1.0463
#1	51686.	57146.
#2	51605.	56495.
#3	50125.	57688.

Approved: March 29, 2011

Sample Name: L1103092505 Acquired: 3/28/2011 16:56:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.01298**	**.00186**	**-.00254**	**-.00016**	**.00002**	**-.05026**
Stddev	.00023	.00263	.00088	.00050	.00006	.00001	.00266
%RSD	48.684	20.233	47.535	19.652	38.092	63.124	5.2909
#1	-.00062	-.01306	.00096	-.00219	-.00018	.00001	-.04783
#2	-.00020	-.01557	.00189	-.00311	-.00020	.00002	-.04985
#3	-.00057	-.01032	.00272	-.00233	-.00009	.00004	-.05310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00017**	**-.00001**	**.00009**	**.00076**	**.00498**	**-.00238**
Stddev	.00003	.00002	.00021	.00009	.00279	.00626	.00010
%RSD	12.680	10.746	2174.0	94.257	365.21	125.60	4.2301
#1	-.00023	.00019	.00023	.00017	.00271	.00433	-.00241
#2	-.00018	.00015	-.00012	.00012	.00201	.01154	-.00246
#3	-.00020	.00018	-.00015	.00000	-.00243	-.00092	-.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00246**	**-.00049**	**-.00054**	**-.01427**	**-.00039**	**43.353**	**-.00022**
Stddev	.01225	.00038	.00007	.00710	.00030	11.228	.00126
%RSD	498.00	78.368	13.065	49.714	75.892	25.899	584.70
#1	.00905	-.00006	-.00052	-.02158	-.00005	55.983	.00037
#2	-.01534	-.00060	-.00048	-.01382	-.00058	39.573	.00065
#3	-.00109	-.00081	-.00062	-.00741	-.00054	34.502	-.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092505 Acquired: 3/28/2011 16:56:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-15.250**	**.05682**	F **-20.581**	**-.00236**	**-.00344**	**-.62002**	**-.00031**
Stddev	4.940	.03527	4.868	.00139	.00039	.37756	.00011
%RSD	32.392	62.061	23.653	58.947	11.324	60.894	36.081
#1	-16.165	.05079	-25.000	-.00289	-.00370	-.96908	-.00033
#2	-19.669	.02496	-21.381	-.00342	-.00299	-.21929	-.00019
#3	-9.9171	.09472	-15.363	-.00078	-.00363	-.67169	-.00041
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00008**	**.00160**	**-.00023**	**.00316**	**.57771**
Stddev	.00004	.00001	.00045	.00027	.00052	.20584
%RSD	11.315	15.560	28.174	117.21	16.379	35.631
#1	-.00029	.00009	.00186	.00008	.00297	.61478
#2	-.00035	.00007	.00186	-.00036	.00277	.76251
#3	-.00034	.00007	.00108	-.00041	.00375	.35586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51232.**	**56384.**
Stddev	587.	346.
%RSD	1.1452	.61401
#1	51481.	56572.
#2	51654.	55985.
#3	50562.	56596.

Approved: March 29, 2011

Sample Name: L1103092506 Acquired: 3/28/2011 16:59:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**2.6839**	**.00221**	**.00649**	**.00303**	**.00021**	**-.01545**
Stddev	.00039	.0707	.00076	.00088	.00014	.00001	.00693
%RSD	95.142	2.6353	34.535	13.618	4.6594	2.6649	44.844
#1	-.00004	2.6230	.00220	.00721	.00318	.00021	-.00937
#2	-.00082	2.6674	.00145	.00551	.00301	.00020	-.01398
#3	-.00038	2.7615	.00298	.00676	.00290	.00021	-.02299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00414**	**-.00012**	**.00132**	**18.216**	**.10677**	**-.00101**
Stddev	.00005	.00023	.00017	.00058	.560	.00898	.00021
%RSD	53.048	5.5901	141.18	43.998	3.0737	8.4073	21.005
#1	-.00004	.00403	-.00031	.00095	18.797	.11553	-.00093
#2	-.00014	.00398	.00004	.00101	18.171	.09760	-.00125
#3	-.00010	.00440	-.00010	.00198	17.680	.10718	-.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06577**	**.11015**	**-.00060**	**-.00798**	**.00105**	**313.14**	**.00159**
Stddev	.00325	.00295	.00011	.01004	.00033	1.29	.00058
%RSD	4.9431	2.6780	18.448	125.92	31.831	.41182	36.321
#1	.06624	.11302	-.00066	-.01953	.00080	311.67	.00102
#2	.06231	.11029	-.00047	-.00304	.00143	314.10	.00217
#3	.06876	.10713	-.00067	-.00136	.00092	313.65	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092506 Acquired: 3/28/2011 16:59:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-9.5384**	**.37878**	F **-69.137**	**-.00323**	**-.00273**	**9.4094**	**.00001**
Stddev	10.551	.00688	6.127	.00060	.00174	.0976	.00013
%RSD	110.61	1.8170	8.8623	18.462	63.737	1.0375	2078.8
#1	-2.1511	.38604	-62.959	-.00262	-.00199	9.3326	.00010
#2	-21.622	.37794	-75.212	-.00326	-.00149	9.3764	-.00015
#3	-4.8422	.37235	-69.239	-.00381	-.00472	9.5193	.00007
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00095**	**.00158**	**.00191**	**.00567**	**1.1808**
Stddev	.00010	.00020	.00055	.00027	.00034	.0323
%RSD	42.519	21.230	34.989	14.232	5.9285	2.7331
#1	.00023	.00082	.00189	.00193	.00592	1.2159
#2	.00032	.00085	.00191	.00162	.00529	1.1523
#3	.00013	.00119	.00094	.00216	.00581	1.1742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**52981.**	**57393.**
Stddev	1022.	1491.
%RSD	1.9288	2.5978
#1	53293.	55862.
#2	53810.	57477.
#3	51839.	58840.

Approved: March 29, 2011

Sample Name: L1103092605 Acquired: 3/28/2011 17:03:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**3.1904**	**.00166**	**.00084**	**.00489**	**.00020**	**-.01914**
Stddev	.00019	.0400	.00088	.00034	.00012	.00002	.00463
%RSD	100.71	1.2541	52.809	40.423	2.5380	8.1535	24.175
#1	-.00002	3.1480	.00265	.00109	.00474	.00018	-.02396
#2	-.00015	3.1956	.00102	.00098	.00494	.00019	-.01874
#3	-.00038	3.2275	.00130	.00045	.00497	.00022	-.01473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00355**	**.00386**	**.00319**	**5.6150**	**.16699**	**.00014**
Stddev	.00007	.00019	.00028	.00023	.1989	.01943	.00079
%RSD	60.191	5.3368	7.3352	7.2175	3.5429	11.636	566.17
#1	-.00018	.00362	.00361	.00332	5.3963	.18888	-.00073
#2	-.00004	.00333	.00380	.00292	5.7853	.16032	.00082
#3	-.00011	.00369	.00417	.00333	5.6632	.15178	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11240**	**.06411**	**-.00041**	**.02560**	**.00284**	**411.48**	**.00083**
Stddev	.02298	.00244	.00008	.00581	.00013	11.24	.00098
%RSD	20.446	3.8120	19.447	22.686	4.3992	2.7313	118.53
#1	.08748	.06144	-.00048	.03226	.00294	398.94	-.00030
#2	.13276	.06624	-.00043	.02300	.00289	414.88	.00134
#3	.11697	.06464	-.00033	.02156	.00270	420.63	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092605 Acquired: 3/28/2011 17:03:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.7521**	**.27477**	F **-53.959**	**-.00196**	**-.00139**	**6.1765**	**-.00012**
Stddev	15.044	.03382	5.511	.00032	.00150	.2054	.00001
%RSD	154.27	12.308	10.214	16.430	107.93	3.3264	11.179
#1	24.077	.24357	-60.142	-.00184	-.00278	5.9921	-.00012
#2	11.101	.27005	-49.563	-.00232	-.00158	6.3980	-.00010
#3	-5.9209	.31071	-52.171	-.00170	.00020	6.1394	-.00013
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00325**	**.00200**	**.00356**	**.00583**	**2.0957**
Stddev	.00002	.00045	.00105	.00031	.00080	.2389
%RSD	6.6791	13.758	52.422	8.7298	13.674	11.400
#1	.00026	.00376	.00271	.00325	.00529	2.3699
#2	.00029	.00294	.00251	.00356	.00546	1.9855
#3	.00026	.00304	.00080	.00388	.00675	1.9319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51539.**	**58549.**
Stddev	565.	1313.
%RSD	1.0953	2.2419
#1	51945.	59987.
#2	51777.	58245.
#3	50894.	57415.

Approved: March 29, 2011

Sample Name: L1103092606 Acquired: 3/28/2011 17:07:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**6.0796**	**.00159**	**.00192**	**.00930**	**.00000**	**-.03310**
Stddev	.00026	.1288	.00058	.00072	.00051	.00003	.00344
%RSD	49.357	2.1186	36.509	37.421	5.4484	626.78	10.390
#1	.00026	6.1156	.00212	.00161	.00941	.00003	-.03471
#2	.00053	5.9367	.00097	.00274	.00974	.00001	-.03543
#3	.00077	6.1866	.00167	.00141	.00874	-.00003	-.02915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00139**	**.00384**	**.00405**	**8.4309**	**.28762**	**.00112**
Stddev	.00009	.00015	.00040	.00032	.3676	.02791	.00085
%RSD	78.246	10.844	10.386	7.9831	4.3604	9.7034	76.216
#1	-.00017	.00123	.00424	.00392	8.5612	.28023	.00146
#2	-.00016	.00139	.00344	.00381	8.7157	.31848	.00175
#3	-.00001	.00153	.00383	.00442	8.0159	.26415	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27901**	**.03836**	**-.00050**	**-.00231**	**.00256**	**358.93**	**.00380**
Stddev	.01568	.00150	.00003	.00673	.00013	19.34	.00023
%RSD	5.6209	3.9088	5.6896	291.89	4.9876	5.3878	6.0513
#1	.29398	.03896	-.00051	-.00379	.00267	363.11	.00406
#2	.28037	.03947	-.00051	-.00817	.00260	337.84	.00370
#3	.26270	.03666	-.00046	.00504	.00242	375.83	.00363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092606 Acquired: 3/28/2011 17:07:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.076**	**.36933**	F **-78.929**	**-.00320**	**-.00269**	**5.9282**	**.00009**
Stddev	7.045	.03801	6.169	.00215	.00223	.2925	.00015
%RSD	50.048	10.292	7.8157	67.130	82.816	4.9337	168.07
#1	14.321	.33962	-79.718	-.00559	-.00082	5.6319	-.00008
#2	20.995	.35620	-72.403	-.00259	-.00210	5.9360	.00021
#3	6.9120	.41216	-84.664	-.00143	-.00515	6.2167	.00013
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.06591**	**.00218**	**.01456**	**.01175**	**2.5890**
Stddev	.00005	.00302	.00093	.00040	.00062	.1710
%RSD	18.872	4.5853	42.846	2.7488	5.2624	6.6055
#1	.00033	.06756	.00118	.01458	.01136	2.7862
#2	.00028	.06775	.00302	.01415	.01247	2.4996
#3	.00022	.06243	.00233	.01495	.01143	2.4813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51753.**	**59178.**
Stddev	703.	1331.
%RSD	1.3591	2.2483
#1	52045.	58775.
#2	52263.	58095.
#3	50950.	60663.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 17:10:57 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37845**	**9.3006**	**.37356**	**.46790**	^F *****	**.04680**	**9.6266**
Stddev	.00599	.1486	.00435	.00806	-----	.00071	.2602
%RSD	1.5829	1.5974	1.1640	1.7219	-----	1.5141	2.7033
#1	.37452	9.1868	.37010	.46161	^ -----	.04609	9.8933
#2	.37549	9.2463	.37215	.46511	.94419	.04682	9.3734
#3	.38534	9.4687	.37844	.47698	.97282	.04750	9.6130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					1.0000		
Range					-10.000%		

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.04666**	**.18900**	**.47346**	**.47211**	**3.7814**	**47.495**	**.95717**
Stddev	.00060	.00203	.00856	.00563	.0848	1.147	.02492
%RSD	1.2814	1.0726	1.8089	1.1922	2.2418	2.4148	2.6031
#1	k .04602	.18688	.46550	.46583	3.8540	48.561	.98175
#2	.04676	.18921	.47236	.47378	3.6883	46.281	.93193
#3	.04721	.19092	.48252	.47671	3.8019	47.643	.95782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3384**	**.47084**	**.93245**	^F *****	**.47280**	F **7.9844**	**.47419**
Stddev	.1783	.01186	.01241	-----	.00626	7.0939	.00450
%RSD	1.9091	2.5181	1.3314	-----	1.3243	88.847	.94867
#1	9.4573	.48228	.91976	^ -----	.46631	16.080	.47014
#2	9.1334	.45860	.93301	46.840	.47329	5.0199	.47340
#3	9.4245	.47164	.94457	48.236	.47880	2.8536	.47904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value				50.000		10.000	
Range				-10.000%		-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 17:10:57 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **18.567**	**9.5761**	F **12.719**	**1.1299**	**.37553**	**4.8038**	**.93731**
Stddev	8.448	.1358	3.919	.0122	.00441	.0712	.01033
%RSD	45.498	1.4184	30.815	1.0792	1.1755	1.4822	1.1026
#1	23.912	9.4314	11.382	1.1190	.37094	4.7226	.92685
#2	8.8280	9.5960	17.132	1.1277	.37591	4.8553	.93756
#3	22.961	9.7009	9.6429	1.1431	.37975	4.8336	.94751
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	^F *****	**.94674**	**.47935**	**.94736**	**.94326**	F **4.6434**
Stddev	-----	.02391	.00725	.01567	.01036	.1984
%RSD	-----	2.5260	1.5118	1.6545	1.0983	4.2723
#1	^ -----	.96853	.47327	.93374	.93277	4.4449
#2	.93607	.92116	.47740	.94385	.94355	4.6436
#3	.96595	.95053	.48737	.96449	.95348	4.8417
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value	1.0000					1.0000
Range	-10.000%					10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50289.**	**57400.**
Stddev	313.	796.
%RSD	.62183	1.3869
#1	50607.	56653.
#2	50278.	58238.
#3	49982.	57310.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 17:14:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00124**	**.00013**	**.00112**	**-.00012**	**.00002**	**-.00729**
Stddev	.00031	.00382	.00054	.00054	.00009	.00003	.00176
%RSD	650.02	308.15	413.64	47.935	79.210	155.80	24.133
#1	.00040	.00027	-.00041	.00088	-.00003	-.00001	-.00713
#2	-.00006	-.00558	.00067	.00075	-.00010	.00004	-.00913
#3	-.00020	.00159	.00013	.00174	-.00021	.00001	-.00562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00002**	**.00040**	**-.00034**	**.00210**	**.04937**	**-.00064**
Stddev	.00006	.00008	.00013	.00038	.00011	.00478	.00070
%RSD	882.17	508.64	31.430	111.67	5.2030	9.6823	110.48
#1	-.00007	.00010	.00054	-.00058	.00210	.04877	.00008
#2	.00006	.00000	.00031	.00010	.00221	.05442	-.00132
#3	-.00001	-.00005	.00035	-.00054	.00200	.04492	-.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00596**	**-.00016**	**-.00005**	**.00704**	**.00021**	F **.92234**	**.00041**
Stddev	.00589	.00013	.00011	.00541	.00016	3.7156	.00123
%RSD	98.794	81.349	192.82	76.866	74.567	402.84	297.56
#1	.00026	-.00003	.00007	.00090	.00040	-2.5621	-.00002
#2	-.00668	-.00017	-.00011	.01109	.00015	4.8324	.00179
#3	-.01145	-.00029	-.00012	.00911	.00009	.49670	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 17:14:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.793**	F **.01730**	F **3.5315**	**-.00126**	**-.00119**	**-.33915**	**-.00025**
Stddev	4.011	.02611	11.922	.00071	.00089	.28567	.00010
%RSD	31.353	150.95	337.60	56.900	74.785	84.231	39.680
#1	16.370	.00266	3.7468	-.00048	-.00221	-.60087	-.00015
#2	8.4567	.00179	15.345	-.00188	-.00067	-.38218	-.00026
#3	13.552	.04745	-8.4970	-.00141	-.00068	-.03441	-.00034
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00088**	**.00091**	**-.00036**	**.00080**	F **.41191**
Stddev	.00010	.00053	.00098	.00019	.00025	.03775
%RSD	1873.1	60.323	108.26	53.293	31.714	9.1654
#1	.00011	.00029	.00192	-.00045	.00102	.38876
#2	-.00004	.00130	-.00003	-.00014	.00052	.45548
#3	-.00009	.00104	.00083	-.00050	.00086	.39151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50266.**	**58251.**
Stddev	1116.	1952.
%RSD	2.2203	3.3512
#1	49484.	56108.
#2	51544.	58717.
#3	49769.	59928.

Approved: March 29, 2011

Sample Name: L1103082327 Acquired: 3/28/2011 17:18:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00254**	**211.83**	**.09560**	**.14897**	**2.0496**	**.01475**	**30.179**
Stddev	.00047	1.00	.00168	.00108	.0086	.00009	.083
%RSD	18.581	.47234	1.7568	.72629	.41786	.63670	.27642
#1	.00304	210.69	.09370	.14775	2.0456	.01464	30.113
#2	.00249	212.52	.09621	.14934	2.0438	.01482	30.153
#3	.00210	212.29	.09689	.14981	2.0595	.01479	30.273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00401**	**.13647**	**.30994**	**.09091**	**284.20**	**17.609**	**.14402**
Stddev	.00003	.00134	.00164	.00106	1.98	.030	.00058
%RSD	.75162	.98077	.52942	1.1700	.69778	.16846	.40140
#1	.00399	.13495	.30878	.08968	282.20	17.579	.14411
#2	.00400	.13748	.30923	.09149	284.25	17.610	.14340
#3	.00405	.13697	.31182	.09155	286.16	17.639	.14454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.268**	**7.0449**	**.01047**	**3.5164**	**.12035**	F **16006.**	**.26649**
Stddev	.181	.0362	.00006	.0064	.00130	113.	.00384
%RSD	.99167	.51339	.58055	.18126	1.0834	.70815	1.4409
#1	18.072	7.0090	.01045	3.5211	.11886	15876.	.26218
#2	18.303	7.0443	.01054	3.5091	.12087	16083.	.26772
#3	18.429	7.0814	.01042	3.5189	.12131	16059.	.26956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082327 Acquired: 3/28/2011 17:18:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.514**	F **133.30**	F **-19540.**	**-.00034**	**.00739**	F **506.31**	**.01151**
Stddev	3.020	2.13	133.	.00217	.00241	2.82	.00026
%RSD	4.9098	1.5999	.68083	640.77	32.640	.55641	2.2258
#1	62.799	131.14	-19387.	-.00076	.00643	504.76	.01122
#2	58.064	133.36	-19615.	-.00227	.00561	504.61	.01164
#3	63.679	135.41	-19619.	.00201	.01013	509.57	.01168
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24494**	**.26892**	**.01129**	**.55126**	**.35938**	F **313.73**
Stddev	.00049	.00138	.00105	.00353	.00327	1.85
%RSD	.19892	.51192	9.2880	.64110	.91039	.59046
#1	.24484	.26757	.01014	.54722	.35560	311.70
#2	.24451	.26885	.01153	.55281	.36119	314.15
#3	.24547	.27032	.01219	.55375	.36135	315.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48315.**	**59060.**
Stddev	176.	108.
%RSD	.36338	.18272
#1	48491.	59182.
#2	48140.	58977.
#3	48316.	59022.

Approved: March 29, 2011

Sample Name: L1103082328 Acquired: 3/28/2011 17:21:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00381**	**111.72**	**.06790**	**.10947**	**1.1830**	**.00749**	**52.616**
Stddev	.00019	3.87	.00499	.00079	.0058	.00033	.270
%RSD	4.8918	3.4618	7.3560	.72242	.49046	4.3973	.51281
#1	.00391	114.13	.06985	.10896	1.1769	.00771	52.354
#2	.00393	113.77	.07162	.10906	1.1834	.00764	52.600
#3	.00359	107.26	.06222	.11038	1.1885	.00711	52.893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00511**	**.08030**	**.22321**	**.09948**	**171.92**	**19.314**	**.08751**
Stddev	.00024	.00470	.00974	.00682	1.14	.072	.00135
%RSD	4.7044	5.8498	4.3625	6.8552	.66205	.37346	1.5455
#1	.00529	.08302	.22834	.10290	171.15	19.236	.08602
#2	.00522	.08300	.22931	.10391	171.39	19.328	.08784
#3	.00484	.07487	.21198	.09162	173.23	19.378	.08866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.544**	**6.0526**	**.00793**	**.99207**	**.08420**	F **54041.**	**.20757**
Stddev	.126	.0485	.00047	.00736	.00521	3309.	.01243
%RSD	.86681	.80167	5.9069	.74187	6.1893	6.1237	5.9888
#1	14.490	6.0119	.00796	.98540	.08767	56019.	.21530
#2	14.454	6.0395	.00838	.99085	.08673	55884.	.21417
#3	14.688	6.1063	.00745	.99996	.07821	50220.	.19323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082328 Acquired: 3/28/2011 17:21:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.112**	F **177.75**	F **-24260.**	**.00051**	**.00805**	F **497.83**	**.00790**
Stddev	8.178	11.36	1483.	.00062	.00031	35.19	.00062
%RSD	13.382	6.3902	6.1127	122.82	3.8095	7.0692	7.8051
#1	51.919	184.33	-25137.	.00115	.00823	521.84	.00848
#2	63.842	184.29	-25095.	.00046	.00822	514.21	.00796
#3	67.576	164.63	-22548.	-.00009	.00769	457.43	.00725
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29319**	**.41913**	**.00676**	**.37387**	**.61720**	F **186.50**
Stddev	.00154	.00231	.00100	.01663	.03181	7.69
%RSD	.52463	.55053	14.804	4.4479	5.1532	4.1216
#1	.29145	.41672	.00696	.38377	.63598	190.32
#2	.29376	.41936	.00567	.38318	.63515	191.53
#3	.29437	.42131	.00765	.35468	.58048	177.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48394.**	**59273.**
Stddev	2191.	275.
%RSD	4.5281	.46327
#1	47038.	59119.
#2	47223.	59590.
#3	50922.	59109.

Approved: March 29, 2011

Sample Name: L1103082329 Acquired: 3/28/2011 17:25:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00264**	**166.78**	**.07908**	**.11496**	**1.8026**	**.01140**	**24.016**
Stddev	.00001	.49	.00048	.00041	.0060	.00005	.037
%RSD	.27998	.29090	.60275	.35395	.33450	.42536	.15514
#1	.00265	166.82	.07853	.11541	1.8086	.01136	24.042
#2	.00263	167.25	.07931	.11486	1.7965	.01145	23.973
#3	.00264	166.28	.07939	.11462	1.8028	.01140	24.032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00429**	**.08680**	**.26912**	**.09707**	**216.80**	**15.788**	**.12354**
Stddev	.00022	.00059	.00127	.00061	.70	.022	.00114
%RSD	5.1377	.68327	.47194	.63294	.32067	.14129	.92236
#1	.00455	.08717	.26765	.09736	217.48	15.809	.12280
#2	.00416	.08710	.26987	.09748	216.10	15.764	.12296
#3	.00418	.08611	.26984	.09636	216.83	15.790	.12485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.025**	**6.6357**	**.00937**	**1.0733**	**.10270**	F **16295.**	**.21474**
Stddev	.042	.0199	.00013	.0016	.00120	46.	.00150
%RSD	.27855	.30072	1.4173	.14737	1.1728	.28030	.69836
#1	15.033	6.6553	.00934	1.0722	.10322	16335.	.21419
#2	14.980	6.6154	.00925	1.0751	.10356	16304.	.21644
#3	15.062	6.6363	.00951	1.0726	.10132	16245.	.21360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082329 Acquired: 3/28/2011 17:25:16 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **72.639**	F **101.70**	F **-14618.**	**.00034**	**.01031**	F **510.70**	**.01023**
Stddev	6.041	.67	44.	.00027	.00193	3.10	.00036
%RSD	8.3170	.65764	.30262	78.866	18.691	.60763	3.5191
#1	71.612	102.07	-14610.	.00060	.01253	510.95	.01064
#2	67.177	102.10	-14665.	.00038	.00923	513.66	.01006
#3	79.128	100.93	-14578.	.00006	.00916	507.47	.00998
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20532**	**.35757**	**.00841**	**.45094**	**.40116**	F **264.56**
Stddev	.00035	.00050	.00062	.00153	.00298	.67
%RSD	.17174	.13975	7.3611	.33988	.74363	.25290
#1	.20528	.35815	.00868	.44989	.40041	264.00
#2	.20500	.35726	.00885	.45270	.40445	265.30
#3	.20570	.35731	.00770	.45024	.39863	264.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48437.**	**60690.**
Stddev	139.	299.
%RSD	.28692	.49341
#1	48402.	60354.
#2	48318.	60928.
#3	48590.	60788.

Approved: March 29, 2011

Sample Name: L1103082330 Acquired: 3/28/2011 17:28:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00508**	**170.97**	**.11430**	**.16495**	**1.9194**	**.01340**	**45.320**
Stddev	.00022	.29	.00086	.00159	.0094	.00001	.288
%RSD	4.2398	.16692	.75351	.96305	.48769	.07107	.63563
#1	.00484	171.30	.11472	.16665	1.9291	.01339	45.652
#2	.00523	170.82	.11488	.16350	1.9186	.01341	45.168
#3	.00518	170.80	.11331	.16472	1.9105	.01340	45.140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00599**	**.18865**	**.32677**	**.11577**	**313.79**	**14.430**	**.11040**
Stddev	.00007	.00037	.00101	.00019	.97	.067	.00096
%RSD	1.0964	.19427	.31035	.16677	.30829	.46470	.86819
#1	.00598	.18881	.32561	.11596	314.88	14.508	.11021
#2	.00593	.18891	.32722	.11579	313.02	14.396	.11143
#3	.00606	.18823	.32749	.11557	313.47	14.388	.10954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.148**	**11.611**	**.01454**	**1.1677**	**.11929**	F **27471.**	**.33988**
Stddev	.085	.052	.00011	.0148	.00066	24.	.00170
%RSD	.52370	.45172	.73978	1.2637	.55616	.08745	.49879
#1	16.184	11.664	.01465	1.1838	.11913	27465.	.33961
#2	16.052	11.559	.01454	1.1549	.11872	27498.	.34169
#3	16.210	11.609	.01444	1.1643	.12002	27451.	.33833
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082330 Acquired: 3/28/2011 17:28:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **74.655**	F **154.25**	F **-20400.**	**.00231**	**.01221**	F **548.29**	**.01176**
Stddev	5.779	.70	27.	.00147	.00212	3.48	.00042
%RSD	7.7415	.45302	.13183	63.848	17.395	.63481	3.5373
#1	72.025	154.85	-20422.	.00396	.01433	551.47	.01224
#2	81.282	154.41	-20407.	.00111	.01222	548.83	.01152
#3	70.659	153.48	-20370.	.00186	.01008	544.57	.01152
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28797**	**.34480**	**.01177**	**.59157**	**.54109**	F **243.40**
Stddev	.00158	.00257	.00231	.00083	.00110	.72
%RSD	.54790	.74465	19.593	.13965	.20417	.29449
#1	.28974	.34759	.00911	.59067	.53982	244.22
#2	.28747	.34429	.01307	.59231	.54161	243.10
#3	.28670	.34253	.01313	.59172	.54183	242.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47349.**	**61337.**
Stddev	91.	416.
%RSD	.19212	.67846
#1	47244.	60992.
#2	47393.	61799.
#3	47409.	61219.

Approved: March 29, 2011

Sample Name: L1103082331 Acquired: 3/28/2011 17:32:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00592**	**252.51**	**.12021**	**.18829**	**1.8213**	**.01598**	**25.830**
Stddev	.00046	.77	.00209	.00108	.0069	.00006	.156
%RSD	7.7380	.30367	1.7346	.57381	.38106	.38223	.60385
#1	.00544	252.73	.11912	.18712	1.8140	.01598	25.664
#2	.00636	251.66	.11890	.18848	1.8222	.01591	25.852
#3	.00597	253.15	.12262	.18926	1.8278	.01604	25.974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00457**	**.25465**	**.41759**	**.10619**	**361.28**	**15.194**	**.17164**
Stddev	.00009	.00067	.00222	.00080	.81	.092	.00138
%RSD	1.9060	.26236	.53220	.74968	.22296	.60599	.80324
#1	.00451	.25391	.41503	.10537	360.48	15.116	.17025
#2	.00467	.25520	.41881	.10696	361.27	15.171	.17167
#3	.00453	.25483	.41894	.10624	362.09	15.296	.17301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.729**	**11.248**	**.01542**	**2.9932**	**.14211**	F **16844.**	**.33972**
Stddev	.039	.040	.00021	.0227	.00026	51.	.00105
%RSD	.19651	.35273	1.3543	.75742	.18013	.30164	.30974
#1	19.690	11.207	.01555	2.9698	.14222	16786.	.33865
#2	19.768	11.252	.01554	2.9947	.14230	16874.	.33975
#3	19.728	11.286	.01518	3.0151	.14182	16874.	.34075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082331 Acquired: 3/28/2011 17:32:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **83.678**	F **110.98**	F **-15837.**	**.00133**	**.01489**	F **611.93**	**.01296**
Stddev	5.553	.42	21.	.00133	.00124	2.29	.00009
%RSD	6.6356	.37663	.13439	100.19	8.3420	.37418	.69982
#1	78.846	110.52	-15813.	.00260	.01426	614.51	.01306
#2	82.445	111.34	-15850.	-.00005	.01632	611.16	.01289
#3	89.743	111.08	-15849.	.00144	.01408	610.12	.01293
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22592**	**.46651**	**.01674**	**.69136**	**.39076**	F **341.37**
Stddev	.00151	.00238	.00150	.00218	.00139	2.91
%RSD	.66986	.51032	8.9876	.31593	.35646	.85309
#1	.22432	.46377	.01606	.68898	.38916	339.04
#2	.22613	.46770	.01846	.69180	.39149	340.44
#3	.22732	.46805	.01569	.69328	.39165	344.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48424.**	**62621.**
Stddev	88.	280.
%RSD	.18196	.44691
#1	48514.	62303.
#2	48419.	62829.
#3	48338.	62730.

Approved: March 29, 2011

Sample Name: L1103082332 Acquired: 3/28/2011 17:35:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00697**	**234.38**	**.12601**	**.19847**	**1.9659**	**.01378**	**36.242**
Stddev	.00097	2.04	.00214	.00079	.0030	.00005	.159
%RSD	13.866	.87235	1.6965	.39621	.15188	.38213	.43829
#1	.00585	233.77	.12834	.19937	1.9693	.01384	36.383
#2	.00758	232.70	.12553	.19815	1.9640	.01376	36.273
#3	.00746	236.66	.12415	.19789	1.9642	.01374	36.070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00662**	**.30049**	**.43257**	**.11588**	**358.82**	**18.407**	**.17593**
Stddev	.00002	.00031	.00235	.00064	1.02	.082	.00055
%RSD	.27366	.10315	.54267	.55252	.28404	.44462	.31153
#1	.00663	.30047	.43035	.11613	359.99	18.480	.17610
#2	.00660	.30019	.43233	.11516	358.16	18.422	.17636
#3	.00662	.30081	.43503	.11637	358.30	18.318	.17531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.885**	**16.136**	**.01662**	**1.8635**	**.15518**	F **21900.**	**.47196**
Stddev	.064	.087	.00031	.0109	.00065	100.	.00167
%RSD	.34090	.53875	1.8930	.58429	.42152	.45435	.35485
#1	18.960	16.225	.01657	1.8720	.15564	22001.	.47346
#2	18.848	16.132	.01695	1.8673	.15443	21802.	.47225
#3	18.848	16.051	.01633	1.8512	.15546	21896.	.47015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082332 Acquired: 3/28/2011 17:35:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **78.875**	F **111.97**	F **-14008.**	**.00356**	**.01693**	F **689.74**	**.01384**
Stddev	3.164	.69	38.	.00056	.00109	1.19	.00029
%RSD	4.0119	.62038	.27469	15.725	6.4296	.17324	2.0906
#1	75.496	112.49	-14051.	.00412	.01814	689.83	.01351
#2	81.769	111.18	-13976.	.00299	.01601	688.50	.01405
#3	79.360	112.22	-13999.	.00358	.01665	690.88	.01396
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27853**	**.65654**	**.01562**	**.70552**	**.65117**	F **286.58**
Stddev	.00092	.00166	.00148	.00196	.00418	1.39
%RSD	.32929	.25211	9.4962	.27733	.64172	.48621
#1	.27904	.65845	.01640	.70335	.64946	285.49
#2	.27908	.65547	.01391	.70608	.65593	286.10
#3	.27747	.65571	.01655	.70714	.64811	288.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47723.**	**60938.**
Stddev	50.	711.
%RSD	.10520	1.1671
#1	47671.	60159.
#2	47772.	61102.
#3	47726.	61552.

Approved: March 29, 2011

Sample Name: L1103082333 Acquired: 3/28/2011 17:39:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00631**	**262.36**	**.17335**	**.22709**	**1.7807**	**.01925**	**25.515**
Stddev	.00044	.07	.00089	.00388	.0042	.00002	.087
%RSD	6.9950	.02717	.51380	1.7075	.23386	.12498	.34155
#1	.00601	262.40	.17437	.22707	1.7766	.01922	25.427
#2	.00611	262.41	.17294	.22322	1.7849	.01927	25.601
#3	.00682	262.28	.17274	.23097	1.7805	.01925	25.518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00556**	**.35377**	**.46627**	**.11899**	**464.70**	**12.148**	**.16201**
Stddev	.00013	.00084	.00097	.00092	4.75	.011	.00100
%RSD	2.3811	.23855	.20754	.77538	1.0231	.08894	.61765
#1	.00541	.35470	.46523	.11990	462.92	12.136	.16106
#2	.00558	.35358	.46643	.11900	461.10	12.158	.16306
#3	.00567	.35304	.46714	.11806	470.09	12.150	.16191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.305**	**15.055**	**.02075**	**3.7631**	**.16567**	F **16024.**	**.52494**
Stddev	.138	.078	.00009	.0080	.00072	49.	.00201
%RSD	.67926	.52093	.44797	.21254	.43595	.30621	.38235
#1	20.169	14.965	.02078	3.7561	.16633	16064.	.52415
#2	20.301	15.110	.02083	3.7718	.16579	15969.	.52344
#3	20.444	15.090	.02065	3.7615	.16490	16039.	.52722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082333 Acquired: 3/28/2011 17:39:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **79.463**	F **129.10**	F **-18704.**	**.00021**	**.01857**	F **597.30**	**.01413**
Stddev	5.522	.67	48.	.00202	.00224	2.41	.00017
%RSD	6.9491	.51988	.25645	951.73	12.048	.40297	1.1779
#1	80.420	129.87	-18760.	-.00165	.02114	597.45	.01394
#2	84.444	128.79	-18677.	-.00008	.01749	594.82	.01421
#3	73.525	128.64	-18676.	.00237	.01707	599.63	.01424
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22075**	**.34362**	**.02047**	**.85048**	**.41243**	F **356.39**
Stddev	.00058	.00106	.00283	.00049	.00027	1.31
%RSD	.26432	.30781	13.852	.05711	.06475	.36737
#1	.22010	.34283	.02357	.85007	.41259	356.24
#2	.22123	.34321	.01802	.85102	.41258	355.17
#3	.22092	.34482	.01980	.85035	.41213	357.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47525.**	**61719.**
Stddev	86.	90.
%RSD	.18110	.14628
#1	47429.	61776.
#2	47595.	61765.
#3	47551.	61615.

Approved: March 29, 2011

Sample Name: L1103082334 Acquired: 3/28/2011 17:43:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00426**	**151.98**	**.09587**	**.13961**	**1.1905**	**.01048**	**191.94**
Stddev	.00042	.72	.00035	.00072	.0018	.00002	.72
%RSD	9.8841	.47472	.36214	.51608	.15045	.14805	.37701
#1	.00474	152.79	.09601	.14035	1.1900	.01048	192.33
#2	.00401	151.74	.09613	.13891	1.1890	.01050	191.11
#3	.00402	151.41	.09548	.13955	1.1925	.01047	192.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00562**	**.17290**	**.26522**	**.29858**	**240.70**	**14.610**	**.09286**
Stddev	.00006	.00039	.00110	.00084	.83	.025	.00091
%RSD	1.0754	.22321	.41347	.28234	.34497	.17452	.98473
#1	.00555	.17247	.26472	.29835	240.95	14.626	.09197
#2	.00567	.17306	.26647	.29787	239.77	14.580	.09380
#3	.00564	.17319	.26446	.29951	241.37	14.623	.09280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.872**	**8.5477**	**.01597**	**.78343**	**.11490**	F **33628.**	**.33217**
Stddev	.099	.0458	.00011	.00816	.00022	42.	.00160
%RSD	.52375	.53581	.66621	1.0418	.19162	.12444	.48304
#1	18.953	8.5680	.01609	.79272	.11474	33602.	.33136
#2	18.762	8.4952	.01588	.77742	.11481	33605.	.33402
#3	18.900	8.5797	.01595	.78016	.11515	33676.	.33113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082334 Acquired: 3/28/2011 17:43:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.180**	F **391.56**	F **-38105.**	**.00318**	**.01499**	F **502.55**	**.01192**
Stddev	4.221	1.29	49.	.00022	.00385	1.63	.00023
%RSD	6.8986	.33064	.12871	6.9074	25.659	.32454	1.9355
#1	64.626	390.78	-38052.	.00293	.01249	503.97	.01218
#2	56.472	390.85	-38116.	.00332	.01942	502.90	.01184
#3	62.442	393.06	-38148.	.00329	.01306	500.77	.01174
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96162**	**.30415**	**.00862**	**.47180**	**.79886**	F **220.64**
Stddev	.00308	.00141	.00058	.00124	.00198	.87
%RSD	.32006	.46508	6.7171	.26257	.24785	.39297
#1	.96370	.30409	.00799	.47040	.79665	220.75
#2	.95808	.30277	.00913	.47275	.80048	219.72
#3	.96307	.30560	.00875	.47224	.79946	221.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45883.**	**59436.**
Stddev	62.	547.
%RSD	.13484	.92074
#1	45812.	58910.
#2	45920.	60002.
#3	45918.	59397.

Approved: March 29, 2011

Sample Name: L1103082335 Acquired: 3/28/2011 17:46:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00697**	**211.86**	**.13709**	**.18999**	**1.6333**	**.01587**	**49.621**
Stddev	.00036	1.66	.00065	.00128	.0044	.00006	.089
%RSD	5.2000	.78131	.47758	.67338	.26781	.38478	.18021
#1	.00658	212.85	.13724	.19138	1.6285	.01581	49.527
#2	.00729	212.79	.13765	.18888	1.6344	.01593	49.705
#3	.00705	209.95	.13637	.18970	1.6370	.01588	49.633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00654**	**.27114**	**.42695**	**.10596**	**381.14**	**10.062**	**.12838**
Stddev	.00003	.00104	.00137	.00173	1.20	.038	.00157
%RSD	.48673	.38181	.32124	1.6290	.31610	.37645	1.2245
#1	.00655	.27109	.42559	.10544	380.48	10.025	.12739
#2	.00650	.27221	.42834	.10789	380.41	10.101	.13019
#3	.00657	.27014	.42692	.10456	382.53	10.061	.12756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.912**	**15.840**	**.01774**	**1.6257**	**.12827**	F **16727.**	**.53055**
Stddev	.058	.051	.00020	.0094	.00078	63.	.00354
%RSD	.32492	.32399	1.1182	.57680	.60986	.37617	.66754
#1	17.845	15.785	.01788	1.6187	.12881	16735.	.52787
#2	17.947	15.886	.01752	1.6364	.12863	16786.	.53456
#3	17.945	15.850	.01783	1.6222	.12738	16661.	.52921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103082335 Acquired: 3/28/2011 17:46:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **74.225**	F **114.16**	F **-11956.**	**.00312**	**.01702**	F **714.36**	**.01384**
Stddev	3.139	.87	59.	.00262	.00268	5.28	.00014
%RSD	4.2286	.76129	.49301	83.900	15.761	.73888	.99346
#1	77.828	114.35	-11955.	.00158	.01400	717.79	.01400
#2	72.756	114.91	-12016.	.00615	.01796	717.01	.01376
#3	72.090	113.21	-11898.	.00164	.01912	708.28	.01376
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33593**	**.37597**	**.01722**	**.75480**	**.56643**	F **316.72**
Stddev	.00081	.00072	.00145	.00521	.00165	1.43
%RSD	.24076	.19136	8.4462	.69089	.29154	.45240
#1	.33531	.37554	.01637	.74940	.56832	317.93
#2	.33684	.37556	.01890	.75981	.56532	317.09
#3	.33562	.37680	.01639	.75517	.56563	315.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47180.**	**60684.**
Stddev	149.	174.
%RSD	.31537	.28712
#1	47120.	60487.
#2	47071.	60745.
#3	47350.	60819.

Approved: March 29, 2011

Sample Name: L1103092101 Acquired: 3/28/2011 17:50:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00523**	**35.241**	**.06761**	**.17784**	**4.5494**	**.00169**
Stddev	.00042	.242	.00139	.00102	.0116	.00002
%RSD	8.0770	.68752	2.0576	.57467	.25506	1.0694
#1	.00549	35.475	.06612	.17686	4.5490	.00167
#2	.00474	35.257	.06887	.17890	4.5612	.00171
#3	.00546	34.992	.06785	.17777	4.5380	.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1568.0**	**.03000**	**.16450**	**.06639**	**.13297**	**112.02**
Stddev	5.3	.00021	.00133	.00090	.00109	.64
%RSD	.33847	.70063	.80588	1.3554	.81651	.57052
#1	1572.8	.03019	.16550	.06742	.13419	111.36
#2	1568.8	.03003	.16500	.06594	.13263	112.08
#3	1562.3	.02977	.16300	.06579	.13210	112.63
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.5135**	**.25800**	**305.08**	**3.3954**	**.01359**	**3.8907**
Stddev	.0439	.00091	1.99	.0297	.00018	.0181
%RSD	.97201	.35416	.65269	.87572	1.2960	.46511
#1	4.4634	.25695	302.86	3.3659	.01378	3.8777
#2	4.5448	.25845	305.69	3.3951	.01343	3.8830
#3	4.5325	.25861	306.70	3.4254	.01356	3.9113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 29, 2011

Sample Name: L1103092101 Acquired: 3/28/2011 17:50:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09178**	F **241650.**	**6.6949**	F **44.435**	F **20000.**	F **-4131e3**
Stddev	.00109	2207.	.0511	7.545	1295.	16016.
%RSD	1.1912	.91325	.76293	16.981	6.4737	.38768
#1	.09292	243660.	6.7318	48.715	18506.	-4148e3
#2	.09167	242010.	6.7163	48.866	20802.	-4131e3
#3	.09074	239290.	6.6366	35.722	20691.	-4116e3
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		900.00		9.0000	9.0000	9.0000
Low Limit		-.00400		-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00339**	**.00258**	F **825.07**	**.01260**	F **13.653**	**1.0465**
Stddev	.00044	.00233	9.12	.00037	.160	.0027
%RSD	12.997	90.399	1.1057	2.9497	1.1743	.25332
#1	.00307	.00462	834.57	.01298	13.488	1.0440
#2	.00320	.00004	824.25	.01256	13.663	1.0463
#3	.00389	.00307	816.38	.01224	13.809	1.0493
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit			90.000		4.5000	
Low Limit			-1.0000		-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**-.00181**	**.08577**	F **62.584**	F **67.371**
Stddev	.00140	.00029	.760	.339
%RSD	77.372	.34162	1.2150	.50281
#1	-.00136	.08593	63.411	67.699
#2	-.00337	.08595	62.425	67.391
#3	-.00069	.08543	61.916	67.022
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit			45.000	45.000
Low Limit			-.01000	-.00400

Approved: March 29, 2011

Sample Name: L1103092101 Acquired: 3/28/2011 17:50:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45291.**	**58890.**
Stddev	352.	45.
%RSD	.77681	.07620
#1	44965.	58940.
#2	45245.	58875.
#3	45664.	58854.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 17:54:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41056**	**9.9699**	**.40232**	**.50241**	**1.0011**	**.05039**	**9.9446**
Stddev	.00181	.0326	.00124	.00134	.0109	.00021	.0901
%RSD	.44185	.32702	.30841	.26618	1.0880	.40870	.90633
#1	.40854	9.9422	.40353	.50102	.98889	.05023	9.8522
#2	.41109	10.006	.40239	.50368	1.0048	.05032	9.9492
#3	.41205	9.9616	.40105	.50254	1.0097	.05062	10.032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05024**	**.20321**	**.50768**	**.50803**	**3.8955**	**49.067**	**.98792**
Stddev	.00006	.00065	.00232	.00096	.0340	.411	.01142
%RSD	.12487	.31962	.45752	.18919	.87291	.83844	1.1556
#1	.05018	.20283	.50718	.50776	3.8562	48.637	.97519
#2	.05030	.20285	.50564	.50724	3.9150	49.108	.99132
#3	.05024	.20396	.51021	.50910	3.9153	49.457	.99726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6855**	**.48310**	**.99570**	**49.642**	**.50506**	F **7.0725**	**.50188**
Stddev	.0413	.00452	.00156	.503	.00174	7.2378	.00098
%RSD	.42686	.93583	.15671	1.0125	.34505	102.34	.19554
#1	9.6397	.47851	.99498	49.130	.50305	2.4704	.50187
#2	9.6966	.48325	.99749	49.662	.50619	15.415	.50090
#3	9.7201	.48754	.99463	50.134	.50593	3.3319	.50287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 17:54:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **28.924**	**10.585**	F **-72.614**	**1.2048**	**.39638**	**5.0801**	**1.0025**
Stddev	2.259	.046	3.291	.0016	.00074	.1039	.0024
%RSD	7.8104	.43617	4.5324	.13224	.18776	2.0447	.23698
#1	30.332	10.596	-73.245	1.2048	.39697	4.9606	1.0007
#2	26.318	10.534	-69.053	1.2032	.39661	5.1489	1.0016
#3	30.121	10.625	-75.544	1.2063	.39554	5.1307	1.0052
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99123**	**.97654**	**.50928**	**1.0202**	**.99638**	F **1.1438**
Stddev	.01098	.01129	.00306	.0034	.00126	.0562
%RSD	1.1077	1.1563	.60088	.32922	.12690	4.9166
#1	.97978	.96413	.50623	1.0173	.99517	1.1353
#2	.99223	.97928	.50927	1.0193	.99770	1.0923
#3	1.0017	.98621	.51235	1.0239	.99628	1.2038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49439.**	**58735.**
Stddev	94.	189.
%RSD	.19088	.32141
#1	49527.	58837.
#2	49451.	58851.
#3	49340.	58517.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 17:58:11 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00513**	**-.00049**	**.00133**	**-.00015**	**.00002**	**.00543**
Stddev	.00011	.00158	.00019	.00032	.00006	.00001	.00163
%RSD	32.157	30.744	38.392	24.276	38.725	38.245	29.969
#1	-.00023	.00574	-.00068	.00097	-.00016	.00001	.00355
#2	-.00045	.00631	-.00047	.00142	-.00008	.00003	.00630
#3	-.00035	.00334	-.00031	.00160	-.00020	.00002	.00644
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00001**	**-.00017**	**-.00027**	**.00354**	**.06318**	**-.00109**
Stddev	.00005	.00008	.00030	.00034	.00139	.03379	.00047
%RSD	325.59	1077.6	169.62	127.18	39.150	53.472	42.929
#1	.00000	.00010	-.00043	-.00009	.00198	.10133	-.00129
#2	.00008	-.00003	.00015	-.00005	.00403	.05117	-.00143
#3	-.00002	-.00005	-.00024	-.00067	.00461	.03705	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00461**	**-.00027**	**-.00010**	**.00672**	**.00023**	F **6.8952**	**-.00039**
Stddev	.01223	.00009	.00003	.00346	.00021	8.3463	.00037
%RSD	265.36	32.589	36.166	51.439	90.378	121.05	95.127
#1	-.01611	-.00027	-.00008	.00685	.00041	16.042	-.00060
#2	.00825	-.00036	-.00007	.00320	.00000	4.9496	-.00061
#3	-.00597	-.00018	-.00014	.01011	.00028	-.30648	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 17:58:11 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.788**	F **.22958**	F **-40.400**	**-.00166**	**-.00068**	**-.15565**	**.00008**
Stddev	7.916	.02202	2.555	.00025	.00103	.24782	.00013
%RSD	36.330	9.5895	6.3240	14.965	151.45	159.22	162.37
#1	13.027	.21252	-43.163	-.00158	.00045	-.25166	.00013
#2	28.424	.22179	-39.915	-.00194	-.00094	-.34110	.00018
#3	23.913	.25443	-38.122	-.00146	-.00155	.12582	-.00007
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00022**	**.00067**	**-.00013**	**-.00110**	F **.11297**
Stddev	.00004	.00044	.00088	.00023	.00062	.10785
%RSD	55.805	194.81	130.67	172.05	56.452	95.467
#1	-.00006	-.00013	.00169	-.00039	-.00158	.02878
#2	-.00010	.00010	.00020	-.00001	-.00132	.07560
#3	-.00003	.00071	.00014	.00001	-.00040	.23454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49902.**	**58959.**
Stddev	267.	647.
%RSD	.53504	1.0969
#1	49725.	58215.
#2	49771.	59383.
#3	50209.	59279.

Approved: March 29, 2011

Sample Name: L1103092601 Acquired: 3/28/2011 18:01:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG360099-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**5.5776**	**.00271**	**.00170**	**.00761**	**.00009**	**.13963**
Stddev	.00059	.0403	.00121	.00010	.00011	.00001	.00119
%RSD	373.35	.72283	44.439	6.1563	1.4320	12.165	.85296
#1	-.00044	5.6213	.00195	.00182	.00771	.00008	.13842
#2	.00017	5.5418	.00209	.00161	.00750	.00010	.14080
#3	.00073	5.5697	.00410	.00168	.00762	.00010	.13967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00084**	**.00557**	**.00369**	**8.8710**	**.24429**	**.00073**
Stddev	.00002	.00017	.00023	.00031	.0273	.01527	.00101
%RSD	44.254	20.077	4.1290	8.4504	.30817	6.2499	138.49
#1	-.00003	.00079	.00582	.00373	8.8842	.24382	.00150
#2	-.00007	.00103	.00553	.00397	8.8396	.22926	.00109
#3	-.00006	.00070	.00537	.00335	8.8893	.25978	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20475**	**.02902**	**-.00042**	**-.00008**	**.00187**	**535.42**	**.00239**
Stddev	.01361	.00046	.00009	.00204	.00016	10.78	.00062
%RSD	6.6467	1.5884	20.538	2575.8	8.4856	2.0136	25.927
#1	.21379	.02884	-.00043	-.00217	.00202	536.14	.00176
#2	.18909	.02868	-.00050	.00192	.00187	545.81	.00300
#3	.21135	.02954	-.00033	.00001	.00171	524.29	.00241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092601 Acquired: 3/28/2011 18:01:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG360099-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **30.152**	**.98708**	F **-151.55**	**-.00292**	**-.00347**	**3.6548**	**.00006**
Stddev	2.751	.02982	3.88	.00106	.00048	.1429	.00010
%RSD	9.1238	3.0215	2.5605	36.181	13.691	3.9107	168.36
#1	32.881	.96246	-149.38	-.00409	-.00388	3.7121	.00017
#2	27.379	1.0202	-156.03	-.00203	-.00295	3.4921	.00005
#3	30.195	.97853	-149.24	-.00265	-.00358	3.7602	-.00004
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.02483**	**.00276**	**.01565**	**.00941**	**2.8396**
Stddev	.00008	.00016	.00107	.00038	.00235	.0893
%RSD	8.8040	.63180	38.910	2.3991	24.929	3.1464
#1	.00081	.02466	.00392	.01569	.01184	2.9224
#2	.00092	.02485	.00181	.01601	.00922	2.7449
#3	.00096	.02497	.00254	.01526	.00716	2.8514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**52226.**	**60485.**
Stddev	454.	31.
%RSD	.86854	.05190
#1	52128.	60520.
#2	51828.	60461.
#3	52720.	60474.

Approved: March 29, 2011

Sample Name: L1103092603S Acquired: 3/28/2011 18:05:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG360099-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00233**	**6.8790**	**.00478**	**.00959**	**.01316**	**.00026**	**.19667**
Stddev	.00047	.0901	.00104	.00009	.00034	.00000	.00252
%RSD	20.258	1.3090	21.704	.97870	2.5473	1.7280	1.2804
#1	.00180	6.9461	.00391	.00949	.01338	.00025	.19957
#2	.00272	6.7767	.00450	.00968	.01333	.00026	.19507
#3	.00245	6.9144	.00593	.00959	.01278	.00026	.19536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00197**	**.00789**	**.00618**	**8.9547**	**.49133**	**.00573**
Stddev	.00005	.00013	.00013	.00031	.2100	.02128	.00024
%RSD	37.305	6.5390	1.6579	4.9873	2.3446	4.3311	4.1807
#1	.00020	.00197	.00777	.00615	9.1172	.51395	.00545
#2	.00014	.00184	.00786	.00589	9.0291	.48835	.00586
#3	.00009	.00210	.00803	.00650	8.7176	.47170	.00588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27676**	**.02933**	**.00405**	**.23594**	**.00486**	**540.54**	**.00535**
Stddev	.01556	.00073	.00006	.00677	.00063	9.91	.00123
%RSD	5.6238	2.4975	1.5541	2.8714	12.989	1.8338	22.923
#1	.29459	.02999	.00406	.24119	.00496	541.82	.00411
#2	.26980	.02946	.00410	.23834	.00419	549.75	.00656
#3	.26589	.02854	.00398	.22829	.00544	530.05	.00538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092603S Acquired: 3/28/2011 18:05:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG360099-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **20.350**	**.99960**	F **-144.16**	**.00368**	**-.00009**	**14.027**	**.00438**
Stddev	7.851	.02432	3.74	.00044	.00134	.132	.00037
%RSD	38.578	2.4327	2.5964	11.926	1468.1	.94071	8.5188
#1	26.704	.98198	-145.42	.00348	.00127	14.069	.00481
#2	11.574	.98947	-139.95	.00419	-.00142	13.879	.00416
#3	22.772	1.0273	-147.12	.00338	-.00012	14.133	.00416
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00571**	**.05621**	**.00442**	**.02196**	**.01656**	**2.9727**
Stddev	.00017	.00154	.00051	.00029	.00525	.1169
%RSD	2.9354	2.7471	11.643	1.3322	31.678	3.9316
#1	.00584	.05719	.00493	.02170	.01380	2.8530
#2	.00577	.05700	.00390	.02190	.01327	3.0865
#3	.00552	.05443	.00444	.02227	.02261	2.9785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51564.**	**60003.**
Stddev	274.	274.
%RSD	.53227	.45687
#1	51539.	59687.
#2	51851.	60178.
#3	51303.	60143.

Approved: March 29, 2011

Sample Name: L1103092604SD Acquired: 3/28/2011 18:09:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG360099-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**5.9728**	**.00449**	**.00935**	**.01149**	**.00025**	**.17266**
Stddev	.00052	.0714	.00049	.00103	.00020	.00001	.00170
%RSD	24.316	1.1960	10.897	11.018	1.7156	5.7233	.98336
#1	.00162	5.9767	.00505	.00824	.01142	.00026	.17169
#2	.00267	6.0422	.00424	.00953	.01134	.00026	.17168
#3	.00216	5.8995	.00418	.01027	.01172	.00024	.17462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00178**	**.00699**	**.00562**	**7.9881**	**.45388**	**.00477**
Stddev	.00005	.00010	.00020	.00018	.1084	.03663	.00032
%RSD	28.338	5.7776	2.8571	3.2824	1.3570	8.0695	6.6121
#1	.00012	.00168	.00676	.00551	8.0420	.49524	.00463
#2	.00022	.00189	.00715	.00584	7.8633	.44081	.00513
#3	.00021	.00177	.00706	.00552	8.0589	.42558	.00454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22981**	**.02582**	**.00407**	**.23093**	**.00448**	**501.09**	**.00389**
Stddev	.00240	.00039	.00003	.00232	.00064	12.79	.00079
%RSD	1.0457	1.5049	.82716	1.0051	14.252	2.5520	20.446
#1	.22816	.02624	.00404	.23357	.00374	492.27	.00471
#2	.23257	.02576	.00407	.22998	.00484	515.75	.00382
#3	.22870	.02546	.00411	.22923	.00485	495.24	.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103092604SD Acquired: 3/28/2011 18:09:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment: WG360099-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **42.053**	**.89223**	F **-130.24**	**.00370**	**-.00078**	**15.388**	**.00441**
Stddev	1.217	.05659	3.51	.00070	.00145	.433	.00011
%RSD	2.8929	6.3426	2.6959	18.852	186.20	2.8120	2.5785
#1	42.143	.86934	-133.65	.00365	.00015	15.093	.00436
#2	43.223	.95668	-126.64	.00441	-.00245	15.885	.00454
#3	40.794	.85066	-130.44	.00302	-.00004	15.187	.00433
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00531**	**.04686**	**.00467**	**.02023**	**.01329**	**1.9254**
Stddev	.00008	.00049	.00045	.00038	.00195	.2129
%RSD	1.5212	1.0511	9.6632	1.8909	14.692	11.055
#1	.00538	.04728	.00463	.02016	.01181	1.9816
#2	.00522	.04632	.00424	.02064	.01255	1.6900
#3	.00532	.04698	.00514	.01988	.01550	2.1045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51358.**	**62779.**
Stddev	492.	398.
%RSD	.95856	.63383
#1	51708.	63190.
#2	50795.	62753.
#3	51571.	62395.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 18:12:50 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38430**	**9.5416**	**.38238**	**.47667**	**.94754**	**.04702**	**9.3516**
Stddev	.00898	.2601	.01257	.01247	.06151	.00131	.6018
%RSD	2.3374	2.7255	3.2877	2.6165	6.4913	2.7904	6.4354
#1	.37454	9.2489	.37465	.46287	.92791	.04555	9.1663
#2	.38614	9.6296	.37560	.47999	1.0165	.04744	10.024
#3	.39222	9.7462	.39689	.48714	.89825	.04807	8.8642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04771**	**.19236**	**.47553**	**.48190**	F **3.5841**	**45.999**	**.93938**
Stddev	.00160	.00638	.01287	.01552	.2305	2.936	.05724
%RSD	3.3479	3.3192	2.7070	3.2203	6.4303	6.3826	6.0936
#1	.04669	.18835	.46108	.47287	3.5082	45.074	.92243
#2	.04689	.18900	.47972	.47302	3.8430	49.287	1.0032
#3	.04955	.19972	.48578	.49982	3.4012	43.638	.89253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					4.0000		
Range					-10.000%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.6514**	F **.44557**	**.95017**	**46.842**	**.47942**	F **7.5885**	**.47911**
Stddev	.5341	.03081	.02895	2.965	.01509	12.541	.01526
%RSD	6.1740	6.9149	3.0472	6.3307	3.1479	165.27	3.1851
#1	8.4223	.43530	.93153	45.880	.46888	14.102	.46792
#2	9.2619	.48020	.93545	50.169	.47267	15.533	.47293
#3	8.2701	.42120	.98353	44.477	.49670	-6.8693	.49649
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000	.50000				10.000	
Range	-10.000%	-10.000%				-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 18:12:50 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **48.265**	**9.5269**	F **8.3735**	**1.1641**	**.38159**	**4.7318**	**.95589**
Stddev	9.263	.3661	.3907	.0428	.01100	.3040	.03349
%RSD	19.193	3.8433	4.6664	3.6765	2.8819	6.4247	3.5033
#1	50.046	9.2626	8.4623	1.1378	.37483	4.7221	.93337
#2	38.241	9.3732	7.9460	1.1409	.37566	4.4328	.93992
#3	56.509	9.9449	8.7122	1.2135	.39428	5.0405	.99437
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.93979**	**.91288**	**.48834**	**.95942**	**.93217**	F **2.3491**
Stddev	.06029	.05671	.01612	.02672	.02946	.0267
%RSD	6.4149	6.2127	3.3009	2.7854	3.1605	1.1373
#1	.91933	.89072	.47883	.92940	.91355	2.3190
#2	1.0076	.97733	.47923	.96825	.91683	2.3584
#3	.89241	.87059	.50695	.98062	.96614	2.3699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49946.**	**61583.**
Stddev	933.	2682.
%RSD	1.8674	4.3546
#1	50507.	62148.
#2	50461.	58664.
#3	48869.	63937.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 18:16:14 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00055**	**.00106**	**.00111**	**-.00026**	**.00002**	**.00086**
Stddev	.00057	.00399	.00195	.00039	.00012	.00001	.00236
%RSD	3789.4	728.11	184.18	34.592	46.571	26.728	274.40
#1	-.00016	-.00381	.00133	.00145	-.00040	.00002	.00226
#2	.00066	.00401	-.00101	.00069	-.00017	.00002	.00218
#3	-.00045	.00144	.00286	.00121	-.00022	.00003	-.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00005**	**.00011**	**-.00059**	**.00118**	**.06424**	**-.00051**
Stddev	.00005	.00012	.00006	.00011	.00192	.00692	.00045
%RSD	83.540	237.55	54.313	19.289	161.92	10.772	89.024
#1	-.00006	.00017	.00013	-.00064	-.00086	.05989	-.00083
#2	-.00001	-.00008	.00017	-.00046	.00294	.07222	.00001
#3	-.00011	.00006	.00005	-.00067	.00147	.06062	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00688**	**-.00006**	**-.00004**	**.02025**	**.00040**	F **-3.3858**	**-.00013**
Stddev	.00927	.00010	.00011	.00373	.00023	7.0744	.00142
%RSD	134.71	170.20	303.00	18.411	58.455	208.94	1079.7
#1	-.01758	-.00013	-.00014	.02157	.00046	3.8205	-.00174
#2	-.00156	-.00009	.00009	.02314	.00014	-10.320	.00038
#3	-.00150	.00005	-.00006	.01604	.00060	-3.6575	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 18:16:14 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **31.825**	**.00842**	F **-10.013**	**-.00201**	**-.00065**	**-.31262**	**-.00017**
Stddev	4.682	.03915	4.757	.00093	.00118	.02740	.00016
%RSD	14.713	464.95	47.513	46.336	181.52	8.7642	92.035
#1	36.812	.00247	-5.3767	-.00156	-.00067	-.31125	.00001
#2	31.141	-.02741	-14.883	-.00139	.00054	-.28594	-.00024
#3	27.523	.05020	-9.7791	-.00309	-.00182	-.34069	-.00028
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000		.01000				
Low Limit	-.01000		-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00105**	**.00006**	**-.00042**	**-.00076**	F **.23691**
Stddev	.00008	.00009	.00017	.00015	.00033	.06251
%RSD	190.25	8.8577	291.43	35.423	43.555	26.387
#1	-.00014	.00096	-.00001	-.00039	-.00112	.30669
#2	.00003	.00106	.00025	-.00057	-.00046	.21800
#3	-.00002	.00114	-.00006	-.00028	-.00071	.18603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51180.**	**62052.**
Stddev	770.	993.
%RSD	1.5048	1.6003
#1	51914.	63187.
#2	50379.	61626.
#3	51247.	61343.

Approved: March 29, 2011

Sample Name: PBS 40 Acquired: 3/28/2011 18:19:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00151**	**-.00311**	**-.00167**	**.00013**	**.00000**	**-.00548**
Stddev	.00036	.00453	.00101	.00054	.00004	.0000	.00533
%RSD	90.622	299.51	32.564	32.527	33.860	377.99	97.275
#1	.00020	.00284	-.00424	-.00106	.00014	.00000	-.00092
#2	.00017	-.00118	-.00228	-.00210	.00009	-.00002	-.01134
#3	.00081	-.00620	-.00281	-.00185	.00018	.00001	-.00417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00043**	**.00710**	**.00010**	**.04193**	**.18129**	**-.00133**
Stddev	.00003	.00012	.00079	.00047	.00042	.01032	.00087
%RSD	10.783	27.629	11.091	466.71	1.0003	5.6910	65.084
#1	.00030	-.00054	.00777	.00063	.04231	.18536	-.00211
#2	.00025	-.00031	.00729	-.00025	.04148	.16956	-.00040
#3	.00025	-.00045	.00623	-.00008	.04201	.18895	-.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00598**	**.00071**	**.00007**	**.03279**	**.00470**	F **-59.527**	**.00044**
Stddev	.00351	.00037	.00007	.00775	.00048	1.109	.00096
%RSD	58.624	52.602	99.993	23.634	10.197	1.8631	216.47
#1	-.00193	.00111	.00012	.02861	.00434	-58.247	.00001
#2	-.00811	.00036	-.00001	.04173	.00524	-60.131	.00154
#3	-.00789	.00067	.00010	.02802	.00451	-60.203	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: PBS 40 Acquired: 3/28/2011 18:19:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **52.636**	**2.4392**	F **-427.53**	**-.00043**	**.00236**	**4.3446**	**.00075**
Stddev	5.586	.1248	26.61	.00112	.00091	.4769	.00008
%RSD	10.612	5.1164	6.2229	259.24	38.459	10.976	11.144
#1	56.507	2.5715	-458.25	.00083	.00134	4.8769	.00080
#2	55.168	2.4225	-412.57	-.00083	.00266	4.2002	.00078
#3	46.233	2.3236	-411.78	-.00130	.00307	3.9566	.00065
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00133**	**-.00255**	**-.00008**	**.00517**	**.43539**
Stddev	.00003	.00044	.00184	.00009	.00481	.13425
%RSD	9.5292	32.908	71.986	115.75	93.062	30.833
#1	-.00027	.00119	-.00465	-.00007	.00304	.28296
#2	-.00024	.00181	-.00176	.00001	.00180	.48724
#3	-.00029	.00097	-.00124	-.00017	.01068	.53598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47743.**	**64521.**
Stddev	1794.	2182.
%RSD	3.7568	3.3812
#1	45835.	64367.
#2	48002.	66775.
#3	49394.	62420.

Approved: March 29, 2011

Sample Name: LCSS 40 Acquired: 3/28/2011 18:23:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19728**	**-.00107**	**.19658**	**-.00196**	**.00232**	**.00000**	**-.01740**
Stddev	.00427	.00448	.00812	.00050	.00002	.00000	.00128
%RSD	2.1645	419.92	4.1298	25.430	1.0443	91.667	7.3293
#1	.19801	-.00063	.19114	-.00210	.00232	.00001	-.01796
#2	.20115	.00317	.20591	-.00237	.00229	.00001	-.01830
#3	.19270	-.00575	.19269	-.00140	.00234	.00000	-.01594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02570**	**-.00033**	**.01886**	**.26037**	**.05146**	**.05438**	**-.00112**
Stddev	.00106	.00018	.01169	.01013	.01472	.01712	.00032
%RSD	4.1388	53.034	61.979	3.8893	28.606	31.477	28.477
#1	.02508	-.00014	.01205	.25452	.06845	.05731	-.00148
#2	.02693	-.00037	.01218	.27207	.04330	.03599	-.00087
#3	.02510	-.00049	.03236	.25453	.04263	.06984	-.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00455**	**.24310**	**.00030**	**.02141**	**.00816**	F **-61.201**	**.25385**
Stddev	.00478	.00207	.00021	.00187	.00505	13.772	.00880
%RSD	105.02	.85314	71.063	8.7448	61.830	22.503	3.4656
#1	.00097	.24127	.00054	.01933	.01398	-63.305	.24815
#2	-.00730	.24267	.00016	.02297	.00501	-46.498	.26398
#3	-.00732	.24536	.00019	.02193	.00549	-73.801	.24942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: LCSS 40 Acquired: 3/28/2011 18:23:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **42.348**	**.18571**	F **-20.052**	**-.00060**	**.00215**	**2.8996**	**.00039**
Stddev	8.205	.03760	3.831	.00099	.00087	.5293	.00013
%RSD	19.376	20.247	19.103	165.31	40.773	18.254	34.583
#1	51.220	.14769	-17.792	-.00145	.00157	3.1000	.00024
#2	40.792	.22287	-24.475	.00049	.00315	3.2994	.00049
#3	35.032	.18657	-17.890	-.00084	.00172	2.2994	.00044
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00083**	**-.00302**	**-.00028**	**.00108**	**.21871**
Stddev	.00005	.00028	.00161	.00025	.00085	.13485
%RSD	18.062	33.525	53.459	88.546	78.689	61.658
#1	-.00031	.00061	-.00416	-.00045	.00029	.11206
#2	-.00022	.00115	-.00373	-.00041	.00198	.17378
#3	-.00032	.00074	-.00117	.00001	.00097	.37030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47500.**	**60360.**
Stddev	1267.	78.
%RSD	2.6683	.12953
#1	48090.	60358.
#2	46045.	60439.
#3	48364.	60283.

Approved: March 29, 2011

Sample Name: L1103068523 Acquired: 3/28/2011 18:27:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00663**	**102.07**	**.09392**	**.15565**	**1.7113**	**.01351**	**68.296**
Stddev	.00059	.13	.00072	.00130	.0045	.00009	.157
%RSD	8.8518	.12429	.76577	.83233	.26466	.65663	.23010
#1	.00596	101.93	.09323	.15509	1.7117	.01348	68.273
#2	.00700	102.17	.09385	.15472	1.7065	.01344	68.152
#3	.00695	102.12	.09467	.15713	1.7155	.01361	68.464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00831**	**.21482**	**.18624**	**.22455**	**313.95**	**9.4086**	**.07847**
Stddev	.00019	.00055	.00088	.00048	2.29	.0279	.00057
%RSD	2.2771	.25391	.47371	.21508	.72903	.29657	.72396
#1	.00852	.21445	.18615	.22439	313.39	9.4150	.07829
#2	.00815	.21455	.18540	.22417	311.99	9.3781	.07801
#3	.00827	.21544	.18716	.22509	316.46	9.4328	.07910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.434**	**17.238**	**.01153**	**.64660**	**.19689**	F **25166.**	**.49817**
Stddev	.128	.140	.00018	.00185	.00133	237.	.00408
%RSD	.88474	.81155	1.5188	.28683	.67606	.94361	.81825
#1	14.427	17.180	.01165	.64632	.19569	24891.	.49600
#2	14.310	17.136	.01133	.64858	.19832	25299.	.50287
#3	14.566	17.397	.01161	.64491	.19666	25306.	.49563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068523 Acquired: 3/28/2011 18:27:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **60.869**	F **126.60**	F **-10934.**	**.00433**	**.01479**	F **629.73**	**.09311**
Stddev	6.957	.04	21.	.00179	.00057	1.75	.00049
%RSD	11.430	.03483	.19161	41.290	3.8438	.27790	.52352
#1	63.686	126.63	-10954.	.00343	.01521	628.87	.09322
#2	65.976	126.62	-10937.	.00639	.01501	628.57	.09353
#3	52.945	126.55	-10912.	.00317	.01414	631.74	.09257
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45243**	**.27591**	**.00657**	**.33107**	**1.1477**	F **120.51**
Stddev	.00079	.00060	.00142	.00141	.0047	.70
%RSD	.17429	.21755	21.596	.42540	.41120	.58501
#1	.45333	.27635	.00515	.33000	1.1447	120.03
#2	.45203	.27523	.00657	.33053	1.1531	120.17
#3	.45192	.27616	.00798	.33266	1.1453	121.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47184.**	**61191.**
Stddev	124.	509.
%RSD	.26270	.83173
#1	47119.	61069.
#2	47327.	61750.
#3	47105.	60754.

Approved: March 29, 2011

Sample Name: L1103068523PS Acquired: 3/28/2011 18:30:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360097-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21474**	**97.029**	**.27993**	**1.1166**	**2.0248**	**.03761**	**65.942**
Stddev	.00119	.382	.00124	.0014	.0021	.00016	.160
%RSD	.55473	.39369	.44180	.12960	.10388	.42682	.24269
#1	.21341	96.588	.28093	1.1154	2.0270	.03747	65.972
#2	.21570	97.229	.27855	1.1163	2.0245	.03779	66.085
#3	.21513	97.268	.28033	1.1182	2.0228	.03759	65.769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03222**	**.29285**	**.41690**	**.44331**	**284.18**	**32.393**	**.57233**
Stddev	.00005	.00011	.00110	.00021	.79	.082	.00084
%RSD	.16403	.03654	.26366	.04772	.27827	.25442	.14701
#1	.03220	.29275	.41680	.44355	285.08	32.433	.57298
#2	.03228	.29296	.41805	.44324	283.57	32.449	.57263
#3	.03218	.29283	.41586	.44315	283.90	32.299	.57138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.619**	**15.610**	**.52535**	**25.753**	**.42157**	F **22729.**	**.67881**
Stddev	.065	.039	.00061	.084	.00093	49.	.00075
%RSD	.36771	.25130	.11620	.32477	.22076	.21514	.11013
#1	17.689	15.643	.52582	25.751	.42054	22729.	.67897
#2	17.562	15.620	.52558	25.837	.42236	22778.	.67947
#3	17.606	15.567	.52466	25.670	.42179	22680.	.67800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068523PS Acquired: 3/28/2011 18:30:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360097-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **64.752**	F **118.42**	F **-9881.5**	**.58718**	**.20834**	F **1229.7**	**.08439**
Stddev	2.551	.19	7.3	.00175	.00218	1.8	.00049
%RSD	3.9402	.16189	.07390	.29726	1.0455	.14939	.57680
#1	66.673	118.44	-9875.4	.58853	.20984	1228.6	.08398
#2	61.857	118.60	-9889.5	.58521	.20584	1231.8	.08493
#3	65.726	118.21	-9879.4	.58781	.20933	1228.6	.08427
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.89856**	**.72062**	**.24366**	**.82568**	**1.5031**	F **108.04**
Stddev	.00228	.00244	.00017	.00248	.0005	.36
%RSD	.25403	.33921	.06903	.29977	.03173	.33416
#1	.89912	.72245	.24377	.82289	1.5026	107.73
#2	.90050	.71784	.24375	.82762	1.5032	107.96
#3	.89604	.72156	.24347	.82652	1.5035	108.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47035.**	**60881.**
Stddev	65.	471.
%RSD	.13809	.77294
#1	47034.	60342.
#2	46970.	61091.
#3	47100.	61210.

Approved: March 29, 2011

Sample Name: L1103068523SDL Acquired: 3/28/2011 18:34:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360097-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**20.148**	**.02057**	**.03160**	**.33444**	**.00266**	**13.585**
Stddev	.00060	.125	.00020	.00026	.00062	.00001	.006
%RSD	46.265	.62077	.96123	.81478	.18519	.44798	.04695
#1	.00183	20.009	.02068	.03166	.33440	.00265	13.581
#2	.00141	20.182	.02069	.03132	.33384	.00266	13.593
#3	.00065	20.253	.02034	.03183	.33508	.00268	13.583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00156**	**.04439**	**.03649**	**.04655**	**65.645**	**1.9520**	**.01366**
Stddev	.00006	.00016	.00032	.00104	.103	.0047	.00060
%RSD	3.9948	.37098	.88455	2.2366	.15748	.23969	4.3630
#1	.00153	.04420	.03612	.04571	65.757	1.9471	.01310
#2	.00152	.04448	.03673	.04623	65.553	1.9524	.01429
#3	.00164	.04449	.03661	.04772	65.624	1.9564	.01358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1630**	**3.5704**	**.00194**	**.13281**	**.04071**	F **5317.3**	**.10706**
Stddev	.0115	.0025	.00007	.00695	.00067	25.7	.00070
%RSD	.36453	.07096	3.4281	5.2323	1.6402	.48379	.65012
#1	3.1749	3.5730	.00201	.13551	.04004	5289.6	.10641
#2	3.1518	3.5679	.00188	.12492	.04071	5321.6	.10779
#3	3.1624	3.5704	.00192	.13801	.04138	5340.5	.10697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068523SDL Acquired: 3/28/2011 18:34:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360097-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **29.096**	F **27.130**	F **-2329.3**	**-.00070**	**.00123**	F **129.40**	**.01941**
Stddev	6.019	.232	13.3	.00037	.00172	.80	.00012
%RSD	20.687	.85584	.57132	53.078	139.00	.61537	.61569
#1	22.858	26.868	-2315.3	-.00084	.00136	128.49	.01950
#2	34.869	27.213	-2330.6	-.00098	.00289	129.92	.01945
#3	29.560	27.309	-2341.8	-.00028	-.00054	129.80	.01927
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08902**	**.05607**	**.00291**	**.06565**	**.24201**	**22.831**
Stddev	.00001	.00057	.00064	.00027	.00385	.062
%RSD	.01389	1.0110	22.121	.40795	1.5904	.26993
#1	.08902	.05625	.00218	.06538	.24025	22.766
#2	.08901	.05653	.00338	.06564	.23935	22.889
#3	.08903	.05544	.00317	.06592	.24642	22.837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50623.**	**60975.**
Stddev	297.	327.
%RSD	.58631	.53632
#1	50936.	61278.
#2	50588.	61020.
#3	50346.	60628.

Approved: March 29, 2011

Sample Name: L1103068523SDL Acquired: 3/28/2011 18:37:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360097-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**3.8971**	**.00492**	**.00349**	**.06558**	**.00054**	**2.6329**
Stddev	.00038	.2024	.00083	.00075	.00049	.00001	.0189
%RSD	135.38	5.1946	16.912	21.545	.74007	.99965	.71819
#1	.00065	4.0084	.00581	.00436	.06525	.00054	2.6280
#2	-.00011	4.0195	.00416	.00313	.06536	.00054	2.6168
#3	.00030	3.6635	.00477	.00299	.06614	.00053	2.6537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00880**	**.00667**	**.00884**	**12.890**	**.41460**	**.00118**
Stddev	.00007	.00070	.00062	.00039	.071	.02579	.00108
%RSD	36.227	7.9103	9.3643	4.4283	.55082	6.2201	91.266
#1	.00024	.00917	.00700	.00915	12.880	.39916	.00225
#2	.00021	.00923	.00705	.00897	12.824	.40027	.00122
#3	.00011	.00800	.00595	.00840	12.965	.44437	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.61162**	**.69695**	**-.00004**	**.02569**	**.00764**	F **1075.2**	**.02117**
Stddev	.01708	.00482	.00015	.00050	.00032	78.9	.00119
%RSD	2.7920	.69099	370.25	1.9608	4.1535	7.3352	5.6362
#1	.59923	.69537	.00013	.02515	.00776	1121.0	.02144
#2	.60455	.69311	-.00009	.02614	.00789	1120.4	.02220
#3	.63110	.70235	-.00017	.02577	.00728	984.11	.01986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068523SDL Acquired: 3/28/2011 18:37:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360097-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **26.569**	**5.4001**	F **-468.85**	**-.00250**	**-.00237**	**24.003**	**.00335**
Stddev	9.191	.4658	43.03	.00103	.00143	2.077	.00038
%RSD	34.595	8.6252	9.1782	41.066	60.414	8.6550	11.245
#1	24.854	5.6551	-493.15	-.00340	-.00080	25.101	.00362
#2	18.355	5.6827	-494.25	-.00138	-.00360	25.300	.00351
#3	36.497	4.8625	-419.17	-.00271	-.00272	21.607	.00292
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01743**	**.01128**	**.00221**	**.01262**	**.04586**	**3.5446**
Stddev	.00011	.00028	.00050	.00074	.00202	.1382
%RSD	.65946	2.4552	22.638	5.8300	4.4049	3.8980
#1	.01743	.01102	.00224	.01293	.04703	3.5814
#2	.01732	.01123	.00169	.01315	.04702	3.3917
#3	.01755	.01157	.00269	.01178	.04352	3.6606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**52282.**	**61896.**
Stddev	2866.	65.
%RSD	5.4814	.10505
#1	50670.	61904.
#2	50586.	61956.
#3	55591.	61827.

Approved: March 29, 2011

Sample Name: L1103068524 Acquired: 3/28/2011 18:41:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00845**	**94.620**	**.10034**	**.17907**	**1.9011**	**.01130**	**64.000**
Stddev	.00003	.951	.00086	.00098	.0050	.00011	.225
%RSD	.34575	1.0052	.85605	.54609	.26278	.97466	.35083
#1	.00847	93.705	.10073	.18007	1.8975	.01134	64.060
#2	.00847	95.604	.10094	.17903	1.8989	.01138	63.752
#3	.00842	94.552	.09936	.17812	1.9068	.01117	64.189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01594**	**.18743**	**.25257**	**.33635**	**334.21**	**16.894**	**.07210**
Stddev	.00022	.00217	.00326	.00406	.91	.034	.00027
%RSD	1.3677	1.1556	1.2894	1.2061	.27234	.19994	.37412
#1	.01591	.18758	.25434	.33700	334.28	16.881	.07238
#2	.01616	.18952	.25455	.34005	333.27	16.868	.07205
#3	.01573	.18520	.24881	.33201	335.09	16.932	.07185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.806**	**15.741**	**.01122**	**.29660**	**.20084**	F **49769.**	**1.1676**
Stddev	.082	.083	.00030	.00512	.00242	471.	.0129
%RSD	.63725	.52485	2.6475	1.7249	1.2036	.94673	1.1041
#1	12.868	15.732	.01132	.29981	.20229	49840.	1.1711
#2	12.714	15.664	.01145	.29070	.20218	50201.	1.1784
#3	12.836	15.828	.01088	.29928	.19805	49266.	1.1533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068524 Acquired: 3/28/2011 18:41:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **79.659**	F **202.53**	F **-26190.**	**.05284**	**.01327**	F **647.25**	**.05583**
Stddev	11.225	1.83	316.	.00227	.00112	7.24	.00102
%RSD	14.092	.90419	1.2082	4.2974	8.4140	1.1189	1.8202
#1	83.124	202.69	-26291.	.05534	.01236	647.93	.05609
#2	88.744	204.28	-26443.	.05227	.01294	654.13	.05669
#3	67.110	200.63	-25835.	.05091	.01452	639.69	.05471
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44988**	**.28392**	**.00409**	**.29959**	**2.2733**	F **119.22**
Stddev	.00208	.00200	.00079	.00178	.0216	.46
%RSD	.46268	.70268	19.216	.59371	.95035	.38304
#1	.44990	.28585	.00321	.29936	2.2733	119.11
#2	.44779	.28186	.00431	.30147	2.2949	119.72
#3	.45195	.28405	.00473	.29793	2.2517	118.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47287.**	**62730.**
Stddev	432.	642.
%RSD	.91396	1.0231
#1	47071.	61992.
#2	47005.	63158.
#3	47784.	63039.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 18:45:18 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39716**	**10.017**	**.39346**	**.49781**	**1.0175**	**.04955**	**10.089**
Stddev	.00629	.073	.00277	.00578	.0084	.00063	.107
%RSD	1.5825	.72556	.70306	1.1611	.82672	1.2741	1.0556
#1	.40394	10.087	.39503	.50391	1.0105	.05025	10.011
#2	.39601	10.021	.39509	.49709	1.0151	.04937	10.047
#3	.39153	9.9419	.39027	.49242	1.0268	.04903	10.211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04931**	**.19865**	**.50248**	**.49750**	**3.9357**	**49.629**	**1.0044**
Stddev	.00057	.00216	.00487	.00463	.0215	.455	.0083
%RSD	1.1593	1.0885	.96849	.93078	.54726	.91766	.82537
#1	.04987	.20068	.50725	.50162	3.9174	49.243	.99746
#2	.04934	.19890	.50269	.49840	3.9303	49.512	1.0021
#3	.04873	.19638	.49752	.49249	3.9595	50.131	1.0136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6281**	**.48888**	**.98890**	**50.443**	**.49836**	F **-.91025**	**.49800**
Stddev	.0705	.00595	.01026	.538	.00506	1.2950	.00316
%RSD	.73199	1.2162	1.0379	1.0659	1.0160	142.27	.63359
#1	9.5640	.48375	1.00000	49.981	.50361	-.10002	.49975
#2	9.6168	.48748	.98695	50.314	.49795	-.22698	.49989
#3	9.7036	.49540	.97975	51.033	.49351	-2.4038	.49435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 18:45:18 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **25.171**	**10.016**	F **-1.1180**	**1.1984**	**.40044**	**5.0817**	**.98442**
Stddev	8.197	.133	8.4990	.0110	.00440	.3506	.01057
%RSD	32.564	1.3298	760.22	.91412	1.0988	6.8998	1.0735
#1	34.522	10.149	-10.631	1.2097	.40541	5.3448	.99415
#2	21.758	10.016	5.7277	1.1976	.39889	5.2167	.98594
#3	19.231	9.8831	1.5490	1.1878	.39703	4.6837	.97318
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0097**	**.98710**	**.50429**	**1.0024**	**.97947**	**1.0696**
Stddev	.0116	.00577	.00597	.0133	.00962	.0889
%RSD	1.1465	.58427	1.1833	1.3278	.98171	8.3082
#1	1.0002	.98160	.50957	1.0168	.98825	1.1646
#2	1.0062	.98661	.50549	.99996	.98096	.98849
#3	1.0226	.99310	.49782	.99054	.96919	1.0558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49756.**	**58854.**
Stddev	318.	550.
%RSD	.64000	.93420
#1	49450.	59318.
#2	49733.	58998.
#3	50085.	58247.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 18:48:42 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00354**	**.00023**	**.00144**	**-.00020**	**.00001**	**.00101**
Stddev	.00065	.01037	.00065	.00065	.00009	.00001	.00389
%RSD	372.78	293.19	280.25	45.369	46.454	63.951	384.98
#1	.00033	.01043	-.00006	.00210	-.00017	.00001	-.00177
#2	-.00091	.00858	-.00022	.00144	-.00013	.00001	.00545
#3	.00006	-.00839	.00097	.00079	-.00031	.00002	-.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00001**	**-.00002**	**-.00042**	**.00464**	**.04664**	**-.00068**
Stddev	.00010	.00006	.00028	.00023	.00224	.01683	.00120
%RSD	205.32	571.85	1648.7	54.622	48.150	36.089	175.05
#1	-.00006	-.00006	.00011	-.00022	.00488	.05954	.00014
#2	.00005	.00005	.00017	-.00036	.00675	.02760	-.00014
#3	-.00014	.00005	-.00034	-.00067	.00230	.05278	-.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01142**	**-.00026**	**.00014**	**.01693**	**.00017**	F **8.9344**	**-.00023**
Stddev	.00453	.00007	.00004	.00155	.00047	6.9392	.00138
%RSD	39.671	28.892	26.891	9.1480	269.60	77.668	601.18
#1	-.01445	-.00018	.00017	.01699	-.00004	1.7354	.00005
#2	-.01361	-.00026	.00014	.01844	-.00015	9.4870	-.00172
#3	-.00621	-.00033	.00010	.01535	.00072	15.581	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 18:48:42 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **32.006**	**.06708**	F **-7.3719**	**-.00111**	**-.00016**	**-.37383**	**.00001**
Stddev	2.429	.07496	1.7062	.00167	.00085	.23922	.00020
%RSD	7.5898	111.75	23.144	149.58	536.72	63.993	3373.0
#1	31.769	.09090	-5.4304	.00034	-.00099	-.37624	-.00002
#2	29.704	.12724	-8.6324	-.00293	.00070	-.13341	-.00017
#3	34.545	-.01690	-8.0528	-.00076	-.00018	-.61183	.00022
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00112**	**-.00031**	**-.00010**	**-.00017**	F **.24728**
Stddev	.00003	.00004	.00136	.00019	.00218	.20226
%RSD	40.907	3.4537	441.84	204.25	1269.2	81.797
#1	-.00010	.00109	.00080	-.00029	-.00114	.04397
#2	-.00004	.00116	-.00183	.00010	-.00170	.44848
#3	-.00009	.00110	.00011	-.00010	.00232	.24939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51184.**	**59316.**
Stddev	3785.	385.
%RSD	7.3940	.64951
#1	49043.	58872.
#2	48954.	59565.
#3	55553.	59511.

Approved: March 29, 2011

Sample Name: L1103068525 Acquired: 3/28/2011 18:52:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00921**	**101.82**	**.09722**	**.16714**	**1.6441**	**.01168**	**48.393**
Stddev	.00066	2.44	.00201	.00171	.0120	.00008	.338
%RSD	7.2157	2.3941	2.0631	1.0205	.72681	.71527	.69827
#1	.00963	100.84	.09551	.16825	1.6573	.01168	48.783
#2	.00957	104.59	.09942	.16518	1.6340	.01176	48.189
#3	.00845	100.01	.09672	.16800	1.6411	.01159	48.207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00836**	**.32177**	**.14714**	**.17078**	**335.70**	**9.6413**	**.08464**
Stddev	.00012	.00818	.00125	.00551	1.98	.0729	.00089
%RSD	1.4208	2.5414	.84708	3.2261	.58888	.75647	1.0463
#1	.00833	.31710	.14695	.16719	337.90	9.7255	.08567
#2	.00849	.33121	.14847	.17712	334.06	9.5985	.08410
#3	.00825	.31700	.14600	.16802	335.15	9.5998	.08416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.034**	**22.572**	**.00963**	**.33403**	**.20255**	F **29131.**	**.58722**
Stddev	.095	.130	.00027	.00277	.00554	706.	.01663
%RSD	.67882	.57754	2.7917	.82851	2.7332	2.4235	2.8318
#1	14.112	22.722	.00964	.33588	.19936	28761.	.57752
#2	13.928	22.486	.00989	.33536	.20895	29945.	.60642
#3	14.061	22.507	.00935	.33085	.19936	28687.	.57773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068525 Acquired: 3/28/2011 18:52:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.585**	F **119.59**	F **-12933.**	**.01208**	**.01667**	F **563.04**	**.02882**
Stddev	7.623	2.88	335.	.00254	.00150	13.98	.00110
%RSD	12.378	2.4095	2.5910	21.017	8.9704	2.4839	3.8095
#1	58.680	118.08	-12782.	.01083	.01799	558.41	.02848
#2	55.843	122.91	-13317.	.01500	.01697	578.75	.03004
#3	70.234	117.77	-12699.	.01041	.01505	551.96	.02792
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37433**	**.22292**	**.00489**	**.28640**	**1.0123**	F **106.35**
Stddev	.00202	.00115	.00056	.00098	.0255	.54
%RSD	.53970	.51430	11.513	.34258	2.5158	.50943
#1	.37666	.22420	.00473	.28646	.99245	106.07
#2	.37309	.22200	.00441	.28735	1.0410	106.01
#3	.37324	.22255	.00551	.28539	1.0035	106.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46834.**	**61867.**
Stddev	825.	705.
%RSD	1.7621	1.1402
#1	47083.	61088.
#2	45912.	62050.
#3	47506.	62462.

Approved: March 29, 2011

Sample Name: L1103068526 Acquired: 3/28/2011 18:56:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00817**	**94.556**	**.10249**	**.16167**	**1.7489**	**.01156**	**166.51**
Stddev	.00080	.904	.00125	.00062	.0065	.00021	.62
%RSD	9.8076	.95655	1.2228	.38362	.37409	1.8527	.37410
#1	.00887	93.778	.10108	.16236	1.7563	.01134	167.12
#2	.00730	94.340	.10346	.16115	1.7463	.01158	165.88
#3	.00835	95.548	.10294	.16151	1.7440	.01177	166.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00920**	**.15074**	**.19545**	**.16705**	**292.06**	**17.009**	**.07187**
Stddev	.00015	.00281	.00381	.00429	1.54	.087	.00099
%RSD	1.6603	1.8655	1.9502	2.5699	.52795	.51342	1.3794
#1	.00910	.14781	.19143	.16246	293.73	17.099	.07084
#2	.00912	.15098	.19591	.16771	290.69	16.925	.07282
#3	.00938	.15342	.19901	.17097	291.76	17.002	.07195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.197**	**16.603**	**.01219**	**.39426**	**.16904**	F **36686.**	**.47278**
Stddev	.067	.088	.00017	.00428	.00294	541.	.00849
%RSD	.43831	.53117	1.3879	1.0868	1.7377	1.4749	1.7965
#1	15.250	16.680	.01227	.39800	.16569	36113.	.46304
#2	15.123	16.507	.01230	.38959	.17025	36759.	.47667
#3	15.219	16.622	.01200	.39521	.17118	37187.	.47864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068526 Acquired: 3/28/2011 18:56:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.774**	F **299.96**	F **-26938.**	**.00327**	**.01743**	F **624.53**	**.01324**
Stddev	6.436	6.58	389.	.00159	.00305	9.19	.00030
%RSD	9.3589	2.1934	1.4456	48.489	17.500	1.4718	2.2714
#1	64.266	292.80	-26551.	.00147	.01830	615.38	.01308
#2	76.145	301.34	-26935.	.00390	.01404	624.46	.01306
#3	65.910	305.74	-27330.	.00445	.01995	633.76	.01359
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.81885**	**.27611**	**.00614**	**.34990**	**1.2651**	F **132.87**
Stddev	.00185	.00107	.00056	.00641	.0231	2.67
%RSD	.22643	.38823	9.0482	1.8321	1.8286	2.0078
#1	.82062	.27659	.00551	.34285	1.2392	129.79
#2	.81692	.27488	.00655	.35145	1.2726	134.39
#3	.81900	.27686	.00637	.35539	1.2836	134.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46533.**	**60933.**
Stddev	438.	679.
%RSD	.94125	1.1146
#1	46992.	60218.
#2	46486.	61570.
#3	46120.	61012.

Approved: March 29, 2011

Sample Name: L1103068527 Acquired: 3/28/2011 18:59:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00838**	**107.78**	**.10287**	**.17209**	**2.2326**	**.01434**	**97.692**
Stddev	.00066	.50	.00200	.00167	.0075	.00013	.597
%RSD	7.9160	.46649	1.9425	.96944	.33406	.92589	.61069
#1	.00786	108.25	.10510	.17109	2.2255	.01449	97.244
#2	.00913	107.84	.10124	.17117	2.2320	.01422	97.462
#3	.00817	107.25	.10227	.17402	2.2404	.01432	98.369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01341**	**.21521**	**.23677**	**.19899**	**339.39**	**13.940**	**.08142**
Stddev	.00006	.00209	.00284	.00181	2.06	.091	.00059
%RSD	.43635	.97018	1.1986	.91166	.60691	.65402	.72332
#1	.01338	.21623	.23984	.20013	337.95	13.886	.08134
#2	.01338	.21281	.23423	.19690	338.48	13.888	.08087
#3	.01348	.21658	.23624	.19995	341.75	14.045	.08204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.466**	**20.704**	**.01158**	**.53763**	**.20172**	F **37010.**	**.68114**
Stddev	.116	.191	.00007	.00255	.00206	305.	.00628
%RSD	.80499	.92032	.59695	.47442	1.0222	.82487	.92267
#1	14.407	20.584	.01163	.53689	.20338	37213.	.68639
#2	14.390	20.604	.01150	.53553	.19941	36659.	.67418
#3	14.600	20.923	.01161	.54047	.20236	37157.	.68285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068527 Acquired: 3/28/2011 18:59:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **64.811**	F **175.41**	F **-15605.**	**.00212**	**.01420**	F **624.30**	**.01691**
Stddev	1.502	1.55	167.	.00296	.00101	7.21	.00008
%RSD	2.3168	.88434	1.0686	139.65	7.0858	1.1548	.44805
#1	65.250	175.74	-15734.	.00284	.01381	629.46	.01687
#2	66.045	173.72	-15417.	-.00113	.01534	616.06	.01700
#3	63.139	176.76	-15665.	.00465	.01344	627.37	.01687
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58793**	**.30572**	**.00662**	**.37274**	**1.5190**	F **157.50**
Stddev	.00269	.00120	.00169	.00433	.0087	1.39
%RSD	.45823	.39289	25.553	1.1606	.57517	.88006
#1	.58573	.30458	.00784	.37772	1.5210	158.76
#2	.58712	.30560	.00734	.37063	1.5095	157.74
#3	.59094	.30698	.00469	.36987	1.5266	156.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46970.**	**60344.**
Stddev	327.	511.
%RSD	.69572	.84630
#1	46644.	60469.
#2	47298.	60781.
#3	46967.	59783.

Approved: March 29, 2011

Sample Name: L1103068528 Acquired: 3/28/2011 19:03:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02027**	**79.267**	**.09667**	**.16023**	**2.2532**	**.00880**	**471.90**
Stddev	.00013	2.365	.00128	.00106	.0039	.00007	4.17
%RSD	.63761	2.9832	1.3262	.66174	.17177	.74677	.88417
#1	.02016	76.660	.09808	.15903	2.2503	.00884	472.58
#2	.02024	81.274	.09635	.16104	2.2576	.00883	475.69
#3	.02041	79.868	.09557	.16063	2.2517	.00872	467.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01490**	**.15268**	**.22519**	**.31501**	**201.10**	**18.768**	**.06520**
Stddev	.00011	.00144	.00233	.00463	.71	.048	.00131
%RSD	.75074	.94154	1.0360	1.4707	.35426	.25526	2.0059
#1	.01490	.15272	.22728	.31545	200.30	18.714	.06408
#2	.01502	.15411	.22563	.31941	201.66	18.787	.06664
#3	.01479	.15123	.22267	.31017	201.35	18.804	.06489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.146**	**10.106**	**.01683**	**1.2981**	**.16657**	F **100580.**	**.46883**
Stddev	.151	.085	.00032	.0110	.00182	799.	.00549
%RSD	.59867	.83631	1.8969	.84890	1.0943	.79463	1.1720
#1	24.982	10.012	.01647	1.2855	.16565	100510.	.46746
#2	25.277	10.176	.01708	1.3056	.16867	101420.	.47488
#3	25.180	10.131	.01694	1.3033	.16539	99823.	.46415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068528 Acquired: 3/28/2011 19:03:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.279**	F **927.17**	F **-88467.**	**.01434**	**.02706**	F **661.67**	**.02556**
Stddev	9.777	10.52	705.	.00104	.00278	13.26	.00048
%RSD	14.319	1.1345	.79637	7.2710	10.280	2.0041	1.8870
#1	65.192	927.83	-88330.	.01336	.02597	664.46	.02530
#2	60.418	937.35	-89230.	.01543	.03022	673.32	.02611
#3	79.226	916.34	-87842.	.01421	.02499	647.24	.02525
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.4336**	**.33214**	**.00456**	**.33938**	**2.9381**	F **143.51**
Stddev	.0148	.00158	.00133	.00336	.0259	.96
%RSD	.60724	.47559	29.258	.98983	.88116	.66720
#1	2.4173	.33117	.00610	.34082	2.9278	143.66
#2	2.4462	.33396	.00386	.34179	2.9676	144.38
#3	2.4373	.33128	.00372	.33554	2.9190	142.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44944.**	**60023.**
Stddev	396.	376.
%RSD	.88105	.62647
#1	44783.	60174.
#2	44655.	59595.
#3	45396.	60300.

Approved: March 29, 2011

Sample Name: L1103068529 Acquired: 3/28/2011 19:07:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01199**	**108.13**	**.11852**	**.19779**	**2.2580**	**.01574**	**372.17**
Stddev	.00059	.49	.00030	.00111	.0062	.00007	2.45
%RSD	4.8850	.44899	.25709	.56317	.27551	.43803	.65951
#1	.01132	107.71	.11820	.19656	2.2651	.01571	373.20
#2	.01223	108.01	.11881	.19873	2.2539	.01568	369.37
#3	.01241	108.66	.11856	.19808	2.2548	.01581	373.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01222**	**.36967**	**.29893**	**.23160**	**368.06**	**14.282**	**.07997**
Stddev	.00003	.00093	.00178	.00151	.88	.015	.00081
%RSD	.27067	.25092	.59569	.65280	.23927	.10767	1.0167
#1	.01225	.36927	.29995	.23179	367.05	14.294	.07994
#2	.01224	.36901	.29687	.23000	368.63	14.265	.08081
#3	.01219	.37073	.29997	.23301	368.51	14.287	.07918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.356**	**16.973**	**.01750**	**.88744**	**.21753**	F **71041.**	**.65291**
Stddev	.124	.062	.00022	.00535	.00163	83.	.00171
%RSD	.63924	.36355	1.2353	.60302	.74971	.11753	.26179
#1	19.213	16.931	.01726	.89184	.21933	71065.	.65390
#2	19.426	16.945	.01769	.88148	.21616	70948.	.65094
#3	19.429	17.044	.01755	.88900	.21709	71110.	.65389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068529 Acquired: 3/28/2011 19:07:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **58.257**	F **606.36**	F **-47587.**	**.00249**	**.02293**	F **655.79**	**.01556**
Stddev	8.358	1.39	42.	.00107	.00126	8.14	.00024
%RSD	14.347	.22984	.08814	43.126	5.5109	1.2405	1.5535
#1	67.282	605.87	-47555.	.00367	.02210	665.10	.01550
#2	56.702	605.27	-47572.	.00158	.02230	652.25	.01535
#3	50.785	607.93	-47635.	.00221	.02438	650.03	.01583
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6458**	**.28681**	**.00948**	**.49952**	**2.2325**	F **183.29**
Stddev	.0073	.00027	.00211	.00150	.0009	.67
%RSD	.44538	.09450	22.280	.29944	.03933	.36560
#1	1.6511	.28671	.00773	.49944	2.2334	183.85
#2	1.6374	.28660	.00889	.49806	2.2323	182.55
#3	1.6489	.28711	.01183	.50105	2.2317	183.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45025.**	**58557.**
Stddev	94.	167.
%RSD	.20969	.28516
#1	44924.	58745.
#2	45041.	58428.
#3	45111.	58497.

Approved: March 29, 2011

Sample Name: L1103068530 Acquired: 3/28/2011 19:10:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00341**	**120.16**	**.07923**	**.16826**	**1.5394**	**.01682**	F **1666.8**
Stddev	.00015	3.67	.00042	.00268	.0145	.00010	14.9
%RSD	4.2978	3.0576	.53427	1.5935	.94085	.59451	.89634
#1	.00343	115.92	.07921	.16856	1.5369	.01677	1680.6
#2	.00325	122.47	.07967	.16544	1.5262	.01694	1650.9
#3	.00354	122.08	.07883	.17078	1.5549	.01676	1668.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00804**	**.34871**	**.32721**	**.20511**	**347.80**	**6.0807**	**.16728**
Stddev	.00011	.00110	.00203	.00137	3.77	.0716	.00128
%RSD	1.3992	.31474	.62163	.66778	1.0845	1.1770	.76416
#1	.00804	.34901	.32641	.20572	347.18	6.0788	.16694
#2	.00816	.34962	.32953	.20606	344.37	6.0101	.16620
#3	.00793	.34749	.32571	.20354	351.84	6.1532	.16869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**44.852**	**11.770**	**.01309**	**.92676**	**.22511**	F **25878.**	**.52017**
Stddev	.532	.147	.00012	.00948	.00057	275.	.00174
%RSD	1.1853	1.2456	.93652	1.0227	.25336	1.0640	.33498
#1	44.775	11.786	.01299	.93156	.22535	25764.	.51900
#2	44.362	11.615	.01305	.91585	.22553	26192.	.52217
#3	45.417	11.907	.01323	.93288	.22446	25678.	.51934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068530 Acquired: 3/28/2011 19:10:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **54.991**	F **1822.6**	F **-37550.**	**.01482**	**.01482**	F **659.81**	**.01096**
Stddev	4.906	7.1	137.	.00186	.00363	7.27	.00036
%RSD	8.9219	.38793	.36425	12.549	24.479	1.1014	3.3211
#1	60.650	1825.8	-37603.	.01449	.01785	657.35	.01057
#2	51.928	1827.6	-37652.	.01682	.01080	667.99	.01101
#3	52.395	1814.6	-37394.	.01315	.01580	654.10	.01130
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **7.9654**	**.17525**	**.00650**	**.41915**	**1.1063**	F **135.60**
Stddev	.0187	.00263	.00039	.00305	.0030	.60
%RSD	.23440	1.4989	6.0148	.72802	.27061	.44307
#1	7.9726	.17443	.00678	.42091	1.1080	135.49
#2	7.9443	.17313	.00668	.42092	1.1080	136.25
#3	7.9795	.17819	.00606	.41563	1.1028	135.06
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	4.5000					45.000
Low Limit	-.01000					-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**42654.**	**58960.**
Stddev	109.	668.
%RSD	.25540	1.1324
#1	42620.	58586.
#2	42567.	59730.
#3	42776.	58562.

Approved: March 29, 2011

Sample Name: L1103068531 Acquired: 3/28/2011 19:14:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00648**	**86.097**	**.10797**	**.14543**	**1.9515**	**.01014**	**666.29**
Stddev	.00096	1.102	.00269	.00084	.0047	.00017	8.27
%RSD	14.801	1.2804	2.4928	.57447	.24029	1.6740	1.2407
#1	.00630	85.067	.10494	.14447	1.9545	.00996	657.12
#2	.00751	85.963	.10891	.14598	1.9461	.01015	668.60
#3	.00562	87.260	.11007	.14585	1.9540	.01030	673.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01277**	**.15934**	**.22203**	**.21178**	**228.84**	**16.018**	**.06629**
Stddev	.00024	.00320	.00613	.00515	.72	.073	.00023
%RSD	1.8792	2.0068	2.7612	2.4325	.31409	.45560	.34028
#1	.01250	.15587	.21556	.20608	229.41	16.031	.06631
#2	.01285	.15997	.22279	.21318	228.03	15.940	.06650
#3	.01296	.16217	.22775	.21609	229.07	16.084	.06605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.162**	**9.5046**	**.01773**	**1.1866**	**.16644**	F **86227.**	**.42154**
Stddev	.092	.0734	.00059	.0051	.00409	1892.	.01001
%RSD	.36689	.77222	3.3472	.42646	2.4582	2.1939	2.3756
#1	25.191	9.5635	.01704	1.1879	.16185	84197.	.41005
#2	25.058	9.4224	.01804	1.1909	.16780	86542.	.42621
#3	25.236	9.5280	.01810	1.1810	.16968	87941.	.42837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068531 Acquired: 3/28/2011 19:14:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **64.337**	F **944.29**	F **-59569.**	**.00483**	**.02419**	F **619.87**	**.01662**
Stddev	7.481	18.33	1293.	.00079	.00148	17.78	.00055
%RSD	11.629	1.9408	2.1704	16.273	6.1283	2.8682	3.2997
#1	64.213	925.26	-58148.	.00475	.02274	599.96	.01631
#2	56.918	945.78	-59884.	.00565	.02414	625.49	.01630
#3	71.879	961.82	-60676.	.00409	.02570	634.16	.01726
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.2004**	**.31203**	**.00828**	**.41393**	**1.7428**	F **161.19**
Stddev	.0258	.00115	.00175	.00613	.0320	2.77
%RSD	.80584	.36910	21.169	1.4818	1.8386	1.7177
#1	3.2301	.31136	.00835	.40726	1.7083	158.09
#2	3.1837	.31137	.00649	.41520	1.7483	162.05
#3	3.1875	.31336	.00999	.41933	1.7717	163.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45646.**	**59058.**
Stddev	671.	560.
%RSD	1.4701	.94825
#1	46372.	58444.
#2	45516.	59541.
#3	45048.	59189.

Approved: March 29, 2011

Sample Name: L1103068532 Acquired: 3/28/2011 19:18:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01942**	**94.044**	**.11345**	**.13735**	**1.7229**	**.01027**	**659.69**
Stddev	.00088	1.109	.00105	.00059	.0166	.00001	3.50
%RSD	4.5456	1.1790	.92576	.43153	.96254	.12724	.53115
#1	.02033	94.851	.11433	.13677	1.7409	.01026	661.34
#2	.01857	92.780	.11229	.13796	1.7198	.01026	655.66
#3	.01936	94.502	.11372	.13732	1.7081	.01028	662.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01211**	**.13011**	**.23075**	**176.87**	**225.59**	**17.075**	**.07154**
Stddev	.00012	.00140	.00163	1.34	1.26	.168	.00091
%RSD	.95086	1.0747	.70784	.75535	.55701	.98330	1.2753
#1	.01221	.13069	.23042	176.72	226.90	17.239	.07242
#2	.01199	.12852	.22931	175.61	224.40	17.083	.07160
#3	.01213	.13113	.23253	178.27	225.45	16.903	.07060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.867**	**7.8935**	**.01512**	**1.1041**	**.15600**	F **93133.**	**.39529**
Stddev	.139	.0480	.00039	.0165	.00291	837.	.00575
%RSD	.51835	.60845	2.5820	1.4943	1.8631	.89882	1.4550
#1	26.880	7.9490	.01544	1.1181	.15832	93523.	.39952
#2	26.721	7.8642	.01468	1.1084	.15274	92172.	.38874
#3	26.999	7.8675	.01522	1.0859	.15694	93704.	.39761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068532 Acquired: 3/28/2011 19:18:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.505**	F **948.28**	F **-58610.**	**.00711**	**.02458**	F **652.57**	**.07569**
Stddev	9.133	8.78	516.	.00031	.00403	10.74	.00049
%RSD	14.850	.92538	.88092	4.3847	16.387	1.6463	.64793
#1	55.175	951.56	-58855.	.00716	.02855	652.56	.07609
#2	71.975	938.33	-58017.	.00678	.02050	641.84	.07514
#3	57.365	954.94	-58958.	.00739	.02469	663.32	.07583
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.9061**	**.30462**	**.01020**	**.40585**	**8.1887**	F **169.97**
Stddev	.0468	.00332	.00088	.00166	.0856	1.42
%RSD	1.6110	1.0896	8.6634	.40834	1.0449	.83296
#1	2.9003	.30772	.01122	.40716	8.2464	170.94
#2	2.8624	.30502	.00965	.40399	8.0904	168.35
#3	2.9555	.30112	.00974	.40640	8.2294	170.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44643.**	**59997.**
Stddev	280.	320.
%RSD	.62607	.53306
#1	44460.	59788.
#2	44965.	60365.
#3	44505.	59838.

Approved: March 29, 2011

Sample Name: L1103068533 Acquired: 3/28/2011 19:22:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00614**	**142.09**	**.12550**	**.17460**	**1.9993**	**.01625**	**68.078**
Stddev	.00043	1.26	.00289	.00156	.0078	.00018	.329
%RSD	6.9215	.88994	2.3060	.89115	.38851	1.0831	.48282
#1	.00567	140.64	.12361	.17570	2.0064	.01613	68.321
#2	.00651	142.62	.12405	.17528	2.0004	.01616	68.209
#3	.00625	143.00	.12883	.17282	1.9910	.01645	67.704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00716**	**.20380**	**.37645**	**.13138**	**357.48**	**11.401**	**.06398**
Stddev	.00007	.00213	.00343	.00359	1.21	.065	.00033
%RSD	.96568	1.0435	.91183	2.7352	.33988	.56769	.51134
#1	.00724	.20140	.37394	.12798	358.55	11.421	.06397
#2	.00713	.20457	.37504	.13103	357.73	11.454	.06366
#3	.00711	.20544	.38036	.13514	356.16	11.329	.06432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.523**	**9.7281**	**.01657**	**1.2621**	**.12806**	F **25026.**	**.43660**
Stddev	.019	.0510	.00027	.0074	.00132	300.	.00435
%RSD	.12187	.52454	1.6226	.58908	1.0280	1.1975	.99682
#1	15.504	9.7600	.01629	1.2635	.12721	24925.	.43199
#2	15.542	9.7550	.01660	1.2688	.12738	24791.	.43716
#3	15.523	9.6692	.01682	1.2541	.12957	25364.	.44064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068533 Acquired: 3/28/2011 19:22:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **65.011**	F **189.53**	F **-22732.**	**.00204**	**.01677**	F **583.80**	**.01316**
Stddev	2.269	2.16	182.	.00063	.00124	5.49	.00034
%RSD	3.4895	1.1380	.79922	30.738	7.4248	.94029	2.6101
#1	63.422	187.12	-22523.	.00198	.01804	577.50	.01282
#2	67.609	190.22	-22820.	.00144	.01671	586.36	.01316
#3	64.003	191.26	-22852.	.00269	.01555	587.55	.01351
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47383**	**.25483**	**.01502**	**.63434**	**.63039**	F **259.14**
Stddev	.00204	.00214	.00242	.00680	.00354	1.72
%RSD	.42995	.84118	16.077	1.0717	.56226	.66358
#1	.47509	.25529	.01617	.63053	.62693	257.51
#2	.47492	.25671	.01665	.63029	.63023	258.99
#3	.47148	.25250	.01225	.64219	.63401	260.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47487.**	**61042.**
Stddev	252.	416.
%RSD	.53066	.68076
#1	47777.	60664.
#2	47369.	60974.
#3	47316.	61487.

Approved: March 29, 2011

Sample Name: L1103068534 Acquired: 3/28/2011 19:26:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00517**	**90.387**	**.10637**	**.14126**	**1.6644**	**.01216**	**84.903**
Stddev	.00028	.568	.00247	.00131	.0141	.00007	.667
%RSD	5.3361	.62830	2.3232	.92451	.84967	.54756	.78601
#1	.00543	90.610	.10468	.14260	1.6767	.01210	85.575
#2	.00520	90.809	.10921	.14121	1.6490	.01223	84.240
#3	.00488	89.741	.10523	.13999	1.6675	.01214	84.893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00806**	**.12556**	**.26143**	**.13806**	**270.33**	**17.184**	**.04191**
Stddev	.00013	.00144	.00159	.00141	2.24	.121	.00107
%RSD	1.5751	1.1488	.60761	1.0210	.83029	.70350	2.5480
#1	.00794	.12445	.25978	.13760	272.91	17.322	.04157
#2	.00805	.12719	.26295	.13965	269.21	17.096	.04106
#3	.00819	.12504	.26157	.13695	268.86	17.134	.04311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.417**	**7.5382**	**.01505**	**.61570**	**.10713**	F **38374.**	**.39977**
Stddev	.189	.0695	.00034	.00483	.00205	353.	.00489
%RSD	1.3076	.92165	2.2807	.78389	1.9124	.92114	1.2234
#1	14.590	7.6182	.01497	.61823	.10543	38113.	.39656
#2	14.443	7.4938	.01542	.61014	.10941	38777.	.40540
#3	14.216	7.5024	.01475	.61874	.10657	38233.	.39735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068534 Acquired: 3/28/2011 19:26:04 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **54.857**	F **269.63**	F **-34468.**	**.00270**	**.01401**	F **589.38**	**.01122**
Stddev	6.710	2.75	293.	.00222	.00107	9.08	.00035
%RSD	12.232	1.0216	.85087	82.209	7.6281	1.5398	3.1053
#1	61.214	268.24	-34227.	.00084	.01309	587.81	.01106
#2	47.842	272.81	-34794.	.00515	.01518	599.13	.01162
#3	55.515	267.85	-34382.	.00210	.01376	581.18	.01099
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46636**	**.30098**	**.01140**	**.51696**	**.88140**	F **174.81**
Stddev	.00367	.00144	.00086	.00312	.00683	.86
%RSD	.78609	.47802	7.5767	.60289	.77460	.49346
#1	.46993	.30255	.01239	.51472	.87549	174.03
#2	.46261	.29973	.01080	.52052	.88887	175.74
#3	.46654	.30067	.01102	.51564	.87983	174.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47513.**	**60216.**
Stddev	309.	979.
%RSD	.65083	1.6255
#1	47680.	59277.
#2	47156.	60140.
#3	47703.	61231.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 19:29:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40558**	**10.020**	**.39879**	**.50032**	**1.0209**	**.05026**	**10.057**
Stddev	.00371	.058	.00475	.00406	.0065	.00035	.084
%RSD	.91541	.58279	1.1912	.81061	.64068	.69290	.83897
#1	.40484	10.004	.40427	.49988	1.0140	.05031	9.9836
#2	.40961	10.085	.39580	.50458	1.0216	.05059	10.037
#3	.40230	9.9714	.39630	.49650	1.0270	.04990	10.149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05026**	**.20322**	**.50868**	**.50914**	**3.9437**	**49.734**	**1.0072**
Stddev	.00060	.00280	.00317	.00693	.0369	.412	.0040
%RSD	1.1938	1.3767	.62274	1.3616	.93588	.82868	.39423
#1	.05094	.20641	.50966	.51683	3.9042	49.363	1.0037
#2	.05004	.20207	.51123	.50724	3.9495	49.660	1.0064
#3	.04980	.20118	.50513	.50336	3.9774	50.178	1.0115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7769**	**.48621**	**.99577**	**50.342**	**.50535**	F **-1.8627**	**.50775**
Stddev	.1096	.00476	.01176	.375	.00701	6.0110	.00605
%RSD	1.1209	.97952	1.1810	.74529	1.3878	322.70	1.1914
#1	9.6563	.48142	1.0080	50.001	.51307	4.8760	.51312
#2	9.8039	.48625	.99482	50.281	.50363	-3.7919	.50894
#3	9.8704	.49095	.98452	50.744	.49936	-6.6723	.50120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 19:29:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **18.858**	**10.396**	F **7.7340**	**1.2089**	**.39984**	**5.4308**	**1.0027**
Stddev	8.930	.179	6.6085	.0195	.00577	.4919	.0144
%RSD	47.351	1.7246	85.448	1.6119	1.4428	9.0571	1.4379
#1	28.172	10.602	.90201	1.2303	.40528	5.8840	1.0178
#2	18.032	10.314	14.094	1.2040	.40045	5.5007	1.0011
#3	10.371	10.272	8.2061	1.1923	.39379	4.9077	.98913
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0046**	**.99128**	**.51461**	**1.0174**	**1.0066**	F **1.1536**
Stddev	.0060	.00532	.00721	.0075	.0142	.1851
%RSD	.59743	.53673	1.4015	.74150	1.4151	16.043
#1	.99896	.98835	.52142	1.0184	1.0219	1.1975
#2	1.0038	.98807	.51536	1.0244	1.0039	1.3128
#3	1.0109	.99742	.50706	1.0094	.99384	.95054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49618.**	**58423.**
Stddev	394.	790.
%RSD	.79321	1.3519
#1	49175.	59217.
#2	49754.	58415.
#3	49926.	57637.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 19:33:12 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00478**	**.00025**	**.00120**	**-.00014**	**.00001**	**.00109**
Stddev	.00004	.00192	.00048	.00026	.00007	.00001	.00120
%RSD	25.791	40.207	197.32	21.682	49.499	90.134	110.53
#1	.00012	.00342	.00040	.00110	-.00018	.00000	.00207
#2	.00020	.00395	-.00030	.00150	-.00006	.00001	.00145
#3	.00015	.00698	.00063	.00101	-.00018	.00001	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00007**	**-.00020**	**-.00054**	**.00540**	**.07865**	**-.00265**
Stddev	.00004	.00010	.00015	.00017	.00281	.00666	.00105
%RSD	40.345	155.31	73.853	31.177	52.036	8.4699	39.639
#1	-.00005	-.00003	-.00032	-.00073	.00261	.07693	-.00384
#2	-.00012	.00018	-.00025	-.00047	.00823	.08600	-.00226
#3	-.00012	.00005	-.00003	-.00041	.00535	.07301	-.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.00025**	**.00026**	**.00713**	**-.00012**	F **13.864**	**-.00061**
Stddev	.00590	.00011	.00009	.00445	.00017	4.899	.00090
%RSD	1284.4	43.998	33.455	62.376	144.92	35.339	147.47
#1	-.00498	-.00013	.00024	.01225	-.00022	11.526	.00007
#2	-.00262	-.00034	.00019	.00413	-.00021	10.572	-.00027
#3	.00622	-.00029	.00036	.00503	.00008	19.494	-.00164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						1.0000	
Low Limit						-1.1000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 19:33:12 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **15.919**	**.05387**	F **-17.227**	**-.00093**	**-.00011**	**-.02867**	**.00004**
Stddev	9.236	.01220	7.922	.00012	.00143	.05339	.00005
%RSD	58.018	22.645	45.985	13.303	1351.8	186.22	147.64
#1	23.313	.04444	-12.366	-.00100	-.00176	-.06137	-.00003
#2	5.5661	.04953	-26.369	-.00099	.00064	.03294	.00008
#3	18.879	.06765	-12.947	-.00078	.00080	-.05759	.00006
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00053**	**-.00003**	**-.00007**	**-.00272**	F **.13222**
Stddev	.00001	.00103	.00154	.00014	.00057	.14534
%RSD	112.82	195.55	6104.6	191.21	20.900	109.93
#1	.00000	.00020	-.00077	-.00009	-.00225	.28491
#2	-.00001	.00168	-.00106	.00008	-.00335	.11619
#3	-.00002	-.00030	.00175	-.00020	-.00255	-.00445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50570.**	**57567.**
Stddev	411.	477.
%RSD	.81283	.82903
#1	50856.	57913.
#2	50754.	57022.
#3	50099.	57765.

Approved: March 29, 2011

Sample Name: L1103068535 Acquired: 3/28/2011 19:37:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00378**	**146.85**	**.11020**	**.17774**	**1.6252**	**.01641**	**31.420**
Stddev	.00033	1.11	.00201	.00226	.0121	.00003	.222
%RSD	8.7779	.75859	1.8254	1.2741	.74593	.18992	.70706
#1	.00340	145.99	.10810	.18033	1.6379	.01643	31.656
#2	.00390	146.46	.11211	.17612	1.6241	.01643	31.391
#3	.00403	148.11	.11038	.17677	1.6137	.01638	31.214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00480**	**.19056**	**.34848**	**.10167**	**370.68**	**7.3933**	**.07693**
Stddev	.00009	.00216	.00325	.00150	3.27	.0545	.00024
%RSD	1.8797	1.1316	.93211	1.4706	.88250	.73694	.31102
#1	.00470	.18824	.34494	.10026	374.37	7.4147	.07673
#2	.00488	.19094	.34920	.10152	369.57	7.4339	.07719
#3	.00482	.19250	.35131	.10323	368.11	7.3314	.07687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.163**	**7.1357**	**.01666**	**1.2112**	**.12992**	F **15145.**	**.35153**
Stddev	.084	.0670	.00031	.0081	.00100	211.	.00391
%RSD	.58985	.93964	1.8721	.66981	.77086	1.3958	1.1135
#1	14.259	7.2106	.01678	1.2184	.12927	14939.	.34848
#2	14.130	7.1149	.01631	1.2127	.12941	15134.	.35017
#3	14.102	7.0815	.01690	1.2024	.13107	15361.	.35595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068535 Acquired: 3/28/2011 19:37:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **50.778**	F **136.36**	F **-19791.**	**.00040**	**.00962**	F **588.78**	**.01199**
Stddev	3.490	1.58	255.	.00058	.00080	11.30	.00015
%RSD	6.8723	1.1623	1.2867	144.31	8.3185	1.9192	1.2645
#1	52.159	134.69	-19538.	-.00025	.01023	576.63	.01181
#2	53.365	136.54	-19788.	.00059	.00992	590.72	.01207
#3	46.809	137.85	-20047.	.00086	.00871	598.98	.01208
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22433**	**.27474**	**.01483**	**.59920**	**1.2524**	F **256.30**
Stddev	.00148	.00194	.00151	.00458	.0077	2.67
%RSD	.65987	.70540	10.151	.76391	.61169	1.0410
#1	.22577	.27583	.01411	.59436	1.2456	253.70
#2	.22440	.27588	.01382	.59978	1.2508	256.17
#3	.22281	.27250	.01656	.60346	1.2607	259.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48594.**	**58493.**
Stddev	213.	967.
%RSD	.43837	1.6529
#1	48825.	57393.
#2	48551.	58880.
#3	48406.	59207.

Approved: March 29, 2011

Sample Name: L1103068536S Acquired: 3/28/2011 19:40:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20218**	**150.12**	**.30600**	**.18341**	**1.7557**	**.01684**	**38.401**
Stddev	.00249	2.53	.00843	.00218	.0016	.00034	.042
%RSD	1.2318	1.6827	2.7542	1.1870	.09058	2.0271	.10814
#1	.19940	147.30	.29627	.18372	1.7574	.01645	38.411
#2	.20420	150.90	.31114	.18110	1.7553	.01711	38.436
#3	.20294	152.17	.31059	.18542	1.7543	.01694	38.355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02997**	**.19005**	**.34076**	**.34981**	**381.37**	**8.2561**	**.07495**
Stddev	.00070	.00437	.00746	.00967	2.76	.0231	.00025
%RSD	2.3309	2.3006	2.1887	2.7634	.72365	.28018	.33672
#1	.02916	.18500	.33216	.33867	382.51	8.2444	.07477
#2	.03037	.19242	.34551	.35487	378.23	8.2828	.07484
#3	.03037	.19273	.34461	.35590	383.38	8.2412	.07524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.055**	**8.8582**	**.01827**	**1.2609**	**.13146**	F **16802.**	**.66521**
Stddev	.047	.0249	.00024	.0057	.00284	312.	.01246
%RSD	.33366	.28050	1.3048	.45213	2.1573	1.8539	1.8726
#1	14.081	8.8794	.01803	1.2654	.12839	16450.	.65107
#2	14.084	8.8644	.01850	1.2545	.13201	16914.	.67000
#3	14.001	8.8308	.01829	1.2628	.13398	17042.	.67456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068536S Acquired: 3/28/2011 19:40:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **63.753**	F **144.80**	F **-20037.**	**.00070**	**.01417**	F **646.56**	**.01233**
Stddev	5.016	3.69	404.	.00063	.00164	14.57	.00024
%RSD	7.8675	2.5455	2.0138	90.363	11.608	2.2536	1.9665
#1	66.886	140.55	-19583.	-.00003	.01446	629.75	.01205
#2	66.406	146.79	-20176.	.00102	.01564	654.34	.01243
#3	57.968	147.07	-20353.	.00111	.01240	655.60	.01250
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25892**	**.31189**	**.01747**	**.65887**	**1.2869**	F **252.58**
Stddev	.00023	.00088	.00125	.01024	.0242	3.87
%RSD	.08908	.28142	7.1300	1.5547	1.8809	1.5318
#1	.25901	.31147	.01635	.64746	1.2591	248.12
#2	.25866	.31130	.01726	.66727	1.2976	255.00
#3	.25909	.31290	.01882	.66188	1.3038	254.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48232.**	**61515.**
Stddev	682.	480.
%RSD	1.4139	.77950
#1	49013.	61067.
#2	47752.	61458.
#3	47932.	62021.

Approved: March 29, 2011

Sample Name: L1103068537SD Acquired: 3/28/2011 19:44:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19751**	**155.82**	**.30132**	**.18858**	**1.6147**	**.01766**	**28.892**
Stddev	.00287	2.09	.00530	.00147	.0038	.00036	.077
%RSD	1.4509	1.3434	1.7588	.78006	.23786	2.0294	.26494
#1	.19898	155.38	.29941	.18798	1.6179	.01765	28.980
#2	.19935	158.10	.30731	.18751	1.6158	.01802	28.856
#3	.19421	153.99	.29724	.19026	1.6104	.01730	28.841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02858**	**.19515**	**.37904**	**.32133**	**397.95**	**6.2001**	**.07290**
Stddev	.00037	.00328	.00673	.00409	1.89	.0071	.00043
%RSD	1.2899	1.6819	1.7749	1.2735	.47480	.11379	.59011
#1	.02872	.19479	.37922	.32091	398.08	6.2060	.07338
#2	.02886	.19859	.38567	.32562	395.99	6.2020	.07255
#3	.02816	.19205	.37222	.31747	399.76	6.1923	.07276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.371**	**7.2979**	**.01813**	**1.2631**	**.12467**	F **13200.**	**.62140**
Stddev	.068	.0241	.00028	.0051	.00216	295.	.01052
%RSD	.51228	.32995	1.5423	.40370	1.7362	2.2382	1.6927
#1	13.401	7.3257	.01834	1.2618	.12380	13185.	.61764
#2	13.292	7.2859	.01825	1.2587	.12713	13502.	.63329
#3	13.419	7.2823	.01781	1.2687	.12307	12912.	.61329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068537SD Acquired: 3/28/2011 19:44:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359838-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **67.988**	F **141.46**	F **-20820.**	**.00212**	**.01160**	F **656.94**	**.01225**
Stddev	4.451	2.22	460.	.00062	.00146	11.40	.00004
%RSD	6.5474	1.5721	2.2088	29.199	12.567	1.7358	.35868
#1	63.418	141.47	-20744.	.00145	.01281	657.10	.01221
#2	72.311	143.68	-21313.	.00222	.00998	668.26	.01230
#3	68.236	139.23	-20402.	.00268	.01201	645.45	.01225
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21059**	**.30498**	**.01698**	**.68931**	**.57849**	F **259.89**
Stddev	.00066	.00107	.00108	.01335	.00616	6.28
%RSD	.31161	.35176	6.3329	1.9370	1.0651	2.4146
#1	.21135	.30609	.01617	.69196	.57724	261.48
#2	.21028	.30492	.01820	.70114	.58519	265.21
#3	.21015	.30394	.01657	.67483	.57306	252.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48455.**	**60856.**
Stddev	552.	506.
%RSD	1.1389	.83084
#1	48405.	60272.
#2	47929.	61131.
#3	49030.	61164.

Approved: March 29, 2011

Sample Name: L1103068538 Acquired: 3/28/2011 19:47:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**116.10**	**.10120**	**.14349**	**1.8406**	**.01348**	**38.595**
Stddev	.00057	.62	.00100	.00140	.0078	.00010	.155
%RSD	10.992	.53150	.98804	.97753	.42644	.76739	.40081
#1	.00509	116.38	.10033	.14324	1.8332	.01337	38.501
#2	.00582	115.39	.10099	.14500	1.8488	.01350	38.774
#3	.00469	116.52	.10229	.14222	1.8399	.01357	38.511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00702**	**.13930**	**.28080**	**.12372**	**287.97**	**13.529**	**.05894**
Stddev	.00002	.00072	.00532	.00103	1.11	.044	.00007
%RSD	.30420	.51827	1.8941	.83403	.38441	.32512	.12386
#1	.00701	.13861	.27469	.12253	286.89	13.498	.05895
#2	.00704	.13922	.28330	.12427	289.10	13.580	.05886
#3	.00700	.14005	.28440	.12436	287.91	13.509	.05901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.589**	**8.1466**	**.01377**	**.92004**	**.11573**	F **23158.**	**.40387**
Stddev	.027	.0363	.00016	.00209	.00085	342.	.00108
%RSD	.19722	.44573	1.1594	.22667	.73488	1.4780	.26670
#1	13.569	8.1333	.01361	.91822	.11476	22763.	.40345
#2	13.619	8.1877	.01377	.91958	.11610	23359.	.40306
#3	13.578	8.1188	.01393	.92232	.11633	23353.	.40509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068538 Acquired: 3/28/2011 19:47:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **62.627**	F **204.70**	F **-30523.**	**.00252**	**.01085**	F **607.02**	**.01164**
Stddev	2.639	1.19	141.	.00085	.00151	2.98	.00021
%RSD	4.2134	.58003	.46330	33.696	13.944	.49137	1.7652
#1	64.129	203.44	-30360.	.00154	.01252	603.65	.01152
#2	59.580	204.87	-30617.	.00301	.01049	609.32	.01152
#3	64.172	205.80	-30591.	.00301	.00956	608.09	.01187
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26409**	**.30394**	**.01078**	**.51092**	**.72821**	F **210.27**
Stddev	.00064	.00159	.00105	.00617	.00193	3.28
%RSD	.24294	.52268	9.7737	1.2078	.26525	1.5600
#1	.26344	.30223	.01159	.50423	.72662	206.63
#2	.26472	.30420	.00959	.51214	.72767	211.22
#3	.26410	.30538	.01116	.51639	.73036	212.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48297.**	**61135.**
Stddev	86.	405.
%RSD	.17856	.66227
#1	48395.	60817.
#2	48235.	60996.
#3	48260.	61591.

Approved: March 29, 2011

Sample Name: L1103068539 Acquired: 3/28/2011 19:51:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00690**	**155.98**	**.13878**	**.21547**	**2.1080**	**.02064**	**27.722**
Stddev	.00044	.41	.00163	.00217	.0035	.00017	.055
%RSD	6.4105	.25978	1.1760	1.0074	.16651	.83514	.20011
#1	.00741	156.22	.14066	.21556	2.1045	.02075	27.658
#2	.00660	155.51	.13800	.21759	2.1079	.02072	27.756
#3	.00670	156.20	.13769	.21325	2.1115	.02044	27.752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00581**	**.45695**	**.42754**	**.12087**	**462.58**	**5.8378**	**.07182**
Stddev	.00016	.00501	.00533	.00193	3.89	.0217	.00131
%RSD	2.7918	1.0959	1.2456	1.5927	.83989	.37250	1.8210
#1	.00596	.46199	.43152	.12295	460.72	5.8611	.07298
#2	.00583	.45687	.42961	.12051	467.05	5.8341	.07040
#3	.00564	.45198	.42149	.11915	459.98	5.8181	.07209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.099**	**19.186**	**.01928**	**1.5354**	**.15731**	F **14811.**	**.56846**
Stddev	.046	.085	.00043	.0028	.00173	165.	.00491
%RSD	.32514	.44387	2.2145	.18488	1.0970	1.1157	.86290
#1	14.060	19.104	.01967	1.5337	.15929	14951.	.57084
#2	14.149	19.274	.01936	1.5387	.15615	14852.	.57173
#3	14.088	19.180	.01882	1.5339	.15648	14629.	.56282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068539 Acquired: 3/28/2011 19:51:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.334**	F **131.03**	F **-18785.**	**.00044**	**.01794**	F **535.91**	**.01176**
Stddev	6.356	1.64	195.	.00128	.00098	5.67	.00025
%RSD	9.3016	1.2480	1.0392	290.64	5.4699	1.0574	2.0936
#1	71.236	132.82	-18908.	.00175	.01826	539.64	.01178
#2	61.045	130.65	-18887.	.00037	.01684	538.70	.01150
#3	72.721	129.62	-18560.	-.00080	.01872	529.39	.01199
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21214**	**.23628**	**.01559**	**.70296**	**.59751**	F **244.91**
Stddev	.00037	.00021	.00103	.00503	.00446	2.28
%RSD	.17463	.08693	6.5873	.71597	.74643	.93103
#1	.21172	.23645	.01557	.70694	.60227	246.32
#2	.21231	.23605	.01458	.70464	.59685	246.14
#3	.21240	.23634	.01663	.69730	.59342	242.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48393.**	**62058.**
Stddev	395.	325.
%RSD	.81591	.52289
#1	48023.	61892.
#2	48345.	61851.
#3	48809.	62432.

Approved: March 29, 2011

Sample Name: L1103068540 Acquired: 3/28/2011 19:55:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00595**	**118.97**	**.11397**	**.15478**	**1.9242**	**.01515**	**31.557**
Stddev	.00046	1.32	.00182	.00090	.0023	.00003	.088
%RSD	7.8133	1.1121	1.5948	.58373	.11847	.20196	.27929
#1	.00544	118.74	.11547	.15580	1.9249	.01513	31.577
#2	.00606	120.40	.11448	.15410	1.9216	.01518	31.633
#3	.00635	117.78	.11195	.15444	1.9260	.01513	31.460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00649**	**.21889**	**.28862**	**.11034**	**326.19**	**8.8508**	**.05169**
Stddev	.00004	.00216	.00094	.00161	.22	.0046	.00071
%RSD	.66941	.98525	.32480	1.4559	.06716	.05240	1.3815
#1	.00645	.21971	.28965	.11057	325.94	8.8561	.05088
#2	.00649	.22052	.28782	.11182	326.27	8.8484	.05195
#3	.00654	.21644	.28840	.10863	326.35	8.8478	.05224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.445**	**10.673**	**.01487**	**.92534**	**.11533**	F **16674.**	**.45691**
Stddev	.016	.015	.00027	.00618	.00052	169.	.00537
%RSD	.11977	.14312	1.8045	.66809	.45338	1.0152	1.1746
#1	13.428	10.664	.01494	.92386	.11554	16619.	.45673
#2	13.447	10.691	.01510	.93213	.11571	16864.	.46236
#3	13.460	10.664	.01457	.92004	.11473	16539.	.45163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068540 Acquired: 3/28/2011 19:55:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **63.907**	F **155.32**	F **-22644.**	**.00215**	**.01667**	F **622.76**	**.01116**
Stddev	5.430	1.90	215.	.00028	.00225	1.88	.00021
%RSD	8.4959	1.2255	.95066	12.941	13.512	.30184	1.9234
#1	59.249	156.37	-22559.	.00245	.01477	624.18	.01139
#2	62.602	156.46	-22888.	.00190	.01916	623.47	.01112
#3	69.870	153.12	-22484.	.00209	.01609	620.62	.01096
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22798**	**.29280**	**.01293**	**.59373**	**.55714**	F **227.47**
Stddev	.00044	.00066	.00127	.00238	.00570	.86
%RSD	.19414	.22521	9.8522	.40122	1.0227	.38022
#1	.22785	.29349	.01410	.59495	.55835	228.43
#2	.22847	.29218	.01311	.59525	.56214	227.20
#3	.22761	.29274	.01157	.59098	.55094	226.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48408.**	**62060.**
Stddev	387.	507.
%RSD	.80019	.81758
#1	48360.	61565.
#2	48047.	62037.
#3	48818.	62579.

Approved: March 29, 2011

Sample Name: L1103068541 Acquired: 3/28/2011 19:58:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00635**	**159.61**	**.14046**	**.22258**	**1.8676**	**.02094**	**26.871**
Stddev	.00040	2.80	.00354	.00290	.0036	.00035	.091
%RSD	6.2816	1.7561	2.5213	1.3009	.19514	1.6743	.33716
#1	.00624	159.37	.14199	.22591	1.8662	.02087	26.891
#2	.00602	156.93	.13641	.22065	1.8649	.02063	26.772
#3	.00679	162.52	.14298	.22118	1.8718	.02132	26.950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00579**	**.29359**	**.39569**	**.13025**	**478.37**	**5.8315**	**.08102**
Stddev	.00010	.00493	.00710	.00324	5.51	.0248	.00145
%RSD	1.7626	1.6786	1.7950	2.4842	1.1527	.42569	1.7898
#1	.00585	.29346	.39381	.13121	483.23	5.8454	.08053
#2	.00567	.28874	.38972	.12664	472.38	5.8028	.07988
#3	.00584	.29859	.40355	.13289	479.51	5.8462	.08265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.160**	**12.567**	**.01721**	**1.4061**	**.17831**	F **15626.**	**.49528**
Stddev	.131	.092	.00064	.0052	.00406	359.	.01035
%RSD	.86701	.73488	3.7219	.37044	2.2749	2.2958	2.0896
#1	15.278	12.585	.01705	1.4063	.17739	15560.	.49271
#2	15.019	12.467	.01667	1.4007	.17479	15305.	.48646
#3	15.183	12.649	.01792	1.4111	.18275	16013.	.50667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068541 Acquired: 3/28/2011 19:58:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **65.872**	F **136.46**	F **-20334.**	**-.00124**	**.01424**	F **603.06**	**.01241**
Stddev	7.024	2.53	401.	.00384	.00197	17.79	.00025
%RSD	10.663	1.8529	1.9741	309.10	13.820	2.9504	2.0248
#1	60.870	137.19	-20237.	-.00420	.01341	597.70	.01225
#2	73.902	133.65	-19990.	-.00262	.01282	588.56	.01229
#3	62.844	138.54	-20775.	.00310	.01649	622.91	.01270
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21196**	**.25568**	**.01652**	**.70519**	**.72549**	F **270.70**
Stddev	.00075	.00087	.00145	.01167	.01217	2.91
%RSD	.35216	.34174	8.8014	1.6547	1.6770	1.0751
#1	.21192	.25485	.01817	.70119	.72775	269.60
#2	.21123	.25560	.01542	.69605	.71235	268.50
#3	.21272	.25659	.01598	.71833	.73637	274.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48174.**	**62245.**
Stddev	655.	784.
%RSD	1.3605	1.2597
#1	48270.	61491.
#2	48776.	63056.
#3	47476.	62188.

Approved: March 29, 2011

Sample Name: L1103068542 Acquired: 3/28/2011 20:02:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**113.45**	**.10458**	**.15955**	**1.8280**	**.01372**	**31.736**
Stddev	.00065	1.52	.00174	.00312	.0095	.00010	.233
%RSD	12.486	1.3429	1.6675	1.9536	.52136	.75458	.73321
#1	.00519	111.74	.10268	.16311	1.8389	.01360	31.979
#2	.00585	114.65	.10611	.15825	1.8232	.01379	31.714
#3	.00455	113.98	.10494	.15730	1.8218	.01376	31.515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00671**	**.17943**	**.28137**	**.12571**	**322.92**	**14.414**	**.06112**
Stddev	.00004	.00240	.00058	.00331	2.85	.087	.00075
%RSD	.54183	1.3403	.20788	2.6336	.88357	.60189	1.2305
#1	.00675	.17668	.28093	.12201	326.19	14.512	.06026
#2	.00669	.18115	.28116	.12840	321.65	14.380	.06147
#3	.00669	.18045	.28204	.12672	320.92	14.349	.06164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.983**	**9.0887**	**.01335**	**.73796**	**.12522**	F **22752.**	**.40317**
Stddev	.131	.1017	.00021	.00452	.00286	367.	.00540
%RSD	.93619	1.1184	1.5556	.61187	2.2853	1.6144	1.3403
#1	14.133	9.2000	.01317	.74146	.12213	22346.	.39697
#2	13.924	9.0651	.01358	.73956	.12779	23062.	.40572
#3	13.891	9.0009	.01331	.73287	.12574	22847.	.40683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068542 Acquired: 3/28/2011 20:02:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **69.485**	F **187.06**	F **-28989.**	**.00028**	**.01466**	F **587.24**	**.01056**
Stddev	6.327	2.70	490.	.00145	.00154	11.03	.00044
%RSD	9.1061	1.4432	1.6909	524.02	10.485	1.8774	4.2095
#1	62.195	184.11	-28444.	-.00061	.01312	575.09	.01028
#2	73.554	189.40	-29393.	.00195	.01620	596.62	.01107
#3	72.705	187.67	-29131.	-.00051	.01466	590.00	.01034
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22967**	**.29045**	**.01147**	**.52569**	**.71112**	F **213.73**
Stddev	.00102	.00128	.00164	.00589	.00822	2.36
%RSD	.44389	.44023	14.281	1.1214	1.1556	1.1052
#1	.23065	.29191	.01167	.51892	.70232	211.16
#2	.22973	.28955	.00975	.52961	.71860	215.80
#3	.22862	.28989	.01301	.52856	.71242	214.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48715.**	**61902.**
Stddev	384.	939.
%RSD	.78810	1.5165
#1	49125.	60838.
#2	48365.	62252.
#3	48654.	62616.

Approved: March 29, 2011

Sample Name: L1103068543 Acquired: 3/28/2011 20:06:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00655**	**149.13**	**.12528**	**.23038**	**1.9139**	**.02081**	**24.586**
Stddev	.00051	5.47	.00521	.00269	.0031	.00073	.090
%RSD	7.8336	3.6692	4.1620	1.1692	.15933	3.5227	.36464
#1	.00713	149.79	.12484	.22782	1.9155	.02096	24.520
#2	.00617	143.36	.12030	.23319	1.9104	.02001	24.549
#3	.00633	154.25	.13070	.23014	1.9159	.02145	24.688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00516**	**.51928**	**.33204**	**.12949**	**495.33**	**5.1869**	**.06562**
Stddev	.00019	.02578	.01352	.00800	2.94	.0063	.00072
%RSD	3.6867	4.9651	4.0725	6.1774	.59407	.12145	1.0985
#1	.00509	.52651	.33493	.13092	492.32	5.1937	.06499
#2	.00501	.49065	.31731	.12088	495.48	5.1860	.06640
#3	.00538	.54067	.34389	.13668	498.20	5.1812	.06546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.651**	**14.015**	**.01641**	**2.6169**	**.16788**	F **12297.**	**.48883**
Stddev	.103	.089	.00106	.0116	.00897	630.	.02493
%RSD	.65693	.63619	6.4815	.44445	5.3444	5.1260	5.0996
#1	15.533	13.918	.01684	2.6105	.16988	12466.	.49402
#2	15.705	14.035	.01520	2.6098	.15808	11599.	.46172
#3	15.716	14.093	.01719	2.6303	.17569	12825.	.51076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068543 Acquired: 3/28/2011 20:06:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **64.447**	F **107.29**	F **-15169.**	**-.00341**	**.01185**	F **577.74**	**.01137**
Stddev	1.496	5.21	755.	.00082	.00166	26.47	.00081
%RSD	2.3220	4.8539	4.9747	23.972	14.037	4.5821	7.0961
#1	65.981	108.40	-15389.	-.00328	.01375	588.18	.01109
#2	64.370	101.62	-14329.	-.00267	.01064	547.64	.01073
#3	62.991	111.85	-15790.	-.00428	.01117	597.40	.01227
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19765**	**.22158**	**.01456**	**.63601**	**.68954**	F **227.54**
Stddev	.00074	.00062	.00220	.02343	.03198	8.01
%RSD	.37536	.28083	15.136	3.6843	4.6372	3.5217
#1	.19725	.22113	.01259	.64138	.69673	228.72
#2	.19720	.22131	.01416	.61035	.65459	219.00
#3	.19851	.22229	.01694	.65629	.71731	234.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48891.**	**62088.**
Stddev	1779.	180.
%RSD	3.6395	.28983
#1	48354.	62296.
#2	50878.	61991.
#3	47443.	61977.

Approved: March 29, 2011

Sample Name: L1103068544 Acquired: 3/28/2011 20:09:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00465**	**91.966**	**.09130**	**.12761**	**1.8534**	**.01171**	**34.636**
Stddev	.00049	2.867	.00331	.00104	.0256	.00028	.498
%RSD	10.633	3.1177	3.6304	.81565	1.3839	2.4161	1.4364
#1	.00474	89.774	.09110	.12856	1.8747	.01173	35.064
#2	.00509	95.211	.09471	.12777	1.8606	.01197	34.755
#3	.00412	90.914	.08809	.12650	1.8249	.01141	34.090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00683**	**.13950**	**.20949**	**.13922**	**253.78**	**9.9759**	**.05038**
Stddev	.00019	.00552	.00641	.00615	2.58	.1345	.00174
%RSD	2.8430	3.9586	3.0619	4.4159	1.0152	1.3479	3.4472
#1	.00681	.13970	.20954	.13875	255.97	10.100	.05131
#2	.00704	.14492	.21588	.14559	254.43	9.9953	.05146
#3	.00665	.13388	.20305	.13332	250.94	9.8328	.04838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.245**	**7.2897**	**.01185**	**.85868**	**.11612**	F **26114.**	**.37745**
Stddev	.071	.0889	.00031	.01153	.00550	1057.	.01578
%RSD	.50191	1.2198	2.6195	1.3428	4.7402	4.0470	4.1808
#1	14.290	7.3673	.01204	.87095	.11604	26195.	.37684
#2	14.283	7.3091	.01201	.85702	.12166	27128.	.39354
#3	14.163	7.1926	.01149	.84807	.11065	25019.	.36199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068544 Acquired: 3/28/2011 20:09:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **63.312**	F **189.55**	F **-28908.**	**.00297**	**.01177**	F **606.01**	**.01072**
Stddev	5.070	7.45	1373.	.00158	.00126	25.92	.00048
%RSD	8.0073	3.9297	4.7508	53.218	10.671	4.2765	4.4605
#1	68.094	189.91	-29084.	.00303	.01039	613.71	.01091
#2	63.844	196.81	-30185.	.00453	.01285	627.21	.01108
#3	57.997	181.92	-27455.	.00136	.01207	577.12	.01018
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24172**	**.28756**	**.00836**	**.41774**	**.78320**	F **174.14**
Stddev	.00336	.00386	.00034	.01170	.03015	4.35
%RSD	1.3914	1.3425	4.0938	2.8002	3.8502	2.4994
#1	.24455	.29068	.00811	.41904	.78314	174.19
#2	.24260	.28876	.00820	.42874	.81338	178.47
#3	.23800	.28324	.00875	.40545	.75307	169.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48247.**	**60890.**
Stddev	1399.	610.
%RSD	2.9003	1.0014
#1	48050.	60254.
#2	46958.	60944.
#3	49735.	61470.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 20:13:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40922**	**10.044**	**.40385**	**.50268**	**1.0110**	**.05024**	**9.9924**
Stddev	.00359	.034	.00459	.00234	.0039	.00035	.0166
%RSD	.87611	.33488	1.1368	.46517	.38944	.68877	.16611
#1	.40632	10.060	.40237	.50250	1.0071	.05010	9.9762
#2	.40813	10.005	.40018	.50043	1.0111	.04998	9.9915
#3	.41323	10.066	.40900	.50510	1.0150	.05063	10.009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05039**	**.20347**	**.50706**	**.50892**	**3.9007**	**49.412**	**.99666**
Stddev	.00055	.00207	.00353	.00562	.0019	.089	.00284
%RSD	1.0957	1.0164	.69716	1.1043	.04881	.18109	.28477
#1	.05033	.20305	.50644	.50801	3.8991	49.312	.99408
#2	.04987	.20165	.50388	.50382	3.9028	49.438	.99619
#3	.05097	.20572	.51086	.51494	3.9003	49.485	.99970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5254**	**.48027**	**.98547**	**50.056**	**.50230**	F **4.9046**	**.50257**
Stddev	.0372	.00258	.00953	.038	.00615	1.0687	.00552
%RSD	.39003	.53712	.96669	.07573	1.2244	21.789	1.0979
#1	9.5072	.47906	.98612	50.093	.50067	5.9945	.50314
#2	9.5007	.47851	.97564	50.018	.49713	4.8609	.49678
#3	9.5681	.48323	.99466	50.058	.50910	3.8585	.50777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 20:13:39 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **36.643**	**10.217**	F **4.9250**	**1.2149**	**.39505**	**5.2896**	**1.0040**
Stddev	10.060	.184	5.5037	.0159	.00416	.0543	.0172
%RSD	27.454	1.7965	111.75	1.3048	1.0525	1.0266	1.7146
#1	25.912	10.204	9.7828	1.2186	.39649	5.2270	.99392
#2	45.859	10.040	-1.0524	1.1975	.39037	5.3178	.99425
#3	38.157	10.407	6.0447	1.2285	.39830	5.3240	1.0239
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99535**	**.97564**	**.51318**	**1.0171**	**.99031**	F **1.2029**
Stddev	.00060	.00105	.00489	.0061	.01260	.0195
%RSD	.05990	.10803	.95320	.59819	1.2726	1.6179
#1	.99548	.97585	.51335	1.0134	.98645	1.2067
#2	.99470	.97449	.50821	1.0137	.98008	1.2202
#3	.99587	.97657	.51798	1.0241	1.0044	1.1818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50016.**	**59530.**
Stddev	387.	193.
%RSD	.77318	.32480
#1	50145.	59705.
#2	50321.	59563.
#3	49581.	59323.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 20:17:03 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00571**	**.00056**	**.00073**	**-.00015**	**.00001**	**.00385**
Stddev	.00014	.00371	.00067	.00031	.00005	.00002	.00598
%RSD	46.588	64.976	119.41	42.335	35.976	114.28	155.19
#1	-.00038	.00983	.00113	.00103	-.00020	.00000	.00848
#2	-.00014	.00263	.00072	.00042	-.00009	.00003	.00598
#3	-.00038	.00468	-.00018	.00074	-.00016	.00001	-.00290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00003**	**-.00026**	**-.00020**	**.01348**	**.07807**	**-.00319**
Stddev	.00005	.00020	.00020	.00022	.00192	.02355	.00097
%RSD	587.58	618.60	74.675	109.65	14.257	30.166	30.483
#1	.00000	.00000	-.00040	-.00006	.01515	.08271	-.00427
#2	-.00004	-.00024	-.00036	-.00045	.01390	.09895	-.00289
#3	.00007	.00015	-.00004	-.00009	.01138	.05254	-.00240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00767**	**.00025**	**.00006**	**.01435**	**-.00008**	F **7.1311**	**-.00075**
Stddev	.00850	.00022	.00015	.00649	.00072	11.870	.00069
%RSD	110.80	89.534	240.53	45.250	903.30	166.46	92.419
#1	-.00956	.00000	-.00009	.01753	.00010	19.567	-.00007
#2	-.01507	.00043	.00007	.01865	.00053	-4.0784	-.00072
#3	.00161	.00031	.00020	.00688	-.00087	5.9051	-.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 20:17:03 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **28.627**	F **.04407**	F **-7.3417**	**-.00107**	**-.00190**	**-.17123**	**-.00002**
Stddev	1.161	.06061	1.3562	.00013	.00274	.21931	.00017
%RSD	4.0541	137.52	18.473	11.806	144.14	128.08	768.53
#1	29.016	.10937	-8.6760	-.00113	-.00024	.08127	.00012
#2	27.322	-.01038	-5.9645	-.00092	-.00040	-.31426	.00002
#3	29.544	.03322	-7.3845	-.00115	-.00506	-.28071	-.00020
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00094**	**.00017**	**-.00034**	**.00022**	F **.16192**
Stddev	.00004	.00036	.00064	.00013	.00073	.05156
%RSD	313.81	38.514	382.42	38.015	322.72	31.844
#1	.00006	.00131	-.00036	-.00030	.00083	.15002
#2	.00000	.00059	-.00002	-.00023	.00042	.11734
#3	-.00002	.00093	.00088	-.00048	-.00058	.21839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.10000
Low Limit						-.10000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51148.**	**59670.**
Stddev	580.	142.
%RSD	1.1335	.23861
#1	50672.	59795.
#2	51793.	59515.
#3	50978.	59702.

Approved: March 29, 2011

Sample Name: PBS 79 Acquired: 3/28/2011 20:20:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00123**	**-.00275**	**-.00194**	**.00036**	**-.00002**	**-.01530**
Stddev	.0004	.00232	.00080	.00034	.00008	.00001	.00148
%RSD	8871.9	189.07	29.182	17.497	22.748	81.440	9.6756
#1	.00045	-.00161	-.00227	-.00232	.00039	-.00002	-.01701
#2	-.00033	.00126	-.00368	-.00166	.00027	.00000	-.01442
#3	-.00014	-.00333	-.00230	-.00184	.00042	-.00003	-.01447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.00039**	**.00068**	**-.00054**	**.01194**	**.84948**	**-.00297**
Stddev	.00006	.00010	.00027	.00013	.00136	.00822	.00096
%RSD	22.234	26.596	39.620	23.904	11.359	.96822	32.323
#1	.00030	-.00032	.00098	-.00049	.01347	.85207	-.00401
#2	.00034	-.00051	.00063	-.00044	.01089	.85609	-.00211
#3	.00021	-.00034	.00044	-.00068	.01146	.84027	-.00280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00433**	**-.00010**	**.00010**	**.01427**	**.00050**	F **-54.356**	**-.00013**
Stddev	.01580	.00038	.00011	.00575	.00020	6.217	.00078
%RSD	364.93	389.09	111.33	40.265	40.451	11.437	590.54
#1	-.02238	.00033	.00023	.00767	.00064	-61.366	.00038
#2	.00243	-.00041	.00006	.01816	.00058	-52.193	-.00103
#3	.00696	-.00021	.00002	.01698	.00027	-49.510	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: PBS 79 Acquired: 3/28/2011 20:20:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **39.123**	F **15.239**	F **-2761.1**	**.00010**	**.00195**	**2.7406**	**.00022**
Stddev	2.766	.206	22.5	.00076	.00134	.3574	.00009
%RSD	7.0712	1.3494	.81506	780.74	68.825	13.042	41.905
#1	39.783	15.402	-2775.4	.00039	.00051	2.7998	.00012
#2	41.500	15.308	-2772.6	-.00077	.00217	3.0647	.00030
#3	36.086	15.008	-2735.1	.00067	.00318	2.3572	.00025
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00079**	**-.00168**	**-.00016**	**-.00197**	**.27999**
Stddev	.00003	.00029	.00041	.00013	.00016	.22276
%RSD	11.417	37.524	24.248	80.260	8.2065	79.557
#1	-.00029	.00112	-.00168	-.00025	-.00181	.52391
#2	-.00023	.00068	-.00209	-.00001	-.00214	.22875
#3	-.00025	.00056	-.00127	-.00022	-.00196	.08733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48422.**	**58265.**
Stddev	501.	481.
%RSD	1.0349	.82565
#1	48130.	57709.
#2	48136.	58543.
#3	49001.	58542.

Approved: March 29, 2011

Sample Name: LCSS 79 Acquired: 3/28/2011 20:24:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19665**	**.00048**	**.19485**	**-.00236**	**.00004**	**.00000**	**-.01774**
Stddev	.00174	.00279	.00324	.00023	.00006	.00003	.00378
%RSD	.88506	577.61	1.6646	9.8525	166.94	984.46	21.286
#1	.19821	.00205	.19703	-.00260	.00011	-.00003	-.01926
#2	.19697	.00213	.19640	-.00235	-.00002	.00004	-.01344
#3	.19477	-.00273	.19112	-.00213	.00003	.00000	-.02052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02519**	**-.00039**	**.00055**	**.25440**	**.01746**	**.03312**	**-.00179**
Stddev	.00044	.00014	.00024	.00392	.00177	.02157	.00081
%RSD	1.7366	34.925	43.107	1.5409	10.133	65.118	45.410
#1	.02561	-.00055	.00080	.25772	.01758	.04552	-.00088
#2	.02523	-.00030	.00032	.25541	.01916	.04564	-.00244
#3	.02473	-.00033	.00054	.25007	.01563	.00822	-.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.25214**	**-.00012**	**.01776**	**.00053**	F **-52.105**	**.24863**
Stddev	.00474	.00144	.00009	.00220	.00018	12.168	.00221
%RSD	657.99	.57118	79.954	12.368	34.201	23.353	.88938
#1	-.00357	.25171	-.00008	.01805	.00048	-38.477	.24948
#2	-.00008	.25097	-.00022	.01543	.00072	-61.880	.25029
#3	.00581	.25375	-.00004	.01980	.00037	-55.960	.24612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: LCSS 79 Acquired: 3/28/2011 20:24:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **41.376**	**.20374**	F **-21.308**	**.00069**	**.00347**	**2.9968**	**.00032**
Stddev	10.304	.00388	5.470	.00137	.00096	.1914	.00018
%RSD	24.903	1.9037	25.673	199.65	27.746	6.3872	56.081
#1	52.988	.20502	-23.831	.00217	.00409	2.9831	.00045
#2	37.815	.19938	-25.061	-.00053	.00395	2.8126	.00040
#3	33.325	.20681	-15.031	.00042	.00236	3.1947	.00012
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00203**	**-.00150**	**-.00051**	**.00295**	**.30308**
Stddev	.00003	.00091	.00046	.00016	.00202	.13774
%RSD	8.8810	44.815	30.462	31.893	68.393	45.445
#1	-.00036	.00241	-.00106	-.00066	.00168	.16267
#2	-.00034	.00099	-.00197	-.00053	.00190	.30859
#3	-.00030	.00269	-.00146	-.00033	.00528	.43798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48618.**	**59212.**
Stddev	586.	220.
%RSD	1.2048	.37228
#1	48113.	59444.
#2	48483.	59188.
#3	49260.	59005.

Approved: March 29, 2011

Sample Name: L1103068619 Acquired: 3/28/2011 20:28:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00333**	**86.655**	**.08353**	**.11993**	**1.0643**	**.01072**	**54.809**
Stddev	.00074	1.423	.00126	.00150	.0032	.00015	.096
%RSD	22.206	1.6425	1.5044	1.2535	.29645	1.3985	.17434
#1	.00368	85.934	.08262	.11928	1.0613	.01074	54.779
#2	.00248	88.295	.08496	.11887	1.0639	.01085	54.732
#3	.00384	85.737	.08300	.12165	1.0676	.01056	54.916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00591**	**.07910**	**.22772**	**.09851**	**211.44**	**4.4100**	**.04096**
Stddev	.00014	.00126	.00408	.00209	.64	.0138	.00075
%RSD	2.4313	1.5912	1.7925	2.1192	.30085	.31374	1.8293
#1	.00575	.07838	.22784	.09691	211.25	4.4215	.04029
#2	.00602	.08056	.23175	.10087	210.93	4.4139	.04081
#3	.00597	.07837	.22359	.09776	212.15	4.3947	.04177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7036**	**4.3138**	**.01010**	**1.5016**	**.07458**	F **15762.**	**.29142**
Stddev	.0341	.0107	.00022	.0052	.00137	263.	.00555
%RSD	.35109	.24930	2.2218	.34267	1.8329	1.6705	1.9060
#1	9.7254	4.3114	.00987	1.4961	.07335	15565.	.28721
#2	9.6643	4.3044	.01032	1.5062	.07605	16061.	.29771
#3	9.7210	4.3255	.01013	1.5025	.07432	15660.	.28933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068619 Acquired: 3/28/2011 20:28:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **62.558**	F **180.14**	F **-23742.**	**.00321**	**.01035**	F **545.66**	**.00869**
Stddev	6.071	2.06	447.	.00159	.00102	9.99	.00018
%RSD	9.7041	1.1436	1.8817	49.627	9.8291	1.8316	2.0625
#1	56.754	178.84	-23478.	.00197	.01034	539.52	.00864
#2	68.865	182.52	-24258.	.00265	.00934	557.20	.00889
#3	62.057	179.07	-23490.	.00500	.01137	540.27	.00855
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33545**	**.19753**	**.01086**	**.42409**	**.48743**	F **153.73**
Stddev	.00056	.00025	.00081	.00656	.00378	1.54
%RSD	.16557	.12566	7.4110	1.5475	.77461	1.0028
#1	.33562	.19773	.01121	.42412	.48536	153.12
#2	.33483	.19761	.01144	.43063	.49179	155.48
#3	.33591	.19725	.00994	.41751	.48514	152.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48042.**	**61752.**
Stddev	404.	332.
%RSD	.84104	.53801
#1	48291.	61423.
#2	47576.	62088.
#3	48261.	61746.

Approved: March 29, 2011

Sample Name: L1103068619PS Acquired: 3/28/2011 20:31:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360131-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20029**	**80.722**	**.26161**	**1.0454**	**1.4119**	**.03359**	**52.747**
Stddev	.00083	.839	.00324	.0040	.0237	.00008	.907
%RSD	.41566	1.0396	1.2367	.38606	1.6776	.24112	1.7187
#1	.19934	79.869	.26058	1.0435	1.4369	.03353	53.703
#2	.20090	81.547	.26524	1.0426	1.3897	.03356	51.899
#3	.20063	80.751	.25902	1.0500	1.4092	.03368	52.639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02870**	**.16399**	**.43678**	**.31797**	**187.25**	**27.155**	**.52155**
Stddev	.00014	.00079	.00048	.00153	2.98	.448	.00763
%RSD	.49993	.48287	.11033	.47969	1.5894	1.6513	1.4623
#1	.02854	.16320	.43639	.31684	190.21	27.627	.52987
#2	.02882	.16478	.43663	.31970	184.26	26.735	.51489
#3	.02875	.16399	.43732	.31735	187.28	27.103	.51988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.888**	**3.9908**	**.50625**	**25.941**	**.30100**	F **13748.**	**.47932**
Stddev	.173	.0665	.00042	.453	.00157	63.	.00075
%RSD	1.3447	1.6665	.08317	1.7456	.52301	.46078	.15609
#1	13.045	4.0586	.50593	26.444	.29943	13675.	.47849
#2	12.702	3.9257	.50672	25.565	.30258	13781.	.47994
#3	12.916	3.9880	.50608	25.815	.30098	13787.	.47952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068619PS Acquired: 3/28/2011 20:31:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360131-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **67.104**	F **162.62**	F **-20723.**	**.56101**	**.19835**	F **1099.0**	**.00844**
Stddev	4.168	1.05	88.	.00413	.00039	4.1	.00026
%RSD	6.2110	.64862	.42231	.73588	.19438	.37113	3.0614
#1	70.011	161.59	-20625.	.55751	.19836	1095.4	.00859
#2	68.972	163.70	-20793.	.56556	.19873	1103.4	.00859
#3	62.329	162.58	-20751.	.55996	.19796	1098.2	.00814
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.77497**	**.63242**	**.23702**	**.86796**	**.88395**	F **132.66**
Stddev	.01335	.01090	.00081	.00222	.00234	.60
%RSD	1.7226	1.7231	.33972	.25555	.26439	.45402
#1	.78959	.64383	.23695	.86549	.88149	132.88
#2	.76342	.62212	.23785	.86864	.88614	131.97
#3	.77191	.63130	.23625	.86976	.88423	133.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49228.**	**62076.**
Stddev	74.	665.
%RSD	.15131	1.0718
#1	49240.	61410.
#2	49149.	62741.
#3	49296.	62076.

Approved: March 29, 2011

Sample Name: L1103068619SDL Acquired: 3/28/2011 20:35:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360131-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**17.272**	**.01869**	**.02384**	**.21006**	**.00214**	**11.007**
Stddev	.00025	.053	.00086	.00013	.00428	.00001	.239
%RSD	50.861	.30727	4.5892	.56255	2.0385	.32956	2.1689
#1	.00029	17.328	.01802	.02400	.21287	.00214	11.156
#2	.00042	17.222	.01838	.02375	.21217	.00215	11.133
#3	.00078	17.266	.01965	.02378	.20513	.00214	10.731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**.01642**	**.04570**	**.02026**	**44.283**	**.94139**	**.00630**
Stddev	.00002	.00025	.00061	.00053	.760	.03509	.00059
%RSD	1.7358	1.5223	1.3394	2.6280	1.7156	3.7271	9.3263
#1	.00110	.01668	.04626	.02081	44.741	.93889	.00607
#2	.00107	.01639	.04505	.01974	44.702	.97765	.00697
#3	.00106	.01618	.04579	.02023	43.406	.90761	.00587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1280**	**.90182**	**.00153**	**.30373**	**.01535**	F **3348.8**	**.06313**
Stddev	.0316	.01730	.00008	.00879	.00018	32.6	.00169
%RSD	1.4831	1.9181	5.2910	2.8943	1.1850	.97283	2.6763
#1	2.1538	.91328	.00153	.30605	.01556	3377.8	.06135
#2	2.1374	.91026	.00161	.31112	.01521	3355.1	.06471
#3	2.0928	.88193	.00145	.29401	.01530	3313.5	.06333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068619SDL Acquired: 3/28/2011 20:35:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360131-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **30.345**	F **39.372**	F **-5031.6**	**-.00074**	**.00142**	F **111.22**	**.00185**
Stddev	4.995	.318	44.0	.00085	.00255	1.08	.00011
%RSD	16.462	.80803	.87350	115.97	180.09	.97491	5.9945
#1	27.889	39.711	-5070.5	-.00040	.00426	112.00	.00198
#2	36.093	39.323	-5040.4	-.00010	.00066	111.68	.00182
#3	27.053	39.081	-4983.9	-.00171	-.00067	109.98	.00177
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06616**	**.04091**	**.00401**	**.08452**	**.10539**	**29.498**
Stddev	.00136	.00082	.00083	.00015	.00108	.156
%RSD	2.0515	2.0042	20.795	.18112	1.0248	.52721
#1	.06704	.04177	.00306	.08445	.10617	29.535
#2	.06684	.04082	.00435	.08441	.10583	29.632
#3	.06460	.04013	.00463	.08469	.10415	29.328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51152.**	**60821.**
Stddev	184.	154.
%RSD	.35906	.25294
#1	50956.	60950.
#2	51178.	60862.
#3	51321.	60651.

Approved: March 29, 2011

Sample Name: L1103068619SDL Acquired: 3/28/2011 20:38:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360131-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**3.3529**	**.00559**	**.00242**	**.04185**	**.00045**	**2.1570**
Stddev	.00076	.0128	.00082	.00007	.00139	.00002	.0704
%RSD	759.21	.38084	14.715	2.9868	3.3329	3.6802	3.2660
#1	.00030	3.3409	.00478	.00245	.04096	.00043	2.1288
#2	-.00097	3.3514	.00642	.00234	.04345	.00045	2.2371
#3	.00038	3.3664	.00558	.00247	.04113	.00046	2.1050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00342**	**.00841**	**.00377**	**8.8643**	**.22342**	**-.00010**
Stddev	.00001	.00018	.00018	.00031	.2338	.01193	.00077
%RSD	5.5434	5.2699	2.1340	8.0911	2.6379	5.3412	787.65
#1	.00013	.00356	.00841	.00349	8.7525	.21504	-.00090
#2	.00011	.00349	.00824	.00373	9.1330	.21813	-.00002
#3	.00012	.00322	.00859	.00410	8.7073	.23708	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42477**	**.18184**	**-.00002**	**.05680**	**.00287**	**706.32**	**.01261**
Stddev	.00773	.00470	.00013	.00635	.00046	3.53	.00080
%RSD	1.8186	2.5841	602.15	11.188	15.984	.49931	6.3099
#1	.42199	.18057	-.00001	.06410	.00300	709.05	.01245
#2	.43351	.18704	.00010	.05375	.00326	702.33	.01348
#3	.41883	.17790	-.00016	.05254	.00236	707.57	.01191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 29, 2011

Sample Name: L1103068619SDL Acquired: 3/28/2011 20:38:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360131-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.752**	**8.0046**	F **-1038.2**	**-.00299**	**-.00077**	**21.192**	**-.00007**
Stddev	1.840	.0971	1.5	.00097	.00061	.355	.00017
%RSD	8.4577	1.2135	.14464	32.483	79.603	1.6742	230.52
#1	19.666	8.1166	-1039.6	-.00412	-.00064	21.443	-.00015
#2	22.447	7.9528	-1038.4	-.00240	-.00144	21.346	-.00019
#3	23.143	7.9443	-1036.6	-.00247	-.00023	20.786	.00012
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01317**	**.00857**	**.00239**	**.01658**	**.02248**	**4.9059**
Stddev	.00046	.00023	.00097	.00015	.00028	.0860
%RSD	3.4766	2.6646	40.679	.92925	1.2275	1.7523
#1	.01295	.00863	.00344	.01658	.02280	4.9244
#2	.01370	.00876	.00152	.01643	.02236	4.9812
#3	.01287	.00832	.00221	.01674	.02229	4.8123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**52288.**	**60523.**
Stddev	201.	574.
%RSD	.38410	.94898
#1	52381.	60503.
#2	52057.	59959.
#3	52425.	61107.

Approved: March 29, 2011

Sample Name: L1103068620 Acquired: 3/28/2011 20:42:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00381**	**118.45**	**.10262**	**.14303**	**1.4339**	**.01279**	**70.177**
Stddev	.00039	2.52	.00571	.00196	.0317	.00026	1.744
%RSD	10.164	2.1243	5.5677	1.3681	2.2085	2.0537	2.4845
#1	.00423	119.72	.10675	.14096	1.4031	.01291	68.403
#2	.00373	120.08	.10500	.14485	1.4664	.01297	71.889
#3	.00347	115.55	.09610	.14327	1.4321	.01249	70.238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00663**	**.09933**	**.49985**	**.14331**	**269.50**	**8.3215**	**.05718**
Stddev	.00010	.00403	.01388	.00679	5.04	.2091	.00049
%RSD	1.4732	4.0596	2.7759	4.7402	1.8707	2.5125	.84937
#1	.00668	.10202	.50819	.14845	264.16	8.0957	.05668
#2	.00669	.10128	.50753	.14587	274.18	8.5083	.05765
#3	.00651	.09470	.48384	.13561	270.16	8.3606	.05720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.095**	**5.6533**	**.01209**	**.68863**	**.09697**	F **30431.**	**.33339**
Stddev	.257	.1205	.00059	.02060	.00424	1333.	.01431
%RSD	1.9601	2.1316	4.8516	2.9912	4.3731	4.3801	4.2908
#1	12.801	5.5347	.01271	.66570	.09993	31470.	.34499
#2	13.277	5.7757	.01199	.70557	.09885	30895.	.33778
#3	13.206	5.6497	.01155	.69462	.09211	28928.	.31741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068620 Acquired: 3/28/2011 20:42:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **67.759**	F **224.65**	F **-29111.**	**.00281**	**.01202**	F **549.10**	**.01101**
Stddev	7.878	9.21	1209.	.00183	.00245	22.66	.00058
%RSD	11.627	4.1003	4.1519	65.057	20.408	4.1276	5.3081
#1	76.034	230.10	-30039.	.00325	.01078	565.97	.01117
#2	66.891	229.83	-29550.	.00438	.01044	558.00	.01151
#3	60.350	214.01	-27744.	.00080	.01485	523.34	.01037
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41143**	**.20228**	**.01008**	**.50402**	**.93894**	F **179.40**
Stddev	.01025	.00462	.00224	.01257	.03550	5.97
%RSD	2.4911	2.2829	22.238	2.4942	3.7808	3.3277
#1	.40080	.19711	.00950	.50873	.96069	183.11
#2	.42125	.20600	.01255	.51355	.95815	182.57
#3	.41224	.20372	.00818	.48977	.89797	172.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47260.**	**58866.**
Stddev	1482.	382.
%RSD	3.1354	.64809
#1	46215.	58933.
#2	46609.	58455.
#3	48956.	59209.

Approved: March 29, 2011

Sample Name: L1103068621 Acquired: 3/28/2011 20:45:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00439**	**167.06**	**.17984**	**.23965**	**1.4334**	**.01772**	**62.089**
Stddev	.00088	1.00	.00116	.00110	.0014	.00011	.144
%RSD	19.924	.59977	.64279	.45705	.09394	.59745	.23140
#1	.00372	168.19	.18100	.24044	1.4320	.01762	61.936
#2	.00538	166.71	.17984	.23840	1.4336	.01783	62.110
#3	.00408	166.28	.17869	.24013	1.4347	.01770	62.221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00651**	**.13156**	**.42315**	**.12092**	**496.63**	**6.5844**	**.06762**
Stddev	.00005	.00135	.00239	.00236	1.88	.0387	.00035
%RSD	.77158	1.0274	.56410	1.9493	.37873	.58808	.52439
#1	.00647	.13194	.42340	.12076	496.19	6.5529	.06803
#2	.00656	.13267	.42540	.12336	495.00	6.5727	.06747
#3	.00649	.13005	.42065	.11865	498.69	6.6276	.06737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.315**	**3.3240**	**.02089**	**1.1628**	**.10800**	F **21971.**	**.37010**
Stddev	.048	.0112	.00003	.0068	.00183	253.	.00536
%RSD	.39240	.33598	.15805	.58399	1.6931	1.1511	1.4472
#1	12.263	3.3129	.02093	1.1550	.10849	22000.	.37326
#2	12.323	3.3238	.02087	1.1677	.10954	22207.	.37312
#3	12.359	3.3353	.02088	1.1657	.10598	21704.	.36392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068621 Acquired: 3/28/2011 20:45:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **74.110**	F **140.17**	F **-14902.**	**.00053**	**.01127**	F **496.33**	**.01240**
Stddev	2.031	1.63	161.	.00063	.00224	8.55	.00028
%RSD	2.7402	1.1623	1.0818	118.75	19.904	1.7225	2.2754
#1	73.579	140.72	-14959.	.00018	.00868	496.44	.01242
#2	76.353	141.45	-15027.	.00125	.01246	504.82	.01267
#3	72.397	138.33	-14720.	.00015	.01267	487.73	.01210
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38279**	**.15823**	**.02028**	**.77303**	**.44514**	F **262.26**
Stddev	.00067	.00028	.00016	.00359	.00498	.53
%RSD	.17375	.17413	.77380	.46502	1.1177	.20150
#1	.38202	.15816	.02046	.77145	.44718	262.39
#2	.38320	.15800	.02017	.77715	.44877	262.72
#3	.38315	.15853	.02022	.77050	.43947	261.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47944.**	**61104.**
Stddev	363.	142.
%RSD	.75720	.23171
#1	47832.	61024.
#2	47650.	61021.
#3	48350.	61268.

Approved: March 29, 2011

Sample Name: L1103068622 Acquired: 3/28/2011 20:49:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00253**	**66.520**	**.06665**	**.08330**	**.96408**	**.00715**	**342.58**
Stddev	.00031	.577	.00022	.00173	.02012	.00001	3.95
%RSD	12.083	.86670	.32675	2.0805	2.0874	.19809	1.1540
#1	.00265	67.083	.06662	.08167	.94094	.00716	340.57
#2	.00275	65.930	.06644	.08512	.97756	.00714	347.13
#3	.00218	66.545	.06688	.08312	.97373	.00714	340.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00542**	**.06484**	**.14468**	**.09407**	**141.29**	**6.2791**	**.04120**
Stddev	.00010	.00041	.00105	.00036	2.68	.1157	.00086
%RSD	1.9121	.63337	.72553	.38208	1.8941	1.8421	2.0812
#1	.00533	.06452	.14386	.09368	138.34	6.1455	.04027
#2	.00553	.06468	.14433	.09416	143.57	6.3459	.04135
#3	.00539	.06530	.14586	.09438	141.94	6.3459	.04197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.045**	**3.7794**	**.00751**	**.55140**	**.06563**	F **22358.**	**.22442**
Stddev	.290	.0633	.00019	.01006	.00089	96.	.00059
%RSD	1.6097	1.6755	2.5381	1.8252	1.3520	.43122	.26174
#1	17.761	3.7111	.00754	.54028	.06461	22278.	.22375
#2	18.341	3.8361	.00768	.55990	.06615	22332.	.22474
#3	18.032	3.7911	.00730	.55402	.06613	22465.	.22479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068622 Acquired: 3/28/2011 20:49:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **69.903**	F **474.46**	F **-28765.**	**.00445**	**.00911**	F **537.34**	**.00756**
Stddev	5.933	2.98	133.	.00188	.00161	2.90	.00024
%RSD	8.4869	.62749	.46388	42.264	17.624	.53957	3.1187
#1	63.826	471.36	-28634.	.00643	.01054	534.58	.00729
#2	70.206	474.70	-28762.	.00269	.00737	537.07	.00765
#3	75.679	477.30	-28901.	.00422	.00941	540.37	.00774
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3061**	**.19108**	**.00530**	**.28911**	**.75088**	F **121.73**
Stddev	.0260	.00350	.00049	.00148	.00486	.59
%RSD	1.9881	1.8319	9.2189	.51113	.64688	.48802
#1	1.2764	.18706	.00576	.29027	.74540	122.12
#2	1.3248	.19339	.00535	.28745	.75254	121.05
#3	1.3170	.19281	.00478	.28961	.75468	122.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46888.**	**61371.**
Stddev	228.	624.
%RSD	.48541	1.0173
#1	47130.	61607.
#2	46855.	60663.
#3	46678.	61843.

Approved: March 29, 2011

Sample Name: L1103068623 Acquired: 3/28/2011 20:53:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**167.26**	**.10929**	**.16020**	**1.4167**	**.01702**	**61.875**
Stddev	.00045	1.34	.00122	.00531	.0500	.00013	1.962
%RSD	23.670	.80154	1.1147	3.3134	3.5329	.75036	3.1716
#1	.00240	168.66	.10834	.16288	1.4470	.01715	63.219
#2	.00168	167.13	.10887	.16364	1.4442	.01700	62.784
#3	.00157	165.98	.11067	.15409	1.3589	.01690	59.623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00521**	**.18776**	**.28638**	**.11456**	**322.90**	**7.3372**	**.06160**
Stddev	.00009	.00272	.00112	.00153	9.50	.2150	.00249
%RSD	1.6817	1.4502	.39191	1.3347	2.9421	2.9307	4.0381
#1	.00524	.18977	.28766	.11554	328.61	7.4707	.06340
#2	.00527	.18884	.28593	.11535	328.17	7.4519	.06265
#3	.00511	.18466	.28555	.11280	311.94	7.0892	.05876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.756**	**6.8005**	**.01411**	**1.7078**	**.12062**	F **12948.**	**.27910**
Stddev	.298	.1937	.00013	.0541	.00196	195.	.00401
%RSD	2.0163	2.8489	.89090	3.1665	1.6274	1.5089	1.4363
#1	14.929	6.9233	.01425	1.7502	.12252	13064.	.28249
#2	14.927	6.9011	.01404	1.7262	.12073	13058.	.28013
#3	14.413	6.5772	.01402	1.6469	.11860	12722.	.27467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068623 Acquired: 3/28/2011 20:53:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **74.101**	F **135.50**	F **-14150.**	**.00070**	**.00992**	F **509.30**	**.01193**
Stddev	2.214	2.13	199.	.00224	.00390	7.77	.00004
%RSD	2.9878	1.5741	1.4057	322.37	39.282	1.5258	.33955
#1	71.747	136.88	-14257.	-.00037	.01352	512.66	.01196
#2	74.413	136.59	-14273.	.00327	.00578	514.82	.01195
#3	76.141	133.05	-13921.	-.00082	.01047	500.41	.01188
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41002**	**.17039**	**.01140**	**.55779**	**.41203**	F **262.71**
Stddev	.01248	.00611	.00150	.00553	.00326	2.35
%RSD	3.0430	3.5876	13.196	.99148	.79163	.89388
#1	.41947	.17488	.01280	.56339	.41579	265.36
#2	.41470	.17286	.01160	.55764	.41035	261.89
#3	.39588	.16343	.00981	.55233	.40995	260.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49999.**	**62549.**
Stddev	441.	931.
%RSD	.88204	1.4890
#1	49642.	61842.
#2	49863.	62199.
#3	50492.	63604.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 20:56:57 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39115**	**9.7005**	**.39236**	**.48332**	**1.0176**	**.04844**	**10.070**
Stddev	.00434	.0614	.00139	.00439	.0006	.00047	.025
%RSD	1.1106	.63264	.35479	.90933	.06271	.96526	.24889
#1	.39595	9.7704	.39139	.48778	1.0177	.04898	10.071
#2	.38748	9.6552	.39173	.47899	1.0181	.04810	10.095
#3	.39003	9.6761	.39396	.48319	1.0169	.04826	10.045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04909**	**.19828**	**.49075**	**.49486**	**3.9018**	**49.766**	**1.0030**
Stddev	.00031	.00118	.00403	.00287	.0223	.118	.0026
%RSD	.63464	.59686	.82065	.57986	.57158	.23647	.25449
#1	.04893	.19792	.49537	.49434	3.9269	49.808	1.0002
#2	.04889	.19732	.48804	.49229	3.8945	49.857	1.0052
#3	.04945	.19960	.48883	.49796	3.8841	49.633	1.0037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6483**	**.48494**	**.96907**	**50.545**	**.49265**	F **5.5110**	**.49374**
Stddev	.0201	.00291	.00714	.210	.00344	14.525	.00308
%RSD	.20841	.59981	.73712	.41547	.69787	263.56	.62410
#1	9.6252	.48595	.96758	50.362	.49151	20.698	.49382
#2	9.6576	.48721	.96279	50.775	.48993	-8.2461	.49061
#3	9.6621	.48167	.97685	50.499	.49652	4.0810	.49678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 20:56:57 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **34.003**	**9.9900**	F **6.2123**	**1.1849**	**.38820**	**5.0025**	**.97608**
Stddev	.971	.0435	1.0754	.0075	.00178	.1708	.00512
%RSD	2.8557	.43563	17.312	.63111	.45754	3.4137	.52470
#1	33.077	9.9565	7.4039	1.1881	.38664	5.1257	.97487
#2	35.013	9.9744	5.9194	1.1763	.38782	4.8075	.97168
#3	33.919	10.039	5.3136	1.1902	.39013	5.0742	.98171
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0032**	**.98182**	**.50162**	**.98100**	**.97467**	F **1.4161**
Stddev	.0037	.00310	.00279	.00722	.00528	.0548
%RSD	.36780	.31533	.55527	.73558	.54222	3.8689
#1	.99974	.97824	.50099	.98931	.97311	1.4444
#2	1.0071	.98355	.49920	.97633	.97034	1.3529
#3	1.0027	.98366	.50467	.97736	.98056	1.4509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50626.**	**58177.**
Stddev	216.	19.
%RSD	.42648	.03346
#1	50716.	58170.
#2	50783.	58199.
#3	50380.	58162.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 21:00:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00218**	**.00033**	**.00111**	**-.00024**	**.00002**	**.00303**
Stddev	.00025	.00403	.00088	.00025	.00003	.00002	.00364
%RSD	60.364	184.96	267.58	22.713	14.122	126.22	120.33
#1	.00060	.00582	-.00034	.00128	-.00023	.00004	.00548
#2	.00052	.00287	.00000	.00123	-.00021	.00000	.00476
#3	.00013	-.00215	.00133	.00082	-.00028	.00001	-.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00002**	**-.00004**	**-.00052**	**.00702**	**.07870**	**-.00288**
Stddev	.00002	.00017	.00005	.00020	.00078	.01379	.00027
%RSD	97.910	840.35	129.40	38.794	11.177	17.516	9.5274
#1	.00004	-.00009	.00000	-.00075	.00715	.09222	-.00259
#2	.00002	.00017	-.00009	-.00038	.00618	.07922	-.00290
#3	.00000	-.00014	-.00002	-.00042	.00773	.06467	-.00314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**-.00012**	**.00008**	**.01634**	**-.00001**	F **-1.2862**	**-.00061**
Stddev	.00780	.00042	.00013	.00616	.00024	7.2508	.00069
%RSD	414.23	355.68	160.19	37.684	1626.3	563.73	112.08
#1	.01050	.00035	.00012	.02230	-.00016	-8.1062	.00018
#2	-.00470	-.00047	-.00007	.01000	-.00014	6.3297	-.00097
#3	-.00016	-.00023	.00019	.01672	.00026	-2.0822	-.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 21:00:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **26.656**	F **.01831**	F **-3.1606**	**-.00228**	**-.00158**	**-.31716**	**.00000**
Stddev	5.214	.00836	2.1843	.00112	.00089	.07895	.0002
%RSD	19.561	45.639	69.111	49.329	55.989	24.893	17561.
#1	28.156	.02372	-5.0262	-.00267	-.00216	-.26713	-.00025
#2	20.856	.00869	-.75779	-.00316	-.00056	-.27618	.00003
#3	30.956	.02253	-3.6978	-.00101	-.00203	-.40818	.00022
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00144**	**-.00027**	**-.00025**	**.00014**	**.07111**
Stddev	.00006	.00043	.00102	.00011	.00024	.23019
%RSD	160.06	29.653	373.50	44.176	168.59	323.72
#1	.00003	.00166	-.00041	-.00037	.00025	.10315
#2	-.00009	.00095	.00081	-.00022	-.00013	.28360
#3	-.00005	.00171	-.00122	-.00015	.00031	-.17343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50861.**	**58929.**
Stddev	177.	303.
%RSD	.34732	.51429
#1	51059.	58278.
#2	50718.	58740.
#3	50806.	58768.

Approved: March 29, 2011

Sample Name: L1103068624 Acquired: 3/28/2011 21:04:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00536**	**116.43**	**.13125**	**.16099**	**1.6445**	**.01441**	**61.837**
Stddev	.00061	1.01	.00175	.00112	.0043	.00013	.145
%RSD	11.443	.86529	1.3327	.69505	.26350	.93568	.23394
#1	.00465	115.28	.12929	.16198	1.6491	.01448	61.875
#2	.00576	116.92	.13180	.16122	1.6405	.01425	61.959
#3	.00566	117.11	.13265	.15977	1.6440	.01449	61.677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00708**	**.15204**	**.49477**	**.14427**	**318.60**	**7.7968**	**.04991**
Stddev	.00004	.00048	.00469	.00105	.86	.0352	.00093
%RSD	.60013	.31306	.94702	.72752	.27118	.45101	1.8703
#1	.00706	.15149	.49951	.14306	319.54	7.8204	.05045
#2	.00712	.15237	.49015	.14482	318.42	7.8137	.05046
#3	.00704	.15225	.49465	.14493	317.84	7.7564	.04884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.323**	**10.008**	**.01642**	**.64027**	**.10288**	F **29227.**	**.45493**
Stddev	.073	.020	.00009	.00465	.00045	200.	.00169
%RSD	.50800	.20369	.55742	.72625	.43580	.68404	.37088
#1	14.386	10.013	.01649	.63564	.10279	29081.	.45323
#2	14.339	10.025	.01631	.64494	.10337	29146.	.45497
#3	14.244	9.9852	.01645	.64022	.10249	29455.	.45660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068624 Acquired: 3/28/2011 21:04:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **66.775**	F **205.24**	F **-27660.**	**.00414**	**.01420**	F **510.73**	**.01103**
Stddev	1.772	1.12	120.	.00049	.00133	2.41	.00033
%RSD	2.6542	.54630	.43371	11.854	9.3496	.47195	2.9527
#1	66.718	204.01	-27528.	.00426	.01267	508.19	.01068
#2	68.575	205.49	-27690.	.00360	.01488	511.03	.01108
#3	65.032	206.21	-27762.	.00456	.01506	512.98	.01132
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38435**	**.22271**	**.01379**	**.60003**	**.86614**	F **174.80**
Stddev	.00063	.00068	.00165	.00072	.00291	.58
%RSD	.16383	.30611	11.948	.12002	.33639	.33165
#1	.38477	.22203	.01569	.60035	.86284	174.88
#2	.38466	.22339	.01279	.59921	.86724	174.19
#3	.38363	.22271	.01288	.60054	.86835	175.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49246.**	**60834.**
Stddev	137.	439.
%RSD	.27856	.72226
#1	49346.	60441.
#2	49302.	60753.
#3	49089.	61308.

Approved: March 29, 2011

Sample Name: L1103068625 Acquired: 3/28/2011 21:07:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00571**	**102.74**	**.10319**	**.13335**	**1.6757**	**.01166**	**46.953**
Stddev	.00027	2.01	.00140	.00202	.0221	.00012	.541
%RSD	4.7016	1.9522	1.3539	1.5125	1.3204	.99384	1.1523
#1	.00600	104.82	.10473	.13413	1.6754	.01158	46.941
#2	.00547	102.57	.10285	.13106	1.6537	.01179	46.418
#3	.00565	100.82	.10200	.13486	1.6980	.01160	47.500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00584**	**.24172**	**.24321**	**.11352**	**265.86**	**5.4513**	**.04945**
Stddev	.00013	.00315	.00180	.00188	2.54	.0644	.00044
%RSD	2.1580	1.3014	.73858	1.6529	.95495	1.1811	.88214
#1	.00586	.24472	.24229	.11564	265.32	5.4257	.04894
#2	.00596	.24198	.24528	.11287	263.64	5.4036	.04969
#3	.00571	.23845	.24207	.11206	268.63	5.5245	.04971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.141**	**13.463**	**.01260**	**.69330**	**.08872**	F **18149.**	**.39716**
Stddev	.087	.132	.00012	.01003	.00177	240.	.00535
%RSD	.78280	.97947	.95896	1.4468	1.9894	1.3201	1.3465
#1	11.069	13.457	.01248	.68906	.09058	18391.	.40276
#2	11.117	13.334	.01273	.68608	.08852	18144.	.39661
#3	11.238	13.598	.01260	.70475	.08707	17912.	.39210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068625 Acquired: 3/28/2011 21:07:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **65.967**	F **152.54**	F **-19993.**	**.00286**	**.01568**	F **515.64**	**.00952**
Stddev	6.669	2.04	278.	.00078	.00136	7.23	.00030
%RSD	10.109	1.3374	1.3893	27.370	8.6800	1.4025	3.1163
#1	63.668	154.39	-20299.	.00273	.01411	523.48	.00918
#2	60.753	152.89	-19921.	.00370	.01643	514.21	.00963
#3	73.481	150.35	-19757.	.00215	.01649	509.23	.00975
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31843**	**.23242**	**.00920**	**.50522**	**.54322**	F **186.57**
Stddev	.00357	.00194	.00210	.00318	.01109	.49
%RSD	1.1208	.83255	22.782	.62851	2.0408	.26348
#1	.31834	.23217	.00827	.50462	.55507	186.94
#2	.31490	.23063	.01160	.50865	.54149	186.75
#3	.32204	.23447	.00773	.50238	.53310	186.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48358.**	**59247.**
Stddev	586.	199.
%RSD	1.2109	.33634
#1	47798.	59020.
#2	48309.	59395.
#3	48966.	59325.

Approved: March 29, 2011

Sample Name: L1103068626 Acquired: 3/28/2011 21:11:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**45.320**	**.04689**	**.07202**	**.65601**	**.00333**	F **4508.6**
Stddev	.00027	.573	.00173	.00089	.00972	.00005	473.8
%RSD	55.392	1.2650	3.6938	1.2346	1.4819	1.4551	10.508
#1	.00034	45.037	.04607	.07292	.66398	.00328	4795.8
#2	.00080	45.980	.04888	.07114	.64518	.00337	3961.7
#3	.00032	44.944	.04572	.07201	.65887	.00334	4768.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00866**	**.05203**	**.09330**	**.12609**	**126.18**	**5.4069**	**.31853**
Stddev	.00018	.00106	.00120	.00217	1.78	.0810	.00681
%RSD	2.1035	2.0324	1.2876	1.7192	1.4085	1.4984	2.1395
#1	.00852	.05113	.09264	.12403	127.40	5.4539	.32474
#2	.00887	.05319	.09469	.12835	124.14	5.3133	.31124
#3	.00860	.05175	.09258	.12587	127.00	5.4535	.31960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**176.91**	**6.2852**	**.00955**	**2.3182**	**.14494**	F **32279.**	**.15140**
Stddev	2.65	.1059	.00015	.0437	.00230	572.	.00200
%RSD	1.4966	1.6842	1.5226	1.8847	1.5873	1.7712	1.3214
#1	178.41	6.3641	.00944	2.3590	.14232	31829.	.15179
#2	173.86	6.1649	.00971	2.2721	.14663	32923.	.15317
#3	178.47	6.3266	.00949	2.3235	.14586	32086.	.14923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068626 Acquired: 3/28/2011 21:11:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **50.852**	F **5639.6**	F **-53281.**	**.00535**	**.01701**	F **838.26**	**.00372**
Stddev	4.811	95.5	904.	.00378	.00232	15.96	.00023
%RSD	9.4608	1.6925	1.6968	70.792	13.666	1.9041	6.1767
#1	48.975	5556.4	-52533.	.00333	.01818	826.96	.00389
#2	56.319	5743.8	-54286.	.00971	.01853	856.51	.00346
#3	47.263	5618.6	-53026.	.00299	.01434	831.29	.00383
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **24.891**	**.12778**	**-.00063**	**.15831**	**.59857**	F **94.295**
Stddev	.092	.00148	.00094	.00225	.00911	1.182
%RSD	.36855	1.1577	149.29	1.4212	1.5227	1.2531
#1	24.877	.12904	-.00014	.15642	.58919	93.287
#2	24.807	.12615	-.00170	.16080	.60739	95.595
#3	24.989	.12816	-.00003	.15770	.59914	94.003
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	4.5000					45.000
Low Limit	-.01000					-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**39953.**	**54153.**
Stddev	493.	597.
%RSD	1.2332	1.1032
#1	40323.	53631.
#2	39394.	54804.
#3	40141.	54023.

Approved: March 29, 2011

Sample Name: L1103068627 Acquired: 3/28/2011 21:15:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00543**	**101.44**	**.10986**	**.14341**	**1.5735**	**.01238**	**98.079**
Stddev	.00026	1.16	.00153	.00049	.0035	.00010	.491
%RSD	4.7246	1.1414	1.3937	.34439	.22510	.81802	.50100
#1	.00523	100.22	.10815	.14398	1.5775	.01226	98.639
#2	.00534	102.52	.11033	.14306	1.5708	.01243	97.882
#3	.00572	101.56	.11110	.14320	1.5721	.01244	97.717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00707**	**.15756**	**.26167**	**.10925**	**290.46**	**4.4954**	**.04864**
Stddev	.00006	.00106	.00238	.00065	.79	.0082	.00034
%RSD	.82357	.67355	.90900	.59579	.27073	.18176	.70470
#1	.00704	.15647	.25893	.10876	291.29	4.5004	.04853
#2	.00714	.15762	.26282	.10900	290.35	4.4859	.04903
#3	.00704	.15859	.26326	.10999	289.73	4.4997	.04837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.174**	**7.8720**	**.01273**	**3.8361**	**.09227**	F **15383.**	**.43151**
Stddev	.013	.0414	.00018	.0070	.00135	130.	.00473
%RSD	.09734	.52608	1.4279	.18352	1.4624	.84284	1.0967
#1	13.167	7.9093	.01258	3.8440	.09165	15253.	.42687
#2	13.166	7.8793	.01268	3.8303	.09134	15386.	.43132
#3	13.189	7.8274	.01293	3.8340	.09381	15512.	.43633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068627 Acquired: 3/28/2011 21:15:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.214**	F **213.22**	F **-22274.**	**.00259**	**.01142**	F **581.68**	**.00994**
Stddev	3.130	.89	176.	.00175	.00238	3.39	.00011
%RSD	4.5891	.41741	.79005	67.698	20.856	.58236	1.1227
#1	65.210	212.23	-22089.	.00062	.01397	578.40	.01000
#2	67.973	213.47	-22291.	.00317	.01104	581.48	.00981
#3	71.457	213.96	-22440.	.00397	.00925	585.17	.01000
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.59041**	**.24616**	**.01131**	**.52826**	**.64477**	F **201.46**
Stddev	.00094	.00072	.00058	.00630	.00439	2.32
%RSD	.15975	.29069	5.1103	1.1919	.68129	1.1527
#1	.59144	.24619	.01162	.52104	.63975	198.92
#2	.59019	.24543	.01065	.53113	.64667	201.97
#3	.58959	.24686	.01167	.53261	.64789	203.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48476.**	**60684.**
Stddev	223.	575.
%RSD	.46009	.94698
#1	48728.	60043.
#2	48396.	60854.
#3	48304.	61154.

Approved: March 29, 2011

Sample Name: L1103068628 Acquired: 3/28/2011 21:18:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00413**	**81.925**	**.09076**	**.10956**	**1.1009**	**.01032**	**187.48**
Stddev	.00045	.515	.00179	.00118	.0040	.00010	.34
%RSD	10.871	.62848	1.9742	1.0763	.36556	.94567	.18322
#1	.00462	81.372	.08869	.10893	1.0999	.01029	187.09
#2	.00404	82.013	.09192	.11092	1.0974	.01025	187.63
#3	.00374	82.391	.09166	.10882	1.1053	.01043	187.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00616**	**.11356**	**.21243**	**.08068**	**213.32**	**4.5906**	**.04341**
Stddev	.00007	.00132	.00215	.00209	.34	.0096	.00025
%RSD	1.1710	1.1599	1.0143	2.5938	.16057	.20886	.56690
#1	.00614	.11245	.21054	.07886	212.99	4.5856	.04338
#2	.00609	.11321	.21197	.08023	213.29	4.5845	.04319
#3	.00624	.11502	.21478	.08297	213.67	4.6017	.04367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.230**	**7.5473**	**.01205**	**2.2583**	**.07467**	F **13845.**	**.34482**
Stddev	.028	.0260	.00012	.0020	.00105	198.	.00402
%RSD	.19983	.34479	1.0306	.08909	1.4110	1.4284	1.1673
#1	14.199	7.5173	.01216	2.2561	.07378	13695.	.34206
#2	14.255	7.5619	.01191	2.2601	.07440	13771.	.34295
#3	14.235	7.5627	.01208	2.2587	.07583	14069.	.34943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068628 Acquired: 3/28/2011 21:18:38 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.300**	F **255.69**	F **-15286.**	**.00455**	**.01171**	F **503.82**	**.00813**
Stddev	2.415	3.99	117.	.00036	.00046	5.93	.00018
%RSD	3.9398	1.5606	.76241	7.9438	3.9082	1.1769	2.1937
#1	62.125	251.49	-15231.	.00496	.01214	500.24	.00794
#2	58.580	256.14	-15207.	.00441	.01176	500.56	.00830
#3	63.194	259.44	-15420.	.00428	.01123	510.67	.00815
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.83098**	**.22474**	**.00888**	**.43159**	**.49198**	F **169.42**
Stddev	.00193	.00070	.00170	.00325	.00565	1.38
%RSD	.23215	.31263	19.129	.75385	1.1486	.81390
#1	.82883	.22516	.01026	.42939	.48674	167.85
#2	.83155	.22393	.00939	.43004	.49123	169.98
#3	.83256	.22513	.00698	.43532	.49797	170.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48211.**	**59810.**
Stddev	295.	401.
%RSD	.61176	.67087
#1	48529.	59715.
#2	48157.	59466.
#3	47947.	60251.

Approved: March 29, 2011

Sample Name: L1103068629 Acquired: 3/28/2011 21:22:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**102.45**	**.10020**	**.13138**	**1.5187**	**.01183**	**82.254**
Stddev	.00044	1.40	.00123	.00098	.0135	.00008	.868
%RSD	10.063	1.3702	1.2307	.74843	.88591	.69889	1.0551
#1	.00386	102.06	.10111	.13128	1.5044	.01178	81.304
#2	.00470	104.01	.09880	.13045	1.5205	.01193	82.451
#3	.00448	101.28	.10070	.13240	1.5312	.01179	83.006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00644**	**.10062**	**.56524**	**.13289**	**246.84**	**7.7308**	**.04713**
Stddev	.00009	.00027	.00273	.00105	2.54	.0478	.00072
%RSD	1.3575	.27161	.48333	.79175	1.0309	.61872	1.5330
#1	.00634	.10062	.56239	.13370	244.68	7.6767	.04632
#2	.00649	.10089	.56784	.13328	246.19	7.7484	.04733
#3	.00648	.10035	.56550	.13170	249.65	7.7674	.04772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.044**	**6.4309**	**.01149**	**.63592**	**.09330**	F **33309.**	**.34574**
Stddev	.102	.0807	.00010	.00438	.00075	63.	.00077
%RSD	.78320	1.2551	.87432	.68892	.80723	.18926	.22378
#1	12.982	6.3538	.01157	.63103	.09368	33240.	.34658
#2	12.988	6.4242	.01151	.63948	.09379	33363.	.34506
#3	13.162	6.5148	.01137	.63726	.09243	33323.	.34559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068629 Acquired: 3/28/2011 21:22:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **59.861**	F **239.38**	F **-29969.**	**.00561**	**.01410**	F **488.41**	**.01011**
Stddev	8.557	1.22	206.	.00256	.00258	1.57	.00018
%RSD	14.295	.50821	.68761	45.678	18.287	.32094	1.8190
#1	66.490	239.10	-29732.	.00830	.01246	487.03	.01032
#2	62.894	240.71	-30107.	.00534	.01707	490.11	.01004
#3	50.201	238.32	-30069.	.00319	.01276	488.08	.00997
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47868**	**.20064**	**.01053**	**.45462**	**.99826**	F **156.51**
Stddev	.00495	.00217	.00111	.00366	.00107	.81
%RSD	1.0351	1.0813	10.533	.80468	.10726	.51553
#1	.47304	.19830	.01084	.45105	.99903	155.92
#2	.48069	.20103	.01145	.45836	.99704	157.43
#3	.48231	.20259	.00930	.45446	.99871	156.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48833.**	**60050.**
Stddev	110.	432.
%RSD	.22522	.71958
#1	48819.	60197.
#2	48730.	60389.
#3	48949.	59563.

Approved: March 29, 2011

Sample Name: L1103068630 Acquired: 3/28/2011 21:25:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00344**	**97.129**	**.09746**	**.13767**	**1.2484**	**.01069**	**69.463**
Stddev	.00071	.872	.00147	.00080	.0114	.00013	.554
%RSD	20.547	.89791	1.5101	.58368	.91217	1.2487	.79706
#1	.00263	96.133	.09885	.13820	1.2549	.01053	69.648
#2	.00388	97.493	.09592	.13806	1.2550	.01076	69.900
#3	.00382	97.759	.09761	.13674	1.2353	.01076	68.840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00666**	**.08674**	**.23777**	**.11635**	**230.38**	**5.7398**	**.05359**
Stddev	.00000	.00052	.00249	.00101	1.42	.0474	.00111
%RSD	.04062	.60258	1.0479	.86927	.61589	.82602	2.0730
#1	.00666	.08623	.23537	.11525	230.54	5.7661	.05399
#2	.00666	.08673	.23759	.11655	231.71	5.7682	.05445
#3	.00665	.08727	.24034	.11724	228.89	5.6851	.05234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.312**	**4.6700**	**.00999**	**1.4062**	**.08411**	F **27319.**	**.31076**
Stddev	.047	.0267	.00009	.0087	.00095	322.	.00051
%RSD	.41857	.57224	.89097	.61922	1.1344	1.1804	.16552
#1	11.262	4.6617	.01001	1.4099	.08342	26956.	.31032
#2	11.356	4.6999	.00989	1.4125	.08371	27429.	.31064
#3	11.320	4.6485	.01007	1.3963	.08520	27571.	.31133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068630 Acquired: 3/28/2011 21:25:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **70.231**	F **249.48**	F **-33465.**	**.00309**	**.01245**	F **559.85**	**.01331**
Stddev	5.563	2.01	159.	.00074	.00167	4.22	.00031
%RSD	7.9204	.80617	.47464	24.067	13.452	.75460	2.3295
#1	75.571	248.55	-33335.	.00383	.01159	555.73	.01300
#2	70.652	248.10	-33419.	.00234	.01138	559.66	.01362
#3	64.470	251.79	-33642.	.00311	.01438	564.17	.01332
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42650**	**.21092**	**.00906**	**.43788**	**.61874**	F **161.60**
Stddev	.00335	.00250	.00128	.00375	.00156	1.42
%RSD	.78443	1.1842	14.108	.85636	.25148	.87969
#1	.42801	.21207	.00765	.43395	.61991	160.44
#2	.42882	.21264	.01014	.43827	.61697	161.17
#3	.42267	.20806	.00938	.44142	.61933	163.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48984.**	**61242.**
Stddev	119.	291.
%RSD	.24226	.47449
#1	49089.	61413.
#2	49007.	60906.
#3	48855.	61407.

Approved: March 29, 2011

Sample Name: L1103068631 Acquired: 3/28/2011 21:29:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00634**	**87.937**	**.11919**	**.13382**	**1.7296**	**.01082**	**37.652**
Stddev	.00076	1.073	.00148	.01047	.1079	.00002	2.268
%RSD	12.032	1.2200	1.2417	7.8237	6.2383	.16890	6.0230
#1	.00716	87.830	.12088	.12649	1.6595	.01084	36.074
#2	.00566	86.921	.11813	.12916	1.6754	.01081	36.631
#3	.00619	89.059	.11856	.14581	1.8538	.01081	40.251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00540**	**.17016**	**.28699**	**.09646**	**268.63**	**6.8527**	**.03754**
Stddev	.00013	.00123	.00143	.00237	17.14	.4111	.00183
%RSD	2.4525	.72440	.49840	2.4522	6.3785	5.9997	4.8615
#1	.00532	.17105	.28864	.09844	256.59	6.5551	.03599
#2	.00533	.17067	.28628	.09710	261.06	6.6812	.03708
#3	.00555	.16875	.28606	.09384	288.25	7.3218	.03955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3896**	**12.679**	**.01414**	**1.5260**	**.07759**	F **44855.**	**.36085**
Stddev	.6220	.771	.00029	.0946	.00082	225.	.00209
%RSD	6.6249	6.0833	2.0683	6.2011	1.0579	.50140	.57925
#1	8.9425	12.126	.01402	1.4615	.07702	45050.	.36299
#2	9.1263	12.352	.01393	1.4819	.07853	44906.	.36075
#3	10.100	13.560	.01448	1.6347	.07721	44609.	.35882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068631 Acquired: 3/28/2011 21:29:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **52.508**	F **206.88**	F **-31690.**	**.00058**	**.02154**	F **472.22**	**.00879**
Stddev	4.959	2.59	145.	.00266	.00034	2.37	.00034
%RSD	9.4442	1.2515	.45790	462.24	1.5951	.50109	3.8442
#1	58.088	208.91	-31829.	.00263	.02188	474.03	.00844
#2	50.836	207.77	-31701.	.00153	.02154	473.08	.00882
#3	48.602	203.97	-31539.	-.00243	.02120	469.54	.00912
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21612**	**.30275**	**.01059**	**.57091**	**.78019**	F **156.34**
Stddev	.01276	.02286	.00099	.00132	.00132	.51
%RSD	5.9051	7.5507	9.3165	.23065	.16909	.32922
#1	.20754	.28685	.00955	.57008	.78155	155.75
#2	.21004	.29245	.01069	.57022	.78011	156.60
#3	.23078	.32895	.01152	.57243	.77891	156.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49588.**	**60233.**
Stddev	219.	2400.
%RSD	.44208	3.9845
#1	49389.	62141.
#2	49553.	61018.
#3	49823.	57538.

Approved: March 29, 2011

Sample Name: L1103068632S Acquired: 3/28/2011 21:33:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18833**	**85.801**	**.28731**	**.13919**	**1.7770**	**.01118**	**40.425**
Stddev	.00106	1.251	.00255	.00178	.0258	.00007	.553
%RSD	.56107	1.4584	.88738	1.2799	1.4539	.64495	1.3678
#1	.18843	86.841	.28817	.13831	1.7766	.01117	40.365
#2	.18933	84.412	.28444	.14124	1.8031	.01111	41.005
#3	.18722	86.150	.28931	.13801	1.7514	.01126	39.904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02799**	**.42560**	**.24844**	**.32780**	**279.68**	**6.9017**	**.03600**
Stddev	.00007	.00260	.00215	.00173	3.59	.0757	.00131
%RSD	.26235	.61117	.86354	.52848	1.2835	1.0967	3.6307
#1	.02806	.42710	.24846	.32829	279.40	6.8822	.03499
#2	.02792	.42260	.24629	.32588	283.40	6.9852	.03748
#3	.02799	.42712	.25058	.32924	276.23	6.8376	.03553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6672**	**22.831**	**.01624**	**1.5874**	**.10117**	F **54114.**	**.65852**
Stddev	.0732	.291	.00019	.0200	.00057	284.	.00333
%RSD	.75714	1.2731	1.1812	1.2598	.56614	.52441	.50640
#1	9.6544	22.773	.01615	1.5820	.10101	54165.	.65583
#2	9.7460	23.146	.01610	1.6096	.10069	53809.	.65747
#3	9.6013	22.573	.01646	1.5707	.10180	54370.	.66225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068632S Acquired: 3/28/2011 21:33:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **62.125**	F **224.23**	F **-34424.**	**.00134**	**.02373**	F **525.09**	**.00885**
Stddev	3.869	1.60	108.	.00056	.00224	2.50	.00019
%RSD	6.2269	.71173	.31407	41.520	9.4249	.47628	2.0936
#1	58.450	224.63	-34452.	.00086	.02492	524.92	.00884
#2	66.162	222.47	-34305.	.00195	.02512	522.69	.00904
#3	61.765	225.58	-34516.	.00121	.02115	527.68	.00867
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23198**	**.31766**	**.01009**	**.56013**	**.86429**	F **151.80**
Stddev	.00316	.00521	.00058	.00197	.00299	.47
%RSD	1.3606	1.6388	5.7515	.35157	.34649	.31051
#1	.23136	.31685	.00980	.56031	.86696	151.64
#2	.23540	.32323	.00971	.55807	.86105	151.44
#3	.22918	.31291	.01076	.56199	.86485	152.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49859.**	**61064.**
Stddev	141.	356.
%RSD	.28210	.58264
#1	49796.	60933.
#2	50020.	60792.
#3	49761.	61467.

Approved: March 29, 2011

Sample Name: L1103068633SD Acquired: 3/28/2011 21:36:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17892**	**88.121**	**.27413**	**.12065**	**1.3212**	**.00977**	**36.221**
Stddev	.00324	.614	.00417	.00208	.0037	.00009	.175
%RSD	1.8086	.69649	1.5196	1.7273	.28193	.94087	.48331
#1	.18213	88.168	.27693	.11927	1.3180	.00984	36.078
#2	.17897	87.486	.27611	.11963	1.3203	.00980	36.169
#3	.17566	88.711	.26934	.12305	1.3253	.00966	36.416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02739**	**.07939**	**.26427**	**.31482**	**239.53**	**6.8579**	**.03666**
Stddev	.00020	.00121	.00464	.00434	2.29	.0193	.00135
%RSD	.73944	1.5278	1.7560	1.3783	.95410	.28183	3.6753
#1	.02754	.08034	.26789	.31741	238.04	6.8357	.03563
#2	.02748	.07980	.26589	.31724	238.38	6.8668	.03615
#3	.02716	.07802	.25904	.30981	242.16	6.8711	.03818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6239**	**4.5906**	**.01319**	**1.4980**	**.07085**	F **41909.**	**.49266**
Stddev	.1490	.0476	.00034	.0024	.00050	514.	.00479
%RSD	1.5478	1.0369	2.5938	.16347	.70303	1.2269	.97161
#1	9.4993	4.5529	.01344	1.5007	.07093	42353.	.49640
#2	9.5835	4.5747	.01333	1.4959	.07130	42027.	.49432
#3	9.7889	4.6441	.01280	1.4975	.07032	41346.	.48727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 29, 2011

Sample Name: L1103068633SD Acquired: 3/28/2011 21:36:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **67.157**	F **200.23**	F **-30564.**	**.00131**	**.01681**	F **551.15**	**.00876**
Stddev	8.624	2.94	401.	.00135	.00083	7.66	.00030
%RSD	12.842	1.4672	1.3107	103.19	4.9489	1.3891	3.4745
#1	63.833	202.63	-30966.	.00273	.01715	558.66	.00874
#2	76.949	201.11	-30561.	.00116	.01742	551.43	.00847
#3	60.690	196.96	-30165.	.00004	.01586	543.36	.00908
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	9.0000	9.0000	9.0000			90.000	
Low Limit	-.00400	-.00400	-.00400			-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21222**	**.33464**	**.01175**	**.50656**	**.73201**	F **158.40**
Stddev	.00036	.00192	.00161	.00720	.00689	1.79
%RSD	.16841	.57503	13.733	1.4223	.94123	1.1319
#1	.21206	.33337	.01322	.51371	.73630	160.02
#2	.21198	.33370	.01200	.50667	.73566	158.70
#3	.21263	.33686	.01002	.49930	.72406	156.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						45.000
Low Limit						-.00400

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50191.**	**60818.**
Stddev	492.	738.
%RSD	.98055	1.2137
#1	49752.	61024.
#2	50097.	61431.
#3	50723.	59999.

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 21:40:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .35393	F 8.7472	F .35497	F .43710	.90722	F .04414	F 8.9894
Stddev	.00352	.0624	.00223	.00459	.01110	.00024	.1464
%RSD	.99539	.71304	.62961	1.0490	1.2233	.54588	1.6281
#1	.35635	8.7740	.35627	.44025	.91708	.04429	9.1333
#2	.35555	8.7917	.35239	.43921	.89520	.04426	8.8407
#3	.34989	8.6759	.35626	.43184	.90937	.04386	8.9943
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail
Value	.40000	10.000	.40000	.50000		.05000	10.000
Range	-10.000%	-10.000%	-10.000%	-10.000%		-10.000%	-10.000%

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .04423	F .17999	F .44799	F .44835	F 3.4981	F 44.529	F .89009
Stddev	.00030	.00099	.00244	.00264	.0497	.614	.01051
%RSD	.67558	.54794	.54489	.58993	1.4219	1.3781	1.1810
#1	.04455	.18106	.44796	.45135	3.5412	45.099	.89926
#2	.04397	.17911	.45045	.44636	3.4437	43.879	.87862
#3	.04417	.17979	.44556	.44734	3.5094	44.608	.89240
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.05000	.20000	.50000	.50000	4.0000	50.000	1.0000
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 8.8557	F .43514	F .87964	45.186	F .44847	10.654	.45111
Stddev	.1198	.00608	.00611	.685	.00271	9.016	.00164
%RSD	1.3524	1.3965	.69428	1.5165	.60393	84.634	.36298
#1	8.9563	.44085	.88669	45.815	.45156	6.7823	.45297
#2	8.7232	.42875	.87620	44.456	.44648	20.959	.44989
#3	8.8876	.43581	.87602	45.287	.44738	4.2192	.45047
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value	10.000	.50000	1.0000		.50000		
Range	-10.000%	-10.000%	-10.000%		-10.000%		

Approved: March 29, 2011

Sample Name: CCV Acquired: 3/28/2011 21:40:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.775**	**9.1066**	F **5.6585**	F **1.0602**	F **.34783**	F **4.2240**	F **.89798**
Stddev	5.698	.0394	4.9445	.0088	.00279	.2658	.00632
%RSD	23.968	.43219	87.381	.83004	.80071	6.2919	.70425
#1	21.516	9.1458	.12232	1.0683	.35075	4.4247	.90316
#2	19.553	9.0671	9.6353	1.0508	.34521	3.9226	.89094
#3	30.257	9.1071	7.2180	1.0616	.34752	4.3249	.89985
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	10.000		10.000	1.2000	.40000	5.0000	1.0000
Range	10.000%		-10.000%	-10.000%	-10.000%	-10.000%	-10.000%

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.89208**	F **.87776**	**.45159**	F **.89111**	F **.89885**	**.93341**
Stddev	.01305	.01088	.00340	.00715	.00537	.12821
%RSD	1.4626	1.2391	.75322	.80189	.59793	13.736
#1	.90419	.88725	.45468	.89490	.90492	.79405
#2	.87826	.86589	.44794	.89556	.89468	.95982
#3	.89380	.88013	.45214	.88286	.89696	1.0464
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
Value	1.0000	1.0000		1.0000	1.0000	
Range	-10.000%	-10.000%		-10.000%	-10.000%	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**54401.**	**60349.**
Stddev	128.	758.
%RSD	.23530	1.2552
#1	54270.	59501.
#2	54526.	60959.
#3	54407.	60587.

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 21:43:43 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00478**	**-.00051**	**.00057**	**-.00039**	**.00002**	**-.00376**
Stddev	.00090	.00249	.00089	.00015	.00011	.00001	.00605
%RSD	1985.9	52.192	174.94	25.810	28.960	59.022	160.71
#1	-.00055	-.00293	-.00083	.00057	-.00041	.00003	-.00460
#2	-.00040	-.00380	.00050	.00071	-.00048	.00001	.00266
#3	.00108	-.00762	-.00119	.00042	-.00026	.00003	-.00935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00003**	**-.00021**	**-.00058**	**.00098**	**.05101**	**-.00146**
Stddev	.00003	.00003	.00036	.00058	.00133	.01419	.00122
%RSD	45.375	105.35	168.26	100.80	135.75	27.825	83.584
#1	-.00006	-.00003	-.00062	-.00044	.00193	.04745	-.00239
#2	-.00011	.00000	.00006	-.00008	-.00054	.06665	-.00190
#3	-.00005	-.00006	-.00008	-.00122	.00154	.03894	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00254**	**-.00032**	**.00002**	**.00995**	**.00010**	F **5.5321**	**-.00035**
Stddev	.00870	.00016	.00015	.00387	.00015	17.656	.00107
%RSD	343.09	49.206	973.67	38.893	145.32	319.16	308.29
#1	-.01171	-.00016	-.00015	.00548	.00001	21.833	.00037
#2	-.00149	-.00034	.00016	.01207	.00028	-13.222	.00017
#3	.00559	-.00047	.00004	.01229	.00002	7.9854	-.00157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						.01000	
Low Limit						-.01000	

Approved: March 29, 2011

Sample Name: CCB Acquired: 3/28/2011 21:43:43 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1305) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **27.152**	**.00498**	F **-11.008**	**-.00102**	**-.00050**	**-.39359**	**.00002**
Stddev	5.864	.02731	4.082	.00027	.00202	.21162	.00013
%RSD	21.597	548.59	37.083	26.397	406.05	53.767	574.43
#1	33.162	-.02522	-11.383	-.00071	-.00254	-.30356	.00015
#2	26.847	.02795	-14.889	-.00121	.00150	-.24187	-.00011
#3	21.446	.01221	-6.7512	-.00115	-.00045	-.63534	.00002
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000		.01000				
Low Limit	-.01000		-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00082**	**.00005**	**-.00013**	**.00011**	**.04700**
Stddev	.00007	.00017	.00104	.00029	.00095	.12793
%RSD	46.185	20.407	2060.0	226.79	888.99	272.18
#1	-.00008	.00101	.00121	.00003	.00009	-.09472
#2	-.00022	.00068	-.00026	.00005	.00107	.15396
#3	-.00016	.00078	-.00080	-.00046	-.00084	.08176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**53142.**	**59641.**
Stddev	539.	388.
%RSD	1.0134	.65055
#1	53158.	59268.
#2	52596.	59613.
#3	53672.	60043.

Approved: March 29, 2011

Sample Name: S0 Acquired: 3/29/2011 11:00:24 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00030**	**.00929**	**-.00010**	**.00048**	**.00343**	**-.00138**	**-.00079**
Stddev	.00009	.00013	.00002	.00010	.00007	.00002	.00004
%RSD	30.841	1.3552	15.174	20.248	2.0577	1.3334	4.4235
#1	-.00040	.00926	-.00012	.00037	.00346	-.00137	-.00075
#2	-.00025	.00919	-.00009	.00053	.00335	-.00141	-.00080
#3	-.00023	.00943	-.00009	.00054	.00349	-.00137	-.00082

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00010**	**-.00011**	**.00064**	**.00014**	**.00002**	**-.00320**	**.00034**
Stddev	.00003	.00005	.00010	.00001	.00001	.00033	.00028
%RSD	27.748	46.964	15.517	9.6286	51.433	10.415	82.095
#1	.00011	-.00015	.00073	.00014	.00003	-.00293	.00066
#2	.00007	-.00012	.00053	.00013	.00004	-.00309	.00011
#3	.00011	-.00005	.00067	.00016	.00001	-.00357	.00026

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00004**	**.00015**	**.00003**	**-.00421**	**-.00012**	**.00006**	**-.00017**
Stddev	.00006	.00004	.00001	.00044	.00005	.00002	.00003
%RSD	130.54	23.912	24.134	10.504	38.695	25.704	17.517
#1	.00000	.00011	.00003	-.00406	-.00017	.00006	-.00017
#2	.00010	.00018	.00002	-.00470	-.00008	.00004	-.00020
#3	.00003	.00015	.00002	-.00385	-.00011	.00007	-.00014

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00197**	**.00023**	**.00021**	**.00005**	**-.00005**	**.00048**	**.00001**
Stddev	.00010	.00001	.00002	.00003	.00003	.00002	.00001
%RSD	5.1120	2.7788	8.0860	67.427	65.271	4.4196	85.993
#1	-.00185	.00022	.00020	.00002	-.00004	.00046	.00001
#2	-.00204	.00023	.00020	.00005	-.00009	.00048	.00002
#3	-.00201	.00023	.00023	.00008	-.00002	.00050	.00000

Approved: March 30, 2011

Sample Name: S0 Acquired: 3/29/2011 11:00:24 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00086**	**-.00055**	**-.00006**	**.00028**	**.00354**	**-.00115**
Stddev	.00006	.00012	.00001	.00010	.00059	.00013
%RSD	6.8556	21.689	21.136	37.273	16.780	11.560
#1	.00092	-.00060	-.00007	.00016	.00286	-.00130
#2	.00081	-.00042	-.00007	.00034	.00383	-.00105
#3	.00084	-.00064	-.00005	.00034	.00395	-.00109

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49202.**	**40037.**
Stddev	1213.	187.
%RSD	2.4651	.46601
#1	49921.	39967.
#2	49883.	39895.
#3	47802.	40248.

Approved: March 30, 2011

Sample Name: S1 Acquired: 3/29/2011 11:04:06 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	Ba4554	Be3131	Ca4226	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00046**	**.01756**	**.01675**	**.00089**	**.00157**	**.00024**	**.00029**
Stddev	.00017	.00007	.00034	.00003	.00009	.00001	.00003
%RSD	36.894	.37298	2.0271	3.1832	5.6806	2.9918	9.0911
#1	.00027	.01763	.01652	.00093	.00164	.00024	.00032
#2	.00052	.01753	.01714	.00089	.00160	.00025	.00027
#3	.00059	.01751	.01659	.00087	.00147	.00023	.00029

Elem	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00200**	**.00053**	**.00056**	**.00409**	**.00276**	**.00041**	**.00092**
Stddev	.00010	.00002	.00003	.00019	.00019	.00003	.00007
%RSD	4.7540	2.9473	5.0666	4.5810	6.8220	6.9810	8.1038
#1	.00199	.00052	.00057	.00423	.00271	.00041	.00087
#2	.00191	.00052	.00058	.00417	.00260	.00038	.00101
#3	.00210	.00055	.00053	.00388	.00297	.00044	.00088

Elem	Mo2020	Na5895	Ni2316	P_2149	Pb2203	Rb7800	S_1807
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00096**	**.01888**	**.00017**	**.00084**	**.00000**	**-.00203**	**.00025**
Stddev	.00001	.00031	.00001	.00002	.0000	.00042	.00001
%RSD	1.4579	1.6669	3.4071	2.1934	1727.5	20.519	3.7916
#1	.00097	.01909	.00018	.00084	.00002	-.00222	.00024
#2	.00096	.01852	.00017	.00087	.00001	-.00231	.00026
#3	.00095	.01903	.00016	.00083	-.00003	-.00155	.00025

Elem	S_1820	Sb2068	Si2124	Sn1899	Sr4077	Ti3372	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00020**	**.00026**	**.00144**	**.00050**	**.02094**	**.00055**	**.00514**
Stddev	.00001	.00001	.00001	.00000	.00003	.00008	.00006
%RSD	5.6701	3.5944	.88996	.42303	.14052	14.682	1.1451
#1	.00021	.00026	.00142	.00050	.02092	.00062	.00510
#2	.00019	.00027	.00145	.00050	.02093	.00046	.00521
#3	.00021	.00025	.00144	.00049	.02098	.00057	.00512

Approved: March 30, 2011

Sample Name: S1 Acquired: 3/29/2011 11:04:06 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062	Zr3391
Units	Cts/S	Cts/S
Avg	**.00538**	**.01161**
Stddev	.00001	.00010
%RSD	.27136	.85607
#1	.00537	.01150
#2	.00538	.01166
#3	.00540	.01167

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49927.**	**41965.**
Stddev	65.	776.
%RSD	.12941	1.8488
#1	49975.	41804.
#2	49854.	41282.
#3	49953.	42809.

Approved: March 30, 2011

Sample Name: S2 Acquired: 3/29/2011 11:07:45 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00136**	**.02538**	**.00005**	**.00180**	**.02946**	**.00300**	**.00378**
Stddev	.00012	.00034	.00001	.00003	.00032	.00001	.00010
%RSD	8.6175	1.3275	21.130	1.8225	1.0840	.45841	2.7059
#1	.00149	.02545	.00004	.00179	.02982	.00299	.00387
#2	.00132	.02502	.00004	.00177	.02922	.00299	.00367
#3	.00126	.02568	.00006	.00183	.02934	.00301	.00380

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00042**	**.00070**	**.00343**	**.00089**	**.00112**	**.01097**	**.00577**
Stddev	.00002	.00000	.00009	.00005	.00004	.00031	.00007
%RSD	5.0050	.44927	2.5162	6.0009	3.8147	2.8355	1.1922
#1	.00043	.00070	.00352	.00085	.00110	.01093	.00579
#2	.00043	.00069	.00343	.00087	.00117	.01130	.00570
#3	.00039	.00070	.00335	.00096	.00108	.01068	.00583

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00075**	**.00165**	**.00189**	**.04139**	**.00046**	**.00161**	**.00019**
Stddev	.00006	.00005	.00002	.00069	.00000	.00002	.00004
%RSD	7.7818	2.8944	.89208	1.6596	.72987	1.0945	20.019
#1	.00082	.00170	.00189	.04218	.00046	.00159	.00017
#2	.00071	.00160	.00188	.04102	.00046	.00162	.00016
#3	.00072	.00165	.00191	.04096	.00047	.00162	.00023

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00210**	**.00028**	**.00020**	**.00048**	**.00003**	**.00237**	**.00103**
Stddev	.00010	.00001	.00001	.00002	.00000	.00004	.00002
%RSD	4.9411	5.1280	6.1695	3.7584	14.973	1.7425	1.5018
#1	-.00198	.00027	.00021	.00049	.00004	.00237	.00103
#2	-.00215	.00028	.00019	.00046	.00003	.00233	.00101
#3	-.00217	.00030	.00020	.00048	.00003	.00241	.00104

Approved: March 30, 2011

Sample Name: S2 Acquired: 3/29/2011 11:07:45 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.04048**	**.00171**	**.00007**	**.00986**	**.00849**	**.02382**
Stddev	.00059	.00008	.00001	.00018	.00011	.00032
%RSD	1.4562	4.8971	10.763	1.8172	1.3510	1.3344
#1	.04113	.00180	.00007	.00989	.00842	.02397
#2	.03998	.00163	.00006	.00967	.00843	.02345
#3	.04033	.00170	.00007	.01002	.00862	.02403

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49958.**	**42635.**
Stddev	238.	571.
%RSD	.47647	1.3386
#1	50071.	41984.
#2	50119.	43051.
#3	49685.	42870.

Approved: March 30, 2011

Sample Name: S3 Acquired: 3/29/2011 11:11:25 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.08541**	**.85162**	**.00662**	**.06763**	**1.3386**	**.21818**	**.22787**
Stddev	.00065	.00394	.00001	.00036	.0915	.00167	.01625
%RSD	.76428	.46227	.16245	.53748	6.8320	.76379	7.1298
#1	.08468	.85046	.00662	.06730	1.2840	.21639	.21887
#2	.08592	.85601	.00661	.06802	1.2875	.21968	.21812
#3	.08563	.84840	.00663	.06757	1.4441	.21848	.24663

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01741**	**.03990**	**.14307**	**.03747**	**.05783**	**.69382**	**.28903**
Stddev	.00010	.00013	.00109	.00011	.00428	.04948	.02015
%RSD	.55966	.32638	.76059	.30137	7.3976	7.1309	6.9712
#1	.01731	.03975	.14188	.03734	.05508	.66614	.27723
#2	.01741	.03999	.14401	.03755	.05565	.66437	.27756
#3	.01751	.03996	.14331	.03752	.06276	.75094	.31229

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03775**	**.07668**	**.09224**	**2.3633**	**.02963**	**.07755**	**.01704**
Stddev	.00292	.00586	.00041	.1699	.00016	.00028	.00010
%RSD	7.7293	7.6386	.44788	7.1875	.54249	.35786	.60049
#1	.03603	.07326	.09186	2.2717	.02946	.07723	.01693
#2	.03611	.07333	.09268	2.2590	.02978	.07768	.01708
#3	.04112	.08344	.09220	2.5593	.02964	.07773	.01712

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00198**	**.00316**	**.00019**	**.02159**	**.00420**	**.09481**	**.05064**
Stddev	.00020	.00003	.00001	.00008	.00002	.00028	.00025
%RSD	10.070	.89472	5.4611	.39123	.47818	.29667	.49423
#1	-.00185	.00313	.00018	.02149	.00417	.09453	.05035
#2	-.00221	.00317	.00020	.02165	.00421	.09509	.05076
#3	-.00188	.00318	.00018	.02163	.00421	.09481	.05080

Approved: March 30, 2011

Sample Name: S3 Acquired: 3/29/2011 11:11:25 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.0398**	**.11367**	**.00606**	**.48939**	**.28472**	**1.2530**
Stddev	.1410	.00793	.00003	.00283	.00148	.0057
%RSD	6.9145	6.9736	.41677	.57910	.52085	.45783
#1	1.9629	.10921	.00604	.48666	.28301	1.2521
#2	1.9539	.10899	.00609	.49232	.28552	1.2591
#3	2.2026	.12283	.00606	.48920	.28564	1.2478

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48911.**	**41679.**
Stddev	168.	2551.
%RSD	.34423	6.1207
#1	49104.	42978.
#2	48795.	43320.
#3	48833.	38740.

Approved: March 30, 2011

Sample Name: S4 Acquired: 3/29/2011 11:14:48 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.17268**	**1.7370**	**.01321**	**.13631**	**2.6001**	**.44354**	**.44140**
Stddev	.00089	.0085	.00006	.00037	.0236	.00138	.00350
%RSD	.51585	.49114	.46076	.27446	.90781	.31007	.79385
#1	.17281	1.7273	.01327	.13599	2.6255	.44372	.44532
#2	.17349	1.7402	.01323	.13672	2.5959	.44481	.44030
#3	.17173	1.7435	.01315	.13621	2.5789	.44208	.43858

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03473**	**.07846**	**.28576**	**.07359**	**.11090**	**1.3468**	**.56238**
Stddev	.00004	.00022	.00030	.00005	.00067	.0090	.00494
%RSD	.11700	.28071	.10544	.06995	.60271	.67140	.87806
#1	.03478	.07870	.28595	.07365	.11167	1.3571	.56788
#2	.03471	.07826	.28591	.07357	.11045	1.3434	.56094
#3	.03471	.07843	.28541	.07355	.11059	1.3399	.55832

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07217**	**.14706**	**.18412**	**4.5363**	**.05830**	**.15608**	**.03364**
Stddev	.00045	.00091	.00066	.0342	.00012	.00035	.00009
%RSD	.62671	.61798	.35996	.75397	.20845	.22712	.27380
#1	.07258	.14811	.18443	4.5757	.05840	.15648	.03375
#2	.07169	.14644	.18336	4.5179	.05817	.15578	.03358
#3	.07223	.14665	.18457	4.5152	.05833	.15600	.03360

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00187**	**.00599**	**.00021**	**.04312**	**.00851**	**.18845**	**.09958**
Stddev	.00011	.00002	.00000	.00001	.00001	.00021	.00027
%RSD	5.9501	.34723	2.1228	.02018	.12153	.11150	.26967
#1	-.00191	.00598	.00022	.04313	.00852	.18866	.09979
#2	-.00196	.00597	.00021	.04311	.00850	.18824	.09928
#3	-.00175	.00601	.00021	.04312	.00850	.18846	.09967

Approved: March 30, 2011

Sample Name: S4 Acquired: 3/29/2011 11:14:48 Type: Cal
Method: ICP-THERMO2_6010_200.7(v1307) Mode: IR Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.9355**	**.22084**	**.01186**	**.98614**	**.56149**	**2.5322**
Stddev	.0333	.00155	.00004	.00270	.00109	.0101
%RSD	.84643	.70106	.31015	.27379	.19325	.39755
#1	3.9731	.22263	.01184	.98431	.56263	2.5206
#2	3.9240	.22006	.01184	.98924	.56047	2.5374
#3	3.9095	.21984	.01191	.98487	.56136	2.5385

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48256.**	**42774.**
Stddev	39.	146.
%RSD	.08063	.34227
#1	48223.	42833.
#2	48299.	42882.
#3	48246.	42607.

Approved: March 30, 2011

Sample Name: ICV Acquired: 3/29/2011 11:20:11 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38727**	**9.6172**	**.39224**	**.48813**	**.98106**	**.04897**	**9.7758**
Stddev	.00425	.1027	.00098	.00397	.00338	.00025	.0425
%RSD	1.0986	1.0681	.24870	.81270	.34474	.50079	.43475
#1	.38970	9.6254	.39120	.48846	.97753	.04900	9.7498
#2	.38236	9.5106	.39314	.48401	.98139	.04871	9.7526
#3	.38975	9.7155	.39237	.49192	.98427	.04919	9.8248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04961**	**.19924**	**.49725**	**.49832**	**3.9854**	**49.070**	**.97477**
Stddev	.00018	.00054	.00255	.00122	.0032	.069	.00546
%RSD	.36640	.26879	.51305	.24573	.08135	.14102	.55978
#1	.04965	.19931	.49684	.49953	3.9875	49.059	.96974
#2	.04976	.19974	.49493	.49835	3.9817	49.008	.97399
#3	.04941	.19867	.49998	.49708	3.9870	49.145	.98057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9606**	**.49589**	**.99618**	**48.743**	**.50024**	**9.8212**	**.50012**
Stddev	.0296	.00159	.00212	.258	.00061	.0100	.00203
%RSD	.29759	.31985	.21308	.52970	.12254	.10200	.40596
#1	9.9516	.49506	.99846	48.661	.50093	9.8323	.50153
#2	9.9937	.49490	.99426	48.536	.49976	9.8187	.50104
#3	9.9366	.49772	.99582	49.032	.50003	9.8127	.49779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: ICV Acquired: 3/29/2011 11:20:11 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **120.86**	**9.9049**	F **23.582**	**1.1876**	**.39737**	**4.9607**	**.98803**
Stddev	64.39	.0298	6.131	.0021	.00133	.0073	.00589
%RSD	53.280	.30081	25.997	.17771	.33504	.14720	.59620
#1	192.49	9.9213	22.162	1.1881	.39624	4.9651	.99429
#2	102.30	9.9228	18.286	1.1894	.39703	4.9648	.98722
#3	67.781	9.8705	30.299	1.1852	.39883	4.9523	.98259
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	5.0000%		5.0000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96687**	**.97827**	**.49957**	**.97509**	**.98903**	**.97434**
Stddev	.00632	.00133	.00132	.00745	.00321	.01066
%RSD	.65342	.13615	.26482	.76431	.32414	1.0944
#1	.96357	.97744	.50006	.97747	.99225	.97394
#2	.96289	.97756	.50058	.96674	.98900	.96388
#3	.97416	.97981	.49807	.98107	.98584	.98520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49164.**	**41690.**
Stddev	130.	402.
%RSD	.26516	.96378
#1	49043.	41330.
#2	49148.	41617.
#3	49302.	42123.

Approved: March 30, 2011

Sample Name: ICB Acquired: 3/29/2011 11:23:32 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00018**	**.00110**	**.00208**	**.00010**	**-.00001**	**.00494**
Stddev	.00051	.00140	.00016	.00029	.00010	.00002	.00496
%RSD	1891.2	791.86	14.435	13.846	93.553	254.96	100.35
#1	.00059	.00143	.00106	.00195	-.00001	.00001	.01011
#2	-.00009	-.00113	.00127	.00189	.00016	-.00003	.00022
#3	-.00042	-.00082	.00096	.00241	.00015	-.00001	.00449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00016**	**-.00031**	**-.00016**	**-.00327**	**.07315**	**-.00142**
Stddev	.00007	.00013	.00020	.00034	.00078	.01393	.00147
%RSD	73.898	79.692	64.106	216.04	23.846	19.039	103.75
#1	-.00001	.00003	-.00009	.00021	-.00399	.08352	-.00063
#2	-.00013	.00028	-.00047	-.00046	-.00244	.05732	-.00311
#3	-.00013	.00016	-.00038	-.00022	-.00338	.07860	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01392**	**.00011**	**-.00005**	**.00301**	**-.00023**	**-.00097**	**.00024**
Stddev	.00785	.00016	.00007	.00524	.00048	.00286	.00009
%RSD	56.369	150.41	141.75	174.08	211.97	294.98	38.973
#1	-.00811	.00021	.00000	.00404	.00032	-.00047	.00020
#2	-.02285	-.00008	-.00013	.00766	-.00042	.00161	.00035
#3	-.01080	.00019	-.00002	-.00267	-.00058	-.00405	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: ICB Acquired: 3/29/2011 11:23:32 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-14.382**	**-.04172**	F **7.3485**	**-.00139**	**-.00051**	**.00033**	**-.00024**
Stddev	37.786	.02378	2.9761	.00120	.00128	.00088	.00015
%RSD	262.74	57.003	40.499	86.686	253.17	265.88	64.654
#1	-24.945	-.02206	3.9891	.00000	-.00186	-.00002	-.00007
#2	27.562	-.06816	8.4014	-.00209	-.00037	-.00032	-.00026
#3	-45.762	-.03495	9.6549	-.00207	.00070	.00132	-.00038
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0400		1.0400				
Low Limit	-1.2000		-1.0400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00038**	**.00103**	**.00001**	**-.00099**	**.00006**
Stddev	.00008	.00077	.00056	.00007	.00009	.00009
%RSD	657.74	199.51	54.073	870.35	8.8421	157.85
#1	.00008	.00050	.00048	-.00007	-.00089	.00012
#2	-.00007	-.00089	.00101	.00005	-.00107	.00010
#3	-.00005	-.00076	.00160	.00005	-.00102	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49672.**	**42296.**
Stddev	114.	430.
%RSD	.22925	1.0165
#1	49541.	42775.
#2	49747.	41946.
#3	49727.	42166.

Approved: March 30, 2011

Sample Name: LLICV Acquired: 3/29/2011 11:27:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01940**	**.44798**	**.01988**	**.02387**	**.04672**	**.00230**	**.47638**
Stddev	.00075	.00937	.00027	.00078	.00007	.00004	.00980
%RSD	3.8794	2.0917	1.3807	3.2479	.15241	1.6552	2.0563
#1	.01856	.44888	.01973	.02435	.04680	.00232	.46568
#2	.01964	.45687	.01970	.02429	.04670	.00233	.47857
#3	.02001	.43820	.02019	.02298	.04666	.00226	.48490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00225**	**.00957**	**.02379**	**.02407**	**.18715**	**2.3881**	**.04514**
Stddev	.00006	.00010	.00007	.00035	.00206	.0141	.00085
%RSD	2.7306	.99744	.28510	1.4370	1.1006	.58950	1.8889
#1	.00224	.00961	.02386	.02369	.18675	2.3719	.04416
#2	.00231	.00946	.02378	.02437	.18531	2.3956	.04550
#3	.00219	.00963	.02372	.02416	.18938	2.3969	.04575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45835**	**.02355**	**.04734**	**2.2912**	**.02377**	**.46494**	**.02309**
Stddev	.00733	.00039	.00003	.0228	.00041	.00344	.00035
%RSD	1.5998	1.6435	.05907	.99390	1.7282	.73911	1.5172
#1	.45580	.02361	.04730	2.2729	.02411	.46820	.02331
#2	.45263	.02313	.04735	2.2839	.02389	.46135	.02268
#3	.46662	.02390	.04735	2.3167	.02331	.46526	.02327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: LLICV Acquired: 3/29/2011 11:27:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.2242**	**.46347**	F **24.637**	**.05664**	**.01674**	**.23578**	**.04737**
Stddev	16.688	.01894	6.452	.00056	.00069	.00197	.00024
%RSD	180.92	4.0868	26.186	.99290	4.1418	.83577	.50854
#1	17.772	.45348	17.193	.05712	.01732	.23790	.04756
#2	-10.006	.45161	28.602	.05677	.01693	.23543	.04710
#3	19.907	.48531	28.117	.05602	.01597	.23401	.04745
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04634**	**.04674**	**.02570**	**.04651**	**.04547**	**.04677**
Stddev	.00037	.00046	.00064	.00103	.00058	.00129
%RSD	.78795	.98282	2.4809	2.2203	1.2705	2.7474
#1	.04612	.04677	.02624	.04680	.04504	.04736
#2	.04613	.04627	.02587	.04736	.04613	.04766
#3	.04676	.04719	.02500	.04536	.04525	.04530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49427.**	**43394.**
Stddev	36.	163.
%RSD	.07201	.37667
#1	49411.	43391.
#2	49468.	43558.
#3	49402.	43231.

Approved: March 30, 2011

Sample Name: ICSA Acquired: 3/29/2011 11:30:54 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**249.69**	**-.00173**	**.04956**	**.00096**	**-.00003**	**243.24**
Stddev	.00027	.84	.00207	.00037	.00011	.00003	.92
%RSD	43.048	.33683	119.24	.74357	11.201	94.848	.37715
#1	-.00073	250.28	-.00150	.04928	.00100	-.00006	242.32
#2	-.00083	250.06	.00021	.04942	.00084	.00000	244.15
#3	-.00032	248.73	-.00390	.04998	.00103	-.00003	243.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.00117**	**.00023**	**-.00146**	**-.00117**	**93.887**	**.06456**	**.00754**
Stddev	.00002	.00015	.00043	.00052	.186	.01900	.00083
%RSD	1.6458	66.394	29.472	44.852	.19844	29.423	11.069
#1	.00115	.00033	-.00113	-.00125	93.687	.05422	.00850
#2	.00118	.00005	-.00129	-.00165	94.055	.05297	.00706
#3	.00118	.00030	-.00194	-.00061	93.920	.08648	.00705
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.00050						
Low Limit	-.00050						

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**242.74**	**-.00148**	**-.00062**	**.01131**	**-.00136**	**-.02315**	F **-.00551**
Stddev	.55	.00053	.00017	.01384	.00085	.00086	.00265
%RSD	.22859	35.415	27.759	122.32	62.197	3.6983	48.134
#1	242.30	-.00089	-.00051	.02468	-.00212	-.02313	-.00673
#2	242.55	-.00166	-.00054	.01222	-.00151	-.02401	-.00732
#3	243.36	-.00189	-.00082	-.00296	-.00045	-.02230	-.00246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.00500
Low Limit							-.00500

Approved: March 30, 2011

Sample Name: ICSA Acquired: 3/29/2011 11:30:54 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **3.0952**	F **230.27**	F **-52.809**	**-.00464**	**-.00109**	**.00442**	**.00012**
Stddev	41.644	1.17	12.614	.00170	.00074	.00048	.00024
%RSD	1345.4	.50700	23.886	36.605	67.670	10.790	197.77
#1	-2.5461	229.87	-45.757	-.00653	-.00052	.00405	.00009
#2	47.272	229.37	-45.298	-.00323	-.00083	.00496	-.00010
#3	-35.441	231.59	-67.372	-.00417	-.00193	.00425	.00038
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.04000	.04000	.04000				
Low Limit	-.04000	-.04000	-.04000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.01166**	**.00074**	**-.00339**	**-.00980**	**-.00017**
Stddev	.00007	.00116	.00014	.00016	.00083	.00008
%RSD	14.011	9.9282	18.607	4.6679	8.5178	49.258
#1	-.00043	-.01032	.00058	-.00352	-.01053	-.00020
#2	-.00043	-.01235	.00084	-.00322	-.00998	-.00024
#3	-.00054	-.01231	.00079	-.00345	-.00889	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46515.**	**43520.**
Stddev	153.	145.
%RSD	.32798	.33243
#1	46355.	43677.
#2	46659.	43492.
#3	46530.	43391.

Approved: March 30, 2011

Sample Name: ICSAB Acquired: 3/29/2011 11:34:35 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50061**	**261.54**	**.24828**	**.04920**	**.24240**	**.25982**	**251.67**
Stddev	.00676	3.28	.00246	.00047	.00157	.00214	.75
%RSD	1.3504	1.2546	.98974	.95703	.64645	.82186	.29802
#1	.49493	258.29	.25018	.04892	.24076	.25826	250.94
#2	.49882	264.85	.24551	.04974	.24388	.25895	252.44
#3	.50809	261.48	.24915	.04893	.24255	.26225	251.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44658**	**.24545**	**.24557**	**.24663**	**96.459**	**5.0160**	**.00864**
Stddev	.00213	.00111	.00186	.00108	.307	.0389	.00061
%RSD	.47658	.45219	.75548	.43985	.31782	.77447	7.0506
#1	.44802	.24651	.24477	.24663	96.110	4.9870	.00875
#2	.44414	.24429	.24425	.24554	96.685	5.0601	.00919
#3	.44759	.24554	.24769	.24771	96.583	5.0008	.00799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**248.67**	**.23556**	**-.00060**	**4.8910**	**.48536**	**-.01895**	**.48005**
Stddev	.67	.00094	.00014	.0065	.00184	.00109	.00575
%RSD	.26967	.40095	23.102	.13295	.37834	5.7667	1.1974
#1	248.05	.23447	-.00056	4.8846	.48664	-.02021	.48359
#2	248.59	.23610	-.00075	4.8976	.48326	-.01832	.47342
#3	249.38	.23612	-.00049	4.8909	.48618	-.01832	.48314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: ICSAB Acquired: 3/29/2011 11:34:35 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-144.24**	F **238.90**	F **-56.500**	**.51879**	**.24905**	**.00587**	**.00019**
Stddev	83.64	.61	5.233	.00258	.00207	.00087	.00029
%RSD	57.990	.25647	9.2627	.49814	.83164	14.829	151.00
#1	-153.29	238.61	-53.841	.52129	.24671	.00511	-.00003
#2	-56.436	238.50	-62.529	.51613	.25065	.00569	.00052
#3	-222.99	239.61	-53.129	.51897	.24979	.00682	.00009
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.60000	.60000	.60000				
Low Limit	.40000	.40000	.40000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.01084**	**.45781**	**.24561**	**.45295**	**-.00028**
Stddev	.00004	.00083	.00246	.00258	.00113	.00013
%RSD	6.7970	7.6804	.53705	1.0499	.25037	49.030
#1	-.00060	-.01045	.46062	.24349	.45180	-.00034
#2	-.00055	-.01028	.45604	.24486	.45300	-.00012
#3	-.00053	-.01180	.45678	.24848	.45406	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46691.**	**44138.**
Stddev	89.	290.
%RSD	.19121	.65629
#1	46710.	43877.
#2	46769.	44450.
#3	46593.	44088.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 11:38:14 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40403**	**10.033**	**.39768**	**.50447**	**.97809**	**.05030**	**9.7572**
Stddev	.00454	.060	.00511	.00253	.00171	.00031	.0384
%RSD	1.1233	.59921	1.2856	.50227	.17495	.60649	.39406
#1	.40918	10.046	.40209	.50600	.97947	.05046	9.7570
#2	.40061	9.9667	.39887	.50154	.97617	.04995	9.7189
#3	.40230	10.084	.39207	.50587	.97861	.05050	9.7958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05037**	**.20140**	**.50744**	**.50431**	**3.9221**	**48.616**	**.98596**
Stddev	.00048	.00169	.00343	.00454	.0105	.115	.00091
%RSD	.94535	.83822	.67539	.90000	.26669	.23745	.09248
#1	.05092	.20311	.50923	.50951	3.9340	48.699	.98649
#2	.05011	.20137	.50348	.50231	3.9146	48.484	.98491
#3	.05008	.19973	.50960	.50112	3.9175	48.665	.98649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6649**	**.48447**	**1.0143**	**49.001**	**.50731**	**9.9583**	**.50507**
Stddev	.0301	.00221	.0124	.167	.00589	.1060	.00650
%RSD	.31188	.45670	1.2177	.33984	1.1605	1.0640	1.2874
#1	9.6985	.48476	1.0284	49.009	.51404	10.076	.51235
#2	9.6562	.48212	1.0091	48.830	.50478	9.9270	.50302
#3	9.6401	.48652	1.0054	49.163	.50311	9.8716	.49984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 11:38:14 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-83.939**	**9.9890**	F **27.383**	**1.2076**	**.40562**	**5.0502**	**1.0030**
Stddev	31.938	.1091	9.599	.0134	.00638	.0568	.0112
%RSD	38.049	1.0925	35.054	1.1089	1.5720	1.1246	1.1114
#1	-98.701	10.115	19.657	1.2222	.41165	5.1130	1.0158
#2	-47.290	9.9276	24.363	1.2046	.40626	5.0350	.99743
#3	-105.83	9.9245	38.129	1.1959	.39895	5.0025	.99572
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	-10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97829**	**.97748**	**.50884**	**1.0067**	**.99965**	**1.0099**
Stddev	.00461	.00198	.00487	.0062	.00982	.0044
%RSD	.47148	.20227	.95762	.61328	.98249	.43974
#1	.97833	.97881	.51443	1.0109	1.0110	1.0113
#2	.97366	.97521	.50663	.99959	.99420	1.0049
#3	.98288	.97843	.50547	1.0095	.99376	1.0134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48361.**	**43847.**
Stddev	399.	350.
%RSD	.82576	.79757
#1	47903.	43521.
#2	48539.	43804.
#3	48640.	44216.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 11:41:36 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00424**	**.00076**	**.00160**	**-.00031**	**-.00001**	**.00318**
Stddev	.00041	.00163	.00022	.00052	.00012	.00001	.00447
%RSD	119.65	38.469	29.526	32.302	40.012	249.55	140.27
#1	.00069	.00572	.00061	.00193	-.00026	-.00001	.00347
#2	.00046	.00249	.00102	.00187	-.00045	.00001	.00750
#3	-.00011	.00450	.00065	.00101	-.00022	-.00002	-.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00011**	**-.00037**	**-.00016**	**-.00298**	**.06700**	**-.00122**
Stddev	.00008	.00013	.00011	.00063	.00232	.01093	.00186
%RSD	142.13	121.64	29.539	404.64	77.901	16.313	152.33
#1	.00002	.00022	-.00042	.00041	-.00086	.07865	-.00261
#2	-.00014	-.00004	-.00025	-.00004	-.00545	.06536	.00089
#3	-.00005	.00014	-.00045	-.00084	-.00262	.05698	-.00195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01227**	**-.00012**	**.00017**	**.01026**	**-.00002**	**-.00083**	**-.00045**
Stddev	.00690	.00005	.00029	.00577	.00026	.00189	.00068
%RSD	56.245	37.920	167.37	56.254	1089.6	227.48	151.99
#1	-.01078	-.00015	.00049	.01615	.00028	.00129	.00028
#2	-.01979	-.00007	-.00009	.01002	-.00020	-.00146	-.00055
#3	-.00623	-.00014	.00013	.00461	-.00015	-.00232	-.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 11:41:36 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-48.578**	**-.01615**	F **15.041**	**-.00107**	**-.00015**	**.00118**	**-.00010**
Stddev	5.236	.04460	.640	.00069	.00065	.00159	.00028
%RSD	10.778	276.19	4.2528	64.752	440.08	134.54	269.81
#1	-50.886	.00338	15.217	-.00071	-.00032	.00290	.00013
#2	-42.585	-.06718	14.332	-.00062	-.00070	-.00025	-.00042
#3	-52.263	.01535	15.574	-.00186	.00057	.00090	-.00003
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00008**	**.00060**	**.00000**	**-.00037**	**.00009**
Stddev	.00004	.00027	.00104	.00026	.00022	.00011
%RSD	39.256	332.50	173.41	28052.	61.419	121.54
#1	-.00013	-.00033	.00082	.00029	-.00029	-.00001
#2	-.00009	-.00011	-.00053	-.00007	-.00019	.00008
#3	-.00006	.00020	.00151	-.00021	-.00062	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49708.**	**44437.**
Stddev	1093.	173.
%RSD	2.1991	.38844
#1	49117.	44249.
#2	50970.	44474.
#3	49038.	44589.

Approved: March 30, 2011

Sample Name: L1103092505 Acquired: 3/29/2011 11:45:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**57.185**	**.01134**	**.19016**	**.06449**	**.00351**	**.72095**
Stddev	.00020	.321	.00112	.00095	.00012	.00003	.00505
%RSD	13.747	.56158	9.8765	.50053	.17921	.83942	.69979
#1	-.00159	56.946	.01248	.18955	.06437	.00348	.71730
#2	-.00123	57.060	.01025	.19125	.06450	.00352	.71884
#3	-.00156	57.550	.01130	.18967	.06460	.00354	.72670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.07668**	**.00556**	**.01919**	**367.89**	**2.0937**	**.01129**
Stddev	.00012	.00036	.00030	.00047	.48	.0186	.00080
%RSD	8.4954	.46570	5.3780	2.4238	.13057	.88945	7.0905
#1	.00126	.07634	.00534	.01865	367.45	2.1045	.01037
#2	.00140	.07664	.00544	.01939	368.40	2.0722	.01167
#3	.00150	.07706	.00590	.01952	367.82	2.1045	.01182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3701**	**2.1805**	**-.00187**	**.25520**	**.02690**	**.79928**	**.01822**
Stddev	.0026	.0029	.00014	.00322	.00041	.00234	.00133
%RSD	.19262	.13542	7.3704	1.2611	1.5167	.29339	7.3049
#1	1.3690	2.1805	-.00172	.25707	.02737	.79995	.01803
#2	1.3683	2.1776	-.00190	.25149	.02667	.79667	.01700
#3	1.3732	2.1835	-.00199	.25705	.02667	.80122	.01964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092505 Acquired: 3/29/2011 11:45:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-91.320**	**7.2057**	F **-1904.4**	**-.00924**	**-.00146**	**.78155**	**.00261**
Stddev	57.107	.0566	13.8	.00126	.00012	.00281	.00029
%RSD	62.535	.78539	.72275	13.635	8.4937	.35971	10.952
#1	-155.24	7.1421	-1892.1	-.01054	-.00137	.78055	.00247
#2	-73.382	7.2248	-1901.9	-.00803	-.00160	.78472	.00294
#3	-45.335	7.2503	-1919.3	-.00915	-.00140	.77937	.00242
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01069**	**.03134**	**.00188**	**.04008**	**.06313**	**.02885**
Stddev	.00008	.00012	.00059	.00033	.00019	.00032
%RSD	.78685	.39154	31.456	.82006	.30790	1.1243
#1	.01061	.03138	.00248	.03970	.06336	.02880
#2	.01069	.03120	.00130	.04028	.06304	.02855
#3	.01077	.03144	.00185	.04025	.06300	.02920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**51415.**	**46041.**
Stddev	114.	88.
%RSD	.22154	.19217
#1	51508.	46057.
#2	51449.	45946.
#3	51288.	46121.

Approved: March 30, 2011

Sample Name: L1103092505 Acquired: 3/29/2011 11:48:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 500 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.57439**	**.00229**	**.00188**	**.00043**	**.00004**	**.00817**
Stddev	.00032	.00867	.00104	.00043	.00007	.00001	.00387
%RSD	374.48	1.5095	45.349	22.939	16.838	25.261	47.350
#1	-.00031	.58103	.00120	.00147	.00050	.00003	.00879
#2	.00028	.57757	.00327	.00185	.00035	.00005	.01169
#3	-.00023	.56458	.00239	.00233	.00045	.00005	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00102**	**-.00076**	**.00014**	**3.7808**	**.07244**	**-.00082**
Stddev	.00010	.00005	.00016	.00005	.0185	.02093	.00092
%RSD	41.348	4.7205	21.295	32.014	.49049	28.890	111.56
#1	-.00014	.00101	-.00075	.00016	3.7988	.09223	-.00014
#2	-.00034	.00107	-.00092	.00018	3.7617	.05054	-.00187
#3	-.00026	.00098	-.00060	.00009	3.7820	.07455	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**.02193**	**-.00025**	**.00508**	**-.00019**	**.01711**	**.00022**
Stddev	.00731	.00034	.00010	.00615	.00017	.00215	.00044
%RSD	163.28	1.5348	38.853	121.11	92.913	12.568	204.12
#1	.00912	.02220	-.00023	.01204	-.00038	.01531	-.00025
#2	.00826	.02204	-.00036	.00040	-.00006	.01949	.00063
#3	-.00395	.02155	-.00017	.00279	-.00012	.01654	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092505 Acquired: 3/29/2011 11:48:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 500 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-82.390**	**.03699**	F **-1.2392**	**-.00290**	**-.00164**	**.00299**	**-.00043**
Stddev	47.246	.04481	1.0754	.00052	.00201	.00076	.00008
%RSD	57.344	121.16	86.778	17.840	122.40	25.280	17.805
#1	-99.979	.08809	-1.7431	-.00343	-.00096	.00373	-.00046
#2	-28.873	.01849	-.00443	-.00287	-.00006	.00302	-.00034
#3	-118.32	.00438	-1.9702	-.00240	-.00389	.00222	-.00048
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00060**	**.00190**	**.00029**	**.00063**	**.00035**
Stddev	.00002	.00055	.00136	.00014	.00034	.00003
%RSD	67.816	92.246	71.590	48.280	53.558	9.9307
#1	.00003	.00116	.00065	.00017	.00087	.00031
#2	.00003	.00058	.00334	.00025	.00078	.00038
#3	.00000	.00006	.00170	.00044	.00024	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50293.**	**45587.**
Stddev	229.	254.
%RSD	.45438	.55799
#1	50161.	45299.
#2	50161.	45685.
#3	50557.	45778.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 11:52:42 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39960**	**9.9612**	**.39706**	**.50302**	**.99541**	**.04953**	**9.7757**
Stddev	.00113	.0206	.00161	.00109	.00401	.00002	.0235
%RSD	.28218	.20660	.40513	.21739	.40324	.03679	.24025
#1	.40072	9.9474	.39530	.50385	.99924	.04953	9.7924
#2	.39963	9.9849	.39845	.50342	.99123	.04952	9.7489
#3	.39846	9.9515	.39744	.50178	.99577	.04955	9.7859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05004**	**.20026**	**.50035**	**.50154**	**3.8984**	**48.702**	**.99935**
Stddev	.00005	.00034	.00085	.00083	.0118	.124	.00318
%RSD	.10927	.16979	.16983	.16478	.30176	.25471	.31848
#1	.04999	.20015	.50133	.50065	3.9095	48.797	1.0013
#2	.05004	.20064	.49993	.50171	3.8861	48.561	.99568
#3	.05010	.19999	.49980	.50227	3.8996	48.748	1.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3597**	**.48597**	**1.0045**	**48.892**	**.50094**	**9.8720**	**.49675**
Stddev	.0333	.00220	.0008	.073	.00077	.0174	.00157
%RSD	.35575	.45180	.08266	.15029	.15288	.17671	.31695
#1	9.3278	.48756	1.0050	48.887	.50010	9.8537	.49659
#2	9.3943	.48346	1.0049	48.820	.50160	9.8884	.49839
#3	9.3570	.48689	1.0035	48.967	.50113	9.8739	.49526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 11:52:42 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-83.480**	**9.7540**	F **28.928**	**1.2116**	**.40490**	**5.0699**	**.98915**
Stddev	14.140	.0105	2.544	.0033	.00262	.0114	.00201
%RSD	16.938	.10801	8.7933	.27541	.64665	.22491	.20297
#1	-75.536	9.7422	27.473	1.2083	.40287	5.0671	.98686
#2	-99.805	9.7573	31.865	1.2150	.40785	5.0824	.99059
#3	-75.098	9.7625	27.445	1.2114	.40397	5.0602	.99002
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	-10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98312**	**.97759**	**.50482**	**.99641**	**.96871**	**1.0084**
Stddev	.00165	.00189	.00290	.00128	.00153	.0022
%RSD	.16736	.19296	.57526	.12822	.15804	.21310
#1	.98297	.97822	.50156	.99785	.96790	1.0072
#2	.98155	.97547	.50577	.99597	.96775	1.0109
#3	.98483	.97908	.50713	.99541	.97047	1.0071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48614.**	**44762.**
Stddev	59.	285.
%RSD	.12098	.63734
#1	48555.	44433.
#2	48614.	44939.
#3	48672.	44913.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 11:56:04 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00431**	**.00090**	**.00155**	**-.00008**	**.00003**	**.00626**
Stddev	.00039	.00055	.00109	.00049	.00007	.00001	.00340
%RSD	452.73	12.636	120.95	31.522	91.109	43.107	54.369
#1	-.00028	.00459	.00113	.00208	-.00004	.00002	.00900
#2	.00051	.00369	-.00029	.00112	-.00004	.00004	.00732
#3	.00003	.00467	.00186	.00145	-.00017	.00003	.00245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00010**	**-.00035**	**-.00053**	**-.00030**	**.08065**	**-.00201**
Stddev	.00005	.00014	.00041	.00035	.00154	.02086	.00085
%RSD	95.496	136.58	117.54	66.323	522.34	25.861	42.267
#1	-.00009	.00027	-.00016	-.00039	.00140	.09205	-.00182
#2	.00001	-.00001	-.00006	-.00026	-.00067	.09331	-.00128
#3	-.00009	.00006	-.00081	-.00093	-.00162	.05657	-.00295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01954**	**-.00025**	**.00005**	**.01141**	**.00012**	**.00182**	**-.00112**
Stddev	.01494	.00040	.00005	.00427	.00003	.00149	.00083
%RSD	76.498	161.86	109.39	37.417	20.582	81.683	74.437
#1	-.03628	-.00027	.00010	.01604	.00013	.00023	-.00181
#2	-.01477	-.00064	.00000	.00764	.00014	.00205	-.00019
#3	-.00755	.00016	.00004	.01054	.00009	.00318	-.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 11:56:04 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-42.597**	**.00752**	F **8.0249**	**-.00054**	**-.00020**	**-.00008**	**-.00041**
Stddev	31.440	.02855	11.322	.00050	.00052	.00105	.00002
%RSD	73.810	379.67	141.09	91.164	257.58	1268.5	5.2244
#1	-21.641	.01032	14.948	-.00050	-.00079	.00089	-.00043
#2	-27.400	-.02233	14.168	-.00106	.00002	-.00119	-.00039
#3	-78.748	.03457	-5.0415	-.00007	.00017	.00006	-.00041
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000		.01000				
Low Limit	-.01000		-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00047**	**.00185**	**-.00001**	**-.00183**	**.00011**
Stddev	.00004	.00073	.00052	.00032	.00037	.00010
%RSD	55.574	156.28	28.107	3592.7	20.178	94.835
#1	-.00005	.00130	.00228	-.00019	-.00198	.00001
#2	-.00005	.00018	.00201	.00036	-.00210	.00021
#3	-.00012	-.00008	.00127	-.00020	-.00141	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49002.**	**43961.**
Stddev	73.	178.
%RSD	.14925	.40581
#1	49017.	44135.
#2	49067.	43778.
#3	48923.	43969.

Approved: March 30, 2011

Sample Name: PBS 59 Acquired: 3/29/2011 11:59:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00454**	**-.00295**	**.00121**	**.00013**	**.00001**	**.04383**
Stddev	.00031	.00340	.00152	.00019	.00012	.00001	.00306
%RSD	827.40	74.812	51.322	15.699	93.643	234.94	6.9819
#1	-.00030	.00250	-.00246	.00120	.00027	-.00001	.04051
#2	-.00012	.00846	-.00465	.00102	.00007	.00001	.04655
#3	.00031	.00266	-.00174	.00140	.00005	.00002	.04442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00042**	**.00039**	**-.00027**	**.01060**	**.04377**	**-.00171**
Stddev	.00011	.00014	.00021	.00038	.00304	.01821	.00080
%RSD	43.375	34.071	52.043	139.49	28.642	41.602	46.738
#1	.00022	-.00026	.00040	-.00004	.01220	.05377	-.00260
#2	.00018	-.00046	.00019	-.00006	.00710	.05480	-.00146
#3	.00039	-.00053	.00060	-.00072	.01251	.02275	-.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00189**	**.00029**	**.00023**	**.02825**	**.00099**	F **-.01521**	**.00013**
Stddev	.00407	.00026	.00011	.00413	.00011	.00217	.00094
%RSD	215.67	87.932	49.910	14.634	10.597	14.284	692.92
#1	.00267	.00044	.00029	.03287	.00101	-.01302	-.00009
#2	-.00516	.00044	.00029	.02490	.00109	-.01737	-.00067
#3	-.00316	.00000	.00010	.02699	.00088	-.01524	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: PBS 59 Acquired: 3/29/2011 11:59:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-15.121**	**.12718**	F **-19.049**	**.00183**	**.00153**	**.01239**	**.00011**
Stddev	37.630	.04875	11.451	.00138	.00039	.00190	.00013
%RSD	248.86	38.328	60.112	75.364	25.710	15.364	116.48
#1	-9.2091	.07399	-7.2919	.00179	.00198	.01214	.00024
#2	19.203	.13784	-19.689	.00323	.00133	.01440	.00011
#3	-55.358	.16972	-30.167	.00047	.00127	.01062	-.00002
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00059**	**-.00205**	**-.00001**	**.00145**	**-.00001**
Stddev	.00003	.00089	.00121	.00028	.00102	.00014
%RSD	26.871	149.34	58.734	3549.9	70.607	1712.6
#1	.00009	-.00025	-.00066	.00028	.00236	.00015
#2	.00009	.00152	-.00266	-.00028	.00035	-.00013
#3	.00014	.00051	-.00284	-.00003	.00163	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47390.**	**42391.**
Stddev	1137.	204.
%RSD	2.3986	.48069
#1	48114.	42162.
#2	46080.	42457.
#3	47975.	42553.

Approved: March 30, 2011

Sample Name: LCSS 59 Acquired: 3/29/2011 12:03:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21468**	**5.3458**	**.21533**	**1.0564**	**.56404**	**.02810**	**5.5686**
Stddev	.00181	.0035	.00027	.0034	.00045	.00017	.0134
%RSD	.84217	.06510	.12346	.32316	.07908	.59902	.24116
#1	.21381	5.3497	.21529	1.0526	.56442	.02792	5.5557
#2	.21347	5.3446	.21561	1.0573	.56416	.02813	5.5825
#3	.21676	5.3431	.21508	1.0593	.56355	.02826	5.5674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02814**	**.11599**	**.29284**	**.28294**	**2.2382**	**27.615**	**.56021**
Stddev	.00021	.00046	.00163	.00075	.0096	.095	.00246
%RSD	.75348	.39290	.55601	.26341	.43041	.34508	.43839
#1	.02824	.11619	.29192	.28297	2.2272	27.506	.56214
#2	.02790	.11547	.29189	.28218	2.2452	27.681	.56106
#3	.02828	.11632	.29472	.28367	2.2422	27.659	.55745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.5129**	**.28198**	**.59135**	**27.729**	**.29061**	**5.4684**	**.28128**
Stddev	.0285	.00130	.00222	.094	.00124	.0165	.00117
%RSD	.51666	.46269	.37583	.33895	.42824	.30180	.41428
#1	5.4801	.28117	.58899	27.643	.28963	5.4608	.27995
#2	5.5267	.28349	.59167	27.829	.29018	5.4569	.28179
#3	5.5318	.28129	.59340	27.716	.29201	5.4873	.28212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: LCSS 59 Acquired: 3/29/2011 12:03:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.886**	**5.7787**	F **-24.186**	**.66779**	**.21669**	**2.8563**	**.57071**
Stddev	58.222	.0084	2.381	.00332	.00273	.0149	.00073
%RSD	243.75	.14552	9.8443	.49750	1.2596	.52102	.12850
#1	28.751	5.7859	-25.851	.66588	.21414	2.8709	.57049
#2	-36.616	5.7807	-25.247	.66586	.21636	2.8411	.57012
#3	79.523	5.7694	-21.459	.67163	.21957	2.8569	.57153
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.55908**	**.56524**	**.27814**	**.57851**	**.55993**	**.00036**
Stddev	.00036	.00069	.00157	.00236	.00137	.00007
%RSD	.06521	.12178	.56343	.40867	.24500	20.793
#1	.55936	.56477	.27867	.57691	.55855	.00030
#2	.55921	.56492	.27638	.57741	.55994	.00033
#3	.55867	.56603	.27938	.58123	.56129	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46629.**	**41418.**
Stddev	48.	298.
%RSD	.10345	.71933
#1	46575.	41727.
#2	46669.	41132.
#3	46642.	41396.

Approved: March 30, 2011

Sample Name: L1103087301 Acquired: 3/29/2011 12:06:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00273**	**115.20**	**.14115**	**.46997**	**.28111**	**.00904**
Stddev	.00030	.64	.00129	.00030	.00269	.00004
%RSD	11.103	.55739	.91329	.06384	.95697	.47038
#1	.00258	115.92	.14118	.47030	.27828	.00909
#2	.00308	114.98	.14243	.46971	.28141	.00903
#3	.00253	114.69	.13985	.46990	.28364	.00900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**247.41**	**.00652**	**.07325**	**.35517**	**.08545**	**300.69**
Stddev	2.23	.00005	.00075	.00310	.00144	2.70
%RSD	.90250	.76751	1.0242	.87165	1.6832	.89721
#1	245.08	.00656	.07407	.35874	.08706	298.22
#2	247.61	.00653	.07308	.35315	.08500	300.27
#3	249.53	.00646	.07260	.35363	.08428	303.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**45.909**	**.28922**	**54.455**	**1.4498**	**.03833**	**8.0084**
Stddev	.393	.00162	.388	.0132	.00015	.0671
%RSD	.85648	.56051	.71205	.91011	.39493	.83767
#1	45.507	.28739	54.159	1.4380	.03835	7.9317
#2	45.927	.29048	54.312	1.4472	.03816	8.0376
#3	46.293	.28980	54.894	1.4641	.03846	8.0559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103087301 Acquired: 3/29/2011 12:06:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20466**	**4.7184**	**.13454**	F **-102.40**	F **3913.2**	F **-1165e3**
Stddev	.00118	.0337	.00259	76.49	21.2	1187.
%RSD	.57432	.71506	1.9283	74.694	.54121	.10182
#1	.20587	4.7554	.13643	-31.114	3937.6	-1165e3
#2	.20457	4.7104	.13560	-183.20	3902.3	-1164e3
#3	.20352	4.6894	.13158	-92.888	3899.7	-1167e3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00581**	**2.2967**	**.00650**	**1.5381**	**.44558**
Stddev	.00199	.00172	.0124	.00043	.0135	.00352
%RSD	325.71	29.637	.53821	6.6454	.87612	.79045
#1	-.00169	.00476	2.3103	.00663	1.5227	.44184
#2	.00186	.00780	2.2863	.00602	1.5434	.44607
#3	.00167	.00487	2.2935	.00686	1.5480	.44883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.00512**	**.24604**	**.60869**	**.16247**
Stddev	.00125	.00245	.00658	.00141
%RSD	24.443	.99748	1.0813	.86908
#1	.00377	.24804	.61317	.16382
#2	.00624	.24678	.61177	.16260
#3	.00536	.24330	.60113	.16100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: March 30, 2011

Sample Name: L1103087301 Acquired: 3/29/2011 12:06:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46243.**	**44614.**
Stddev	218.	359.
%RSD	.47241	.80441
#1	46067.	44496.
#2	46175.	45017.
#3	46487.	44330.

Approved: March 30, 2011

Sample Name: L1103089305 Acquired: 3/29/2011 12:10:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03062**	**355.46**	**6.3561**	**.39019**	**3.5839**	**.02543**	**39.304**
Stddev	.00039	3.39	.0275	.00437	.0231	.00003	.242
%RSD	1.2775	.95358	.43263	1.1202	.64574	.10606	.61514
#1	.03094	356.37	6.3249	.38714	3.5637	.02546	39.034
#2	.03075	351.71	6.3770	.38824	3.6092	.02542	39.500
#3	.03018	358.31	6.3663	.39520	3.5789	.02540	39.378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12811**	**.30340**	**2.9781**	**.21533**	**762.15**	**10.430**	**.26453**
Stddev	.00028	.00132	.0057	.00111	7.30	.075	.00151
%RSD	.21472	.43496	.19095	.51348	.95777	.72390	.57207
#1	.12841	.30230	2.9736	.21458	755.85	10.344	.26321
#2	.12807	.30486	2.9762	.21660	760.46	10.483	.26618
#3	.12786	.30305	2.9845	.21481	770.15	10.464	.26421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.008**	**66.215**	**.01884**	**1.7589**	**.25298**	**6.6558**	**.59511**
Stddev	.084	.141	.00022	.0107	.00021	.0290	.00149
%RSD	.69927	.21236	1.1865	.60910	.08468	.43638	.24997
#1	11.936	66.057	.01877	1.7465	.25318	6.6317	.59512
#2	11.987	66.261	.01867	1.7655	.25276	6.6881	.59659
#3	12.100	66.327	.01909	1.7646	.25300	6.6478	.59361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089305 Acquired: 3/29/2011 12:10:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-179.95**	F **111.44**	F **-21421.**	**.03454**	**.04127**	**2.7129**	**.02072**
Stddev	46.34	.46	22.	.00107	.00360	.0071	.00030
%RSD	25.754	.40935	.10393	3.1029	8.7280	.26297	1.4475
#1	-233.21	110.91	-21397.	.03543	.03719	2.7138	.02049
#2	-157.86	111.70	-21440.	.03335	.04262	2.7196	.02106
#3	-148.79	111.70	-21428.	.03483	.04400	2.7054	.02062
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19129**	**.49310**	**.03237**	**1.8066**	**1.4737**	**.27728**
Stddev	.00128	.00409	.00105	.0031	.0036	.00040
%RSD	.67035	.82984	3.2401	.16880	.24226	.14544
#1	.18997	.48850	.03126	1.8055	1.4715	.27750
#2	.19253	.49635	.03250	1.8042	1.4778	.27681
#3	.19137	.49443	.03335	1.8100	1.4718	.27752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50348.**	**48516.**
Stddev	53.	517.
%RSD	.10604	1.0656
#1	50400.	48613.
#2	50293.	48977.
#3	50351.	47957.

Approved: March 30, 2011

Sample Name: L1103089306S Acquired: 3/29/2011 12:14:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20582**	**373.94**	**4.9938**	**.94865**	**3.8381**	**.04312**	**43.038**
Stddev	.00088	.22	.0136	.00837	.0131	.00009	.106
%RSD	.42692	.05991	.27280	.88250	.34055	.21646	.24582
#1	.20681	374.19	5.0084	.94606	3.8364	.04322	43.018
#2	.20552	373.87	4.9916	.94188	3.8519	.04309	43.152
#3	.20513	373.76	4.9814	.95801	3.8260	.04304	42.943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12021**	**.35908**	**2.3463**	**.41406**	**648.29**	**31.694**	**.69000**
Stddev	.00039	.00107	.0069	.00298	14.02	.021	.00394
%RSD	.32409	.29705	.29478	.72037	2.1627	.06728	.57089
#1	.11992	.36025	2.3520	.41643	642.13	31.669	.69089
#2	.12006	.35881	2.3483	.41505	638.40	31.704	.69342
#3	.12065	.35817	2.3386	.41071	664.33	31.708	.68569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.950**	**62.893**	**.44974**	**23.117**	**.45397**	**9.8666**	**.72720**
Stddev	.115	.867	.00018	.061	.00158	.0262	.00272
%RSD	.67933	1.3786	.04004	.26342	.34764	.26563	.37386
#1	16.930	61.894	.44953	23.146	.45563	9.8861	.72673
#2	16.845	63.332	.44984	23.159	.45380	9.8770	.73012
#3	17.073	63.452	.44984	23.047	.45249	9.8368	.72474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089306S Acquired: 3/29/2011 12:14:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-47.562**	F **112.05**	F **-20584.**	**.52361**	**.19504**	**7.6778**	**.43723**
Stddev	123.99	.53	13.	.00127	.00017	.0530	.00035
%RSD	260.70	.46903	.06123	.24347	.08593	.69037	.07931
#1	93.977	112.58	-20569.	.52217	.19522	7.7085	.43744
#2	-137.02	112.05	-20593.	.52411	.19490	7.7083	.43683
#3	-99.648	111.53	-20589.	.52457	.19500	7.6166	.43742
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.63738**	**1.3230**	**.22922**	**2.0280**	**1.7868**	**.26586**
Stddev	.00351	.0045	.00156	.0035	.0044	.00113
%RSD	.55051	.33646	.67908	.17120	.24695	.42552
#1	.63999	1.3281	.23014	2.0319	1.7896	.26662
#2	.63877	1.3212	.23010	2.0268	1.7891	.26456
#3	.63339	1.3197	.22743	2.0253	1.7817	.26639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49179.**	**46250.**
Stddev	83.	639.
%RSD	.16892	1.3814
#1	49085.	46254.
#2	49243.	46886.
#3	49209.	45609.

Approved: March 30, 2011

Sample Name: L1103089307SD Acquired: 3/29/2011 12:18:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19844**	**382.44**	**5.2231**	**.93558**	**3.8072**	**.04191**	**43.352**
Stddev	.00018	2.53	.0155	.00655	.0152	.00014	.226
%RSD	.08909	.66028	.29710	.69984	.39872	.32282	.52206
#1	.19830	383.17	5.2091	.92822	3.8238	.04176	43.555
#2	.19839	384.51	5.2398	.94075	3.8039	.04196	43.395
#3	.19864	379.63	5.2204	.93778	3.7940	.04202	43.108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12413**	**.35422**	**1.8864**	**.39747**	**630.41**	**32.215**	**.69905**
Stddev	.00045	.00081	.0051	.00217	6.13	.092	.00066
%RSD	.36530	.22814	.27009	.54501	.97195	.28630	.09443
#1	.12450	.35357	1.8807	.39649	623.46	32.310	.69976
#2	.12427	.35513	1.8905	.39996	635.02	32.210	.69892
#3	.12363	.35397	1.8880	.39597	632.77	32.125	.69846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.543**	**59.374**	**.44282**	**22.874**	**.45168**	**9.5311**	**.73881**
Stddev	.070	.127	.00075	.138	.00152	.0049	.00078
%RSD	.39885	.21406	.16830	.60361	.33746	.05157	.10593
#1	17.606	59.375	.44346	22.990	.45200	9.5341	.73793
#2	17.468	59.501	.44302	22.911	.45301	9.5338	.73908
#3	17.555	59.247	.44200	22.721	.45002	9.5254	.73942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089307SD Acquired: 3/29/2011 12:18:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360050-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.835**	F **109.78**	F **-20046.**	**.50895**	**.19228**	**8.3655**	**.42461**
Stddev	48.458	.44	39.	.00189	.00292	.0783	.00092
%RSD	79.654	.40135	.19650	.37068	1.5199	.93596	.21680
#1	-115.17	109.41	-20023.	.51019	.19202	8.4021	.42376
#2	-45.251	110.27	-20092.	.50988	.19533	8.4188	.42559
#3	-22.088	109.66	-20024.	.50678	.18950	8.2756	.42448
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.64841**	**1.2427**	**.22131**	**2.0155**	**1.7840**	**.25976**
Stddev	.00367	.0043	.00150	.0040	.0034	.00018
%RSD	.56597	.34442	.67898	.19760	.18913	.06817
#1	.65126	1.2469	.22002	2.0111	1.7808	.25956
#2	.64971	1.2428	.22094	2.0164	1.7875	.25989
#3	.64427	1.2383	.22296	2.0189	1.7839	.25983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50054.**	**46678.**
Stddev	87.	561.
%RSD	.17356	1.2018
#1	49985.	46041.
#2	50024.	46896.
#3	50151.	47097.

Approved: March 30, 2011

Sample Name: L1103089301 Acquired: 3/29/2011 12:21:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02809**	**280.40**	**.33042**	**.58141**	**.59795**	**.00893**	**38.120**
Stddev	.00061	.48	.00237	.00832	.00345	.00005	.194
%RSD	2.1809	.16961	.71609	1.4315	.57765	.58111	.50764
#1	.02738	280.90	.32888	.57302	.59931	.00891	38.183
#2	.02848	279.95	.32923	.58155	.60051	.00899	38.275
#3	.02840	280.35	.33314	.58966	.59402	.00890	37.903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01127**	**.12712**	**2.6436**	**.22196**	F **1156.0**	**3.8265**	**.12474**
Stddev	.00005	.00049	.0120	.00028	14.1	.0292	.00138
%RSD	.47973	.38296	.45346	.12608	1.2212	.76322	1.1057
#1	.01122	.12704	2.6361	.22163	1141.2	3.8582	.12477
#2	.01133	.12668	2.6373	.22212	1157.6	3.8206	.12611
#3	.01125	.12765	2.6574	.22212	1169.3	3.8007	.12335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					900.00		
Low Limit					-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.3144**	**11.612**	**.02848**	**.16807**	**.11785**	**6.4795**	**.40214**
Stddev	.0111	.033	.00018	.00370	.00114	.0157	.00145
%RSD	.20945	.28601	.61595	2.2006	.96595	.24261	.35972
#1	5.3264	11.624	.02829	.16552	.11830	6.4794	.40071
#2	5.3044	11.637	.02850	.16638	.11656	6.4638	.40209
#3	5.3125	11.574	.02864	.17231	.11870	6.4953	.40361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089301 Acquired: 3/29/2011 12:21:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-59.311**	F **77.583**	F **-12419.**	**.02000**	**.00816**	**3.4478**	**.03968**
Stddev	16.439	.292	13.	.00077	.00312	.0121	.00016
%RSD	27.716	.37698	.10534	3.8512	38.269	.35208	.39696
#1	-65.311	77.325	-12419.	.02043	.01008	3.4556	.03951
#2	-40.715	77.523	-12433.	.01911	.00456	3.4539	.03982
#3	-71.908	77.900	-12406.	.02045	.00984	3.4338	.03971
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12754**	**.79572**	**.07761**	**2.6928**	**1.0152**	**.51088**
Stddev	.00072	.00281	.00284	.0053	.0028	.00117
%RSD	.56785	.35289	3.6643	.19850	.27467	.22956
#1	.12784	.79681	.07445	2.6871	1.0144	.50988
#2	.12806	.79783	.07995	2.6936	1.0129	.51059
#3	.12671	.79254	.07844	2.6977	1.0183	.51217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46830.**	**43995.**
Stddev	32.	317.
%RSD	.06839	.72056
#1	46814.	43858.
#2	46867.	44358.
#3	46809.	43770.

Approved: March 30, 2011

Sample Name: L1103089301PS Acquired: 3/29/2011 12:25:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360207-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21594**	**260.76**	**.48167**	**1.4363**	**1.0189**	**.03236**	**39.323**
Stddev	.00105	1.70	.00431	.0137	.0019	.00014	.224
%RSD	.48698	.65013	.89385	.95380	.18821	.42283	.56876
#1	.21481	258.85	.47863	1.4209	1.0177	.03220	39.071
#2	.21689	261.37	.47978	1.4405	1.0211	.03240	39.497
#3	.21611	262.07	.48659	1.4473	1.0179	.03247	39.402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03404**	**.20856**	**2.6420**	**.42182**	F **1040.4**	**27.045**	**.58972**
Stddev	.00036	.00105	.0134	.00528	17.8	.114	.00147
%RSD	1.0511	.50178	.50696	1.2522	1.7111	.42187	.24976
#1	.03369	.20738	2.6329	.41727	1019.9	26.913	.59092
#2	.03401	.20896	2.6358	.42057	1051.1	27.115	.59017
#3	.03441	.20935	2.6574	.42761	1050.3	27.106	.58808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					900.00		
Low Limit					-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2967**	**10.741**	**.51295**	**23.945**	**.34003**	**5.9279**	**.58888**
Stddev	.0757	.076	.00138	.154	.00155	.0102	.00290
%RSD	.81473	.70870	.26827	.64237	.45536	.17247	.49307
#1	9.2111	10.654	.51173	23.771	.34040	5.9232	.58719
#2	9.3551	10.792	.51267	24.061	.33833	5.9208	.58721
#3	9.3237	10.778	.51444	24.003	.34136	5.9396	.59223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089301PS Acquired: 3/29/2011 12:25:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360207-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **26.564**	F **75.073**	F **-11344.**	**.58829**	**.19302**	**5.5720**	**.51806**
Stddev	29.775	.555	56.	.00109	.00094	.0175	.00250
%RSD	112.09	.73957	.49432	.18548	.48503	.31447	.48226
#1	-3.1919	74.504	-11289.	.58929	.19198	5.5518	.51539
#2	56.359	75.100	-11342.	.58846	.19378	5.5834	.51845
#3	26.524	75.614	-11401.	.58713	.19331	5.5807	.52034
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.59000**	**1.1894**	**.29267**	**2.9229**	**1.3876**	**.46340**
Stddev	.00322	.0028	.00275	.0132	.0096	.00285
%RSD	.54610	.23574	.93871	.45156	.69297	.61550
#1	.58666	1.1865	.28957	2.9134	1.3796	.46069
#2	.59308	1.1921	.29367	2.9173	1.3848	.46312
#3	.59028	1.1896	.29479	2.9380	1.3982	.46638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46491.**	**43486.**
Stddev	175.	267.
%RSD	.37646	.61349
#1	46623.	43771.
#2	46558.	43443.
#3	46293.	43242.

Approved: March 30, 2011

Sample Name: L1103089301SDL Acquired: 3/29/2011 12:29:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360207-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00588**	**57.675**	**.07037**	**.13278**	**.12211**	**.00162**	**7.8122**
Stddev	.00034	.303	.00016	.00082	.00010	.00002	.0261
%RSD	5.8352	.52605	.22091	.61866	.08523	.96101	.33436
#1	.00621	57.356	.07036	.13362	.12219	.00161	7.8207
#2	.00591	57.708	.07053	.13272	.12214	.00164	7.8330
#3	.00553	57.960	.07021	.13199	.12199	.00162	7.7829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00231**	**.02727**	**.53619**	**.04568**	**255.90**	**.87384**	**.02172**
Stddev	.00005	.00028	.00110	.00212	.35	.02164	.00044
%RSD	2.3395	1.0103	.20607	4.6479	.13581	2.4767	2.0467
#1	.00227	.02701	.53532	.04391	256.01	.89107	.02161
#2	.00230	.02724	.53580	.04508	256.19	.88091	.02221
#3	.00237	.02755	.53743	.04803	255.51	.84955	.02134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1682**	**2.4648**	**.00546**	**.02582**	**.02577**	**1.4159**	**.09028**
Stddev	.0177	.0056	.00017	.00405	.00034	.0098	.00166
%RSD	1.5161	.22630	3.0498	15.664	1.3189	.69354	1.8440
#1	1.1499	2.4667	.00565	.03010	.02601	1.4055	.08991
#2	1.1852	2.4692	.00540	.02531	.02593	1.4172	.08883
#3	1.1695	2.4585	.00534	.02206	.02538	1.4250	.09209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089301SDL Acquired: 3/29/2011 12:29:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360207-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **97.398**	F **17.133**	F **-2687.3**	**.00184**	**.00083**	**.72927**	**.00821**
Stddev	33.496	.205	26.7	.00228	.00147	.00330	.00013
%RSD	34.390	1.1972	.99203	123.90	176.43	.45218	1.6095
#1	106.38	17.059	-2668.2	.00099	-.00083	.72571	.00831
#2	125.49	16.974	-2676.1	.00011	.00197	.72989	.00826
#3	60.328	17.364	-2717.8	.00442	.00136	.73221	.00806
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02606**	**.16585**	**.01743**	**.53533**	**.22588**	**.10024**
Stddev	.00010	.00067	.00097	.00184	.00153	.00044
%RSD	.39429	.40553	5.5478	.34399	.67673	.44215
#1	.02611	.16510	.01680	.53436	.22457	.09977
#2	.02613	.16604	.01854	.53417	.22551	.10065
#3	.02594	.16641	.01694	.53745	.22756	.10030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49858.**	**43254.**
Stddev	270.	484.
%RSD	.54149	1.1191
#1	50096.	43774.
#2	49913.	42816.
#3	49565.	43173.

Approved: March 30, 2011

Sample Name: L1103089301SDL Acquired: 3/29/2011 12:32:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360207-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**11.509**	**.01658**	**.02708**	**.02463**	**.00033**	**1.5659**
Stddev	.00023	.057	.00056	.00057	.00015	.00002	.0124
%RSD	25.984	.49860	3.3485	2.1123	.59564	5.7314	.79297
#1	.00065	11.563	.01681	.02644	.02450	.00033	1.5552
#2	.00091	11.449	.01699	.02729	.02459	.00031	1.5630
#3	.00111	11.516	.01595	.02752	.02479	.00034	1.5795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00589**	**.10939**	**.00984**	**52.020**	**.25097**	**-.00078**
Stddev	.00005	.00013	.00061	.00005	.211	.01962	.00167
%RSD	21.481	2.2022	.55941	.53152	.40544	7.8189	212.66
#1	.00027	.00595	.10989	.00990	51.805	.23014	-.00268
#2	.00019	.00598	.10871	.00983	52.028	.26911	.00045
#3	.00018	.00574	.10956	.00980	52.227	.25366	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22134**	**.50311**	**.00098**	**-.01599**	**.00550**	**.31014**	**.01898**
Stddev	.00775	.00455	.00009	.00737	.00039	.00216	.00086
%RSD	3.4992	.90510	8.9640	46.102	7.1137	.69488	4.5534
#1	.22458	.49826	.00105	-.00830	.00524	.31028	.01908
#2	.22694	.50380	.00088	-.02300	.00595	.30791	.01807
#3	.21250	.50729	.00101	-.01666	.00530	.31222	.01979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089301SDL Acquired: 3/29/2011 12:32:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360207-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **88.048**	**3.6251**	F **-579.67**	**-.00082**	**-.00249**	**.14967**	**.00128**
Stddev	30.871	.0333	14.22	.00063	.00105	.00233	.00019
%RSD	35.061	.91914	2.4533	77.028	42.235	1.5590	15.151
#1	67.512	3.6130	-593.42	-.00155	-.00186	.15118	.00128
#2	73.084	3.5995	-565.02	-.00049	-.00370	.15085	.00147
#3	123.55	3.6628	-580.58	-.00042	-.00190	.14698	.00109
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**.03227**	**.00373**	**.11018**	**.05060**	**.01813**
Stddev	.00003	.00023	.00095	.00035	.00037	.00026
%RSD	.64842	.71663	25.438	.31859	.74102	1.4256
#1	.00524	.03207	.00384	.11008	.05070	.01830
#2	.00517	.03222	.00462	.11057	.05018	.01826
#3	.00520	.03252	.00273	.10989	.05090	.01783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49862.**	**42168.**
Stddev	191.	279.
%RSD	.38308	.66134
#1	49660.	42248.
#2	50040.	41858.
#3	49887.	42398.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 12:36:18 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40000**	**9.8087**	**.39639**	**.50032**	**.98368**	**.04998**	**9.6932**
Stddev	.00259	.0250	.00143	.00158	.00116	.00026	.0272
%RSD	.64737	.25447	.36140	.31523	.11842	.51530	.28050
#1	.39712	9.7801	.39477	.49855	.98421	.04969	9.6624
#2	.40213	9.8265	.39688	.50080	.98448	.05006	9.7034
#3	.40075	9.8194	.39751	.50160	.98234	.05018	9.7139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05043**	**.20219**	**.50539**	**.50629**	**3.9229**	**48.944**	**.98779**
Stddev	.00029	.00078	.00181	.00207	.0056	.115	.00092
%RSD	.56757	.38736	.35840	.40817	.14391	.23445	.09356
#1	.05040	.20170	.50416	.50545	3.9220	48.822	.98682
#2	.05016	.20177	.50455	.50477	3.9290	49.050	.98788
#3	.05073	.20309	.50747	.50864	3.9178	48.959	.98866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7016**	**.48162**	**1.0026**	**48.984**	**.50524**	**9.9069**	**.50453**
Stddev	.0303	.00205	.0021	.190	.00164	.0370	.00307
%RSD	.31275	.42628	.21000	.38827	.32513	.37367	.60925
#1	9.6670	.47925	1.0019	48.771	.50505	9.9004	.50163
#2	9.7140	.48285	1.0010	49.044	.50370	9.8735	.50422
#3	9.7238	.48277	1.0050	49.136	.50697	9.9467	.50775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 12:36:18 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **78.749**	**10.045**	F **24.332**	**1.1918**	**.39652**	**4.9938**	**.99895**
Stddev	40.864	.019	4.151	.0050	.00129	.0200	.00269
%RSD	51.892	.18914	17.060	.41740	.32632	.39983	.26974
#1	82.440	10.046	20.339	1.1920	.39765	4.9791	.99766
#2	36.165	10.025	24.032	1.1868	.39511	4.9857	.99714
#3	117.64	10.063	28.625	1.1967	.39680	5.0165	1.0020
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96887**	**.97690**	**.50497**	**.99681**	**1.0051**	**.98954**
Stddev	.00237	.00292	.00286	.00504	.0024	.00271
%RSD	.24482	.29866	.56725	.50574	.24065	.27357
#1	.96623	.97423	.50427	.99106	1.0043	.98642
#2	.96956	.98001	.50252	.99888	1.0032	.99093
#3	.97082	.97646	.50812	1.0005	1.0079	.99126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47877.**	**42007.**
Stddev	55.	204.
%RSD	.11476	.48681
#1	47832.	42184.
#2	47939.	41783.
#3	47862.	42053.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 12:39:40 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00496**	**.00015**	**.00137**	**.00022**	**.00001**	**.00023**
Stddev	.00066	.00062	.00112	.00036	.00009	.00003	.01007
%RSD	392.59	12.474	774.43	26.182	40.033	311.45	4303.6
#1	-.00018	.00564	-.00115	.00134	.00014	.00004	-.00895
#2	-.00082	.00484	.00078	.00175	.00021	-.00001	-.00134
#3	.00050	.00442	.00081	.00103	.00031	.00000	.01100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00012**	**-.00019**	**-.00005**	**.00337**	**.09760**	**-.00449**
Stddev	.00009	.00011	.00054	.00018	.00325	.01060	.00107
%RSD	58.819	89.563	280.66	352.44	96.370	10.860	23.834
#1	-.00006	-.00012	-.00077	-.00018	.00683	.10956	-.00330
#2	-.00024	-.00001	.00031	.00016	.00290	.08936	-.00481
#3	-.00014	-.00023	-.00013	-.00014	.00038	.09389	-.00536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01328**	**-.00001**	**-.00017**	**-.01532**	**-.00014**	**.00161**	**.00011**
Stddev	.01127	.00037	.00010	.00166	.00013	.00350	.00037
%RSD	84.865	7406.2	57.145	10.870	91.900	217.92	336.22
#1	-.02556	.00041	-.00022	-.01713	-.00005	.00184	.00048
#2	-.01083	-.00014	-.00006	-.01385	-.00029	-.00200	.00012
#3	-.00343	-.00029	-.00023	-.01497	-.00009	.00498	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 12:39:40 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **168.71**	**-.01150**	F **10.247**	**-.00015**	**-.00235**	**.00025**	**-.00050**
Stddev	62.71	.03798	7.420	.00068	.00151	.00034	.00037
%RSD	37.171	330.44	72.416	461.64	64.364	137.46	75.319
#1	142.20	.02856	6.4538	.00048	-.00069	.00027	-.00076
#2	123.61	-.04699	18.797	-.00087	-.00365	-.00010	-.00067
#3	240.33	-.01605	5.4896	-.00005	-.00269	.00058	-.00007
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00035**	**.00000**	**.00004**	**.00030**	**.00002**
Stddev	.00000	.00066	.0010	.00011	.00028	.00008
%RSD	17.782	187.45	30160.	268.56	94.135	327.28
#1	.00002	-.00007	-.00086	.00014	.00034	.00000
#2	.00002	.00111	-.00023	-.00007	.00000	-.00004
#3	.00002	.00001	.00108	.00005	.00055	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48196.**	**41418.**
Stddev	79.	670.
%RSD	.16302	1.6175
#1	48113.	41891.
#2	48270.	41712.
#3	48206.	40651.

Approved: March 30, 2011

Sample Name: L1103089302 Acquired: 3/29/2011 12:43:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01698**	**321.97**	**1.0151**	**.41589**	**1.0228**	**.01252**	**25.421**
Stddev	.00038	6.35	.0362	.00386	.0070	.00025	.183
%RSD	2.2649	1.9722	3.5633	.92847	.68710	2.0255	.72095
#1	.01741	329.19	1.0553	.41144	1.0200	.01280	25.295
#2	.01688	319.42	1.0049	.41837	1.0308	.01243	25.631
#3	.01666	317.29	.98516	.41786	1.0176	.01232	25.336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02375**	**.14312**	**1.9817**	**.20067**	**825.15**	**8.9713**	**.21599**
Stddev	.00037	.00485	.0302	.01020	2.99	.0738	.00156
%RSD	1.5450	3.3918	1.5258	5.0817	.36275	.82223	.72357
#1	.02415	.14852	2.0166	.21195	822.84	8.8909	.21592
#2	.02369	.14174	1.9633	.19796	828.53	9.0358	.21759
#3	.02342	.13910	1.9653	.19210	824.08	8.9872	.21447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.6378**	**12.125**	**.02794**	**.78328**	**.17287**	**6.4618**	**.38151**
Stddev	.1133	.093	.00091	.00485	.00591	.2454	.01425
%RSD	1.3111	.76547	3.2520	.61884	3.4186	3.7975	3.7345
#1	8.5110	12.060	.02874	.78037	.17952	6.7358	.39692
#2	8.6734	12.231	.02813	.78887	.17085	6.3871	.37882
#3	8.7290	12.084	.02695	.78059	.16824	6.2624	.36881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089302 Acquired: 3/29/2011 12:43:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **96.380**	F **98.712**	F **-22353.**	**.02459**	**.01041**	**3.1681**	**.02724**
Stddev	19.395	3.855	714.	.00506	.00401	.1049	.00119
%RSD	20.124	3.9050	3.1925	20.580	38.547	3.3097	4.3606
#1	81.653	103.10	-23157.	.03037	.00582	3.2818	.02826
#2	118.36	97.155	-22110.	.02100	.01213	3.1473	.02753
#3	89.131	95.879	-21793.	.02239	.01328	3.0752	.02594
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14429**	**.43530**	**.05593**	**2.0177**	**1.1969**	**.35816**
Stddev	.00099	.00410	.00107	.0388	.0359	.00444
%RSD	.68945	.94224	1.9151	1.9220	2.9972	1.2385
#1	.14378	.43145	.05671	2.0618	1.2362	.36328
#2	.14544	.43962	.05471	2.0021	1.1885	.35533
#3	.14366	.43484	.05638	1.9891	1.1660	.35589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46610.**	**43667.**
Stddev	1095.	164.
%RSD	2.3502	.37644
#1	45416.	43856.
#2	46845.	43578.
#3	47568.	43565.

Approved: March 30, 2011

Sample Name: L1103089303 Acquired: 3/29/2011 12:47:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02159**	**349.52**	**.81873**	**.54886**	**.79163**	**.01328**	**22.575**
Stddev	.00058	1.95	.00582	.00791	.00139	.00004	.112
%RSD	2.6685	.55904	.71050	1.4407	.17549	.32744	.49511
#1	.02162	350.37	.81740	.55664	.79009	.01327	22.481
#2	.02100	347.28	.81369	.54083	.79280	.01332	22.545
#3	.02215	350.90	.82509	.54911	.79198	.01324	22.698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02072**	**.10712**	**2.6777**	**.22906**	F **1076.8**	**7.8988**	**.22491**
Stddev	.00024	.00025	.0104	.00215	11.1	.0259	.00034
%RSD	1.1544	.23367	.39001	.93899	1.0296	.32830	.15126
#1	.02098	.10684	2.6724	.22659	1085.8	7.8849	.22470
#2	.02067	.10719	2.6897	.23052	1064.4	7.8827	.22474
#3	.02051	.10732	2.6709	.23006	1080.1	7.9287	.22531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					900.00		
Low Limit					-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.1017**	**7.0014**	**.03168**	**.47291**	**.15755**	**6.3626**	**.37691**
Stddev	.0628	.0400	.00026	.00304	.00044	.0132	.00287
%RSD	.77486	.57098	.81468	.64236	.27784	.20670	.76100
#1	8.0979	6.9751	.03155	.47405	.15742	6.3478	.37373
#2	8.0409	6.9816	.03197	.46947	.15804	6.3669	.37931
#3	8.1663	7.0474	.03151	.47522	.15719	6.3731	.37767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089303 Acquired: 3/29/2011 12:47:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **42.260**	F **96.405**	F **-22822.**	**.02556**	**.00596**	**3.3214**	**.03632**
Stddev	89.281	.482	100.	.00298	.00232	.0061	.00024
%RSD	211.27	.49950	.43835	11.654	38.942	.18450	.65550
#1	45.252	96.079	-22812.	.02515	.00329	3.3157	.03605
#2	-48.480	96.178	-22726.	.02872	.00745	3.3206	.03648
#3	130.01	96.958	-22926.	.02280	.00714	3.3279	.03644
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15488**	**.49819**	**.07436**	**2.5507**	**1.2375**	**.46267**
Stddev	.00080	.00100	.00127	.0078	.0060	.00196
%RSD	.51799	.20167	1.7144	.30775	.48303	.42373
#1	.15415	.49703	.07575	2.5465	1.2386	.46380
#2	.15474	.49879	.07324	2.5597	1.2429	.46380
#3	.15574	.49874	.07409	2.5458	1.2311	.46040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47163.**	**42777.**
Stddev	164.	282.
%RSD	.34762	.65822
#1	47093.	42648.
#2	47045.	43100.
#3	47350.	42583.

Approved: March 30, 2011

Sample Name: L1103089304 Acquired: 3/29/2011 12:50:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00906**	**335.83**	**.56668**	**.21475**	**1.8389**	**.01457**	**19.898**
Stddev	.00024	2.44	.00440	.00367	.0118	.00006	.058
%RSD	2.6727	.72650	.77583	1.7081	.64076	.39260	.29245
#1	.00898	338.21	.57097	.21166	1.8356	.01462	19.845
#2	.00934	335.94	.56690	.21378	1.8519	.01457	19.960
#3	.00887	333.33	.56218	.21880	1.8290	.01451	19.888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01373**	**.18206**	**1.1216**	**.16381**	**402.04**	**11.138**	**.24139**
Stddev	.00017	.00131	.0038	.00254	5.69	.047	.00086
%RSD	1.2029	.72230	.33699	1.5527	1.4163	.42545	.35605
#1	.01354	.18318	1.1252	.16575	397.85	11.084	.24149
#2	.01385	.18237	1.1219	.16474	399.76	11.170	.24219
#3	.01380	.18061	1.1177	.16093	408.52	11.161	.24048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.999**	**20.344**	**.01373**	**.63811**	**.20363**	**5.1919**	**.48521**
Stddev	.068	.069	.00035	.00293	.00071	.0458	.00272
%RSD	.56416	.33911	2.5180	.45849	.34854	.88197	.56066
#1	11.923	20.279	.01409	.64057	.20420	5.2205	.48833
#2	12.020	20.416	.01369	.63887	.20387	5.2161	.48390
#3	12.054	20.337	.01341	.63487	.20284	5.1391	.48339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103089304 Acquired: 3/29/2011 12:50:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-66.219**	F **89.356**	F **-20521.**	**.01346**	**.01706**	**2.0782**	**.01862**
Stddev	34.449	.817	117.	.00256	.00238	.0274	.00029
%RSD	52.022	.91463	.57065	19.058	13.947	1.3203	1.5394
#1	-73.174	89.942	-20623.	.01563	.01646	2.0959	.01890
#2	-96.660	89.702	-20547.	.01411	.01968	2.0921	.01832
#3	-28.824	88.422	-20393.	.01063	.01504	2.0466	.01863
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15171**	**.70633**	**.01900**	**.97918**	**1.1570**	**.22977**
Stddev	.00082	.00254	.00125	.00266	.0047	.00077
%RSD	.53747	.35980	6.5581	.27176	.40940	.33563
#1	.15078	.70353	.02016	.98183	1.1621	.22959
#2	.15232	.70850	.01914	.97922	1.1528	.23061
#3	.15202	.70695	.01768	.97651	1.1560	.22910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50322.**	**47448.**
Stddev	147.	110.
%RSD	.29139	.23172
#1	50158.	47407.
#2	50370.	47573.
#3	50439.	47365.

Approved: March 30, 2011

Sample Name: LRC Acquired: 3/29/2011 12:54:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01529**	**.01682**	F **99.721**	**.00053**	**.00025**	**.00044**	**-.00052**
Stddev	.00080	.00343	.994	.00057	.00005	.00002	.00349
%RSD	5.2025	20.412	.99684	109.16	21.487	5.5033	666.77
#1	.01455	.02007	100.83	.00044	.00027	.00046	.00332
#2	.01613	.01715	98.923	.00114	.00030	.00043	-.00138
#3	.01518	.01323	99.405	.00000	.00019	.00042	-.00351
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000				
Low Limit			-.01000				

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9417**	**-.00028**	**-.00031**	**.00120**	**.03980**	**.11688**	**-.00835**
Stddev	.0186	.00017	.00042	.00036	.00949	.03928	.00197
%RSD	.95787	60.061	137.90	30.096	23.830	33.603	23.646
#1	1.9626	-.00023	.00004	.00161	.05017	.07174	-.00937
#2	1.9269	-.00014	-.00019	.00108	.03767	.14326	-.00607
#3	1.9357	-.00046	-.00078	.00091	.03157	.13563	-.00960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01692**	**.00207**	**-.00018**	**-.02771**	**.00049**	**.02711**	**.00085**
Stddev	.01785	.00044	.00013	.00352	.00028	.00183	.00096
%RSD	105.52	20.995	73.433	12.687	56.603	6.7448	112.63
#1	-.03567	.00256	-.00003	-.03131	.00078	.02901	.00152
#2	-.00013	.00192	-.00023	-.02754	.00023	.02697	.00129
#3	-.01494	.00174	-.00029	-.02428	.00046	.02536	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: LRC Acquired: 3/29/2011 12:54:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **183.44**	**.24004**	F **-52.546**	**-.00260**	**-.00056**	**.00003**	**-.00003**
Stddev	72.89	.03874	5.196	.00033	.00240	.00232	.00014
%RSD	39.738	16.137	9.8877	12.831	427.20	8958.3	421.26
#1	128.69	.26719	-57.683	-.00293	-.00089	.00271	-.00015
#2	155.44	.25726	-47.294	-.00262	-.00278	-.00126	-.00008
#3	266.18	.19569	-52.660	-.00226	.00198	-.00137	.00013
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**-.00119**	**.00143**	**.00023**	**.00912**	**.00010**
Stddev	.00006	.00102	.00173	.00025	.00208	.00014
%RSD	20.197	85.577	120.80	107.25	22.789	138.50
#1	.00023	-.00006	-.00049	.00008	.01151	-.00002
#2	.00034	-.00148	.00286	.00052	.00770	.00025
#3	.00031	-.00204	.00192	.00010	.00816	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49748.**	**41998.**
Stddev	382.	137.
%RSD	.76877	.32715
#1	49328.	42152.
#2	50076.	41889.
#3	49841.	41952.

Approved: March 30, 2011

Sample Name: L1103069332 Acquired: 3/29/2011 12:58:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00542**	**298.13**	**.11452**	**.21251**	**2.5878**	**.01623**	**31.054**
Stddev	.00082	.74	.00082	.00159	.0133	.00008	.154
%RSD	15.146	.24824	.71364	.74713	.51249	.49643	.49599
#1	.00454	297.88	.11472	.21090	2.5785	.01627	30.877
#2	.00616	297.55	.11363	.21407	2.6030	.01614	31.131
#3	.00556	298.97	.11522	.21256	2.5819	.01629	31.155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00624**	**.33615**	**.36970**	**.17284**	**351.95**	**22.967**	**.19935**
Stddev	.00007	.00112	.00121	.00162	1.82	.140	.00171
%RSD	1.1266	.33222	.32621	.93869	.51632	.61143	.85857
#1	.00622	.33727	.36933	.17336	350.14	22.805	.19741
#2	.00632	.33616	.36872	.17414	353.77	23.050	.20065
#3	.00618	.33503	.37104	.17102	351.94	23.047	.20000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**35.355**	**15.776**	**.00821**	**13.723**	**.23339**	**2.4314**	**.49814**
Stddev	.282	.077	.00016	.095	.00060	.0124	.00205
%RSD	.79667	.48679	1.9636	.69495	.25651	.51027	.41180
#1	35.030	15.690	.00803	13.613	.23361	2.4450	.50006
#2	35.499	15.836	.00828	13.776	.23385	2.4286	.49598
#3	35.535	15.804	.00833	13.781	.23272	2.4207	.49838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069332 Acquired: 3/29/2011 12:58:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.598**	F **113.14**	F **-24507.**	**.00112**	**.01128**	**2.4894**	**.01497**
Stddev	48.628	.62	54.	.00130	.00198	.0080	.00062
%RSD	419.27	.54743	.22123	115.68	17.527	.32156	4.1342
#1	67.727	113.65	-24549.	.00262	.00904	2.4978	.01521
#2	-15.088	113.33	-24446.	.00053	.01277	2.4885	.01544
#3	-17.844	112.45	-24525.	.00023	.01203	2.4818	.01427
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.32483**	**.70226**	**.00851**	**.59956**	**.67581**	**.17827**
Stddev	.00171	.00330	.00016	.00271	.00149	.00061
%RSD	.52522	.46983	1.9373	.45238	.22026	.33974
#1	.32288	.69851	.00867	.60066	.67695	.17758
#2	.32559	.70472	.00853	.59647	.67413	.17855
#3	.32603	.70356	.00834	.60154	.67637	.17868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47374.**	**42863.**
Stddev	157.	74.
%RSD	.33231	.17300
#1	47197.	42777.
#2	47423.	42908.
#3	47501.	42902.

Approved: March 30, 2011

Sample Name: L1103069333 Acquired: 3/29/2011 13:01:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00552**	**234.45**	**.13972**	**.24828**	**2.0797**	**.01533**	**60.139**
Stddev	.00068	1.03	.00314	.00153	.0168	.00003	.564
%RSD	12.358	.43789	2.2444	.61752	.80759	.20831	.93728
#1	.00629	233.58	.13610	.24664	2.0623	.01536	59.564
#2	.00525	234.20	.14149	.24850	2.0810	.01532	60.162
#3	.00501	235.58	.14157	.24968	2.0958	.01530	60.690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01044**	**.20820**	**.38384**	**.17440**	**398.20**	**21.989**	**.16560**
Stddev	.00010	.00100	.00075	.00069	2.38	.144	.00179
%RSD	1.0036	.48075	.19484	.39328	.59757	.65271	1.0825
#1	.01056	.20792	.38470	.17376	395.87	21.832	.16415
#2	.01038	.20736	.38343	.17432	398.09	22.020	.16505
#3	.01038	.20931	.38339	.17512	400.63	22.114	.16760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.557**	**11.610**	**.01252**	**1.3030**	**.20789**	**6.1157**	**.69242**
Stddev	.141	.118	.00025	.0113	.00058	.0238	.00233
%RSD	.46046	1.0194	1.9956	.86799	.27990	.38957	.33655
#1	30.463	11.484	.01280	1.2918	.20813	6.1079	.69471
#2	30.490	11.626	.01232	1.3028	.20722	6.0967	.69005
#3	30.719	11.719	.01244	1.3144	.20831	6.1424	.69249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069333 Acquired: 3/29/2011 13:01:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **63.696**	F **185.21**	F **-39550.**	**.00102**	**.01367**	**2.8008**	**.01527**
Stddev	26.235	1.16	23.	.00146	.00139	.0037	.00008
%RSD	41.188	.62430	.05734	142.62	10.152	.13100	.53809
#1	86.622	184.30	-39554.	-.00059	.01526	2.7983	.01525
#2	69.380	184.81	-39525.	.00140	.01303	2.7990	.01536
#3	35.084	186.51	-39570.	.00225	.01271	2.8050	.01520
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43817**	**.43359**	**.01052**	**.61172**	**1.2187**	**.13607**
Stddev	.00384	.00202	.00215	.00267	.0048	.00044
%RSD	.87548	.46573	20.394	.43574	.39239	.32263
#1	.43396	.43215	.00916	.61479	1.2234	.13582
#2	.43912	.43273	.01300	.60994	1.2139	.13582
#3	.44145	.43590	.00941	.61044	1.2188	.13658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47006.**	**43162.**
Stddev	108.	234.
%RSD	.22912	.54150
#1	46896.	42924.
#2	47111.	43391.
#3	47010.	43171.

Approved: March 30, 2011

Sample Name: L1103069337 Acquired: 3/29/2011 13:05:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00589**	**222.67**	**.13087**	**.25920**	**2.3429**	**.01087**	**139.77**
Stddev	.00050	2.21	.00190	.00094	.0072	.00005	.10
%RSD	8.4770	.99109	1.4521	.36415	.30751	.48682	.06914
#1	.00645	220.31	.13288	.25896	2.3513	.01093	139.88
#2	.00548	223.04	.13064	.26024	2.3390	.01083	139.71
#3	.00574	224.68	.12910	.25840	2.3386	.01085	139.72
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01768**	**.11705**	**.41993**	**.33312**	**369.95**	**26.372**	**.18246**
Stddev	.00006	.00043	.00207	.00146	.58	.020	.00030
%RSD	.32886	.36446	.49350	.43915	.15689	.07681	.16595
#1	.01768	.11666	.42210	.33144	370.58	26.395	.18251
#2	.01775	.11751	.41971	.33413	369.45	26.366	.18213
#3	.01763	.11700	.41798	.33379	369.81	26.356	.18272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.866**	**9.6958**	**.01342**	**1.6806**	**.24562**	**7.7255**	**1.3873**
Stddev	.102	.0066	.00027	.0060	.00054	.0104	.0032
%RSD	.34128	.06847	2.0428	.35743	.22123	.13454	.22964
#1	29.934	9.7029	.01373	1.6783	.24587	7.7203	1.3883
#2	29.749	9.6898	.01320	1.6761	.24600	7.7375	1.3898
#3	29.915	9.6947	.01333	1.6874	.24500	7.7188	1.3837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069337 Acquired: 3/29/2011 13:05:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.056**	F **278.46**	F **-43707.**	**.00754**	**.01182**	**1.8847**	**.05547**
Stddev	3.112	.20	52.	.00085	.00256	.0077	.00060
%RSD	30.945	.07222	.11985	11.269	21.691	.41013	1.0748
#1	13.620	278.24	-43651.	.00843	.01167	1.8886	.05512
#2	7.8816	278.64	-43755.	.00674	.00933	1.8897	.05514
#3	8.6652	278.50	-43714.	.00745	.01445	1.8758	.05616
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.64978**	**.50948**	**.00834**	**.44704**	**3.6352**	**.09501**
Stddev	.00090	.00136	.00100	.00159	.0067	.00011
%RSD	.13838	.26723	11.943	.35541	.18366	.11135
#1	.65079	.51103	.00934	.44823	3.6426	.09513
#2	.64949	.50896	.00834	.44523	3.6296	.09493
#3	.64906	.50845	.00735	.44765	3.6334	.09497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46830.**	**44137.**
Stddev	150.	102.
%RSD	.32125	.23171
#1	46727.	44024.
#2	46761.	44164.
#3	47003.	44223.

Approved: March 30, 2011

Sample Name: L1103069338 Acquired: 3/29/2011 13:08:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00459**	**226.76**	**.12792**	**.21547**	**2.4359**	**.01119**	**138.17**
Stddev	.00039	2.23	.00063	.00066	.0080	.00000	.32
%RSD	8.5677	.98471	.49369	.30808	.32911	.02253	.22873
#1	.00488	224.37	.12848	.21610	2.4278	.01119	137.81
#2	.00415	228.80	.12723	.21478	2.4361	.01119	138.36
#3	.00475	227.09	.12805	.21552	2.4438	.01119	138.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01554**	**.13489**	**.32067**	**.31956**	**341.73**	**22.861**	**.17281**
Stddev	.00003	.00056	.00045	.00003	.96	.034	.00036
%RSD	.19057	.41588	.14113	.01094	.28231	.14943	.21049
#1	.01551	.13438	.32094	.31955	340.67	22.827	.17274
#2	.01555	.13549	.32091	.31959	341.98	22.860	.17248
#3	.01556	.13481	.32014	.31952	342.56	22.895	.17320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.698**	**10.446**	**.01346**	**1.3020**	**.23953**	**6.2833**	**1.3285**
Stddev	.061	.035	.00017	.0055	.00062	.0139	.0021
%RSD	.22197	.33801	1.2856	.41953	.26081	.22186	.15972
#1	27.640	10.407	.01356	1.2968	.24016	6.2697	1.3306
#2	27.692	10.456	.01356	1.3077	.23952	6.2826	1.3264
#3	27.762	10.475	.01326	1.3015	.23891	6.2976	1.3285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069338 Acquired: 3/29/2011 13:08:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-19.776**	F **238.14**	F **-31833.**	**.00938**	**.01048**	**2.5947**	**.06214**
Stddev	54.174	.78	49.	.00070	.00145	.0082	.00013
%RSD	273.94	.32630	.15471	7.4419	13.860	.31704	.20421
#1	-46.724	237.25	-31867.	.00858	.01041	2.5858	.06202
#2	-55.191	238.69	-31856.	.00964	.00906	2.6021	.06214
#3	42.588	238.48	-31777.	.00990	.01197	2.5962	.06227
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.81804**	**.40017**	**.00660**	**.44029**	**3.1023**	**.10142**
Stddev	.00130	.00177	.00043	.00103	.0024	.00023
%RSD	.15833	.44238	6.4609	.23421	.07574	.22935
#1	.81721	.39869	.00613	.43913	3.0997	.10165
#2	.81953	.40213	.00669	.44063	3.1030	.10119
#3	.81737	.39969	.00697	.44110	3.1042	.10142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46930.**	**44986.**
Stddev	10.	183.
%RSD	.02194	.40693
#1	46932.	44874.
#2	46919.	44888.
#3	46939.	45198.

Approved: March 30, 2011

Sample Name: L1103069339 Acquired: 3/29/2011 13:12:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00400**	**235.48**	**.12897**	**.21522**	**2.1497**	**.01586**	**40.648**
Stddev	.00016	1.64	.00126	.00143	.0044	.00007	.229
%RSD	4.0048	.69587	.97461	.66429	.20474	.43353	.56283
#1	.00414	233.62	.12830	.21685	2.1548	.01580	40.815
#2	.00403	236.68	.13042	.21459	2.1474	.01584	40.742
#3	.00382	236.16	.12818	.21421	2.1470	.01594	40.387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00790**	**.16376**	**.38244**	**.16298**	**371.69**	**21.601**	**.16348**
Stddev	.00010	.00051	.00344	.00161	1.72	.089	.00123
%RSD	1.2099	.31049	.89963	.98979	.46316	.41231	.75361
#1	.00779	.16349	.38131	.16224	373.15	21.676	.16374
#2	.00795	.16343	.37970	.16186	372.12	21.624	.16214
#3	.00795	.16434	.38630	.16483	369.79	21.502	.16456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.141**	**9.2631**	**.01057**	**1.7203**	**.21099**	**5.0525**	**.45748**
Stddev	.213	.0497	.00028	.0127	.00103	.0300	.00286
%RSD	.70807	.53677	2.6695	.73974	.48708	.59417	.62566
#1	30.247	9.3063	.01083	1.7272	.21024	5.0372	.45488
#2	30.281	9.2742	.01027	1.7280	.21058	5.0332	.45701
#3	29.895	9.2087	.01060	1.7056	.21216	5.0871	.46055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069339 Acquired: 3/29/2011 13:12:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-54.482**	F **155.03**	F **-35015.**	**.00414**	**.01146**	**2.5650**	**.01325**
Stddev	71.546	.68	152.	.00091	.00075	.0102	.00004
%RSD	131.32	.43897	.43340	21.916	6.5017	.39881	.30091
#1	17.170	154.72	-34948.	.00385	.01065	2.5698	.01330
#2	-54.694	154.55	-34908.	.00340	.01211	2.5532	.01323
#3	-125.92	155.81	-35189.	.00515	.01162	2.5720	.01323
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29723**	**.41877**	**.01106**	**.58204**	**.84821**	**.14972**
Stddev	.00148	.00210	.00217	.00349	.00270	.00060
%RSD	.49696	.50214	19.670	.60047	.31884	.40383
#1	.29825	.42092	.00948	.57934	.84675	.14986
#2	.29789	.41868	.01354	.58079	.84655	.14906
#3	.29553	.41672	.01015	.58599	.85133	.15024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47795.**	**45808.**
Stddev	85.	516.
%RSD	.17866	1.1256
#1	47829.	45452.
#2	47858.	45572.
#3	47698.	46399.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 13:16:06 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41081**	**10.010**	**.40169**	**.50650**	**.97908**	**.05038**	**9.7481**
Stddev	.00474	.046	.00093	.00461	.00269	.00045	.0388
%RSD	1.1534	.46410	.23176	.91093	.27449	.88708	.39766
#1	.40801	9.9925	.40166	.50287	.97973	.04995	9.7035
#2	.40815	9.9751	.40077	.50492	.98139	.05035	9.7670
#3	.41629	10.063	.40263	.51169	.97613	.05084	9.7738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05071**	**.20419**	**.50701**	**.50927**	**3.8498**	**49.142**	**.98045**
Stddev	.00032	.00079	.00381	.00216	.0198	.170	.00310
%RSD	.63372	.38536	.75224	.42472	.51526	.34554	.31579
#1	.05037	.20329	.50290	.50740	3.8423	49.011	.98189
#2	.05074	.20452	.50768	.50877	3.8723	49.334	.98256
#3	.05101	.20476	.51044	.51164	3.8349	49.081	.97689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5444**	**.47956**	**1.0025**	**49.494**	**.50696**	**9.9728**	**.50475**
Stddev	.0279	.00149	.0037	.177	.00182	.0378	.00302
%RSD	.29225	.30973	.37129	.35814	.35921	.37887	.59896
#1	9.5311	.47789	.99845	49.296	.50506	9.9350	.50218
#2	9.5765	.48005	1.0033	49.639	.50712	9.9728	.50808
#3	9.5257	.48074	1.0058	49.545	.50869	10.011	.50399
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 13:16:06 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **165.87**	**10.234**	F **-2.9280**	**1.2133**	**.40200**	**5.0630**	**1.0079**
Stddev	76.87	.045	3.6834	.0045	.00192	.0256	.0082
%RSD	46.345	.43624	125.80	.37312	.47784	.50568	.80963
#1	196.90	10.195	-5.3026	1.2081	.39986	5.0380	.99911
#2	78.331	10.225	1.3151	1.2162	.40258	5.0619	1.0152
#3	222.37	10.283	-4.7965	1.2157	.40357	5.0891	1.0094
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97651**	**.97178**	**.51425**	**1.0135**	**.99610**	**1.0048**
Stddev	.00330	.00134	.00261	.0077	.00371	.0060
%RSD	.33768	.13791	.50794	.76236	.37229	.59730
#1	.97295	.97060	.51128	1.0080	.99183	1.0010
#2	.97946	.97324	.51529	1.0102	.99806	1.0016
#3	.97711	.97150	.51618	1.0223	.99842	1.0117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48982.**	**44476.**
Stddev	218.	309.
%RSD	.44461	.69398
#1	49190.	44774.
#2	48999.	44497.
#3	48756.	44157.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 13:19:30 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.01160**	**.00033**	**.00210**	**-.00013**	**.00001**	**.00863**
Stddev	.00013	.00074	.00053	.00055	.00008	.00001	.00671
%RSD	30.274	6.3799	160.96	26.228	62.984	58.671	77.817
#1	-.00041	.01085	-.00005	.00272	-.00022	.00002	.01406
#2	-.00031	.01164	.00011	.00191	-.00005	.00002	.00112
#3	-.00056	.01233	.00093	.00167	-.00012	.00000	.01071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00004**	**-.00030**	**.00024**	**.00114**	**.14185**	**-.00679**
Stddev	.00006	.00027	.00017	.00036	.00147	.01430	.00093
%RSD	228.74	599.17	57.602	147.48	129.67	10.082	13.738
#1	.00003	-.00022	-.00049	-.00001	.00233	.14358	-.00591
#2	-.00002	.00004	-.00014	.00009	-.00051	.15521	-.00777
#3	-.00008	.00032	-.00028	.00066	.00159	.12677	-.00671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01194**	**-.00027**	**-.00003**	**-.00633**	**-.00004**	**.00009**	**-.00128**
Stddev	.01078	.00046	.00012	.01062	.00025	.00211	.00047
%RSD	90.304	169.49	368.53	167.61	552.87	2382.5	36.941
#1	-.01277	.00014	.00001	.00274	.00014	.00001	-.00074
#2	-.00077	-.00076	.00006	-.01801	-.00033	.00224	-.00160
#3	-.02228	-.00019	-.00017	-.00373	.00005	-.00198	-.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 13:19:30 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **110.06**	**-.00229**	F **1.3505**	**-.00020**	**.00050**	**.00048**	**-.00006**
Stddev	102.71	.04655	8.6202	.00046	.00261	.00117	.00014
%RSD	93.320	2036.8	638.32	235.04	524.84	242.43	240.45
#1	-8.5326	.00239	-5.4975	-.00045	.00138	-.00060	-.00022
#2	168.50	-.05100	-1.4816	-.00048	-.00243	.00173	.00005
#3	170.22	.04175	11.030	.00034	.00255	.00032	-.00001
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00051**	**-.00033**	**.00013**	**.00052**	**.00019**
Stddev	.00009	.00092	.00034	.00011	.00063	.00018
%RSD	254.61	178.56	102.47	82.414	119.95	94.129
#1	.00000	.00124	-.00048	.00025	.00016	.00033
#2	.00003	.00082	-.00057	.00010	.00016	.00026
#3	-.00014	-.00052	.00006	.00004	.00125	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48725.**	**43750.**
Stddev	82.	367.
%RSD	.16801	.83974
#1	48769.	44114.
#2	48776.	43380.
#3	48631.	43756.

Approved: March 30, 2011

Sample Name: LLCCV Acquired: 3/29/2011 13:23:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01913**	**.46383**	**.01989**	**.02492**	**.04612**	**.00236**	**.46706**
Stddev	.00064	.00070	.00125	.00052	.00017	.00001	.00200
%RSD	3.3426	.15087	6.2920	2.1030	.37090	.62521	.42720
#1	.01846	.46315	.01856	.02431	.04606	.00234	.46708
#2	.01973	.46455	.02104	.02526	.04599	.00237	.46905
#3	.01921	.46379	.02009	.02518	.04632	.00237	.46506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00231**	**.00976**	**.02375**	**.02478**	**.18183**	**2.4478**	**.03985**
Stddev	.00005	.00014	.00029	.00035	.00119	.0281	.00093
%RSD	2.1418	1.4246	1.2376	1.4107	.65510	1.1481	2.3322
#1	.00237	.00992	.02345	.02512	.18050	2.4154	.04066
#2	.00228	.00968	.02404	.02442	.18281	2.4640	.03884
#3	.00229	.00967	.02376	.02480	.18217	2.4641	.04004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44520**	**.02305**	**.04753**	**2.2853**	**.02486**	**.46956**	**.02476**
Stddev	.01464	.00036	.00035	.0101	.00025	.00399	.00045
%RSD	3.2878	1.5782	.72946	.44147	1.0214	.85028	1.8080
#1	.44078	.02264	.04719	2.2739	.02482	.46574	.02425
#2	.46153	.02333	.04754	2.2886	.02514	.47371	.02506
#3	.43328	.02319	.04788	2.2932	.02464	.46923	.02498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: LLCCV Acquired: 3/29/2011 13:23:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **90.343**	**.54907**	F **-8.1236**	**.05683**	**.01877**	**.24068**	**.04749**
Stddev	101.64	.01221	9.4550	.00121	.00085	.00083	.00027
%RSD	112.51	2.2237	116.39	2.1361	4.5306	.34501	.57045
#1	8.5063	.54464	-6.6687	.05650	.01860	.23975	.04720
#2	204.12	.56288	-18.222	.05817	.01801	.24136	.04773
#3	58.402	.53970	.5197	.05581	.01969	.24091	.04753
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04587**	**.04735**	**.02476**	**.04785**	**.05063**	**.04699**
Stddev	.00032	.00028	.00062	.00035	.00060	.00038
%RSD	.70358	.58501	2.4939	.73452	1.1856	.81307
#1	.04550	.04750	.02406	.04770	.05124	.04723
#2	.04607	.04752	.02519	.04759	.05004	.04720
#3	.04605	.04703	.02505	.04825	.05061	.04655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48906.**	**43233.**
Stddev	82.	170.
%RSD	.16721	.39374
#1	48898.	43085.
#2	48991.	43196.
#3	48828.	43419.

Approved: March 30, 2011

Sample Name: L1103069340 Acquired: 3/29/2011 13:26:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00433**	**245.19**	**.13786**	**.22817**	**2.6536**	**.01921**	**25.091**
Stddev	.00025	1.40	.00063	.00150	.0137	.00004	.143
%RSD	5.7590	.57134	.45583	.65926	.51699	.22274	.57015
#1	.00459	243.77	.13767	.22741	2.6385	.01921	24.962
#2	.00410	245.25	.13857	.22990	2.6568	.01918	25.066
#3	.00430	246.57	.13736	.22719	2.6654	.01926	25.245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00585**	**.33342**	**.45404**	**.12658**	**428.64**	**15.678**	**.16185**
Stddev	.00010	.00042	.00179	.00052	1.32	.059	.00248
%RSD	1.6549	.12596	.39497	.41079	.30887	.37463	1.5323
#1	.00593	.33367	.45349	.12702	428.02	15.629	.15918
#2	.00587	.33366	.45258	.12673	430.16	15.662	.16229
#3	.00574	.33294	.45604	.12601	427.74	15.743	.16409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.333**	**16.443**	**.01002**	**2.7936**	**.20813**	**2.7638**	**.43752**
Stddev	.105	.111	.00033	.0121	.00093	.0154	.00623
%RSD	.43342	.67481	3.3323	.43163	.44712	.55592	1.4243
#1	24.437	16.361	.01016	2.7800	.20809	2.7598	.43456
#2	24.226	16.397	.01027	2.7978	.20908	2.7808	.44468
#3	24.336	16.569	.00964	2.8029	.20722	2.7509	.43333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069340 Acquired: 3/29/2011 13:26:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-103.01**	F **86.498**	F **-18791.**	**-.00015**	**.01419**	**2.1951**	**.01246**
Stddev	76.21	.225	104.	.00124	.00190	.0234	.00028
%RSD	73.984	.26041	.55253	851.71	13.413	1.0681	2.2495
#1	-29.422	86.293	-18745.	.00120	.01438	2.2115	.01279
#2	-98.013	86.739	-18910.	-.00037	.01220	2.2057	.01231
#3	-181.60	86.463	-18717.	-.00126	.01599	2.1683	.01229
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25875**	**.38504**	**.00973**	**.66893**	**.44428**	**.16608**
Stddev	.00163	.00116	.00054	.00226	.00026	.00022
%RSD	.62993	.30225	5.5716	.33814	.05920	.13306
#1	.25701	.38393	.01036	.66724	.44436	.16598
#2	.25900	.38494	.00937	.66806	.44450	.16633
#3	.26024	.38626	.00947	.67150	.44399	.16592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48249.**	**47010.**
Stddev	112.	624.
%RSD	.23169	1.3270
#1	48120.	46318.
#2	48308.	47529.
#3	48319.	47183.

Approved: March 30, 2011

Sample Name: L1103069341 Acquired: 3/29/2011 13:30:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00740**	**278.54**	**.13932**	**.24051**	**2.4779**	**.01465**	**62.397**
Stddev	.00007	.73	.00066	.00154	.0026	.00002	.174
%RSD	.97062	.26248	.47034	.64080	.10458	.12759	.27880
#1	.00748	279.30	.13949	.24081	2.4805	.01463	62.598
#2	.00739	278.48	.13860	.24188	2.4778	.01467	62.293
#3	.00733	277.84	.13987	.23884	2.4754	.01466	62.300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01463**	**.17327**	**.41031**	**.21550**	**350.53**	**31.813**	**.20179**
Stddev	.00013	.00011	.00120	.00068	.87	.017	.00119
%RSD	.92056	.06626	.29225	.31537	.24780	.05265	.58921
#1	.01473	.17327	.41002	.21505	351.53	31.832	.20239
#2	.01448	.17316	.41163	.21517	350.00	31.809	.20043
#3	.01469	.17339	.40929	.21628	350.05	31.799	.20257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**31.001**	**11.131**	**.01398**	**1.7591**	**.22204**	**10.201**	**1.1621**
Stddev	.103	.052	.00009	.0138	.00102	.014	.0032
%RSD	.33166	.46569	.66527	.78519	.46055	.14045	.27606
#1	31.114	11.190	.01407	1.7745	.22321	10.216	1.1592
#2	30.975	11.092	.01388	1.7480	.22159	10.188	1.1616
#3	30.913	11.110	.01400	1.7547	.22131	10.199	1.1656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069341 Acquired: 3/29/2011 13:30:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-107.14**	F **222.83**	F **-49854.**	**.00642**	**.01688**	**2.5660**	**.02378**
Stddev	28.45	.76	77.	.00183	.00211	.0054	.00030
%RSD	26.556	.34260	.15493	28.555	12.520	.20993	1.2819
#1	-139.33	222.01	-49927.	.00834	.01884	2.5696	.02413
#2	-96.713	222.97	-49773.	.00468	.01464	2.5687	.02357
#3	-85.366	223.52	-49861.	.00625	.01717	2.5598	.02363
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50808**	**.79052**	**.01177**	**.62125**	**1.8259**	**.13011**
Stddev	.00116	.00109	.00177	.00182	.0022	.00067
%RSD	.22739	.13761	15.014	.29333	.12254	.51658
#1	.50935	.79077	.01338	.62170	1.8237	.13016
#2	.50710	.78932	.00988	.62280	1.8258	.13075
#3	.50779	.79146	.01204	.61924	1.8282	.12941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47749.**	**46738.**
Stddev	66.	326.
%RSD	.13878	.69706
#1	47700.	46364.
#2	47723.	46888.
#3	47825.	46961.

Approved: March 30, 2011

Sample Name: L1103069342 Acquired: 3/29/2011 13:34:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00549**	**190.56**	**.12876**	**.19218**	**1.9856**	**.01526**	**25.080**
Stddev	.00022	1.14	.00157	.00127	.0044	.00003	.124
%RSD	3.9448	.59713	1.2164	.66031	.22372	.18856	.49549
#1	.00560	189.66	.12729	.19087	1.9805	.01527	24.948
#2	.00524	191.84	.12857	.19341	1.9882	.01528	25.098
#3	.00563	190.17	.13041	.19227	1.9881	.01522	25.194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01115**	**.20490**	**.37387**	**.16576**	**351.34**	**18.494**	**.12026**
Stddev	.00012	.00016	.00143	.00119	1.39	.088	.00159
%RSD	1.0764	.07750	.38211	.71970	.39656	.47457	1.3203
#1	.01102	.20495	.37247	.16469	349.73	18.427	.11935
#2	.01119	.20503	.37532	.16705	352.19	18.463	.12210
#3	.01125	.20472	.37381	.16554	352.09	18.594	.11934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.438**	**12.841**	**.01382**	**1.6855**	**.17011**	**9.8842**	**.76781**
Stddev	.122	.079	.00029	.0090	.00147	.0231	.00042
%RSD	.56962	.61753	2.0680	.53469	.86610	.23372	.05429
#1	21.300	12.753	.01372	1.6753	.16922	9.9062	.76748
#2	21.485	12.864	.01414	1.6889	.17181	9.8861	.76828
#3	21.530	12.906	.01360	1.6923	.16931	9.8602	.76767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103069342 Acquired: 3/29/2011 13:34:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.7234**	F **97.890**	F **-22732.**	**.00666**	**.01515**	**2.4641**	**.01997**
Stddev	68.672	.353	53.	.00153	.00091	.0156	.00022
%RSD	3984.7	.36074	.23194	22.944	6.0218	.63291	1.0977
#1	24.618	97.819	-22681.	.00814	.01613	2.4461	.01994
#2	-79.667	98.274	-22786.	.00509	.01433	2.4723	.01976
#3	49.878	97.579	-22729.	.00674	.01499	2.4737	.02020
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24303**	**.35096**	**.00830**	**.55298**	**1.5953**	**.11425**
Stddev	.00099	.00064	.00102	.00208	.0081	.00078
%RSD	.40744	.18225	12.301	.37618	.50861	.68599
#1	.24193	.35032	.00917	.55069	1.6043	.11334
#2	.24331	.35160	.00854	.55475	1.5932	.11467
#3	.24385	.35094	.00717	.55350	1.5885	.11473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48171.**	**46644.**
Stddev	204.	109.
%RSD	.42370	.23264
#1	48295.	46763.
#2	47936.	46551.
#3	48283.	46618.

Approved: March 30, 2011

Sample Name: L1103085101 Acquired: 3/29/2011 13:37:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00400**	**282.50**	**.25158**	**.39225**	**3.2388**	**.02514**	**97.341**
Stddev	.00069	1.43	.00268	.00852	.0108	.00007	.347
%RSD	17.200	.50711	1.0657	2.1718	.33469	.27769	.35663
#1	.00423	282.25	.24849	.39877	3.2504	.02509	97.710
#2	.00454	281.21	.25296	.38261	3.2370	.02522	97.021
#3	.00323	284.04	.25330	.39535	3.2289	.02510	97.290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01029**	**.33532**	**.42019**	**.60323**	**729.92**	**31.486**	**.41747**
Stddev	.00004	.00171	.00351	.00444	12.45	.123	.00153
%RSD	.34475	.51000	.83607	.73618	1.7058	.39042	.36568
#1	.01031	.33335	.41672	.59825	735.76	31.600	.41916
#2	.01025	.33638	.42375	.60466	715.63	31.355	.41620
#3	.01031	.33623	.42009	.60678	738.38	31.502	.41704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**58.065**	**17.383**	**.02860**	**6.6320**	**.71830**	**13.110**	**.35013**
Stddev	.574	.106	.00007	.0215	.00380	.060	.00248
%RSD	.98777	.61209	.24202	.32440	.52881	.45686	.70703
#1	58.286	17.477	.02852	6.6453	.71394	13.041	.34747
#2	57.414	17.267	.02865	6.6072	.72007	13.151	.35237
#3	58.496	17.403	.02862	6.6435	.72090	13.137	.35055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103085101 Acquired: 3/29/2011 13:37:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-69.099**	F **129.46**	F **-11790.**	**-.00329**	**.00823**	**2.1721**	**.01800**
Stddev	30.475	.67	30.	.00275	.00132	.0061	.00053
%RSD	44.104	.51906	.25305	83.372	16.032	.28086	2.9622
#1	-63.602	128.69	-11756.	-.00602	.00742	2.1662	.01819
#2	-101.95	129.79	-11802.	-.00053	.00975	2.1717	.01842
#3	-41.746	129.91	-11811.	-.00334	.00752	2.1784	.01740
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4102**	**.24260**	**.00918**	**.45210**	**1.5087**	**.18374**
Stddev	.0042	.00147	.00061	.00240	.0046	.00059
%RSD	.29423	.60426	6.6825	.53003	.30716	.32370
#1	1.4148	.24425	.00870	.44934	1.5036	.18414
#2	1.4067	.24145	.00897	.45342	1.5127	.18403
#3	1.4090	.24210	.00987	.45355	1.5098	.18306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48978.**	**48020.**
Stddev	17.	771.
%RSD	.03401	1.6061
#1	48987.	47358.
#2	48959.	48867.
#3	48988.	47835.

Approved: March 30, 2011

Sample Name: L1103085102 Acquired: 3/29/2011 13:41:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00859**	**320.77**	**.20840**	**.32116**	**2.9835**	**.02259**	**43.858**
Stddev	.00076	3.30	.00199	.00617	.0020	.00016	.104
%RSD	8.8221	1.0279	.95453	1.9205	.06697	.68908	.23733
#1	.00862	321.06	.20618	.31501	2.9842	.02250	43.747
#2	.00781	323.91	.21002	.32735	2.9850	.02277	43.873
#3	.00932	317.33	.20900	.32112	2.9812	.02251	43.953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01359**	**.36381**	**.38406**	**.36803**	**579.73**	**33.869**	**.37945**
Stddev	.00023	.00529	.00319	.00570	10.37	.060	.00112
%RSD	1.6953	1.4548	.83115	1.5476	1.7887	.17777	.29648
#1	.01335	.35959	.38210	.36386	568.83	33.819	.37841
#2	.01381	.36975	.38775	.37452	589.47	33.851	.37929
#3	.01360	.36208	.38235	.36572	580.90	33.936	.38064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**37.500**	**27.552**	**.07493**	**.83119**	**.45968**	**10.658**	**.52994**
Stddev	.132	.064	.00110	.00256	.00747	.142	.00775
%RSD	.35273	.23350	1.4680	.30818	1.6253	1.3322	1.4631
#1	37.444	27.496	.07434	.83059	.45440	10.564	.52343
#2	37.404	27.538	.07620	.82897	.46823	10.822	.53852
#3	37.651	27.622	.07425	.83399	.45641	10.590	.52788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103085102 Acquired: 3/29/2011 13:41:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-57.060**	F **176.21**	F **-40639.**	**-.00054**	**.02771**	**2.8751**	**.02412**
Stddev	21.214	2.88	558.	.00189	.00143	.0418	.00022
%RSD	37.179	1.6340	1.3728	347.82	5.1550	1.4550	.89417
#1	-44.792	173.85	-40244.	-.00244	.02692	2.8499	.02388
#2	-81.556	179.42	-41277.	.00135	.02936	2.9234	.02429
#3	-44.832	175.37	-40395.	-.00054	.02686	2.8520	.02420
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44356**	**.39116**	**.00846**	**.56062**	**1.6689**	**.12043**
Stddev	.00104	.00088	.00114	.00459	.0229	.00131
%RSD	.23376	.22403	13.521	.81911	1.3712	1.0918
#1	.44244	.39218	.00974	.55838	1.6512	.11921
#2	.44374	.39062	.00753	.56590	1.6948	.12182
#3	.44449	.39070	.00812	.55757	1.6608	.12026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48478.**	**48958.**
Stddev	408.	55.
%RSD	.84259	.11183
#1	48728.	48922.
#2	48007.	49021.
#3	48699.	48931.

Approved: March 30, 2011

Sample Name: L1103085103 Acquired: 3/29/2011 13:45:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00698**	**352.22**	**.23148**	**.28086**	**3.2390**	**.02186**	**310.97**
Stddev	.00040	1.71	.00231	.00313	.0367	.00008	2.69
%RSD	5.7890	.48577	.99699	1.1135	1.1325	.37586	.86610
#1	.00733	353.54	.23342	.28051	3.2781	.02180	313.62
#2	.00654	350.28	.23208	.28415	3.2336	.02196	311.07
#3	.00707	352.83	.22892	.27792	3.2053	.02183	308.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01007**	**.28832**	**.44461**	**.51523**	**460.70**	**61.644**	**.46964**
Stddev	.00010	.00110	.00138	.00273	5.51	.545	.00525
%RSD	.94576	.38033	.31135	.52997	1.1964	.88413	1.1169
#1	.01014	.28907	.44503	.51655	459.83	62.220	.47527
#2	.01011	.28883	.44573	.51704	466.60	61.576	.46876
#3	.00996	.28706	.44306	.51209	455.68	61.136	.46490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**59.448**	**22.896**	**.02463**	**2.3998**	**.57876**	**16.274**	**.29037**
Stddev	.371	.160	.00016	.0218	.00078	.028	.00105
%RSD	.62451	.69761	.66745	.90835	.13507	.17360	.36242
#1	59.789	23.027	.02478	2.4116	.57893	16.299	.28920
#2	59.502	22.944	.02466	2.4132	.57945	16.279	.29124
#3	59.052	22.718	.02445	2.3747	.57791	16.243	.29066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103085103 Acquired: 3/29/2011 13:45:02 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-134.53**	F **427.70**	F **-41770.**	**.00276**	**.01409**	**2.6925**	**.01832**
Stddev	33.89	1.10	66.	.00289	.00162	.0145	.00031
%RSD	25.195	.25764	.15870	104.64	11.509	.53834	1.6862
#1	-143.51	428.31	-41819.	.00349	.01257	2.6992	.01847
#2	-163.02	428.37	-41797.	-.00042	.01390	2.7024	.01852
#3	-97.045	426.43	-41695.	.00522	.01580	2.6758	.01796
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.3281**	**.28797**	**.00336**	**.46371**	**1.2980**	**.17047**
Stddev	.0235	.00306	.00156	.00148	.0020	.00037
%RSD	1.0079	1.0629	46.398	.31835	.15299	.21856
#1	2.3513	.29065	.00195	.46290	1.2993	.17006
#2	2.3288	.28863	.00503	.46542	1.2991	.17080
#3	2.3044	.28463	.00309	.46282	1.2958	.17054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47894.**	**48871.**
Stddev	51.	228.
%RSD	.10605	.46615
#1	47885.	48752.
#2	47849.	48728.
#3	47949.	49134.

Approved: March 30, 2011

Sample Name: L1103085104 Acquired: 3/29/2011 13:48:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00310**	**398.17**	**.24090**	**.39301**	**2.2654**	**.02481**	**72.231**
Stddev	.00031	3.71	.00278	.00499	.0007	.00005	.219
%RSD	9.9489	.93254	1.1543	1.2699	.03060	.19166	.30299
#1	.00307	393.90	.23800	.38906	2.2650	.02479	71.982
#2	.00281	400.65	.24114	.39136	2.2650	.02477	72.317
#3	.00342	399.95	.24354	.39862	2.2662	.02486	72.393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00928**	**.31737**	**.47579**	**.65624**	**757.97**	**41.751**	**.30049**
Stddev	.00009	.00055	.00101	.00087	6.82	.168	.00053
%RSD	.99500	.17479	.21274	.13332	.89952	.40253	.17631
#1	.00920	.31714	.47577	.65724	751.89	41.557	.30071
#2	.00938	.31698	.47478	.65586	756.69	41.848	.29988
#3	.00926	.31801	.47681	.65562	765.34	41.848	.30087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.172**	**13.001**	**.04012**	**.83487**	**.62261**	**15.447**	**.38223**
Stddev	.304	.047	.00053	.00618	.00107	.003	.00164
%RSD	.61806	.35799	1.3330	.74012	.17237	.02024	.42862
#1	48.822	12.948	.04070	.82775	.62196	15.449	.38186
#2	49.337	13.027	.04001	.83794	.62202	15.443	.38081
#3	49.359	13.030	.03965	.83891	.62385	15.448	.38402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103085104 Acquired: 3/29/2011 13:48:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-72.288**	F **142.53**	F **-22214.**	**.00149**	**.01189**	**2.4410**	**.02137**
Stddev	31.110	.24	52.	.00237	.00117	.0041	.00039
%RSD	43.036	.16544	.23452	159.02	9.8289	.16683	1.8089
#1	-36.994	142.35	-22209.	.00231	.01225	2.4457	.02176
#2	-95.728	142.44	-22164.	-.00118	.01058	2.4383	.02098
#3	-84.141	142.80	-22268.	.00335	.01283	2.4390	.02138
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50032**	**.18672**	**.01214**	**.57339**	**1.5456**	**.21184**
Stddev	.00153	.00025	.00513	.00096	.0057	.00103
%RSD	.30642	.13428	42.231	.16789	.37004	.48513
#1	.49858	.18701	.01664	.57431	1.5435	.21203
#2	.50149	.18654	.00656	.57239	1.5411	.21073
#3	.50089	.18662	.01322	.57349	1.5520	.21275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47155.**	**48011.**
Stddev	49.	166.
%RSD	.10389	.34658
#1	47132.	48201.
#2	47211.	47941.
#3	47122.	47892.

Approved: March 30, 2011

Sample Name: L1103087401 Acquired: 3/29/2011 13:52:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02776**	**110.35**	**.17112**	**.30357**	**1.4040**	**.00078**
Stddev	.00099	.40	.00126	.00035	.0012	.00002
%RSD	3.5693	.36065	.73895	.11515	.08511	3.0205
#1	.02799	109.90	.17010	.30360	1.4050	.00076
#2	.02667	110.66	.17253	.30321	1.4027	.00081
#3	.02861	110.48	.17071	.30390	1.4044	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1263.9**	**.01411**	**.09279**	**.27196**	**.32699**	**248.89**
Stddev	24.5	.00002	.00070	.00089	.00397	.92
%RSD	1.9373	.14532	.75369	.32682	1.2132	.36976
#1	1278.0	.01410	.09246	.27094	.32365	248.99
#2	1235.6	.01413	.09359	.27248	.33137	247.93
#3	1278.0	.01410	.09232	.27247	.32594	249.76
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.286**	**.16306**	**54.658**	**6.7832**	**.04276**	**5.5097**
Stddev	.037	.00086	.437	.0181	.00033	.0188
%RSD	.19166	.52712	.80040	.26674	.77355	.34048
#1	19.294	.16356	54.666	6.7827	.04277	5.5116
#2	19.246	.16207	54.216	6.7653	.04309	5.4901
#3	19.318	.16355	55.091	6.8015	.04243	5.5275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103087401 Acquired: 3/29/2011 13:52:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24509**	**4.4184**	**.13088**	F **81.438**	F **1904.1**	F **-203250.**
Stddev	.00125	.0316	.00234	34.590	10.9	530.
%RSD	.51012	.71564	1.7904	42.474	.57250	.26075
#1	.24411	4.3928	.12878	41.729	1891.7	-202770.
#2	.24650	4.4537	.13341	97.563	1912.3	-203820.
#3	.24466	4.4086	.13044	105.02	1908.3	-203170.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00980**	**.00887**	**27.634**	**.02219**	**2.7038**	**3.5950**
Stddev	.00160	.00059	1.015	.00044	.0190	.0110
%RSD	16.359	6.6194	3.6730	1.9804	.70170	.30621
#1	.01043	.00927	28.190	.02171	2.7165	3.5961
#2	.00797	.00915	28.249	.02228	2.6820	3.5835
#3	.01099	.00820	26.463	.02258	2.7130	3.6054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.00972**	**.26201**	**5.1224**	**.24439**
Stddev	.00166	.00194	.0097	.00088
%RSD	17.059	.74215	.18842	.36093
#1	.01097	.25976	5.1139	.24537
#2	.00784	.26321	5.1329	.24415
#3	.01034	.26304	5.1205	.24366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: March 30, 2011

Sample Name: L1103087401 Acquired: 3/29/2011 13:52:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**43947.**	**45453.**
Stddev	73.	345.
%RSD	.16611	.75951
#1	43984.	45253.
#2	43862.	45852.
#3	43993.	45255.

Approved: March 30, 2011

Sample Name: L1103087402 Acquired: 3/29/2011 13:56:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04325**	**167.50**	**.15264**	**.30549**	**1.6086**	^ *****
Stddev	.00043	.78	.00057	.00106	.0056	-----
%RSD	1.0008	.46530	.37425	.34811	.34968	-----
#1	.04375	167.05	.15330	.30638	1.6150	^ -----
#2	.04299	168.40	.15226	.30579	1.6065	^ -----
#3	.04300	167.05	.15237	.30432	1.6043	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1367.2**	**.02107**	**.11526**	**.25696**	**.19615**	**186.85**
Stddev	30.5	.00012	.00069	.00116	.00169	.31
%RSD	2.2305	.58754	.59564	.45085	.85957	.16610
#1	1332.1	.02110	.11471	.25772	.19530	186.95
#2	1387.3	.02094	.11504	.25752	.19505	186.50
#3	1382.1	.02118	.11603	.25562	.19809	187.10
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.824**	**.22460**	**63.233**	**4.8026**	**.03616**	**2.2877**
Stddev	.060	.00087	.351	.0251	.00016	.0138
%RSD	.55005	.38710	.55512	.52184	.45180	.60210
#1	10.790	.22387	63.019	4.8001	.03599	2.2896
#2	10.789	.22437	63.042	4.7789	.03631	2.2731
#3	10.893	.22556	63.638	4.8288	.03618	2.3004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103087402 Acquired: 3/29/2011 13:56:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24982**	**5.0954**	**.10568**	F **30.542**	F **2398.6**	F **-307920.**
Stddev	.00073	.0381	.00145	61.487	3.5	417.
%RSD	.29390	.74829	1.3711	201.32	.14394	.13538
#1	.24947	5.0796	.10706	-38.930	2397.8	-307480.
#2	.24932	5.0677	.10417	52.597	2395.6	-308310.
#3	.25066	5.1389	.10580	77.961	2402.4	-307980.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00999**	**.01111**	**12.850**	**.02157**	**2.6257**	**6.1106**
Stddev	.00165	.00189	.402	.00031	.0136	.0117
%RSD	16.553	16.969	3.1267	1.4282	.51817	.19206
#1	.01189	.00916	13.085	.02189	2.6227	6.1161
#2	.00910	.01125	13.079	.02128	2.6138	6.0971
#3	.00896	.01293	12.386	.02154	2.6405	6.1185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.01606**	**.37232**	**.79123**	**.36351**
Stddev	.00032	.00068	.00049	.00072
%RSD	1.9782	.18204	.06255	.19714
#1	.01589	.37244	.79169	.36320
#2	.01587	.37292	.79130	.36433
#3	.01643	.37158	.79071	.36299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: March 30, 2011

Sample Name: L1103087402 Acquired: 3/29/2011 13:56:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44266.**	**46193.**
Stddev	34.	147.
%RSD	.07691	.31754
#1	44236.	46199.
#2	44258.	46336.
#3	44303.	46043.

Approved: March 30, 2011

Sample Name: L1103046028 Acquired: 3/29/2011 13:59:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00334**	**29.974**	**.04141**	**.02820**	**.54237**	**.00350**	F **1195.7**
Stddev	.00045	.034	.00126	.00032	.00171	.00001	9.2
%RSD	13.469	.11445	3.0460	1.1214	.31537	.30398	.76923
#1	.00330	30.012	.03997	.02857	.54216	.00350	1202.2
#2	.00380	29.963	.04232	.02801	.54417	.00349	1199.7
#3	.00291	29.946	.04195	.02803	.54077	.00350	1185.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00554**	**.02694**	**.03309**	**.14035**	**19.103**	**3.1341**	**.04747**
Stddev	.00010	.00026	.00040	.00066	.083	.0104	.00186
%RSD	1.7631	.96621	1.2099	.47210	.43599	.33235	3.9191
#1	.00544	.02664	.03354	.13963	19.112	3.1426	.04660
#2	.00554	.02708	.03298	.14049	19.182	3.1371	.04960
#3	.00563	.02710	.03276	.14094	19.016	3.1224	.04620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.4353**	**4.8408**	**.00106**	**.21005**	**.03726**	**4.1417**	**.24863**
Stddev	.0544	.0279	.00003	.00518	.00024	.0092	.00079
%RSD	.84587	.57560	2.5733	2.4649	.63451	.22171	.31601
#1	6.4282	4.8497	.00109	.20416	.03705	4.1314	.24933
#2	6.4929	4.8632	.00105	.21389	.03721	4.1490	.24778
#3	6.3847	4.8096	.00104	.21210	.03752	4.1446	.24878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103046028 Acquired: 3/29/2011 13:59:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **50.091**	F **1261.3**	F **-20036.**	**.00469**	**.00668**	**3.7933**	**.00219**
Stddev	97.879	3.2	89.	.00155	.00056	.0205	.00025
%RSD	195.40	.25705	.44482	33.013	8.4420	.53937	11.300
#1	42.649	1258.4	-20007.	.00465	.00604	3.7705	.00214
#2	-43.856	1260.7	-20136.	.00316	.00712	3.7994	.00245
#3	151.48	1264.8	-19965.	.00626	.00686	3.8100	.00197
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27890**	**.27586**	**.00065**	**.08550**	**.08802**	**.01774**
Stddev	.00123	.00118	.00059	.00015	.00027	.00003
%RSD	.44112	.42714	90.645	.16980	.31167	.17257
#1	.27854	.27587	.00012	.08534	.08829	.01777
#2	.28027	.27704	.00128	.08556	.08774	.01771
#3	.27789	.27468	.00055	.08561	.08805	.01774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45962.**	**45416.**
Stddev	150.	355.
%RSD	.32737	.78168
#1	46118.	45324.
#2	45952.	45117.
#3	45817.	45808.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 14:03:43 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41913**	**9.9991**	**.40713**	**.51158**	**.98187**	**.05110**	**9.5552**
Stddev	.00186	.0293	.00115	.00070	.00268	.00018	.0227
%RSD	.44321	.29277	.28175	.13720	.27276	.35689	.23798
#1	.42076	10.014	.40796	.51229	.98426	.05121	9.5304
#2	.41711	10.018	.40582	.51089	.97897	.05089	9.5750
#3	.41954	9.9654	.40760	.51155	.98236	.05120	9.5604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05136**	**.20507**	**.50994**	**.51403**	**3.7948**	**48.485**	**.99009**
Stddev	.00017	.00060	.00198	.00034	.0056	.040	.00104
%RSD	.32301	.29102	.38903	.06530	.14854	.08232	.10521
#1	.05135	.20575	.51135	.51441	3.8011	48.458	.99120
#2	.05153	.20486	.50767	.51393	3.7930	48.531	.98913
#3	.05120	.20461	.51080	.51376	3.7902	48.465	.98995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2213**	**.46100**	**1.0060**	**48.859**	**.50965**	**10.050**	**.50581**
Stddev	.0345	.00163	.0018	.214	.00061	.020	.00147
%RSD	.37402	.35456	.18155	.43795	.12036	.19775	.29153
#1	9.2140	.45934	1.0075	48.704	.50928	10.073	.50547
#2	9.2588	.46261	1.0065	49.103	.50930	10.038	.50742
#3	9.1910	.46106	1.0040	48.770	.51036	10.040	.50453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 14:03:43 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **117.48**	**10.107**	F **25.197**	**1.2363**	**.40730**	**5.1260**	**1.0069**
Stddev	13.76	.026	17.954	.0006	.00170	.0029	.0049
%RSD	11.708	.25728	71.253	.04867	.41622	.05551	.48127
#1	124.08	10.137	5.2528	1.2356	.40904	5.1286	1.0046
#2	126.69	10.091	30.270	1.2365	.40723	5.1265	1.0125
#3	101.67	10.093	40.068	1.2368	.40565	5.1229	1.0037
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96455**	**.96784**	**.51796**	**1.0224**	**.99283**	**1.0029**
Stddev	.00267	.00187	.00062	.0026	.00302	.0015
%RSD	.27701	.19341	.11895	.25460	.30458	.15308
#1	.96203	.96671	.51820	1.0245	.99628	1.0041
#2	.96735	.97000	.51842	1.0195	.99062	1.0034
#3	.96427	.96681	.51726	1.0232	.99160	1.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48760.**	**45959.**
Stddev	87.	47.
%RSD	.17897	.10300
#1	48659.	45962.
#2	48818.	45911.
#3	48801.	46005.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 14:07:06 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00928**	**.00049**	**.00210**	**-.00031**	**.00000**	**.00660**
Stddev	.00044	.00189	.00106	.00012	.00009	.0000	.00110
%RSD	155.80	20.337	216.44	5.6602	29.999	753.09	16.598
#1	.00069	.00975	.00060	.00198	-.00041	.00000	.00568
#2	.00032	.00721	-.00062	.00221	-.00023	.00001	.00781
#3	-.00018	.01089	.00148	.00211	-.00030	-.00001	.00632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00010**	**-.00063**	**.00026**	**-.00217**	**.16246**	**-.00726**
Stddev	.00006	.00017	.00032	.00019	.00208	.01589	.00039
%RSD	74.126	169.14	50.363	72.901	95.809	9.7835	5.3742
#1	-.00005	-.00009	-.00026	.00008	-.00014	.17696	-.00706
#2	-.00016	.00026	-.00082	.00046	-.00208	.14547	-.00771
#3	-.00005	.00014	-.00079	.00023	-.00430	.16495	-.00702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01838**	**-.00011**	**-.00001**	**.00438**	**.00130**	**-.00133**	**.00058**
Stddev	.01097	.00017	.00005	.00500	.00095	.00339	.00009
%RSD	59.682	155.22	337.55	114.01	72.950	254.82	15.564
#1	-.02011	-.00015	.00004	.00863	.00054	-.00501	.00056
#2	-.00665	.00008	-.00003	-.00112	.00100	.00166	.00049
#3	-.02838	-.00024	-.00005	.00565	.00237	-.00063	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 14:07:06 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **75.859**	**-.00256**	F **15.113**	**-.00029**	**.00012**	**.00053**	**-.00031**
Stddev	54.919	.02063	6.785	.00105	.00061	.00039	.00015
%RSD	72.396	806.26	44.896	362.66	514.80	73.515	48.301
#1	128.14	-.02282	14.266	-.00093	.00078	.00086	-.00042
#2	80.806	.01843	22.282	-.00087	-.00043	.00010	-.00038
#3	18.633	-.00329	8.7908	.00093	.00000	.00061	-.00014
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00070**	**.00058**	**.00006**	**.00667**	**.00022**
Stddev	.00000	.00072	.00010	.00021	.00635	.00009
%RSD	5.8397	103.52	18.040	374.91	95.272	40.085
#1	-.00006	.00133	.00069	-.00005	.00286	.00020
#2	-.00006	.00086	.00048	.00030	.00314	.00015
#3	-.00006	-.00009	.00056	-.00008	.01400	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49212.**	**45241.**
Stddev	90.	241.
%RSD	.18389	.53282
#1	49214.	45500.
#2	49301.	45023.
#3	49120.	45201.

Approved: March 30, 2011

Sample Name: L1103092605 Acquired: 3/29/2011 14:10:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03657**	**476.93**	**.04511**	**.38307**	**.84284**	**.00125**	**5.5075**
Stddev	.00075	1.26	.00084	.00928	.00189	.00003	.0317
%RSD	2.0534	.26391	1.8531	2.4214	.22471	2.5575	.57546
#1	.03687	475.50	.04589	.38394	.84298	.00127	5.5171
#2	.03571	477.42	.04521	.37340	.84088	.00121	5.4721
#3	.03712	477.87	.04423	.39189	.84466	.00126	5.5332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00928**	**.10377**	**.47223**	**.33014**	**758.13**	**20.064**	**.22723**
Stddev	.00011	.00023	.00128	.00126	15.44	.088	.00094
%RSD	1.1895	.22478	.27082	.38189	2.0369	.44035	.41565
#1	.00920	.10401	.47187	.33145	758.32	20.053	.22782
#2	.00924	.10355	.47365	.33002	742.59	19.981	.22774
#3	.00941	.10376	.47117	.32894	773.47	20.157	.22614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.992**	**4.6991**	**.00821**	**2.5173**	**.19306**	**7.7741**	**.23627**
Stddev	.179	.0274	.00021	.0138	.00107	.0272	.00031
%RSD	.99501	.58379	2.5653	.54825	.55191	.35043	.13097
#1	17.844	4.6810	.00832	2.5136	.19379	7.8001	.23661
#2	17.942	4.6858	.00797	2.5058	.19354	7.7764	.23620
#3	18.191	4.7307	.00834	2.5326	.19183	7.7458	.23601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092605 Acquired: 3/29/2011 14:10:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-86.940**	F **67.625**	F **-18289.**	**.06849**	**.00858**	**1.8295**	**.03147**
Stddev	69.202	.402	41.	.00220	.00235	.0086	.00046
%RSD	79.597	.59429	.22242	3.2127	27.386	.47255	1.4591
#1	-68.762	67.974	-18335.	.06935	.00669	1.8363	.03200
#2	-163.42	67.185	-18272.	.07013	.00783	1.8324	.03116
#3	-28.643	67.716	-18259.	.06599	.01121	1.8198	.03125
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04636**	**5.0929**	**.04535**	**1.4391**	**.85849**	**.16262**
Stddev	.00019	.0118	.00086	.0006	.00138	.00079
%RSD	.41822	.23203	1.9043	.04094	.16078	.48413
#1	.04649	5.0911	.04537	1.4396	.85707	.16240
#2	.04613	5.0820	.04620	1.4392	.85855	.16197
#3	.04645	5.1055	.04448	1.4384	.85983	.16350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46849.**	**48019.**
Stddev	131.	178.
%RSD	.27928	.37148
#1	46698.	48192.
#2	46927.	48028.
#3	46922.	47836.

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 14:14:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04469**	**626.34**	**.04724**	**.37842**	**.96027**	^ *****	**.83714**
Stddev	.00041	4.31	.00072	.00421	.00296	-----	.00499
%RSD	.92605	.68842	1.5282	1.1118	.30852	-----	.59579
#1	.04512	626.01	.04764	.38020	.96086	^ -----	.84287
#2	.04429	622.20	.04640	.38144	.96289	^ -----	.83375
#3	.04467	630.80	.04767	.37362	.95706	^ -----	.83480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00453**	**.11365**	**.42711**	**.37723**	**759.08**	**29.177**	**.27354**
Stddev	.00020	.00070	.00389	.00299	4.62	.101	.00054
%RSD	4.4815	.61954	.90973	.79199	.60820	.34580	.19843
#1	.00465	.11357	.42496	.37783	761.43	29.289	.27295
#2	.00464	.11300	.42477	.37400	762.04	29.150	.27403
#3	.00429	.11440	.43159	.37988	753.76	29.092	.27363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.685**	**3.4542**	**.00642**	**.41653**	**.24693**	**6.4053**	**.28812**
Stddev	.097	.0205	.00033	.00525	.00118	.0450	.00119
%RSD	.39447	.59408	5.1574	1.2601	.47629	.70264	.41200
#1	24.777	3.4778	.00604	.42244	.24695	6.3981	.28946
#2	24.694	3.4446	.00654	.41240	.24574	6.3644	.28768
#3	24.583	3.4402	.00667	.41476	.24809	6.4535	.28722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 14:14:28 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-94.826**	F **36.119**	F **-10108.**	**-.00410**	**-.00062**	**2.4679**	**.03626**
Stddev	53.268	.310	46.	.00019	.00139	.0059	.00060
%RSD	56.174	.85884	.45300	4.6404	225.89	.23739	1.6526
#1	-79.763	36.159	-10071.	-.00412	-.00155	2.4658	.03575
#2	-154.00	35.791	-10093.	-.00429	.00098	2.4633	.03692
#3	-50.713	36.407	-10159.	-.00391	-.00128	2.4745	.03610
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05859**	**6.5703**	**.05152**	**1.5862**	**.85007**	**.17961**
Stddev	.00023	.0141	.00134	.0089	.00594	.00083
%RSD	.39280	.21423	2.6020	.55787	.69866	.46145
#1	.05885	6.5857	.05071	1.5798	.85021	.17869
#2	.05846	6.5674	.05079	1.5824	.84406	.17982
#3	.05844	6.5580	.05307	1.5963	.85594	.18031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46947.**	**48566.**
Stddev	242.	526.
%RSD	.51537	1.0833
#1	46989.	47979.
#2	47165.	48723.
#3	46687.	48996.

Approved: March 30, 2011

Sample Name: L1103092605 Acquired: 3/29/2011 14:18:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**4.9534**	**.00244**	**.00469**	**.00839**	**.00001**	**.07197**
Stddev	.00090	.0142	.00059	.00073	.00002	.00001	.00579
%RSD	135.49	.28641	24.118	15.596	.27487	191.73	8.0447
#1	.00119	4.9670	.00177	.00528	.00841	.00001	.07790
#2	-.00037	4.9545	.00269	.00491	.00839	-.00001	.06633
#3	.00117	4.9387	.00286	.00387	.00837	.00002	.07168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00130**	**.00418**	**.00393**	**8.6494**	**.39476**	**-.00636**
Stddev	.00001	.00013	.00010	.00034	.0301	.03823	.00136
%RSD	3.7660	9.8631	2.5113	8.7779	.34817	9.6843	21.375
#1	-.00021	.00116	.00426	.00364	8.6148	.38078	-.00548
#2	-.00020	.00141	.00422	.00383	8.6692	.36549	-.00792
#3	-.00021	.00133	.00406	.00431	8.6644	.43801	-.00568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20404**	**.05250**	**-.00014**	**.01192**	**.00224**	**.09658**	**.00394**
Stddev	.01306	.00099	.00008	.00929	.00027	.00258	.00037
%RSD	6.4008	1.8875	60.645	77.951	11.846	2.6689	9.3009
#1	.21842	.05149	-.00023	.02107	.00241	.09520	.00374
#2	.20079	.05254	-.00010	.00249	.00238	.09498	.00372
#3	.19291	.05347	-.00008	.01220	.00194	.09955	.00437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092605 Acquired: 3/29/2011 14:18:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **164.49**	**.85806**	F **-227.59**	**-.00089**	**.00021**	**.01475**	**-.00014**
Stddev	10.82	.03079	1.89	.00134	.00147	.00079	.00018
%RSD	6.5778	3.5883	.82862	151.12	695.73	5.3660	130.03
#1	153.01	.82395	-227.45	.00016	-.00132	.01558	.00006
#2	165.96	.88380	-229.55	-.00043	.00161	.01468	-.00031
#3	174.50	.86642	-225.78	-.00239	.00035	.01400	-.00017
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.05371**	**.00210**	**.01476**	**.01578**	**.00176**
Stddev	.00007	.00084	.00054	.00011	.00018	.00002
%RSD	18.228	1.5640	25.643	.74876	1.1504	.93342
#1	.00036	.05372	.00179	.01488	.01576	.00176
#2	.00031	.05286	.00179	.01475	.01597	.00178
#3	.00045	.05454	.00272	.01466	.01561	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50882.**	**46041.**
Stddev	174.	1013.
%RSD	.34260	2.1992
#1	51083.	47208.
#2	50793.	45396.
#3	50770.	45519.

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 14:21:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**6.7209**	**.00397**	**.00449**	**.01004**	**-.00001**	**.01064**
Stddev	.00049	.0047	.00067	.00025	.00043	.00001	.00695
%RSD	459.43	.06947	17.002	5.5451	4.2734	116.07	65.301
#1	-.00064	6.7261	.00458	.00459	.01054	.00000	.01497
#2	.00030	6.7197	.00408	.00420	.00986	-.00001	.01433
#3	.00003	6.7170	.00324	.00467	.00974	-.00002	.00263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00150**	**.00374**	**.00481**	**9.0639**	**.49947**	**-.00606**
Stddev	.00002	.00012	.00009	.00030	.3485	.00529	.00089
%RSD	9.0010	8.2273	2.3084	6.1754	3.8452	1.0584	14.653
#1	-.00015	.00139	.00364	.00452	9.4517	.50540	-.00632
#2	-.00019	.00163	.00378	.00481	8.9632	.49776	-.00680
#3	-.00017	.00146	.00380	.00511	8.7768	.49526	-.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27894**	**.04036**	**-.00023**	**-.01076**	**.00353**	**.08253**	**.00344**
Stddev	.01369	.00180	.00005	.00346	.00087	.00324	.00047
%RSD	4.9093	4.4698	21.688	32.165	24.720	3.9238	13.711
#1	.29309	.04233	-.00018	-.01475	.00288	.07962	.00393
#2	.27799	.03994	-.00028	-.00849	.00320	.08602	.00300
#3	.26575	.03880	-.00024	-.00905	.00452	.08195	.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 14:21:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **82.643**	**.37121**	F **-116.49**	**-.00222**	**-.00078**	**.02217**	**.00016**
Stddev	93.688	.03501	15.98	.00091	.00047	.00031	.00026
%RSD	113.36	9.4303	13.717	41.205	59.891	1.3796	161.21
#1	188.80	.33089	-115.95	-.00177	-.00047	.02202	.00046
#2	11.509	.38895	-132.73	-.00327	-.00132	.02252	-.00002
#3	47.624	.39379	-100.78	-.00161	-.00055	.02197	.00004
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.07358**	**.00330**	**.01610**	**.01641**	**.00160**
Stddev	.00004	.00244	.00037	.00009	.00630	.00007
%RSD	6.8866	3.3168	11.174	.55959	38.398	4.0995
#1	.00056	.07616	.00353	.01614	.01247	.00162
#2	.00049	.07327	.00348	.01600	.01307	.00165
#3	.00050	.07130	.00287	.01617	.02367	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50301.**	**45631.**
Stddev	125.	1770.
%RSD	.24841	3.8798
#1	50438.	43682.
#2	50194.	46070.
#3	50270.	47140.

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 14:21:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**6.7209**	**.00397**	**.00449**	**.01004**	**-.00001**	**.01064**
Stddev	.00049	.0047	.00067	.00025	.00043	.00001	.00695
%RSD	459.43	.06947	17.002	5.5451	4.2734	116.07	65.301
#1	-.00064	6.7261	.00458	.00459	.01054	.00000	.01497
#2	.00030	6.7197	.00408	.00420	.00986	-.00001	.01433
#3	.00003	6.7170	.00324	.00467	.00974	-.00002	.00263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00150**	**.00374**	**.00481**	**9.0639**	**.49947**	**-.00606**
Stddev	.00002	.00012	.00009	.00030	.3485	.00529	.00089
%RSD	9.0010	8.2273	2.3084	6.1754	3.8452	1.0584	14.653
#1	-.00015	.00139	.00364	.00452	9.4517	.50540	-.00632
#2	-.00019	.00163	.00378	.00481	8.9632	.49776	-.00680
#3	-.00017	.00146	.00380	.00511	8.7768	.49526	-.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27894**	**.04036**	**-.00023**	**-.01076**	**.00353**	**.08253**	**.00344**
Stddev	.01369	.00180	.00005	.00346	.00087	.00324	.00047
%RSD	4.9093	4.4698	21.688	32.165	24.720	3.9238	13.711
#1	.29309	.04233	-.00018	-.01475	.00288	.07962	.00393
#2	.27799	.03994	-.00028	-.00849	.00320	.08602	.00300
#3	.26575	.03880	-.00024	-.00905	.00452	.08195	.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 14:21:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 100 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **82.643**	**.37121**	F **-116.49**	**-.00222**	**-.00078**	**.02217**	**.00016**
Stddev	93.688	.03501	15.98	.00091	.00047	.00031	.00026
%RSD	113.36	9.4303	13.717	41.205	59.891	1.3796	161.21
#1	188.80	.33089	-115.95	-.00177	-.00047	.02202	.00046
#2	11.509	.38895	-132.73	-.00327	-.00132	.02252	-.00002
#3	47.624	.39379	-100.78	-.00161	-.00055	.02197	.00004
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.07358**	**.00330**	**.01610**	**.01641**	**.00160**
Stddev	.00004	.00244	.00037	.00009	.00630	.00007
%RSD	6.8866	3.3168	11.174	.55959	38.398	4.0995
#1	.00056	.07616	.00353	.01614	.01247	.00162
#2	.00049	.07327	.00348	.01600	.01307	.00165
#3	.00050	.07130	.00287	.01617	.02367	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50301.**	**45631.**
Stddev	125.	1770.
%RSD	.24841	3.8798
#1	50438.	43682.
#2	50194.	46070.
#3	50270.	47140.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 14:25:25 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41857**	**10.039**	**.40687**	**.51214**	**.97856**	**.05091**	**9.5572**
Stddev	.00114	.051	.00084	.00225	.00164	.00011	.0203
%RSD	.27209	.51130	.20601	.43997	.16718	.21794	.21209
#1	.41969	10.020	.40696	.51164	.97752	.05092	9.5460
#2	.41742	10.000	.40766	.51018	.97772	.05080	9.5450
#3	.41861	10.097	.40599	.51460	.98045	.05102	9.5806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05102**	**.20475**	**.50834**	**.51182**	**3.7647**	**48.451**	**.98652**
Stddev	.00035	.00056	.00248	.00154	.0268	.133	.00231
%RSD	.68382	.27176	.48831	.30101	.71237	.27410	.23453
#1	.05090	.20492	.50880	.51228	3.7439	48.325	.98831
#2	.05074	.20412	.50566	.51010	3.7552	48.437	.98391
#3	.05141	.20520	.51057	.51307	3.7950	48.590	.98734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2052**	**.45965**	**1.0037**	**48.914**	**.50862**	**10.047**	**.50601**
Stddev	.0385	.00281	.0012	.084	.00096	.013	.00071
%RSD	.41787	.61045	.11872	.17182	.18798	.12560	.13996
#1	9.1807	.45693	1.0024	48.861	.50934	10.051	.50545
#2	9.1853	.45950	1.0039	48.871	.50753	10.033	.50576
#3	9.2495	.46254	1.0047	49.011	.50899	10.057	.50680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 14:25:25 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **111.38**	**10.082**	F **31.648**	**1.2287**	**.40614**	**5.1032**	**1.0032**
Stddev	27.64	.043	9.257	.0011	.00136	.0047	.0012
%RSD	24.811	.42398	29.250	.08744	.33494	.09268	.12131
#1	103.66	10.114	36.549	1.2293	.40490	5.0978	1.0027
#2	142.06	10.099	20.971	1.2274	.40760	5.1061	1.0023
#3	88.435	10.033	37.425	1.2293	.40591	5.1058	1.0046
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96464**	**.96365**	**.51746**	**1.0240**	**.99559**	**1.0095**
Stddev	.00090	.00188	.00140	.0025	.00232	.0047
%RSD	.09371	.19491	.26991	.24747	.23296	.46867
#1	.96395	.96462	.51771	1.0252	.99442	1.0092
#2	.96432	.96149	.51596	1.0211	.99408	1.0050
#3	.96567	.96485	.51872	1.0257	.99826	1.0144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47764.**	**44711.**
Stddev	109.	126.
%RSD	.22850	.28233
#1	47823.	44836.
#2	47831.	44713.
#3	47638.	44583.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 14:28:48 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.01039**	**.00060**	**.00215**	**-.00021**	**-.00001**	**.00384**
Stddev	.00027	.00091	.00094	.00035	.00009	.00002	.00208
%RSD	71.155	8.7417	155.18	16.439	44.554	317.41	54.067
#1	-.00038	.00965	.00166	.00183	-.00029	.00001	.00368
#2	-.00063	.01012	.00028	.00253	-.00011	-.00003	.00185
#3	-.00010	.01141	-.00013	.00210	-.00024	-.00001	.00599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00004**	**-.00024**	**.00038**	**-.00013**	**.14437**	**-.00730**
Stddev	.00005	.00012	.00031	.00017	.00265	.02032	.00153
%RSD	182.73	272.06	129.68	44.249	2048.5	14.075	20.904
#1	.00002	-.00008	-.00028	.00023	-.00192	.12104	-.00894
#2	-.00002	.00015	.00009	.00056	-.00137	.15824	-.00592
#3	-.00007	.00005	-.00053	.00035	.00291	.15381	-.00705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01144**	**-.00015**	**-.00002**	**-.00525**	**.00073**	**.00156**	**-.00055**
Stddev	.00827	.00014	.00010	.00479	.00016	.00012	.00108
%RSD	72.314	93.519	659.61	91.236	22.323	7.9644	194.94
#1	-.02082	-.00015	.00009	-.00171	.00082	.00159	.00019
#2	-.00519	-.00029	-.00004	-.01071	.00084	.00167	-.00179
#3	-.00831	-.00001	-.00010	-.00334	.00055	.00142	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 14:28:48 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **138.85**	F **.03732**	F **3.7262**	**-.00056**	**-.00179**	**.00095**	**-.00024**
Stddev	4.51	.02519	8.6073	.00137	.00060	.00072	.00020
%RSD	3.2492	67.488	230.99	244.39	33.388	76.062	81.305
#1	133.74	.02696	-4.3643	.00008	-.00213	.00179	-.00030
#2	142.31	.06603	12.771	-.00213	-.00110	.00056	-.00002
#3	140.49	.01897	2.7721	.00037	-.00214	.00051	-.00040
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00041**	**.00126**	**-.00001**	**.00439**	**.00014**
Stddev	.00005	.00060	.00057	.00018	.00027	.00004
%RSD	133.63	145.90	44.737	1732.0	6.1738	25.618
#1	-.00003	-.00025	.00134	-.00004	.00408	.00018
#2	-.00009	.00056	.00066	.00018	.00455	.00010
#3	.00001	.00093	.00179	-.00018	.00455	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48224.**	**43764.**
Stddev	191.	123.
%RSD	.39587	.28104
#1	48220.	43700.
#2	48418.	43687.
#3	48036.	43906.

Approved: March 30, 2011

Sample Name: L1103082327 Acquired: 3/29/2011 14:32:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00226**	**226.24**	**.10166**	**.15614**	**2.0994**	**.01553**	**30.063**
Stddev	.00057	1.93	.00037	.00094	.0021	.00016	.126
%RSD	25.316	.85514	.35978	.59989	.09934	1.0339	.41919
#1	.00246	224.65	.10193	.15555	2.1009	.01540	29.990
#2	.00271	225.67	.10181	.15564	2.0970	.01571	29.990
#3	.00162	228.39	.10125	.15722	2.1002	.01548	30.208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00423**	**.14491**	**.32910**	**.09672**	**286.25**	**18.139**	**.14353**
Stddev	.00004	.00028	.00074	.00070	.64	.064	.00026
%RSD	.89119	.19157	.22546	.71918	.22328	.35239	.17949
#1	.00425	.14469	.32825	.09752	285.83	18.101	.14348
#2	.00418	.14522	.32956	.09625	285.93	18.104	.14330
#3	.00425	.14481	.32950	.09638	286.98	18.213	.14380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.012**	**6.8996**	**.01069**	**3.5281**	**.12645**	**3.7077**	**.28087**
Stddev	.119	.0381	.00005	.0224	.00033	.0072	.00069
%RSD	.66228	.55277	.42978	.63531	.26063	.19346	.24560
#1	17.899	6.8748	.01073	3.5056	.12627	3.7098	.28164
#2	17.999	6.8806	.01064	3.5281	.12683	3.7136	.28066
#3	18.137	6.9435	.01071	3.5505	.12625	3.6997	.28031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082327 Acquired: 3/29/2011 14:32:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-89.923**	F **128.07**	F **-29449.**	**.00352**	**.01336**	**1.9856**	**.01173**
Stddev	36.613	.61	40.	.00045	.00147	.0036	.00020
%RSD	40.716	.47603	.13534	12.849	10.989	.18106	1.7004
#1	-49.860	128.73	-29470.	.00316	.01455	1.9881	.01189
#2	-121.65	127.94	-29474.	.00402	.01381	1.9871	.01180
#3	-98.260	127.53	-29403.	.00336	.01172	1.9814	.01151
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24828**	**.27697**	**.01252**	**.57920**	**.36470**	**.16379**
Stddev	.00080	.00146	.00091	.00208	.00048	.00009
%RSD	.32111	.52677	7.2430	.35965	.13282	.05772
#1	.24766	.27637	.01153	.57763	.36516	.16371
#2	.24801	.27591	.01275	.58156	.36474	.16376
#3	.24918	.27864	.01330	.57840	.36419	.16390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47961.**	**47527.**
Stddev	109.	200.
%RSD	.22710	.42094
#1	47875.	47543.
#2	47925.	47719.
#3	48084.	47320.

Approved: March 30, 2011

Sample Name: L1103082328 Acquired: 3/29/2011 14:36:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00301**	**120.51**	**.07330**	**.11693**	**1.2098**	**.00792**	**52.204**
Stddev	.00049	.93	.00066	.00036	.0031	.00001	.244
%RSD	16.151	.77294	.90436	.30545	.25222	.18826	.46766
#1	.00285	119.71	.07293	.11700	1.2081	.00792	51.979
#2	.00355	121.53	.07406	.11654	1.2134	.00794	52.463
#3	.00261	120.27	.07290	.11724	1.2080	.00791	52.168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00557**	**.08716**	**.23747**	**.10849**	**173.46**	**19.725**	**.08635**
Stddev	.00004	.00013	.00092	.00071	.53	.061	.00149
%RSD	.65083	.15397	.38859	.65551	.30367	.30894	1.7212
#1	.00555	.08702	.23768	.10775	173.02	19.654	.08776
#2	.00555	.08729	.23646	.10917	174.04	19.756	.08649
#3	.00562	.08716	.23827	.10856	173.30	19.764	.08480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.314**	**5.9688**	**.00886**	**.97666**	**.09056**	**13.363**	**.22644**
Stddev	.047	.0387	.00027	.00492	.00067	.021	.00089
%RSD	.32803	.64788	3.0469	.50353	.73995	.15457	.39509
#1	14.301	5.9394	.00862	.98057	.08982	13.349	.22653
#2	14.366	6.0126	.00882	.97114	.09112	13.386	.22550
#3	14.274	5.9545	.00916	.97827	.09075	13.352	.22728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082328 Acquired: 3/29/2011 14:36:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-72.100**	F **175.52**	F **-37370.**	**.00350**	**.01008**	**2.0485**	**.00848**
Stddev	62.569	.62	108.	.00209	.00123	.0071	.00028
%RSD	86.781	.35184	.28819	59.866	12.201	.34485	3.2421
#1	-139.09	175.01	-37299.	.00546	.01140	2.0419	.00856
#2	-62.030	176.20	-37317.	.00129	.00987	2.0559	.00818
#3	-15.177	175.34	-37494.	.00374	.00897	2.0476	.00871
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29510**	**.43025**	**.00690**	**.39264**	**.65210**	**.09822**
Stddev	.00130	.00107	.00042	.00061	.00030	.00054
%RSD	.44050	.24856	6.1460	.15643	.04605	.54775
#1	.29411	.43011	.00736	.39228	.65189	.09760
#2	.29657	.43138	.00653	.39228	.65244	.09857
#3	.29462	.42925	.00680	.39334	.65197	.09848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47319.**	**47054.**
Stddev	66.	270.
%RSD	.13906	.57299
#1	47292.	46933.
#2	47272.	46865.
#3	47394.	47362.

Approved: March 30, 2011

Sample Name: L1103082329 Acquired: 3/29/2011 14:39:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00252**	**174.35**	**.08347**	**.12048**	**1.7901**	**.01185**	**23.327**
Stddev	.00111	.61	.00191	.00149	.0042	.00005	.092
%RSD	44.099	.35185	2.2893	1.2338	.23166	.43511	.39430
#1	.00380	174.58	.08128	.11879	1.7858	.01191	23.266
#2	.00188	174.82	.08478	.12111	1.7904	.01180	23.282
#3	.00187	173.66	.08436	.12156	1.7941	.01184	23.433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00444**	**.09163**	**.28008**	**.10343**	**216.29**	**15.950**	**.11786**
Stddev	.00006	.00006	.00131	.00041	.97	.044	.00173
%RSD	1.4201	.06459	.46777	.39843	.44992	.27536	1.4647
#1	.00438	.09169	.28148	.10390	215.17	15.906	.11899
#2	.00442	.09162	.27888	.10317	216.97	15.950	.11588
#3	.00450	.09157	.27989	.10321	216.73	15.994	.11873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.871**	**6.4381**	**.00996**	**1.0314**	**.10732**	**3.7901**	**.22981**
Stddev	.049	.0401	.00012	.0095	.00044	.0090	.00144
%RSD	.33251	.62346	1.2387	.91863	.41231	.23816	.62559
#1	14.833	6.3956	.01004	1.0207	.10733	3.7863	.22843
#2	14.927	6.4433	.00982	1.0348	.10686	3.8004	.22970
#3	14.853	6.4754	.01002	1.0387	.10775	3.7835	.23130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082329 Acquired: 3/29/2011 14:39:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.245**	F **96.943**	F **-21758.**	**.00313**	**.01183**	**2.0061**	**.01039**
Stddev	70.169	.354	64.	.00079	.00099	.0077	.00010
%RSD	116.47	.36510	.29571	25.146	8.4082	.38446	.91897
#1	-104.82	97.132	-21733.	.00380	.01277	2.0123	.01033
#2	20.639	97.162	-21831.	.00331	.01192	2.0085	.01034
#3	-96.550	96.534	-21710.	.00226	.01079	1.9975	.01050
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20134**	**.35907**	**.00849**	**.46379**	**.41108**	**.13366**
Stddev	.00058	.00050	.00088	.00264	.00224	.00039
%RSD	.28773	.14011	10.408	.56894	.54531	.29406
#1	.20096	.35850	.00832	.46632	.41296	.13406
#2	.20105	.35942	.00944	.46105	.40860	.13366
#3	.20201	.35931	.00770	.46398	.41167	.13327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47996.**	**47070.**
Stddev	155.	240.
%RSD	.32335	.50926
#1	47829.	47235.
#2	48020.	46795.
#3	48137.	47179.

Approved: March 30, 2011

Sample Name: L1103082330 Acquired: 3/29/2011 14:43:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**175.33**	**.11684**	**.16949**	**1.8700**	**.01368**	**43.306**
Stddev	.00092	1.31	.00076	.00096	.0036	.00004	.063
%RSD	17.658	.74697	.65185	.56347	.19135	.29815	.14635
#1	.00490	176.72	.11659	.16843	1.8736	.01368	43.325
#2	.00623	174.12	.11770	.17028	1.8701	.01363	43.235
#3	.00447	175.15	.11624	.16976	1.8664	.01371	43.357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00627**	**.19469**	**.33647**	**.11996**	**309.45**	**14.392**	**.10046**
Stddev	.00003	.00113	.00239	.00085	.98	.028	.00203
%RSD	.48398	.57909	.71090	.70856	.31586	.19738	2.0190
#1	.00629	.19576	.33487	.12089	310.58	14.415	.09830
#2	.00624	.19479	.33922	.11978	308.86	14.360	.10076
#3	.00629	.19352	.33533	.11922	308.92	14.401	.10233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.902**	**11.133**	**.01490**	**1.1221**	**.12309**	**6.2471**	**.35709**
Stddev	.059	.015	.00026	.0068	.00059	.0187	.00091
%RSD	.37093	.13329	1.7504	.60610	.48197	.29952	.25541
#1	15.938	11.149	.01517	1.1144	.12354	6.2603	.35771
#2	15.834	11.120	.01487	1.1248	.12331	6.2553	.35752
#3	15.934	11.131	.01465	1.1271	.12242	6.2257	.35604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082330 Acquired: 3/29/2011 14:43:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.717**	F **143.59**	F **-29919.**	**.00507**	**.01674**	**2.1678**	**.01188**
Stddev	29.149	1.01	176.	.00109	.00021	.0130	.00045
%RSD	71.589	.70379	.58956	21.421	1.2519	.59963	3.7896
#1	-25.300	144.47	-30085.	.00589	.01651	2.1795	.01214
#2	-74.337	143.82	-29937.	.00548	.01680	2.1703	.01136
#3	-22.514	142.49	-29734.	.00384	.01692	2.1538	.01213
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27919**	**.34402**	**.01198**	**.59688**	**.54703**	**.12456**
Stddev	.00052	.00062	.00119	.00169	.00135	.00013
%RSD	.18539	.17974	9.9142	.28245	.24642	.10677
#1	.27909	.34412	.01139	.59881	.54733	.12443
#2	.27874	.34459	.01335	.59611	.54821	.12456
#3	.27976	.34336	.01121	.59571	.54556	.12469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47522.**	**47680.**
Stddev	158.	308.
%RSD	.33300	.64521
#1	47406.	47330.
#2	47458.	47906.
#3	47702.	47805.

Approved: March 30, 2011

Sample Name: L1103082331 Acquired: 3/29/2011 14:46:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00587**	**268.65**	**.12972**	**.20532**	**1.8841**	**.01674**	**26.049**
Stddev	.00028	.62	.00060	.00072	.0045	.00005	.063
%RSD	4.7456	.22908	.46244	.34925	.23914	.29245	.24029
#1	.00612	268.06	.12982	.20607	1.8818	.01668	25.976
#2	.00592	268.61	.13025	.20523	1.8893	.01678	26.087
#3	.00557	269.29	.12907	.20465	1.8812	.01674	26.083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00506**	**.27240**	**.44292**	**.11281**	**376.44**	**15.873**	**.17297**
Stddev	.00003	.00125	.00219	.00122	.57	.038	.00118
%RSD	.62271	.45776	.49524	1.0810	.15092	.24057	.68438
#1	.00502	.27096	.44101	.11152	376.22	15.865	.17222
#2	.00508	.27312	.44531	.11296	377.08	15.915	.17434
#3	.00507	.27312	.44242	.11395	376.01	15.840	.17235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.451**	**11.414**	**.01631**	**3.0049**	**.15088**	**3.8642**	**.36567**
Stddev	.020	.043	.00023	.0097	.00151	.0243	.00317
%RSD	.09662	.37878	1.3794	.32163	1.0032	.62973	.86744
#1	20.463	11.364	.01656	2.9941	.14932	3.8495	.36260
#2	20.461	11.432	.01625	3.0080	.15098	3.8509	.36548
#3	20.428	11.445	.01613	3.0126	.15234	3.8923	.36893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082331 Acquired: 3/29/2011 14:46:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-88.958**	F **107.99**	F **-24097.**	**.00356**	**.01513**	**2.3659**	**.01354**
Stddev	35.351	1.09	140.	.00180	.00044	.0028	.00057
%RSD	39.739	1.0110	.58046	50.567	2.9258	.11820	4.2425
#1	-50.276	106.82	-24000.	.00188	.01549	2.3644	.01378
#2	-97.007	108.17	-24033.	.00334	.01525	2.3692	.01395
#3	-119.59	108.99	-24257.	.00547	.01464	2.3642	.01288
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22970**	**.48458**	**.01454**	**.72597**	**.40547**	**.17872**
Stddev	.00053	.00131	.00053	.00346	.00412	.00081
%RSD	.23264	.26944	3.6231	.47717	1.0165	.45542
#1	.22909	.48338	.01492	.72201	.40135	.17787
#2	.22998	.48597	.01476	.72845	.40547	.17949
#3	.23004	.48438	.01394	.72745	.40960	.17879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48089.**	**47463.**
Stddev	107.	229.
%RSD	.22249	.48237
#1	48213.	47238.
#2	48028.	47456.
#3	48027.	47695.

Approved: March 30, 2011

Sample Name: L1103082332 Acquired: 3/29/2011 14:50:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00683**	**242.20**	**.13254**	**.20612**	**1.9398**	**.01420**	**35.123**
Stddev	.00062	1.42	.00101	.00234	.0107	.00004	.169
%RSD	9.1363	.58827	.76548	1.1377	.54878	.25079	.48000
#1	.00751	240.56	.13289	.20878	1.9518	.01418	35.294
#2	.00670	243.13	.13334	.20436	1.9313	.01424	34.957
#3	.00628	242.92	.13140	.20522	1.9364	.01417	35.116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00692**	**.31335**	**.44847**	**.12039**	**357.61**	**18.462**	**.17101**
Stddev	.00014	.00057	.00067	.00073	2.74	.095	.00089
%RSD	1.9552	.18055	.14868	.60228	.76582	.51580	.52286
#1	.00686	.31330	.44919	.11956	360.41	18.552	.17146
#2	.00683	.31281	.44787	.12073	354.94	18.362	.17158
#3	.00708	.31394	.44835	.12089	357.48	18.472	.16998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.930**	**15.696**	**.01723**	**1.8119**	**.16014**	**4.9557**	**.50065**
Stddev	.117	.144	.00023	.0035	.00051	.0475	.00143
%RSD	.61971	.91779	1.3127	.19467	.31755	.95909	.28631
#1	19.010	15.837	.01698	1.8098	.16040	4.9344	.49942
#2	18.796	15.549	.01741	1.8099	.15955	4.9225	.50031
#3	18.985	15.702	.01730	1.8160	.16045	5.0101	.50222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082332 Acquired: 3/29/2011 14:50:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-135.29**	F **106.40**	F **-20822.**	**.00793**	**.01727**	**2.5822**	**.01392**
Stddev	27.37	.15	34.	.00205	.00146	.0042	.00026
%RSD	20.233	.14276	.16100	25.808	8.4715	.16298	1.8568
#1	-109.05	106.47	-20860.	.00725	.01810	2.5870	.01394
#2	-163.67	106.22	-20796.	.00631	.01814	2.5792	.01416
#3	-133.15	106.50	-20809.	.01023	.01558	2.5804	.01365
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27339**	**.65930**	**.01295**	**.72008**	**.66354**	**.14743**
Stddev	.00053	.00196	.00158	.00195	.00231	.00042
%RSD	.19269	.29758	12.235	.27096	.34773	.28646
#1	.27365	.66105	.01465	.72221	.66383	.14782
#2	.27278	.65718	.01270	.71967	.66111	.14698
#3	.27373	.65968	.01151	.71838	.66569	.14750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47562.**	**46892.**
Stddev	42.	601.
%RSD	.08762	1.2812
#1	47517.	46321.
#2	47600.	47519.
#3	47569.	46836.

Approved: March 30, 2011

Sample Name: L1103082333 Acquired: 3/29/2011 14:54:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00639**	**271.72**	**.18027**	**.24700**	**1.7948**	**.01964**	**25.317**
Stddev	.00051	1.61	.00100	.00047	.0045	.00008	.185
%RSD	8.0312	.59316	.55312	.19174	.24911	.41834	.73020
#1	.00584	273.54	.18041	.24751	1.7968	.01955	25.346
#2	.00686	270.47	.17921	.24691	1.7897	.01969	25.119
#3	.00647	271.16	.18119	.24658	1.7980	.01969	25.485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00596**	**.36620**	**.48140**	**.11856**	**474.91**	**12.563**	**.15820**
Stddev	.00008	.00019	.00100	.00016	1.48	.071	.00139
%RSD	1.3004	.05089	.20759	.13855	.31138	.56472	.87588
#1	.00595	.36608	.48033	.11840	473.52	12.600	.15660
#2	.00589	.36611	.48231	.11873	474.74	12.482	.15890
#3	.00605	.36641	.48156	.11856	476.47	12.609	.15909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.301**	**14.930**	**.02156**	**3.7383**	**.17106**	**3.4457**	**.55302**
Stddev	.080	.116	.00015	.0329	.00041	.0020	.00100
%RSD	.39267	.77407	.68077	.88066	.23742	.05863	.18043
#1	20.367	14.956	.02150	3.7424	.17151	3.4436	.55417
#2	20.212	14.803	.02172	3.7035	.17095	3.4476	.55255
#3	20.324	15.030	.02145	3.7690	.17072	3.4460	.55235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082333 Acquired: 3/29/2011 14:54:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-32.824**	F **118.38**	F **-27580.**	**.00404**	**.01929**	**2.2885**	**.01420**
Stddev	6.267	.23	67.	.00103	.00232	.0059	.00059
%RSD	19.092	.19243	.24140	25.477	12.050	.25685	4.1915
#1	-36.125	118.47	-27579.	.00444	.01951	2.2909	.01477
#2	-25.597	118.12	-27648.	.00482	.01686	2.2929	.01424
#3	-36.750	118.55	-27515.	.00287	.02149	2.2818	.01358
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22114**	**.34853**	**.01756**	**.85751**	**.41678**	**.18556**
Stddev	.00110	.00167	.00099	.00512	.00064	.00060
%RSD	.49544	.47832	5.6609	.59756	.15293	.32118
#1	.22148	.34917	.01712	.85206	.41736	.18586
#2	.21991	.34664	.01870	.86223	.41610	.18594
#3	.22202	.34979	.01687	.85823	.41689	.18487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47739.**	**47676.**
Stddev	44.	400.
%RSD	.09282	.83811
#1	47721.	47317.
#2	47707.	48107.
#3	47790.	47604.

Approved: March 30, 2011

Sample Name: L1103082334 Acquired: 3/29/2011 14:57:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00438**	**153.80**	**.09850**	**.14703**	**1.1854**	**.01047**	**187.55**
Stddev	.00004	1.53	.00150	.00051	.0029	.00005	.30
%RSD	1.0180	.99600	1.5201	.34374	.24126	.47897	.15933
#1	.00438	155.43	.09844	.14701	1.1880	.01052	187.39
#2	.00442	153.58	.09704	.14654	1.1823	.01042	187.36
#3	.00434	152.39	.10003	.14755	1.1860	.01049	187.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00589**	**.17443**	**.26705**	**.30331**	**239.95**	**14.841**	**.08721**
Stddev	.00006	.00040	.00098	.00176	.32	.020	.00171
%RSD	1.0314	.22853	.36652	.58007	.13397	.13383	1.9576
#1	.00585	.17484	.26593	.30520	240.00	14.848	.08816
#2	.00596	.17443	.26771	.30172	239.61	14.818	.08523
#3	.00585	.17404	.26752	.30300	240.24	14.856	.08822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.609**	**8.3711**	**.01616**	**.77157**	**.11897**	**7.6624**	**.34529**
Stddev	.077	.0150	.00016	.00455	.00036	.0177	.00201
%RSD	.41334	.17957	.99171	.58917	.30488	.23078	.58182
#1	18.522	8.3591	.01602	.77276	.11926	7.6750	.34355
#2	18.641	8.3662	.01633	.76655	.11857	7.6700	.34483
#3	18.666	8.3880	.01613	.77540	.11910	7.6422	.34749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082334 Acquired: 3/29/2011 14:57:41 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.954**	F **365.61**	F **-54951.**	**.00560**	**.01896**	**1.9911**	**.01162**
Stddev	42.842	.71	7.	.00178	.00176	.0021	.00016
%RSD	286.49	.19441	.01350	31.774	9.2934	.10741	1.3618
#1	28.166	366.25	-54943.	.00455	.01948	1.9933	.01171
#2	-32.937	364.85	-54958.	.00766	.02041	1.9908	.01144
#3	49.633	365.74	-54952.	.00460	.01700	1.9891	.01171
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94846**	**.30630**	**.00766**	**.46867**	**.79651**	**.11173**
Stddev	.00107	.00059	.00160	.00056	.00079	.00012
%RSD	.11239	.19140	20.832	.11991	.09958	.11150
#1	.94746	.30578	.00624	.46838	.79732	.11163
#2	.94835	.30619	.00939	.46932	.79649	.11170
#3	.94958	.30694	.00735	.46831	.79573	.11187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46589.**	**46363.**
Stddev	84.	151.
%RSD	.18046	.32522
#1	46501.	46422.
#2	46597.	46475.
#3	46668.	46192.

Approved: March 30, 2011

Sample Name: L1103082335 Acquired: 3/29/2011 15:01:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00627**	**209.24**	**.13521**	**.19707**	**1.5833**	**.01536**	**47.092**
Stddev	.00047	3.50	.00217	.00156	.0024	.00017	.265
%RSD	7.5010	1.6746	1.6034	.79084	.15503	1.1092	.56240
#1	.00575	205.20	.13444	.19871	1.5843	.01518	47.104
#2	.00668	211.37	.13353	.19560	1.5805	.01552	46.822
#3	.00636	211.16	.13766	.19690	1.5850	.01537	47.351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00650**	**.26589**	**.41922**	**.10298**	**372.23**	**9.9536**	**.11911**
Stddev	.00005	.00367	.00584	.00129	2.21	.0457	.00020
%RSD	.84078	1.3810	1.3923	1.2543	.59258	.45908	.16429
#1	.00649	.26196	.41257	.10162	372.97	9.9316	.11897
#2	.00657	.26646	.42158	.10315	369.75	9.9230	.11903
#3	.00646	.26924	.42350	.10418	373.97	10.006	.11933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.253**	**15.154**	**.01711**	**1.5289**	**.12579**	**3.4928**	**.52759**
Stddev	.136	.132	.00040	.0100	.00236	.0522	.00619
%RSD	.78794	.87072	2.3178	.65647	1.8745	1.4958	1.1725
#1	17.264	15.166	.01711	1.5254	.12309	3.4344	.52059
#2	17.112	15.016	.01671	1.5211	.12682	3.5088	.52988
#3	17.383	15.279	.01751	1.5402	.12745	3.5351	.53231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103082335 Acquired: 3/29/2011 15:01:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-6.5108**	F **103.42**	F **-16648.**	**.00358**	**.01970**	**2.5644**	**.01265**
Stddev	73.120	1.20	256.	.00114	.00292	.0352	.00035
%RSD	1123.1	1.1628	1.5401	31.974	14.816	1.3721	2.8030
#1	43.070	102.07	-16359.	.00490	.02074	2.5240	.01229
#2	-90.486	103.81	-16737.	.00293	.01640	2.5805	.01267
#3	27.883	104.38	-16848.	.00291	.02195	2.5886	.01300
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.32137**	**.36516**	**.01234**	**.72166**	**.54037**	**.15586**
Stddev	.00142	.00060	.00197	.00752	.00661	.00058
%RSD	.44080	.16462	15.950	1.0417	1.2229	.37118
#1	.32110	.36491	.01404	.71337	.53332	.15562
#2	.32011	.36472	.01279	.72359	.54137	.15543
#3	.32290	.36584	.01019	.72803	.54642	.15651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48556.**	**47170.**
Stddev	374.	692.
%RSD	.77083	1.4666
#1	48976.	46683.
#2	48433.	47962.
#3	48258.	46864.

Approved: March 30, 2011

Sample Name: L1103092101 Acquired: 3/29/2011 15:04:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00476**	**37.038**	**.07092**	**.18645**	**4.4340**	**.00188**
Stddev	.00089	.218	.00139	.00088	.0265	.00003
%RSD	18.736	.58798	1.9557	.46955	.59682	1.5469
#1	.00388	36.919	.07241	.18579	4.4134	.00190
#2	.00475	36.905	.07070	.18612	4.4639	.00185
#3	.00566	37.289	.06966	.18744	4.4248	.00189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1509.1**	**.03134**	**.17245**	**.07036**	**.14075**	**109.33**
Stddev	5.5	.00034	.00185	.00051	.00295	.25
%RSD	.36217	1.0732	1.0730	.72194	2.0946	.22910
#1	1511.5	.03172	.17346	.07022	.14371	109.24
#2	1502.8	.03120	.17358	.06994	.14074	109.62
#3	1513.0	.03110	.17032	.07093	.13781	109.15
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.5978**	**.25634**	**289.41**	**3.2617**	**.01432**	**3.7373**
Stddev	.0257	.00212	.65	.0092	.00023	.0190
%RSD	.55831	.82595	.22530	.28225	1.6131	.50948
#1	4.5786	.25393	288.73	3.2568	.01423	3.7243
#2	4.5880	.25791	289.48	3.2723	.01458	3.7591
#3	4.6270	.25718	290.03	3.2560	.01414	3.7284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103092101 Acquired: 3/29/2011 15:04:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09693**	**58.063**	**7.1063**	F **41.753**	F **19063.**	F **-6191e3**
Stddev	.00116	.518	.0506	22.808	135.	30024.
%RSD	1.1928	.89293	.71227	54.628	.70757	.48492
#1	.09789	58.538	7.1495	50.288	19021.	-6184e3
#2	.09726	58.141	7.1187	15.908	18954.	-6166e3
#3	.09564	57.510	7.0506	59.062	19214.	-6225e3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00743**	**.00289**	**3.3815**	**.01250**	F **13.392**	**.97215**
Stddev	.00194	.00232	.0349	.00030	.117	.00757
%RSD	26.131	80.434	1.0315	2.4098	.87662	.77896
#1	.00963	.00511	3.4111	.01270	13.344	.96444
#2	.00594	.00308	3.3903	.01265	13.526	.97958
#3	.00672	.00048	3.3431	.01216	13.306	.97244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					4.5000	
Low Limit					-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**-.00276**	**.08809**	F **65.220**	**.03660**
Stddev	.00180	.00072	.070	.00020
%RSD	65.147	.81317	.10684	.55217
#1	-.00362	.08871	65.294	.03639
#2	-.00070	.08731	65.155	.03660
#3	-.00398	.08826	65.211	.03680
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit			45.000	
Low Limit			-.01000	

Approved: March 30, 2011

Sample Name: L1103092101 Acquired: 3/29/2011 15:04:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44449.**	**46704.**
Stddev	179.	296.
%RSD	.40300	.63351
#1	44407.	46391.
#2	44646.	46979.
#3	44295.	46742.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 15:09:05 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42589**	**10.140**	**.40894**	**.51706**	**.98372**	**.05137**	**9.6574**
Stddev	.00153	.043	.00230	.00161	.00078	.00020	.0131
%RSD	.36020	.42372	.56133	.31100	.07926	.38470	.13589
#1	.42765	10.187	.41052	.51713	.98362	.05155	9.6613
#2	.42483	10.129	.41000	.51863	.98454	.05141	9.6682
#3	.42518	10.103	.40631	.51541	.98300	.05116	9.6428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05164**	**.20695**	**.51191**	**.51848**	**3.8033**	**48.995**	**.99036**
Stddev	.00021	.00062	.00301	.00226	.0069	.045	.00250
%RSD	.40912	.30143	.58710	.43501	.18074	.09264	.25244
#1	.05173	.20676	.51290	.52023	3.7990	49.020	.98810
#2	.05180	.20765	.51430	.51929	3.8112	49.021	.99304
#3	.05140	.20645	.50854	.51594	3.7996	48.942	.98994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3598**	**.46280**	**1.0046**	**49.342**	**.51251**	**10.077**	**.50722**
Stddev	.0313	.00229	.0002	.101	.00156	.024	.00147
%RSD	.33437	.49555	.01551	.20467	.30342	.23584	.28961
#1	9.3273	.46177	1.0047	49.329	.51424	10.082	.50892
#2	9.3898	.46543	1.0044	49.449	.51204	10.099	.50634
#3	9.3622	.46121	1.0046	49.248	.51124	10.052	.50640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 15:09:05 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **150.64**	**10.447**	F **-55.442**	**1.2387**	**.40328**	**5.1368**	**1.0079**
Stddev	25.83	.062	20.414	.0035	.00153	.0098	.0030
%RSD	17.146	.59576	36.821	.28103	.38001	.19006	.29547
#1	132.92	10.503	-65.668	1.2421	.40151	5.1413	1.0085
#2	180.28	10.457	-68.723	1.2389	.40408	5.1435	1.0105
#3	138.73	10.380	-31.936	1.2352	.40424	5.1256	1.0046
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96446**	**.96528**	**.52365**	**1.0351**	**.99871**	**1.0113**
Stddev	.00209	.00273	.00269	.0036	.00368	.0052
%RSD	.21705	.28248	.51321	.34671	.36863	.51852
#1	.96407	.96455	.52332	1.0384	1.0018	1.0166
#2	.96672	.96830	.52649	1.0355	.99975	1.0111
#3	.96259	.96300	.52115	1.0313	.99462	1.0061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48800.**	**45185.**
Stddev	90.	35.
%RSD	.18498	.07813
#1	48732.	45145.
#2	48765.	45206.
#3	48902.	45206.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 15:12:26 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.01400**	**-.00002**	**.00130**	**-.00034**	**.00001**	**.00465**
Stddev	.00087	.00049	.00120	.00027	.00009	.00001	.00348
%RSD	5875.4	3.5119	7474.1	20.400	28.035	153.98	74.914
#1	-.00040	.01438	-.00112	.00137	-.00041	.00000	.00859
#2	-.00063	.01345	.00125	.00153	-.00023	.00000	.00201
#3	.00098	.01419	-.00018	.00101	-.00037	.00001	.00333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00009**	**-.00029**	**-.00022**	**.00070**	**.20013**	**-.00876**
Stddev	.00011	.00009	.00019	.00013	.00145	.01260	.00236
%RSD	103.53	99.007	66.303	58.399	208.38	6.2935	26.925
#1	-.00015	.00012	-.00050	-.00017	.00223	.21444	-.00712
#2	.00002	-.00001	-.00011	-.00036	-.00066	.19072	-.00771
#3	-.00019	.00015	-.00027	-.00012	.00052	.19524	-.01147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01456**	**-.00020**	**.00001**	**-.00060**	**.00081**	**-.00052**	**.00071**
Stddev	.01576	.00017	.00005	.00764	.00035	.00176	.00035
%RSD	108.24	82.704	475.56	1281.8	42.522	339.25	49.809
#1	-.03153	-.00016	-.00004	.00024	.00041	.00142	.00107
#2	-.00036	-.00039	.00007	-.00863	.00100	-.00200	.00069
#3	-.01181	-.00006	.00001	.00659	.00103	-.00097	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 15:12:26 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **143.31**	**.18062**	F **-38.218**	**-.00031**	**-.00105**	**-.00069**	**-.00010**
Stddev	15.50	.03479	10.423	.00060	.00303	.00029	.00030
%RSD	10.814	19.261	27.272	192.35	287.71	42.630	294.81
#1	160.89	.17815	-26.856	-.00003	-.00452	-.00061	-.00044
#2	131.65	.21658	-40.463	.00009	.00032	-.00101	.00015
#3	137.37	.14714	-47.336	-.00101	.00105	-.00044	-.00002
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00067**	**.00024**	**-.00018**	**.00374**	**.00014**
Stddev	.00005	.00079	.00095	.00012	.00023	.00009
%RSD	301.13	116.97	395.32	67.563	6.2117	66.718
#1	.00002	-.00022	.00132	-.00032	.00400	.00009
#2	.00000	.00099	-.00045	-.00011	.00357	.00008
#3	-.00008	.00125	-.00015	-.00011	.00365	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49026.**	**45642.**
Stddev	67.	272.
%RSD	.13578	.59485
#1	49072.	45433.
#2	48950.	45949.
#3	49056.	45544.

Approved: March 30, 2011

Sample Name: L1103092605 Acquired: 3/29/2011 15:16:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**2.6129**	**.00285**	**.00232**	**.00405**	**.00001**	**.02668**
Stddev	.00028	.0184	.00052	.00011	.00005	.00002	.00613
%RSD	194.11	.70422	18.100	4.6079	1.2100	393.64	22.987
#1	-.00045	2.5929	.00341	.00240	.00411	-.00001	.02855
#2	.00011	2.6166	.00240	.00220	.00404	.00003	.03165
#3	-.00009	2.6291	.00274	.00237	.00401	-.00001	.01982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00087**	**.00177**	**.00215**	**4.3875**	**.24663**	**-.00499**
Stddev	.00005	.00009	.00019	.00017	.0430	.01672	.00029
%RSD	17.015	10.503	10.543	7.7104	.98046	6.7796	5.8642
#1	-.00023	.00094	.00156	.00224	4.3612	.23313	-.00525
#2	-.00032	.00090	.00185	.00225	4.3641	.24143	-.00467
#3	-.00028	.00076	.00191	.00196	4.4371	.26534	-.00503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10006**	**.02657**	**-.00007**	**.07491**	**.00175**	**.05671**	**.00174**
Stddev	.00447	.00040	.00008	.00596	.00019	.00259	.00047
%RSD	4.4699	1.5153	111.29	7.9547	10.828	4.5626	26.849
#1	.09489	.02653	-.00012	.07622	.00186	.05472	.00147
#2	.10264	.02619	-.00011	.08011	.00187	.05578	.00228
#3	.10264	.02699	.00002	.06841	.00154	.05964	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092605 Acquired: 3/29/2011 15:16:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.8489**	**.45314**	F **-128.81**	**-.00093**	**-.00034**	**.00634**	**-.00022**
Stddev	42.693	.04319	2.81	.00046	.00215	.00029	.00007
%RSD	482.47	9.5307	2.1853	49.570	623.84	4.6374	31.249
#1	55.152	.41457	-125.56	-.00070	-.00038	.00609	-.00024
#2	.34839	.49980	-130.60	-.00063	-.00248	.00627	-.00027
#3	-28.954	.44507	-130.26	-.00147	.00183	.00666	-.00014
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000				
Low Limit			-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.02839**	**.00231**	**.00774**	**.01069**	**.00080**
Stddev	.00005	.00052	.00103	.00008	.00012	.00005
%RSD	28.809	1.8385	44.591	1.0924	1.0848	6.2753
#1	.00025	.02778	.00244	.00765	.01056	.00075
#2	.00017	.02872	.00122	.00779	.01074	.00081
#3	.00015	.02865	.00327	.00780	.01078	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50716.**	**45977.**
Stddev	42.	325.
%RSD	.08354	.70669
#1	50764.	45916.
#2	50700.	46329.
#3	50684.	45688.

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 15:19:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**3.5064**	**.00325**	**.00280**	**.00473**	**-.00003**	**.00418**
Stddev	.00043	.0146	.00104	.00014	.00008	.00001	.00276
%RSD	1094.6	.41503	31.834	4.8694	1.6325	31.950	66.024
#1	-.00017	3.5182	.00206	.00266	.00465	-.00002	.00099
#2	-.00025	3.5108	.00393	.00292	.00481	-.00003	.00582
#3	.00054	3.4901	.00377	.00283	.00472	-.00003	.00573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00087**	**.00175**	**.00260**	**4.4987**	**.30233**	**-.00725**
Stddev	.00010	.00013	.00012	.00014	.0180	.00486	.00158
%RSD	30.225	15.363	6.6192	5.1955	.39993	1.6083	21.788
#1	-.00036	.00079	.00188	.00250	4.5192	.30458	-.00809
#2	-.00039	.00102	.00172	.00275	4.4916	.29676	-.00543
#3	-.00021	.00079	.00166	.00254	4.4853	.30567	-.00822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13387**	**.01969**	**-.00018**	**-.00091**	**.00186**	**.04605**	**.00137**
Stddev	.00779	.00025	.00007	.00487	.00009	.00210	.00119
%RSD	5.8179	1.2752	41.700	535.51	5.0554	4.5679	86.750
#1	.13171	.01971	-.00023	.00435	.00175	.04481	.00001
#2	.12739	.01942	-.00009	-.00527	.00193	.04485	.00223
#3	.14251	.01992	-.00022	-.00181	.00189	.04848	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103092606 Acquired: 3/29/2011 15:19:49 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.010**	**.25334**	F **-59.816**	**-.00172**	**-.00053**	**.00951**	**-.00017**
Stddev	86.575	.03718	.293	.00128	.00132	.00032	.00010
%RSD	127.30	14.677	.48943	74.394	247.95	3.3716	60.758
#1	150.72	.29587	-60.109	-.00126	.00079	.00945	-.00029
#2	-21.974	.23721	-59.523	-.00073	-.00054	.00923	-.00009
#3	75.288	.22695	-59.817	-.00316	-.00185	.00986	-.00014
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.03667**	**.00284**	**.00825**	**.01060**	**.00078**
Stddev	.00003	.00045	.00116	.00007	.00031	.00014
%RSD	18.522	1.2363	40.765	.80954	2.8843	17.976
#1	.00020	.03664	.00401	.00825	.01068	.00066
#2	.00014	.03714	.00169	.00831	.01026	.00076
#3	.00020	.03624	.00282	.00818	.01085	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50052.**	**46490.**
Stddev	150.	204.
%RSD	.29933	.43881
#1	49904.	46257.
#2	50048.	46637.
#3	50204.	46575.

Approved: March 30, 2011

Sample Name: L1103068624 Acquired: 3/29/2011 15:23:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**123.39**	**.14014**	**.17203**	**1.6627**	**.01521**	**61.092**
Stddev	.00024	.30	.00061	.00094	.0011	.00004	.217
%RSD	4.6185	.24134	.43290	.54818	.06452	.26775	.35583
#1	.00493	123.11	.14019	.17104	1.6628	.01520	60.871
#2	.00527	123.36	.14072	.17292	1.6617	.01519	61.099
#3	.00540	123.71	.13951	.17211	1.6638	.01526	61.305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00767**	**.16276**	**.52654**	**.15671**	**324.05**	**8.0094**	**.04631**
Stddev	.00009	.00118	.00080	.00037	1.43	.0239	.00206
%RSD	1.2100	.72571	.15129	.23501	.44070	.29849	4.4514
#1	.00765	.16218	.52630	.15668	322.51	7.9818	.04693
#2	.00776	.16411	.52589	.15710	324.29	8.0221	.04799
#3	.00758	.16197	.52743	.15636	325.34	8.0243	.04401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.174**	**10.058**	**.01709**	**.63225**	**.11043**	**6.8848**	**.49130**
Stddev	.138	.068	.00012	.00312	.00096	.0039	.00131
%RSD	.97486	.67465	.71973	.49422	.86587	.05699	.26603
#1	14.041	9.9844	.01715	.62864	.11149	6.8869	.49007
#2	14.165	10.073	.01695	.63398	.11017	6.8871	.49115
#3	14.317	10.118	.01717	.63412	.10963	6.8802	.49267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068624 Acquired: 3/29/2011 15:23:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-50.286**	F **199.82**	F **-41497.**	**.00710**	**.01572**	**2.1458**	**.01163**
Stddev	52.299	.75	90.	.00067	.00105	.0162	.00017
%RSD	104.00	.37356	.21804	9.4725	6.6582	.75339	1.4517
#1	-24.625	199.21	-41600.	.00699	.01470	2.1557	.01162
#2	-15.775	200.66	-41461.	.00649	.01680	2.1545	.01180
#3	-110.46	199.60	-41430.	.00782	.01567	2.1271	.01146
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38495**	**.22820**	**.01196**	**.62384**	**.89871**	**.09749**
Stddev	.00167	.00109	.00029	.00143	.00146	.00021
%RSD	.43457	.47879	2.4299	.22864	.16216	.21941
#1	.38303	.22698	.01169	.62240	.89810	.09746
#2	.38572	.22911	.01194	.62525	.89765	.09772
#3	.38610	.22850	.01227	.62387	.90037	.09729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46623.**	**46436.**
Stddev	135.	205.
%RSD	.28863	.44251
#1	46472.	46624.
#2	46671.	46467.
#3	46728.	46216.

Approved: March 30, 2011

Sample Name: L1103068625 Acquired: 3/29/2011 15:27:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00616**	**104.40**	**.10887**	**.14084**	**1.6580**	**.01221**	**45.361**
Stddev	.00057	.41	.00168	.00085	.0078	.00007	.293
%RSD	9.2491	.38915	1.5430	.60040	.47326	.56535	.64532
#1	.00669	104.06	.11052	.14140	1.6670	.01221	45.688
#2	.00556	104.30	.10716	.14126	1.6528	.01215	45.269
#3	.00621	104.85	.10892	.13987	1.6543	.01229	45.125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00608**	**.25276**	**.25768**	**.11871**	**267.61**	**5.5369**	**.04445**
Stddev	.00008	.00098	.00059	.00074	.31	.0265	.00134
%RSD	1.2419	.38870	.23063	.62583	.11675	.47772	3.0161
#1	.00614	.25176	.25795	.11842	267.97	5.5462	.04375
#2	.00599	.25279	.25700	.11816	267.47	5.5574	.04360
#3	.00610	.25372	.25810	.11956	267.40	5.5070	.04600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.003**	**13.310**	**.01299**	**.66248**	**.09162**	**4.0964**	**.41619**
Stddev	.031	.079	.00006	.00825	.00083	.0015	.00141
%RSD	.27728	.59702	.48557	1.2454	.90801	.03756	.33969
#1	10.969	13.398	.01302	.67033	.09141	4.0979	.41455
#2	11.028	13.291	.01292	.66324	.09092	4.0964	.41695
#3	11.011	13.242	.01304	.65388	.09254	4.0948	.41705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068625 Acquired: 3/29/2011 15:27:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.1926**	F **143.49**	F **-29437.**	**.00721**	**.01987**	**2.0912**	**.00921**
Stddev	53.914	.64	27.	.00319	.00212	.0073	.00030
%RSD	4520.8	.44541	.09267	44.252	10.687	.35136	3.2235
#1	-58.513	143.02	-29448.	.00407	.01881	2.0968	.00922
#2	48.504	143.25	-29406.	.01045	.01849	2.0828	.00950
#3	6.4306	144.22	-29457.	.00710	.02232	2.0939	.00891
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31147**	**.23462**	**.00871**	**.51809**	**.55380**	**.09923**
Stddev	.00216	.00032	.00018	.00271	.00098	.00052
%RSD	.69305	.13487	2.0806	.52233	.17684	.52277
#1	.31371	.23491	.00863	.51751	.55301	.09957
#2	.31128	.23428	.00857	.51573	.55490	.09949
#3	.30941	.23465	.00891	.52104	.55350	.09864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46998.**	**45754.**
Stddev	30.	259.
%RSD	.06461	.56522
#1	47009.	45565.
#2	46963.	45648.
#3	47021.	46049.

Approved: March 30, 2011

Sample Name: L1103068626 Acquired: 3/29/2011 15:30:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**46.687**	**.05412**	**.08050**	**.66509**	**.00349**	F **4806.6**
Stddev	.00149	.232	.00157	.00192	.00552	.00003	67.9
%RSD	175.32	.49589	2.9100	2.3868	.83010	.91087	1.4122
#1	.00114	46.825	.05559	.07970	.66278	.00348	4738.9
#2	-.00077	46.420	.05430	.08270	.67139	.00346	4806.1
#3	.00217	46.816	.05246	.07911	.66109	.00352	4874.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00932**	**.05626**	**.10041**	**.13591**	**129.88**	**5.5596**	**.34816**
Stddev	.00023	.00083	.00079	.00092	1.05	.0423	.00156
%RSD	2.4510	1.4683	.78248	.67750	.80978	.76097	.44676
#1	.00930	.05667	.09951	.13681	129.22	5.5232	.34650
#2	.00910	.05531	.10093	.13497	131.10	5.6060	.34838
#3	.00956	.05680	.10080	.13596	129.33	5.5495	.34959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**176.58**	**6.3252**	**.01050**	**2.2477**	**.15418**	**7.7511**	**.16125**
Stddev	1.07	.0797	.00028	.0047	.00044	.0224	.00250
%RSD	.60737	1.2607	2.6609	.21102	.28446	.28928	1.5496
#1	175.49	6.2623	.01080	2.2450	.15369	7.7769	.16303
#2	177.63	6.4149	.01025	2.2532	.15452	7.7372	.16232
#3	176.61	6.2985	.01044	2.2449	.15434	7.7391	.15839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068626 Acquired: 3/29/2011 15:30:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **179.12**	F **5862.7**	F **-80217.**	**.00744**	**.01763**	**3.4924**	**.00355**
Stddev	19.79	19.6	83.	.00168	.00075	.0145	.00039
%RSD	11.047	.33374	.10372	22.567	4.2604	.41614	11.081
#1	156.95	5873.4	-80313.	.00564	.01755	3.5067	.00400
#2	195.01	5840.1	-80166.	.00896	.01842	3.4930	.00337
#3	185.39	5874.6	-80171.	.00771	.01692	3.4776	.00328
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **25.175**	**.12456**	**-.00407**	**.16660**	**.62421**	**.05079**
Stddev	.068	.00174	.00078	.00068	.00088	.00015
%RSD	.27135	1.3961	19.203	.40519	.14101	.29686
#1	25.174	.12640	-.00456	.16584	.62405	.05080
#2	25.244	.12434	-.00448	.16684	.62342	.05064
#3	25.107	.12294	-.00317	.16713	.62516	.05094
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**38284.**	**41623.**
Stddev	87.	329.
%RSD	.22631	.79141
#1	38248.	41910.
#2	38383.	41263.
#3	38221.	41696.

Approved: March 30, 2011

Sample Name: L1103068627 Acquired: 3/29/2011 15:34:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00565**	**103.59**	**.11586**	**.15587**	**1.5896**	**.01291**	**96.012**
Stddev	.00091	.37	.00149	.00140	.0114	.00005	.403
%RSD	16.199	.35510	1.2821	.90077	.71532	.38746	.42012
#1	.00468	103.90	.11431	.15439	1.5779	.01294	95.663
#2	.00649	103.67	.11728	.15605	1.5902	.01294	95.919
#3	.00577	103.18	.11598	.15718	1.6006	.01285	96.453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00747**	**.16394**	**.27665**	**.11180**	**298.52**	**4.6512**	**.04326**
Stddev	.00010	.00164	.00091	.00112	1.27	.0021	.00147
%RSD	1.3053	.99855	.32749	1.0049	.42550	.04523	3.3958
#1	.00740	.16276	.27727	.11053	297.30	4.6528	.04179
#2	.00758	.16326	.27707	.11220	298.43	4.6521	.04326
#3	.00743	.16581	.27561	.11266	299.84	4.6488	.04473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.300**	**7.9019**	**.01333**	**3.7274**	**.09534**	**3.4035**	**.45303**
Stddev	.036	.0459	.00013	.0109	.00079	.0063	.00133
%RSD	.26875	.58023	.96769	.29110	.82942	.18493	.29286
#1	13.315	7.8621	.01331	3.7189	.09449	3.3962	.45166
#2	13.259	7.8917	.01322	3.7237	.09547	3.4065	.45431
#3	13.325	7.9521	.01347	3.7396	.09606	3.4077	.45313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068627 Acquired: 3/29/2011 15:34:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-2.4005**	F **203.51**	F **-32943.**	**.00604**	**.01275**	**2.3479**	**.00982**
Stddev	71.717	1.33	31.	.00224	.00198	.0127	.00034
%RSD	2987.6	.65153	.09296	37.052	15.532	.54022	3.4722
#1	69.570	202.01	-32939.	.00346	.01490	2.3333	.00989
#2	-2.9093	203.98	-32914.	.00744	.01101	2.3551	.00945
#3	-73.862	204.53	-32975.	.00721	.01233	2.3554	.01012
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58394**	**.25290**	**.01194**	**.54306**	**.64783**	**.10835**
Stddev	.00194	.00051	.00047	.00153	.00103	.00050
%RSD	.33138	.20082	3.8952	.28246	.15970	.45716
#1	.58286	.25231	.01149	.54459	.64753	.10821
#2	.58278	.25325	.01242	.54308	.64698	.10890
#3	.58617	.25313	.01192	.54152	.64898	.10794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47416.**	**46744.**
Stddev	119.	317.
%RSD	.25068	.67887
#1	47390.	46380.
#2	47312.	46962.
#3	47546.	46891.

Approved: March 30, 2011

Sample Name: L1103068628 Acquired: 3/29/2011 15:38:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00487**	**85.294**	**.09594**	**.11222**	**1.0812**	**.01091**	**179.49**
Stddev	.00044	.896	.00025	.00065	.0047	.00002	.47
%RSD	8.9617	1.0506	.26000	.58342	.43650	.22339	.26039
#1	.00534	84.301	.09576	.11166	1.0826	.01090	179.37
#2	.00448	85.539	.09583	.11294	1.0852	.01090	180.00
#3	.00479	86.042	.09622	.11207	1.0760	.01094	179.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00661**	**.12144**	**.22296**	**.08687**	**212.79**	**4.6625**	**.03823**
Stddev	.00005	.00063	.00044	.00108	.76	.0121	.00048
%RSD	.73056	.51693	.19800	1.2445	.35794	.25958	1.2556
#1	.00655	.12090	.22247	.08632	212.67	4.6689	.03786
#2	.00664	.12128	.22306	.08618	213.61	4.6700	.03806
#3	.00663	.12213	.22334	.08812	212.10	4.6485	.03878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.036**	**7.2692**	**.01261**	**2.1704**	**.07852**	**3.1795**	**.36756**
Stddev	.033	.0248	.00009	.0027	.00066	.0106	.00318
%RSD	.23745	.34045	.69879	.12582	.83765	.33436	.86454
#1	13.998	7.2540	.01270	2.1725	.07791	3.1716	.36997
#2	14.060	7.2978	.01259	2.1714	.07845	3.1753	.36396
#3	14.050	7.2559	.01253	2.1673	.07922	3.1916	.36875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068628 Acquired: 3/29/2011 15:38:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-28.101**	F **256.67**	F **-22890.**	**.00702**	**.01225**	**2.0995**	**.00805**
Stddev	43.628	1.14	59.	.00132	.00029	.0050	.00014
%RSD	155.26	.44460	.25670	18.785	2.3692	.23576	1.6979
#1	-52.436	255.86	-22831.	.00849	.01220	2.0946	.00813
#2	22.267	256.17	-22892.	.00659	.01199	2.0993	.00813
#3	-54.133	257.98	-22948.	.00597	.01256	2.1045	.00789
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.81214**	**.22716**	**.00816**	**.45565**	**.49994**	**.08916**
Stddev	.00104	.00122	.00048	.00055	.00169	.00018
%RSD	.12775	.53599	5.8880	.12032	.33779	.20299
#1	.81203	.22683	.00858	.45502	.50170	.08918
#2	.81323	.22851	.00764	.45603	.49833	.08897
#3	.81116	.22614	.00828	.45590	.49980	.08933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46653.**	**47480.**
Stddev	45.	134.
%RSD	.09714	.28294
#1	46659.	47447.
#2	46696.	47366.
#3	46606.	47628.

Approved: March 30, 2011

Sample Name: L1103068629 Acquired: 3/29/2011 15:41:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00428**	**107.25**	**.10591**	**.13925**	**1.5242**	**.01242**	**80.614**
Stddev	.00088	.38	.00085	.00040	.0023	.00003	.135
%RSD	20.498	.35347	.79825	.28864	.15214	.27074	.16722
#1	.00352	107.69	.10618	.13916	1.5223	.01244	80.564
#2	.00524	107.08	.10659	.13890	1.5268	.01245	80.767
#3	.00409	106.99	.10497	.13969	1.5236	.01239	80.512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00688**	**.10661**	**.59493**	**.14082**	**249.56**	**7.8848**	**.04501**
Stddev	.00005	.00061	.00212	.00094	.60	.0104	.00048
%RSD	.75822	.57556	.35562	.66437	.23844	.13121	1.0695
#1	.00692	.10620	.59705	.14095	249.34	7.8781	.04445
#2	.00682	.10731	.59491	.14169	250.24	7.8967	.04525
#3	.00690	.10631	.59282	.13983	249.11	7.8796	.04532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.943**	**6.3493**	**.01210**	**.62431**	**.09880**	**7.8814**	**.36882**
Stddev	.075	.0156	.00018	.00528	.00016	.0264	.00308
%RSD	.58253	.24540	1.4983	.84633	.15961	.33446	.83531
#1	12.955	6.3468	.01215	.62389	.09896	7.8547	.36579
#2	13.011	6.3660	.01191	.62980	.09879	7.9075	.37195
#3	12.862	6.3352	.01226	.61925	.09864	7.8820	.36873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068629 Acquired: 3/29/2011 15:41:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-41.897**	F **229.95**	F **-44493.**	**.00917**	**.01324**	**2.0180**	**.01034**
Stddev	63.961	1.02	72.	.00091	.00406	.0035	.00024
%RSD	152.66	.44350	.16196	9.9555	30.645	.17361	2.2881
#1	22.788	229.70	-44418.	.00930	.01661	2.0151	.01027
#2	-105.11	231.07	-44561.	.01001	.01437	2.0219	.01060
#3	-43.370	229.07	-44499.	.00819	.00874	2.0170	.01015
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47840**	**.20538**	**.00943**	**.47226**	**1.0244**	**.08521**
Stddev	.00057	.00075	.00145	.00161	.0037	.00046
%RSD	.11983	.36370	15.385	.34152	.36184	.54236
#1	.47857	.20492	.00828	.47158	1.0204	.08548
#2	.47886	.20624	.01106	.47410	1.0276	.08547
#3	.47776	.20498	.00895	.47110	1.0254	.08468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47171.**	**47143.**
Stddev	117.	372.
%RSD	.24740	.78928
#1	47205.	46937.
#2	47041.	46919.
#3	47267.	47572.

Approved: March 30, 2011

Sample Name: L1103068630 Acquired: 3/29/2011 15:45:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00391**	**101.01**	**.10464**	**.15098**	**1.2910**	**.01129**	**70.365**
Stddev	.00087	.37	.00104	.00301	.0185	.00007	1.244
%RSD	22.369	.36733	.99161	1.9935	1.4314	.57956	1.7679
#1	.00406	101.38	.10427	.15403	1.3123	.01136	71.777
#2	.00470	100.63	.10581	.14802	1.2787	.01123	69.430
#3	.00297	101.02	.10384	.15090	1.2821	.01127	69.889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00708**	**.09252**	**.25276**	**.12430**	**240.94**	**6.0986**	**.05224**
Stddev	.00003	.00015	.00201	.00040	2.67	.0931	.00120
%RSD	.39855	.16315	.79655	.31780	1.1086	1.5262	2.2873
#1	.00710	.09235	.25279	.12393	243.95	6.2059	.05358
#2	.00705	.09265	.25073	.12471	238.83	6.0498	.05128
#3	.00710	.09255	.25476	.12426	240.05	6.0400	.05188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.609**	**4.8108**	**.01064**	**1.4224**	**.08945**	**6.3876**	**.33306**
Stddev	.119	.0688	.00028	.0285	.00014	.0174	.00378
%RSD	1.0253	1.4294	2.6476	2.0038	.15323	.27179	1.1350
#1	11.726	4.8870	.01096	1.4548	.08951	6.3833	.33137
#2	11.488	4.7532	.01043	1.4014	.08954	6.4067	.33739
#3	11.613	4.7923	.01053	1.4109	.08929	6.3727	.33043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068630 Acquired: 3/29/2011 15:45:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-86.264**	F **239.51**	F **-50300.**	**.00608**	**.01361**	**2.2990**	**.01402**
Stddev	75.150	.33	144.	.00147	.00192	.0209	.00034
%RSD	87.116	.13982	.28671	24.230	14.142	.91056	2.4485
#1	-6.3862	239.22	-50386.	.00471	.01326	2.3227	.01434
#2	-96.842	239.88	-50382.	.00764	.01569	2.2915	.01366
#3	-155.57	239.43	-50134.	.00589	.01189	2.2829	.01405
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43773**	**.22185**	**.01039**	**.45881**	**.64322**	**.08736**
Stddev	.00855	.00379	.00172	.00100	.00069	.00006
%RSD	1.9532	1.7069	16.568	.21821	.10719	.07015
#1	.44750	.22620	.00936	.45773	.64243	.08741
#2	.43160	.22004	.01238	.45971	.64349	.08729
#3	.43410	.21930	.00944	.45899	.64373	.08737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47120.**	**46271.**
Stddev	25.	395.
%RSD	.05375	.85359
#1	47094.	45852.
#2	47145.	46637.
#3	47121.	46325.

Approved: March 30, 2011

Sample Name: L1103068631 Acquired: 3/29/2011 15:48:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00613**	**92.262**	**.12848**	**.13969**	**1.7215**	**.01165**	**36.399**
Stddev	.00071	.439	.00186	.00086	.0064	.00003	.058
%RSD	11.505	.47561	1.4466	.61877	.37367	.29825	.15937
#1	.00683	92.248	.12659	.13869	1.7273	.01162	36.337
#2	.00542	92.708	.12854	.14023	1.7227	.01164	36.452
#3	.00614	91.831	.13031	.14015	1.7146	.01169	36.409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00586**	**.18367**	**.31131**	**.10688**	**272.07**	**6.9594**	**.03269**
Stddev	.00005	.00058	.00075	.00097	.47	.0200	.00120
%RSD	.91385	.31514	.24032	.90348	.17434	.28716	3.6662
#1	.00589	.18434	.31192	.10779	271.52	6.9641	.03401
#2	.00580	.18333	.31048	.10697	272.32	6.9766	.03242
#3	.00590	.18335	.31154	.10586	272.36	6.9374	.03166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3995**	**12.421**	**.01517**	**1.4738**	**.08454**	**10.756**	**.39160**
Stddev	.0715	.044	.00006	.0027	.00030	.021	.00212
%RSD	.76088	.35066	.41658	.18012	.35554	.19422	.54206
#1	9.3178	12.372	.01517	1.4719	.08488	10.780	.39020
#2	9.4301	12.455	.01524	1.4726	.08430	10.747	.39404
#3	9.4506	12.435	.01511	1.4768	.08445	10.741	.39057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068631 Acquired: 3/29/2011 15:48:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-9.9663**	F **199.88**	F **-47825.**	**.00474**	**.02158**	**1.9935**	**.00969**
Stddev	45.441	1.19	105.	.00224	.00120	.0099	.00009
%RSD	455.94	.59285	.22025	47.281	5.5573	.49567	.97674
#1	-59.493	201.11	-47944.	.00378	.02296	2.0045	.00973
#2	29.805	198.75	-47743.	.00314	.02075	1.9909	.00958
#3	-.2114	199.78	-47788.	.00730	.02104	1.9853	.00975
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21223**	**.30776**	**.01131**	**.60619**	**.81486**	**.08499**
Stddev	.00024	.00057	.00091	.00116	.00015	.00049
%RSD	.11121	.18392	8.0277	.19108	.01836	.58151
#1	.21230	.30745	.01231	.60498	.81501	.08452
#2	.21242	.30743	.01053	.60631	.81487	.08495
#3	.21197	.30842	.01111	.60729	.81471	.08551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47196.**	**46567.**
Stddev	59.	153.
%RSD	.12412	.32896
#1	47133.	46737.
#2	47206.	46524.
#3	47248.	46439.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 15:52:34 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43279**	**10.193**	**.41064**	**.52167**	**.97950**	**.05243**	**9.5428**
Stddev	.00027	.021	.00095	.00091	.00301	.00010	.0152
%RSD	.06168	.20802	.23119	.17484	.30756	.18276	.15954
#1	.43256	10.213	.41097	.52228	.98282	.05250	9.5587
#2	.43308	10.194	.40957	.52062	.97876	.05232	9.5412
#3	.43274	10.171	.41137	.52211	.97693	.05246	9.5284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05190**	**.20818**	**.52106**	**.52089**	**3.7555**	**48.606**	**.99010**
Stddev	.00020	.00058	.00181	.00144	.0182	.091	.00312
%RSD	.38211	.27926	.34739	.27647	.48410	.18791	.31543
#1	.05196	.20802	.52243	.52106	3.7669	48.712	.99313
#2	.05168	.20769	.51900	.51937	3.7345	48.551	.99029
#3	.05207	.20882	.52174	.52223	3.7650	48.556	.98689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2540**	**.45862**	**1.0132**	**49.030**	**.51580**	**10.152**	**.51237**
Stddev	.0622	.00117	.0009	.065	.00135	.019	.00158
%RSD	.67248	.25596	.08657	.13214	.26188	.18430	.30804
#1	9.3254	.45991	1.0142	49.089	.51615	10.147	.51202
#2	9.2255	.45763	1.0126	49.039	.51431	10.136	.51099
#3	9.2111	.45831	1.0129	48.961	.51694	10.172	.51409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 15:52:34 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **76.604**	**10.286**	F **2.3628**	**1.2467**	**.40809**	**5.1605**	**1.0161**
Stddev	59.583	.038	5.5384	.0014	.00226	.0123	.0021
%RSD	77.780	.37171	234.40	.11030	.55431	.23735	.20880
#1	141.81	10.304	-1.2549	1.2483	.41046	5.1617	1.0161
#2	62.993	10.243	-.39538	1.2460	.40787	5.1477	1.0140
#3	25.004	10.313	8.7387	1.2457	.40595	5.1721	1.0183
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95796**	**.95705**	**.52486**	**1.0509**	**1.0070**	**1.0200**
Stddev	.00141	.00143	.00020	.0021	.0010	.0009
%RSD	.14739	.14970	.03876	.20268	.09965	.08822
#1	.95915	.95868	.52464	1.0532	1.0080	1.0210
#2	.95832	.95647	.52504	1.0490	1.0060	1.0192
#3	.95640	.95599	.52489	1.0505	1.0069	1.0198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48819.**	**45540.**
Stddev	105.	287.
%RSD	.21606	.62976
#1	48911.	45437.
#2	48842.	45864.
#3	48704.	45319.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 15:55:55 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00921**	**.00050**	**.00134**	**-.00041**	**.00001**	**.00455**
Stddev	.00005	.00143	.00115	.00089	.00011	.00001	.00463
%RSD	56.379	15.524	228.00	66.664	27.709	119.59	101.77
#1	-.00004	.01075	.00174	.00235	-.00036	.00002	.00641
#2	-.00013	.00894	.00030	.00101	-.00032	.00000	.00796
#3	-.00008	.00793	-.00053	.00066	-.00053	.00001	-.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00000**	**-.00049**	**-.00016**	**-.00168**	**.16759**	**-.00588**
Stddev	.00011	.0001	.00011	.00023	.00108	.00826	.00115
%RSD	107.23	13686.	22.864	144.26	64.239	4.9301	19.626
#1	-.00011	-.00003	-.00036	-.00014	-.00149	.17629	-.00579
#2	-.00020	.00013	-.00053	-.00040	-.00285	.15985	-.00478
#3	.00001	-.00010	-.00057	.00006	-.00071	.16664	-.00708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01867**	**-.00028**	**.00010**	**-.00045**	**.00069**	**-.00068**	**-.00027**
Stddev	.00741	.00007	.00005	.00478	.00021	.00036	.00126
%RSD	39.692	23.373	51.889	1056.8	30.695	53.069	469.54
#1	-.01147	-.00035	.00011	-.00150	.00045	-.00100	-.00047
#2	-.01826	-.00022	.00004	-.00462	.00083	-.00077	-.00141
#3	-.02627	-.00027	.00014	.00477	.00080	-.00029	.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 15:55:55 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **117.91**	**.02090**	F **11.461**	**-.00126**	**.00072**	**-.00163**	**-.00027**
Stddev	48.82	.02360	4.398	.00059	.00025	.00047	.00020
%RSD	41.407	112.91	38.373	47.190	34.269	28.983	73.141
#1	62.520	-.00608	9.8016	-.00137	.00095	-.00126	-.00036
#2	154.70	.03111	8.1342	-.00062	.00077	-.00216	-.00042
#3	136.50	.03768	16.447	-.00179	.00046	-.00146	-.00004
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00150**	**-.00004**	**-.00026**	**.00379**	**.00033**
Stddev	.00003	.00056	.00030	.00025	.00033	.00012
%RSD	33.365	37.475	793.89	99.090	8.6683	35.973
#1	-.00012	.00168	-.00034	-.00052	.00356	.00044
#2	-.00006	.00195	.00026	-.00001	.00364	.00034
#3	-.00009	.00087	-.00003	-.00023	.00416	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49311.**	**44994.**
Stddev	55.	86.
%RSD	.11126	.19128
#1	49328.	45063.
#2	49355.	45021.
#3	49249.	44898.

Approved: March 30, 2011

Sample Name: L1103068632S Acquired: 3/29/2011 15:59:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20489**	**90.887**	**.31211**	**.14733**	**1.8002**	**.01198**	**39.481**
Stddev	.00152	.432	.00216	.00079	.0062	.00004	.256
%RSD	.74341	.47551	.69087	.53546	.34483	.32289	.64964
#1	.20572	90.682	.31116	.14699	1.8074	.01201	39.769
#2	.20313	90.595	.31060	.14676	1.7965	.01194	39.395
#3	.20582	91.383	.31458	.14823	1.7968	.01199	39.278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03051**	**.46335**	**.26855**	**.36111**	**285.54**	**7.0811**	**.03241**
Stddev	.00019	.00268	.00124	.00204	.83	.0296	.00079
%RSD	.62809	.57915	.46041	.56576	.29175	.41734	2.4402
#1	.03032	.46115	.26736	.36005	285.32	7.1152	.03295
#2	.03051	.46256	.26846	.35981	284.84	7.0653	.03277
#3	.03070	.46634	.26982	.36346	286.46	7.0629	.03150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6536**	**22.577**	**.01703**	**1.5500**	**.10885**	**13.096**	**.71566**
Stddev	.0473	.127	.00003	.0127	.00117	.021	.00658
%RSD	.49039	.56316	.15121	.82256	1.0757	.15660	.91935
#1	9.6200	22.721	.01702	1.5632	.10750	13.085	.70815
#2	9.6331	22.480	.01701	1.5489	.10957	13.083	.71839
#3	9.7077	22.531	.01706	1.5378	.10948	13.119	.72043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068632S Acquired: 3/29/2011 15:59:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-39.953**	F **218.01**	F **-52488.**	**.00442**	**.02830**	**2.2396**	**.00936**
Stddev	28.494	1.67	80.	.00055	.00178	.0043	.00027
%RSD	71.319	.76783	.15209	12.499	6.2869	.19423	2.9117
#1	-61.306	216.68	-52558.	.00398	.03035	2.2411	.00938
#2	-50.956	217.46	-52401.	.00504	.02741	2.2346	.00962
#3	-7.5981	219.89	-52505.	.00423	.02714	2.2429	.00908
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23070**	**.32789**	**.00833**	**.59247**	**.90270**	**.08363**
Stddev	.00151	.00130	.00116	.00269	.00323	.00023
%RSD	.65462	.39798	13.874	.45400	.35783	.27602
#1	.23231	.32930	.00868	.59442	.89936	.08352
#2	.23049	.32764	.00704	.58940	.90293	.08347
#3	.22931	.32673	.00927	.59359	.90581	.08389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46936.**	**46725.**
Stddev	58.	225.
%RSD	.12455	.48132
#1	46871.	46559.
#2	46985.	46981.
#3	46951.	46635.

Approved: March 30, 2011

Sample Name: L1103068633SD Acquired: 3/29/2011 16:03:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19422**	**93.732**	**.29821**	**.13195**	**1.3558**	**.01048**	**36.198**
Stddev	.00087	.404	.00156	.00073	.0082	.00004	.179
%RSD	.44608	.43134	.52380	.55123	.60375	.38877	.49370
#1	.19472	94.193	.29958	.13255	1.3652	.01049	36.391
#2	.19472	93.564	.29651	.13217	1.3522	.01043	36.039
#3	.19322	93.439	.29854	.13114	1.3500	.01051	36.162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02993**	**.08663**	**.28661**	**.34567**	**248.39**	**7.1571**	**.03461**
Stddev	.00013	.00020	.00247	.00156	.57	.0273	.00093
%RSD	.43410	.22679	.86296	.45004	.22961	.38187	2.6728
#1	.03007	.08677	.28750	.34708	248.97	7.1844	.03568
#2	.02982	.08641	.28382	.34400	247.83	7.1297	.03416
#3	.02989	.08672	.28852	.34593	248.38	7.1572	.03401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7750**	**4.6481**	**.01436**	**1.4906**	**.07679**	**10.163**	**.53834**
Stddev	.0184	.0195	.00015	.0064	.00079	.016	.00155
%RSD	.18816	.41997	1.0160	.43016	1.0234	.15893	.28726
#1	9.7735	4.6660	.01422	1.4907	.07768	10.181	.53961
#2	9.7574	4.6273	.01451	1.4841	.07647	10.156	.53662
#3	9.7941	4.6512	.01434	1.4970	.07621	10.151	.53879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068633SD Acquired: 3/29/2011 16:03:15 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359844-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.459**	F **194.45**	F **-46489.**	**.00637**	**.02024**	**2.3426**	**.00924**
Stddev	14.927	.76	87.	.00163	.00229	.0126	.00016
%RSD	26.916	.39155	.18655	25.606	11.323	.53659	1.7253
#1	-59.302	195.06	-46587.	.00451	.02066	2.3445	.00942
#2	-38.986	193.60	-46423.	.00706	.02229	2.3541	.00912
#3	-68.089	194.70	-46457.	.00755	.01776	2.3292	.00917
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21502**	**.34916**	**.01185**	**.54095**	**.76497**	**.08688**
Stddev	.00095	.00040	.00057	.00053	.00132	.00015
%RSD	.44334	.11379	4.8023	.09798	.17320	.16754
#1	.21610	.34934	.01133	.54090	.76344	.08678
#2	.21430	.34944	.01177	.54045	.76573	.08705
#3	.21467	.34871	.01246	.54150	.76573	.08681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47348.**	**46468.**
Stddev	80.	108.
%RSD	.16964	.23317
#1	47276.	46408.
#2	47332.	46593.
#3	47435.	46403.

Approved: March 30, 2011

Sample Name: L1103068634 Acquired: 3/29/2011 16:06:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00816**	**94.202**	**.13997**	**.15185**	**1.6134**	**.01328**	**22.736**
Stddev	.00046	.381	.00175	.00086	.0054	.00006	.108
%RSD	5.6828	.40439	1.2518	.56311	.33454	.43888	.47654
#1	.00831	93.783	.13812	.15133	1.6163	.01330	22.798
#2	.00854	94.293	.14161	.15284	1.6168	.01332	22.799
#3	.00764	94.528	.14019	.15138	1.6072	.01321	22.611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00570**	**.33294**	**.28951**	**.07992**	**307.71**	**4.5438**	**.02974**
Stddev	.00005	.00169	.00169	.00083	.85	.0306	.00096
%RSD	.79104	.50759	.58504	1.0395	.27732	.67358	3.2348
#1	.00565	.33113	.28974	.07898	307.78	4.5665	.02899
#2	.00574	.33323	.29107	.08025	308.52	4.5559	.02940
#3	.00570	.33447	.28771	.08054	306.82	4.5090	.03082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.9948**	**15.701**	**.01680**	**3.4181**	**.08736**	**4.4882**	**.49588**
Stddev	.0305	.072	.00018	.0120	.00042	.0156	.00186
%RSD	.33958	.45992	1.0944	.35055	.47685	.34759	.37436
#1	8.9875	15.723	.01685	3.4121	.08780	4.4715	.49432
#2	9.0284	15.759	.01660	3.4319	.08731	4.4905	.49538
#3	8.9686	15.620	.01695	3.4103	.08697	4.5025	.49793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068634 Acquired: 3/29/2011 16:06:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-4.1434**	F **92.640**	F **-19899.**	**.00486**	**.02245**	**1.4436**	**.00832**
Stddev	22.049	.734	100.	.00098	.00086	.0042	.00062
%RSD	532.16	.79191	.50043	20.056	3.8466	.28854	7.4331
#1	-27.507	91.836	-19828.	.00597	.02306	1.4392	.00880
#2	-1.2250	92.808	-19856.	.00413	.02283	1.4475	.00762
#3	16.302	93.274	-20013.	.00449	.02147	1.4441	.00855
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17551**	**.22072**	**.01323**	**.68476**	**.40774**	**.09151**
Stddev	.00054	.00082	.00123	.00174	.00087	.00014
%RSD	.30870	.37290	9.2750	.25417	.21250	.15794
#1	.17560	.22016	.01463	.68292	.40675	.09143
#2	.17601	.22166	.01275	.68498	.40820	.09142
#3	.17493	.22032	.01232	.68638	.40829	.09168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47625.**	**47333.**
Stddev	49.	417.
%RSD	.10328	.88047
#1	47667.	47032.
#2	47571.	47159.
#3	47638.	47809.

Approved: March 30, 2011

Sample Name: L1103068635 Acquired: 3/29/2011 16:10:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**110.65**	**.10934**	**.12257**	**1.8338**	**.01078**	**459.53**
Stddev	.00020	.19	.00081	.00051	.0008	.00003	3.65
%RSD	4.8208	.16831	.74305	.41900	.04283	.31538	.79466
#1	.00442	110.65	.10897	.12272	1.8329	.01074	461.91
#2	.00409	110.47	.11027	.12300	1.8342	.01078	461.36
#3	.00405	110.84	.10878	.12200	1.8342	.01081	455.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00623**	**.11959**	**.23391**	**.16317**	**222.21**	**12.248**	**.06041**
Stddev	.00008	.00040	.00034	.00092	.63	.018	.00115
%RSD	1.3500	.33717	.14683	.56184	.28501	.14379	1.8994
#1	.00625	.11927	.23423	.16263	221.70	12.235	.05920
#2	.00615	.11946	.23394	.16264	222.00	12.268	.06057
#3	.00631	.12004	.23355	.16422	222.92	12.241	.06147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.034**	**6.7938**	**.01384**	**1.2977**	**.10960**	**20.088**	**.29670**
Stddev	.119	.0190	.00029	.0134	.00048	.041	.00129
%RSD	.47543	.27969	2.0834	1.0309	.43379	.20509	.43449
#1	25.007	6.7729	.01351	1.2894	.10954	20.049	.29534
#2	24.930	6.7983	.01405	1.3131	.11010	20.085	.29687
#3	25.164	6.8101	.01395	1.2905	.10915	20.131	.29790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068635 Acquired: 3/29/2011 16:10:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-58.358**	F **726.34**	F **-82141.**	**.00611**	**.02120**	**1.9491**	**.01010**
Stddev	24.868	1.67	61.	.00176	.00392	.0052	.00017
%RSD	42.612	.23057	.07423	28.857	18.487	.26706	1.6804
#1	-86.341	724.98	-82086.	.00642	.01947	1.9493	.01028
#2	-49.946	725.82	-82132.	.00769	.01845	1.9542	.01008
#3	-38.788	728.21	-82206.	.00421	.02569	1.9438	.00994
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6692**	**.24947**	**.01028**	**.47227**	**1.5287**	**.08645**
Stddev	.0034	.00078	.00137	.00114	.0049	.00022
%RSD	.20238	.31168	13.311	.24188	.31835	.25307
#1	1.6696	.24995	.01041	.47104	1.5337	.08651
#2	1.6723	.24857	.01158	.47247	1.5240	.08664
#3	1.6656	.24989	.00885	.47330	1.5284	.08621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45679.**	**46533.**
Stddev	73.	180.
%RSD	.16010	.38604
#1	45616.	46515.
#2	45759.	46721.
#3	45662.	46363.

Approved: March 30, 2011

Sample Name: L1103068636 Acquired: 3/29/2011 16:14:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00388**	**116.42**	**.11627**	**.13108**	**1.8953**	**.01259**	**50.107**
Stddev	.00032	.94	.00183	.00106	.0022	.00002	.099
%RSD	8.2938	.80987	1.5751	.80485	.11456	.14904	.19811
#1	.00425	116.50	.11420	.13158	1.8973	.01257	50.206
#2	.00367	115.44	.11768	.13180	1.8956	.01259	50.007
#3	.00372	117.32	.11694	.12987	1.8929	.01260	50.107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00585**	**.07591**	**.28180**	**.14587**	**252.48**	**8.6835**	**.04386**
Stddev	.00011	.00051	.00087	.00170	.30	.0301	.00057
%RSD	1.8602	.66594	.31020	1.1684	.11975	.34669	1.2955
#1	.00582	.07646	.28170	.14774	252.80	8.7158	.04321
#2	.00598	.07579	.28273	.14545	252.44	8.6562	.04411
#3	.00576	.07547	.28099	.14441	252.19	8.6785	.04426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.967**	**4.7012**	**.01357**	**1.2970**	**.09447**	**15.116**	**.28355**
Stddev	.017	.0098	.00027	.0079	.00027	.082	.00234
%RSD	.14260	.20733	2.0021	.60710	.28495	.54106	.82353
#1	11.956	4.7124	.01336	1.3029	.09474	15.193	.28582
#2	11.959	4.6948	.01387	1.2881	.09446	15.125	.28368
#3	11.987	4.6964	.01346	1.3001	.09420	15.030	.28115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068636 Acquired: 3/29/2011 16:14:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-2.5016**	F **182.71**	F **-39146.**	**.00453**	**.01512**	**2.0569**	**.01007**
Stddev	48.585	1.62	239.	.00238	.00202	.0158	.00036
%RSD	1942.2	.88514	.61126	52.506	13.391	.76884	3.5969
#1	53.591	184.30	-39309.	.00599	.01494	2.0722	.01037
#2	-31.417	182.78	-39258.	.00178	.01723	2.0577	.01017
#3	-29.679	181.06	-38871.	.00581	.01319	2.0406	.00967
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27267**	**.26702**	**.01313**	**.55809**	**1.1511**	**.09379**
Stddev	.00084	.00100	.00051	.00215	.0041	.00021
%RSD	.30782	.37584	3.8928	.38512	.35472	.22093
#1	.27324	.26705	.01266	.55565	1.1542	.09399
#2	.27171	.26600	.01307	.55969	1.1527	.09357
#3	.27306	.26800	.01367	.55894	1.1465	.09382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48039.**	**47344.**
Stddev	223.	378.
%RSD	.46465	.79768
#1	47807.	46920.
#2	48056.	47466.
#3	48253.	47645.

Approved: March 30, 2011

Sample Name: L1103068640 Acquired: 3/29/2011 16:17:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00385**	**129.90**	**.11051**	**.14009**	**2.4080**	**.01473**	**47.950**
Stddev	.00048	3.26	.00019	.00120	.0138	.00006	.361
%RSD	12.553	2.5075	.17225	.85661	.57333	.38418	.75287
#1	.00334	126.54	.11060	.14122	2.4211	.01466	48.326
#2	.00391	133.04	.11030	.14020	2.4094	.01477	47.917
#3	.00429	130.12	.11064	.13883	2.3936	.01474	47.606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00548**	**.10338**	**.29399**	**.10350**	**276.75**	**5.4397**	**.04457**
Stddev	.00006	.00046	.00194	.00047	1.64	.0514	.00046
%RSD	1.0361	.44926	.65911	.45026	.59421	.94406	1.0426
#1	.00550	.10284	.29528	.10314	278.20	5.4950	.04508
#2	.00552	.10368	.29492	.10403	277.08	5.4307	.04416
#3	.00541	.10362	.29176	.10333	274.96	5.3935	.04447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.586**	**4.9635**	**.01413**	**1.9460**	**.10618**	**2.3982**	**.26348**
Stddev	.101	.0497	.00002	.0137	.00067	.0020	.00258
%RSD	.64944	1.0015	.10675	.70540	.63037	.08207	.97908
#1	15.703	5.0123	.01415	1.9619	.10689	2.3990	.26584
#2	15.532	4.9654	.01412	1.9371	.10609	2.3996	.26072
#3	15.523	4.9129	.01413	1.9392	.10556	2.3959	.26387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068640 Acquired: 3/29/2011 16:17:44 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-31.762**	F **114.75**	F **-19226.**	**.00446**	**.01305**	**2.0303**	**.01006**
Stddev	19.375	.10	39.	.00060	.00060	.0086	.00050
%RSD	61.000	.08821	.20419	13.520	4.6223	.42387	4.9239
#1	-43.216	114.63	-19193.	.00512	.01239	2.0205	.00949
#2	-9.3920	114.82	-19217.	.00433	.01357	2.0368	.01032
#3	-42.678	114.79	-19269.	.00394	.01319	2.0336	.01037
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.35418**	**.18169**	**.01215**	**.57836**	**.33083**	**.12307**
Stddev	.00226	.00113	.00114	.00126	.00452	.00035
%RSD	.63697	.61940	9.3438	.21857	1.3675	.28842
#1	.35658	.18293	.01135	.57797	.33603	.12346
#2	.35386	.18142	.01165	.57978	.32779	.12299
#3	.35211	.18073	.01345	.57734	.32868	.12276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48079.**	**46459.**
Stddev	133.	589.
%RSD	.27696	1.2687
#1	48157.	45851.
#2	47925.	46497.
#3	48154.	47028.

Approved: March 30, 2011

Sample Name: L1103068641 Acquired: 3/29/2011 16:21:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00421**	**126.12**	**.13599**	**.14116**	**1.9091**	**.01269**	**43.841**
Stddev	.00085	.95	.00195	.00036	.0086	.00001	.176
%RSD	20.228	.75702	1.4364	.25342	.45192	.06879	.40221
#1	.00347	127.23	.13375	.14139	1.9003	.01269	43.650
#2	.00514	125.61	.13685	.14075	1.9094	.01270	43.874
#3	.00402	125.53	.13735	.14135	1.9175	.01269	43.998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00690**	**.07861**	**.30747**	**.11291**	**266.92**	**8.1872**	**.05459**
Stddev	.00006	.00035	.00146	.00060	1.32	.0497	.00148
%RSD	.82450	.44130	.47412	.53326	.49357	.60722	2.7180
#1	.00691	.07901	.30662	.11321	265.78	8.1567	.05365
#2	.00696	.07837	.30915	.11330	266.63	8.1602	.05382
#3	.00684	.07845	.30663	.11222	268.37	8.2445	.05630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.109**	**4.4494**	**.01344**	**.64157**	**.09526**	**5.2208**	**.32976**
Stddev	.055	.0267	.00014	.00527	.00026	.0065	.00104
%RSD	.41844	.60050	1.0294	.82169	.27374	.12508	.31567
#1	13.121	4.4215	.01360	.64720	.09496	5.2159	.32963
#2	13.049	4.4518	.01335	.63675	.09543	5.2282	.33086
#3	13.157	4.4748	.01338	.64076	.09539	5.2183	.32879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068641 Acquired: 3/29/2011 16:21:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-43.023**	F **183.17**	F **-40018.**	**.00554**	**.01434**	**2.1797**	**.01031**
Stddev	30.480	.05	306.	.00133	.00119	.0047	.00016
%RSD	70.845	.02624	.76384	24.049	8.2741	.21671	1.5705
#1	-66.059	183.12	-39666.	.00701	.01359	2.1782	.01019
#2	-8.4611	183.17	-40221.	.00522	.01571	2.1850	.01025
#3	-54.549	183.21	-40167.	.00440	.01373	2.1759	.01050
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30384**	**.26857**	**.01264**	**.58310**	**.57991**	**.11457**
Stddev	.00107	.00073	.00198	.00121	.00170	.00025
%RSD	.35239	.27056	15.639	.20737	.29295	.22115
#1	.30263	.26821	.01424	.58175	.57796	.11435
#2	.30423	.26808	.01043	.58407	.58112	.11452
#3	.30467	.26940	.01324	.58350	.58063	.11485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47905.**	**48815.**
Stddev	80.	243.
%RSD	.16602	.49840
#1	47845.	48649.
#2	47874.	49094.
#3	47995.	48702.

Approved: March 30, 2011

Sample Name: L1103068642 Acquired: 3/29/2011 16:25:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**121.88**	**.12299**	**.13458**	**2.1555**	**.01317**	**42.318**
Stddev	.00019	.73	.00136	.00080	.0089	.00005	.327
%RSD	4.8584	.59946	1.1086	.59535	.41233	.40797	.77177
#1	.00362	121.71	.12151	.13395	2.1461	.01311	42.040
#2	.00398	122.68	.12329	.13432	2.1565	.01319	42.236
#3	.00389	121.25	.12418	.13548	2.1638	.01322	42.678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00642**	**.08390**	**.26189**	**.10749**	**259.46**	**6.2439**	**.04731**
Stddev	.00004	.00047	.00171	.00109	1.51	.0371	.00122
%RSD	.65804	.55948	.65184	1.0186	.58229	.59472	2.5874
#1	.00643	.08338	.25998	.10627	258.00	6.2016	.04802
#2	.00645	.08402	.26326	.10837	259.36	6.2587	.04801
#3	.00637	.08430	.26244	.10785	261.02	6.2713	.04590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.636**	**4.3730**	**.01330**	**1.1472**	**.09664**	**3.4830**	**.31623**
Stddev	.115	.0447	.00013	.0072	.00055	.0121	.00255
%RSD	.84656	1.0218	.95539	.63080	.56626	.34819	.80590
#1	13.529	4.3342	.01332	1.1393	.09603	3.4692	.31463
#2	13.621	4.3629	.01316	1.1536	.09678	3.4880	.31489
#3	13.759	4.4219	.01341	1.1486	.09710	3.4919	.31917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068642 Acquired: 3/29/2011 16:25:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-14.398**	F **133.56**	F **-26546.**	**.00576**	**.01420**	**1.8792**	**.01051**
Stddev	45.219	1.18	42.	.00140	.00104	.0038	.00017
%RSD	314.05	.88567	.15841	24.283	7.3317	.20221	1.6277
#1	34.309	132.20	-26514.	.00486	.01515	1.8751	.01040
#2	-22.461	134.13	-26593.	.00737	.01437	1.8826	.01070
#3	-55.043	134.35	-26530.	.00505	.01309	1.8798	.01042
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31297**	**.22569**	**.01300**	**.54446**	**.47218**	**.11359**
Stddev	.00195	.00161	.00303	.00196	.00196	.00072
%RSD	.62156	.71176	23.328	.35991	.41540	.63620
#1	.31117	.22439	.01338	.54227	.47001	.11276
#2	.31269	.22519	.00979	.54509	.47270	.11391
#3	.31503	.22749	.01582	.54603	.47382	.11409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48136.**	**47459.**
Stddev	90.	241.
%RSD	.18717	.50695
#1	48236.	47596.
#2	48062.	47599.
#3	48109.	47181.

Approved: March 30, 2011

Sample Name: L1103068643 Acquired: 3/29/2011 16:28:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00472**	**79.049**	**.29158**	**.12362**	**1.4617**	**.01013**	**243.18**
Stddev	.00080	.539	.00139	.00033	.0039	.00006	.85
%RSD	16.923	.68200	.47525	.26408	.26908	.55654	.34888
#1	.00519	79.594	.29312	.12324	1.4591	.01007	242.99
#2	.00380	79.037	.29117	.12374	1.4662	.01015	244.11
#3	.00517	78.516	.29044	.12386	1.4597	.01017	242.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00929**	**.12688**	**.24824**	**.10680**	**221.68**	**8.1567**	**.03377**
Stddev	.00011	.00036	.00090	.00016	.42	.0025	.00090
%RSD	1.1722	.28758	.36272	.15347	.18993	.03047	2.6740
#1	.00932	.12704	.24898	.10693	221.64	8.1547	.03348
#2	.00938	.12714	.24724	.10661	222.11	8.1559	.03478
#3	.00917	.12647	.24850	.10684	221.27	8.1595	.03305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.222**	**6.8309**	**.01366**	**.70172**	**.08177**	**6.3476**	**.38954**
Stddev	.038	.0321	.00009	.00443	.00036	.0047	.00197
%RSD	.30719	.46952	.67672	.63189	.43923	.07420	.50600
#1	12.195	6.8268	.01355	.70409	.08176	6.3438	.38754
#2	12.206	6.8648	.01371	.70447	.08141	6.3529	.39148
#3	12.265	6.8011	.01372	.69661	.08213	6.3462	.38959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068643 Acquired: 3/29/2011 16:28:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-14.451**	F **437.10**	F **-54087.**	**.00864**	**.01538**	**2.3239**	**.01091**
Stddev	38.560	.76	100.	.00052	.00227	.0104	.00010
%RSD	266.83	.17495	.18400	6.0054	14.740	.44778	.93525
#1	-24.243	437.96	-54138.	.00821	.01406	2.3139	.01083
#2	28.061	436.85	-54151.	.00850	.01409	2.3231	.01087
#3	-47.171	436.50	-53973.	.00922	.01800	2.3347	.01102
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.82919**	**.28329**	**.01008**	**.51198**	**.62102**	**.08314**
Stddev	.00299	.00092	.00124	.00210	.00144	.00021
%RSD	.36034	.32625	12.310	.41002	.23220	.24903
#1	.82783	.28347	.00971	.50972	.62234	.08290
#2	.83261	.28411	.00907	.51387	.62124	.08324
#3	.82712	.28229	.01147	.51234	.61948	.08327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46144.**	**47235.**
Stddev	84.	212.
%RSD	.18275	.44893
#1	46053.	47011.
#2	46161.	47262.
#3	46219.	47432.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 16:32:15 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43247**	**10.159**	**.41639**	**.52005**	**.98620**	**.05235**	**9.5459**
Stddev	.00219	.011	.00232	.00019	.00015	.00020	.0329
%RSD	.50549	.11242	.55752	.03571	.01494	.37815	.34458
#1	.43291	10.162	.41907	.52007	.98624	.05255	9.5535
#2	.43010	10.168	.41499	.52022	.98633	.05216	9.5098
#3	.43440	10.146	.41510	.51985	.98604	.05232	9.5743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05221**	**.20994**	**.51949**	**.52593**	**3.7592**	**48.841**	**.99905**
Stddev	.00021	.00022	.00153	.00078	.0045	.222	.00146
%RSD	.39507	.10319	.29440	.14770	.12020	.45533	.14588
#1	.05239	.21013	.52123	.52682	3.7540	48.969	1.0005
#2	.05199	.20999	.51838	.52544	3.7612	48.584	.99761
#3	.05225	.20970	.51885	.52552	3.7624	48.969	.99902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2861**	**.45527**	**1.0072**	**49.226**	**.51732**	**10.168**	**.51154**
Stddev	.0524	.00119	.0014	.270	.00131	.013	.00118
%RSD	.56398	.26030	.13757	.54881	.25404	.12421	.23081
#1	9.2989	.45568	1.0067	49.330	.51627	10.155	.51030
#2	9.2285	.45393	1.0061	48.919	.51879	10.179	.51265
#3	9.3308	.45619	1.0087	49.428	.51689	10.171	.51167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 16:32:15 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **106.36**	**10.441**	F **1.4294**	**1.2509**	**.40503**	**5.1779**	**1.0194**
Stddev	49.28	.061	5.1161	.0030	.00190	.0063	.0015
%RSD	46.329	.58141	357.93	.24225	.47027	.12083	.15150
#1	162.77	10.381	7.3027	1.2513	.40627	5.1707	1.0211
#2	71.720	10.441	-.95735	1.2476	.40284	5.1806	1.0190
#3	84.588	10.502	-2.0573	1.2537	.40598	5.1823	1.0180
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000		10.000				
Range	10.000%		-10.000%				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96098**	**.96621**	**.52740**	**1.0499**	**1.0094**	**1.0159**
Stddev	.00466	.00389	.00213	.0024	.0007	.0023
%RSD	.48459	.40273	.40308	.22772	.06839	.22270
#1	.96154	.96726	.52829	1.0524	1.0096	1.0160
#2	.95607	.96190	.52497	1.0477	1.0099	1.0181
#3	.96533	.96947	.52894	1.0495	1.0086	1.0136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48766.**	**45751.**
Stddev	90.	388.
%RSD	.18399	.84699
#1	48837.	45683.
#2	48796.	46168.
#3	48665.	45402.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 16:35:38 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.01411**	**.00101**	**.00141**	**-.00028**	**-.00001**	**.01188**
Stddev	.00044	.00032	.00239	.00064	.00028	.00001	.00367
%RSD	516.93	2.2881	236.82	45.616	98.822	89.651	30.899
#1	.00052	.01411	.00375	.00122	.00004	-.00001	.01315
#2	-.00036	.01443	-.00008	.00213	-.00040	.00000	.00774
#3	.00009	.01378	-.00065	.00088	-.00047	-.00002	.01475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00006**	**-.00056**	**-.00019**	**.00694**	**.19872**	**-.00752**
Stddev	.00004	.00010	.00008	.00039	.00427	.02246	.00067
%RSD	54.216	173.10	14.321	203.99	61.492	11.304	8.8629
#1	-.00003	.00003	-.00065	-.00057	.01115	.19880	-.00676
#2	-.00010	-.00004	-.00052	-.00021	.00708	.17621	-.00780
#3	-.00009	-.00016	-.00050	.00021	.00261	.22114	-.00800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02246**	**-.00001**	**.00005**	**.00946**	**.00066**	**-.00046**	**-.00014**
Stddev	.00342	.00007	.00005	.00675	.00042	.00063	.00106
%RSD	15.240	538.45	101.96	71.334	63.963	136.50	778.35
#1	-.02588	.00003	.00005	.00861	.00039	-.00086	.00017
#2	-.02246	-.00009	.00011	.01660	.00114	.00027	.00074
#3	-.01903	.00003	.00000	.00318	.00044	-.00080	-.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 16:35:38 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **144.59**	**.01470**	F **4.1147**	**-.00109**	**-.00038**	**.00246**	**-.00018**
Stddev	47.73	.01835	5.9097	.00151	.00172	.00285	.00038
%RSD	33.010	124.84	143.62	138.48	451.56	116.20	216.82
#1	99.547	-.00613	10.815	-.00239	-.00224	.00117	-.00014
#2	139.62	.02848	-.35383	.00056	-.00008	.00047	.00019
#3	194.62	.02173	1.8826	-.00144	.00117	.00573	-.00057
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000		1.0000				
Low Limit	-1.0000		-1.0000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00053**	**.00046**	**-.00017**	**.00358**	**.00033**
Stddev	.00005	.00028	.00173	.00012	.00015	.00015
%RSD	210.91	52.167	371.67	66.487	4.2111	43.789
#1	.00004	.00076	.00155	-.00031	.00341	.00017
#2	.00007	.00061	.00137	-.00010	.00364	.00046
#3	-.00003	.00022	-.00153	-.00011	.00369	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49046.**	**45572.**
Stddev	30.	140.
%RSD	.06113	.30787
#1	49077.	45502.
#2	49042.	45481.
#3	49018.	45734.

Approved: March 30, 2011

Sample Name: PBS 15 Acquired: 3/29/2011 16:39:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.02203**	**-.00290**	**.00046**	**-.00029**	**-.00003**	**.06804**
Stddev	.00019	.00157	.00054	.00027	.00000	.00003	.00047
%RSD	131.40	7.1182	18.597	57.552	1.6757	133.42	.68756
#1	.00000	.02276	-.00327	.00077	-.00030	.00000	.06850
#2	-.00035	.02310	-.00228	.00026	-.00029	-.00006	.06805
#3	-.00008	.02023	-.00314	.00036	-.00029	-.00001	.06757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00038**	**.00019**	**-.00034**	**.00676**	**.41451**	**-.00886**
Stddev	.00011	.00008	.00024	.00052	.00105	.03033	.00125
%RSD	63.742	21.917	122.68	152.81	15.576	7.3175	14.078
#1	.00025	-.00030	.00021	.00011	.00700	.37949	-.00978
#2	.00005	-.00047	-.00005	-.00022	.00561	.43259	-.00744
#3	.00023	-.00036	.00043	-.00090	.00767	.43144	-.00935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02882**	**-.00007**	**.00019**	**.06220**	**.00208**	F **-.01604**	**.00074**
Stddev	.00540	.00010	.00009	.00450	.00048	.00146	.00109
%RSD	18.749	146.98	50.709	7.2269	22.946	9.1218	145.92
#1	.02319	-.00017	.00027	.05943	.00212	-.01738	.00200
#2	.02932	.00003	.00020	.06739	.00253	-.01625	.00021
#3	.03396	-.00007	.00009	.05979	.00158	-.01448	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: PBS 15 Acquired: 3/29/2011 16:39:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **54.391**	**5.3888**	F **-1521.3**	**.00216**	**.00257**	**.01575**	**-.00029**
Stddev	45.280	.0296	5.9	.00121	.00056	.00148	.00016
%RSD	83.250	.54953	.38873	55.836	21.702	9.4172	56.094
#1	7.8582	5.3762	-1528.1	.00349	.00234	.01481	-.00011
#2	57.009	5.4226	-1517.6	.00186	.00216	.01746	-.00042
#3	98.305	5.3675	-1518.1	.00113	.00320	.01499	-.00034
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00089**	**-.00225**	**-.00022**	**.00659**	**.00033**
Stddev	.00005	.00086	.00053	.00023	.00461	.00016
%RSD	19.784	96.300	23.398	103.98	69.965	49.241
#1	.00031	.00024	-.00279	-.00048	.00455	.00023
#2	.00022	.00057	-.00222	-.00009	.01187	.00051
#3	.00023	.00187	-.00174	-.00008	.00335	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47219.**	**46111.**
Stddev	126.	477.
%RSD	.26608	1.0337
#1	47081.	46147.
#2	47248.	46569.
#3	47327.	45618.

Approved: March 30, 2011

Sample Name: LCSS 15 Acquired: 3/29/2011 16:43:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21421**	**.02257**	**.20917**	**.00059**	**-.00036**	**-.00001**	**.03884**
Stddev	.00484	.00375	.00778	.00066	.00006	.00003	.00337
%RSD	2.2587	16.628	3.7171	112.02	17.749	275.31	8.6893
#1	.21913	.02689	.21815	.00134	-.00037	-.00005	.04266
#2	.20946	.02013	.20472	.00032	-.00029	.00002	.03626
#3	.21403	.02068	.20464	.00011	-.00042	-.00002	.03760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02736**	**-.00031**	**.00044**	**.27831**	**.11439**	**.32621**	**-.00898**
Stddev	.00109	.00023	.00019	.01032	.00119	.01832	.00097
%RSD	3.9981	73.725	42.620	3.7073	1.0408	5.6159	10.762
#1	.02862	-.00057	.00055	.29022	.11557	.34700	-.01010
#2	.02676	-.00014	.00022	.27272	.11319	.31920	-.00842
#3	.02669	-.00022	.00055	.27199	.11442	.31244	-.00843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01479**	**.23853**	**.00012**	**.01731**	**.00166**	F **-.01798**	**.26939**
Stddev	.00626	.00324	.00010	.00372	.00016	.00111	.01118
%RSD	42.366	1.3571	84.687	21.512	9.9150	6.1628	4.1488
#1	.01641	.23546	.00008	.01764	.00183	-.01791	.28224
#2	.00787	.23821	.00004	.01343	.00151	-.01912	.26195
#3	.02008	.24191	.00024	.02085	.00163	-.01690	.26398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: LCSS 15 Acquired: 3/29/2011 16:43:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **137.66**	**3.1330**	F **-865.03**	**.00232**	**.00258**	**.01196**	**-.00015**
Stddev	26.03	.1573	37.31	.00083	.00122	.00177	.00021
%RSD	18.911	5.0217	4.3126	35.816	47.355	14.770	137.54
#1	129.55	3.3147	-907.34	.00189	.00365	.01346	-.00040
#2	166.78	3.0399	-850.89	.00327	.00125	.01241	-.00003
#3	116.64	3.0444	-836.86	.00179	.00284	.01001	-.00003
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00122**	**-.00175**	**.00003**	**.00403**	**.00028**
Stddev	.00004	.00047	.00157	.00012	.00058	.00004
%RSD	74.353	38.708	89.979	371.71	14.313	14.199
#1	.00001	.00136	-.00334	.00002	.00470	.00033
#2	.00007	.00069	-.00170	-.00008	.00371	.00028
#3	.00007	.00160	-.00020	.00016	.00368	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46349.**	**45110.**
Stddev	1321.	152.
%RSD	2.8490	.33648
#1	44824.	44995.
#2	47132.	45282.
#3	47090.	45053.

Approved: March 30, 2011

Sample Name: L1103041807 Acquired: 3/29/2011 16:46:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00461**	**118.57**	**.10281**	**.15565**	**1.9132**	**.01177**	**44.772**
Stddev	.00011	.31	.00131	.00071	.0066	.00004	.210
%RSD	2.3963	.26028	1.2757	.45548	.34267	.30768	.46810
#1	.00449	118.79	.10139	.15524	1.9193	.01180	44.740
#2	.00462	118.71	.10307	.15647	1.9139	.01179	44.996
#3	.00471	118.22	.10398	.15525	1.9063	.01173	44.581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00731**	**.11946**	**.22465**	**.14186**	**276.83**	**6.0928**	**.05834**
Stddev	.00008	.00049	.00046	.00068	.81	.0185	.00028
%RSD	1.0535	.40708	.20330	.48264	.29257	.30328	.48003
#1	.00736	.11913	.22413	.14221	277.06	6.0991	.05864
#2	.00722	.11924	.22498	.14108	277.50	6.1073	.05808
#3	.00735	.12002	.22483	.14231	275.93	6.0720	.05829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.530**	**5.2198**	**.00899**	**3.4489**	**.15280**	**3.3543**	**.35109**
Stddev	.114	.0365	.00005	.0136	.00070	.0157	.00186
%RSD	.64900	.69916	.51464	.39366	.45528	.46908	.52837
#1	17.483	5.2057	.00896	3.4430	.15360	3.3675	.35113
#2	17.660	5.2612	.00905	3.4644	.15236	3.3586	.34922
#3	17.447	5.1924	.00897	3.4393	.15243	3.3369	.35293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041807 Acquired: 3/29/2011 16:46:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.285**	F **119.54**	F **-21732.**	**.00331**	**.00759**	**2.3615**	**.00883**
Stddev	45.528	.16	55.	.00022	.00285	.0023	.00038
%RSD	318.72	.13150	.25389	6.5905	37.543	.09700	4.2840
#1	-34.984	119.50	-21793.	.00322	.00518	2.3609	.00864
#2	23.038	119.72	-21715.	.00316	.01073	2.3596	.00926
#3	54.800	119.41	-21687.	.00356	.00685	2.3640	.00858
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58408**	**.20285**	**.00800**	**.37508**	**.68017**	**.09704**
Stddev	.00282	.00091	.00033	.00055	.00150	.00024
%RSD	.48301	.44842	4.1513	.14705	.22103	.24572
#1	.58230	.20185	.00805	.37482	.67844	.09679
#2	.58734	.20364	.00764	.37470	.68094	.09706
#3	.58262	.20307	.00830	.37571	.68113	.09727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47862.**	**46984.**
Stddev	41.	450.
%RSD	.08613	.95675
#1	47909.	46962.
#2	47830.	46545.
#3	47849.	47444.

Approved: March 30, 2011

Sample Name: L1103041808 Acquired: 3/29/2011 16:50:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00628**	**101.58**	**.10594**	**.13664**	**1.8223**	**.01129**	**44.213**
Stddev	.00014	.52	.00164	.00086	.0094	.00004	.295
%RSD	2.2421	.51556	1.5486	.62834	.51374	.31086	.66617
#1	.00642	101.41	.10594	.13761	1.8325	.01129	44.540
#2	.00628	102.17	.10758	.13599	1.8140	.01133	43.969
#3	.00614	101.17	.10430	.13631	1.8206	.01126	44.130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01814**	**.13678**	**.21987**	**.19933**	**238.39**	**9.7407**	**.05565**
Stddev	.00006	.00021	.00154	.00018	1.19	.0653	.00046
%RSD	.34864	.15238	.70031	.09117	.49968	.67059	.83532
#1	.01822	.13681	.22041	.19929	239.76	9.8032	.05595
#2	.01811	.13698	.22107	.19953	237.66	9.6729	.05589
#3	.01810	.13656	.21814	.19918	237.74	9.7460	.05512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.862**	**6.6619**	**.01154**	**.99489**	**.15764**	**6.2022**	**.69199**
Stddev	.076	.0591	.00003	.00610	.00107	.0123	.00418
%RSD	.47807	.88731	.27346	.61327	.67752	.19898	.60437
#1	15.948	6.7291	.01156	.99487	.15792	6.2157	.69532
#2	15.829	6.6182	.01155	.98879	.15855	6.1993	.68730
#3	15.807	6.6383	.01150	1.0010	.15646	6.1915	.69336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041808 Acquired: 3/29/2011 16:50:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **36.712**	F **182.77**	F **-40464.**	**.00689**	**.01191**	**2.3145**	**.01467**
Stddev	53.335	.49	354.	.00089	.00068	.0087	.00013
%RSD	145.28	.26986	.87429	12.948	5.7323	.37409	.89148
#1	88.692	183.32	-40663.	.00728	.01127	2.3212	.01456
#2	-17.882	182.58	-40673.	.00752	.01263	2.3174	.01482
#3	39.325	182.39	-40055.	.00587	.01183	2.3047	.01464
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29582**	**.25643**	**.00499**	**.33907**	**4.6923**	**.08014**
Stddev	.00148	.00107	.00062	.00044	.0053	.00010
%RSD	.49901	.41672	12.356	.12877	.11265	.12766
#1	.29749	.25689	.00531	.33955	4.6944	.08008
#2	.29468	.25719	.00537	.33870	4.6863	.08026
#3	.29528	.25520	.00428	.33897	4.6962	.08009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46933.**	**46985.**
Stddev	131.	563.
%RSD	.27871	1.1990
#1	46801.	46346.
#2	46935.	47199.
#3	47063.	47411.

Approved: March 30, 2011

Sample Name: L1103041809 Acquired: 3/29/2011 16:53:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00920**	**161.75**	**.11391**	**.25755**	**4.4905**	**.01368**	**117.60**
Stddev	.00071	1.48	.00119	.00185	.0048	.00003	.24
%RSD	7.7372	.91417	1.0457	.71739	.10628	.21833	.20233
#1	.00887	161.59	.11527	.25940	4.4959	.01367	117.86
#2	.00871	163.30	.11302	.25571	4.4887	.01366	117.40
#3	.01001	160.36	.11345	.25754	4.4870	.01372	117.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01091**	**.16843**	**.23175**	**.22893**	**288.90**	**8.1100**	**.08409**
Stddev	.00006	.00067	.00079	.00128	.30	.0157	.00115
%RSD	.58435	.39512	.34094	.55698	.10350	.19365	1.3725
#1	.01085	.16845	.23247	.23019	289.02	8.1280	.08408
#2	.01098	.16908	.23091	.22764	289.13	8.0992	.08294
#3	.01089	.16775	.23186	.22897	288.57	8.1027	.08525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.143**	**8.0029**	**.01349**	**6.8095**	**.18579**	**5.8608**	**.54015**
Stddev	.099	.0128	.00015	.0229	.00009	.0233	.00064
%RSD	.40800	.15958	1.1033	.33640	.05079	.39772	.11917
#1	24.186	8.0176	.01362	6.8347	.18574	5.8818	.53999
#2	24.214	7.9967	.01333	6.7900	.18590	5.8357	.54086
#3	24.031	7.9943	.01353	6.8038	.18573	5.8649	.53960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041809 Acquired: 3/29/2011 16:53:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **41.013**	F **238.80**	F **-35238.**	**.00474**	**.01221**	**5.1929**	**.01071**
Stddev	65.905	1.18	61.	.00182	.00148	.0259	.00012
%RSD	160.69	.49433	.17420	38.393	12.142	.49833	1.1176
#1	-16.255	239.80	-35279.	.00452	.01066	5.2156	.01083
#2	26.245	237.49	-35167.	.00305	.01235	5.1648	.01072
#3	113.05	239.09	-35267.	.00667	.01361	5.1985	.01059
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.8051**	**.66121**	**.00898**	**.50092**	**1.5542**	**.13729**
Stddev	.0069	.00116	.00063	.00111	.0014	.00040
%RSD	.38169	.17587	6.9936	.22202	.09245	.28811
#1	1.8127	.66254	.00969	.49967	1.5533	.13761
#2	1.7994	.66071	.00850	.50130	1.5559	.13684
#3	1.8031	.66039	.00875	.50180	1.5534	.13740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46600.**	**47227.**
Stddev	62.	291.
%RSD	.13334	.61587
#1	46528.	46950.
#2	46641.	47201.
#3	46630.	47530.

Approved: March 30, 2011

Sample Name: L1103041810 Acquired: 3/29/2011 16:57:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00822**	**116.68**	**.12687**	**.14413**	**1.8486**	**.01231**	**43.179**
Stddev	.00039	1.74	.00105	.00089	.0036	.00002	.218
%RSD	4.7572	1.4941	.83105	.61947	.19258	.17386	.50585
#1	.00808	117.32	.12580	.14312	1.8446	.01230	42.936
#2	.00865	118.02	.12690	.14448	1.8497	.01230	43.358
#3	.00791	114.71	.12791	.14480	1.8515	.01234	43.244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01665**	**.17589**	**.26636**	**.19031**	**265.14**	**12.392**	**.06022**
Stddev	.00008	.00071	.00031	.00073	1.30	.038	.00032
%RSD	.45749	.40115	.11799	.38127	.48899	.30410	.53093
#1	.01658	.17508	.26604	.18997	263.65	12.352	.06030
#2	.01663	.17633	.26667	.19115	265.81	12.426	.05987
#3	.01673	.17627	.26638	.18982	265.98	12.400	.06050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.257**	**9.3354**	**.01215**	**.46626**	**.16952**	**6.0069**	**.75460**
Stddev	.134	.0814	.00035	.00407	.00014	.0260	.00265
%RSD	.77903	.87140	2.9003	.87389	.08033	.43259	.35161
#1	17.104	9.2416	.01228	.46628	.16957	5.9911	.75438
#2	17.355	9.3780	.01242	.47033	.16963	6.0369	.75735
#3	17.313	9.3866	.01175	.46218	.16937	5.9927	.75206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041810 Acquired: 3/29/2011 16:57:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-68.069**	F **232.56**	F **-55014.**	**.00741**	**.01604**	**2.4747**	**.01580**
Stddev	48.452	1.34	84.	.00077	.00237	.0069	.00020
%RSD	71.180	.57416	.15225	10.367	14.801	.27775	1.2646
#1	-13.929	231.07	-54974.	.00667	.01414	2.4716	.01567
#2	-107.35	233.65	-55110.	.00735	.01870	2.4826	.01571
#3	-82.928	232.96	-54957.	.00821	.01528	2.4700	.01603
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28139**	**.28913**	**.00405**	**.38184**	**1.7212**	**.08764**
Stddev	.00069	.00098	.00073	.00138	.0064	.00011
%RSD	.24488	.34000	18.104	.36109	.37122	.12898
#1	.28075	.28852	.00329	.38076	1.7140	.08751
#2	.28212	.29026	.00475	.38339	1.7263	.08772
#3	.28128	.28860	.00412	.38136	1.7232	.08770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47168.**	**47458.**
Stddev	74.	269.
%RSD	.15586	.56601
#1	47180.	47756.
#2	47089.	47233.
#3	47235.	47385.

Approved: March 30, 2011

Sample Name: L1103041811 Acquired: 3/29/2011 17:00:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00344**	**50.836**	**.05940**	**.06749**	**.76699**	**.00611**	**14.099**
Stddev	.00049	.118	.00309	.00062	.00244	.00002	.066
%RSD	14.235	.23237	5.2040	.91526	.31827	.31343	.46637
#1	.00398	50.742	.05590	.06763	.76863	.00612	14.149
#2	.00303	50.969	.06053	.06803	.76817	.00609	14.122
#3	.00330	50.798	.06176	.06682	.76419	.00612	14.024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00528**	**.08233**	**.11285**	**.06942**	**132.77**	**2.5996**	**.01873**
Stddev	.00005	.00013	.00031	.00067	.55	.0196	.00037
%RSD	.98848	.15339	.27848	.97119	.41784	.75210	1.9717
#1	.00522	.08240	.11309	.06918	132.62	2.5822	.01913
#2	.00530	.08219	.11250	.06891	133.39	2.5960	.01864
#3	.00531	.08241	.11298	.07019	132.31	2.6208	.01840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.1513**	**3.8861**	**.00498**	**.49003**	**.07496**	**1.4563**	**.27608**
Stddev	.0642	.0162	.00012	.00828	.00012	.0063	.00096
%RSD	.89823	.41572	2.3491	1.6902	.15614	.43296	.34594
#1	7.1589	3.8954	.00510	.49919	.07509	1.4541	.27638
#2	7.2113	3.8954	.00486	.48782	.07488	1.4514	.27501
#3	7.0835	3.8674	.00497	.48307	.07490	1.4634	.27685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041811 Acquired: 3/29/2011 17:00:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-22.927**	F **57.617**	F **-12138.**	**.00192**	**.00447**	**1.1115**	**.00442**
Stddev	53.176	.192	44.	.00028	.00038	.0036	.00019
%RSD	231.94	.33358	.36135	14.754	8.5613	.32311	4.3527
#1	37.031	57.702	-12101.	.00197	.00405	1.1115	.00460
#2	-64.375	57.397	-12127.	.00162	.00457	1.1080	.00445
#3	-41.437	57.752	-12187.	.00218	.00479	1.1152	.00421
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10384**	**.12261**	**.00307**	**.18477**	**.49675**	**.03613**
Stddev	.00047	.00081	.00090	.00058	.00080	.00019
%RSD	.45235	.66041	29.348	.31155	.16113	.52659
#1	.10419	.12355	.00399	.18424	.49621	.03613
#2	.10403	.12214	.00219	.18469	.49638	.03632
#3	.10331	.12215	.00304	.18538	.49767	.03594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49277.**	**47936.**
Stddev	110.	261.
%RSD	.22347	.54443
#1	49385.	48055.
#2	49281.	47637.
#3	49165.	48116.

Approved: March 30, 2011

Sample Name: L1103041811PS Acquired: 3/29/2011 17:04:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment: WG359748-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21731**	**56.674**	**.26570**	**1.0778**	**1.2643**	**.03170**	**18.945**
Stddev	.00087	.114	.00141	.0010	.0062	.00003	.117
%RSD	.39892	.20031	.52909	.09649	.48606	.09959	.61937
#1	.21829	56.764	.26407	1.0780	1.2581	.03171	18.826
#2	.21663	56.546	.26654	1.0767	1.2644	.03173	18.949
#3	.21702	56.712	.26648	1.0787	1.2703	.03167	19.060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03128**	**.18512**	**.36599**	**.32658**	**134.07**	**26.427**	**.52166**
Stddev	.00017	.00039	.00059	.00096	.48	.147	.00185
%RSD	.55109	.21319	.16171	.29490	.35652	.55765	.35460
#1	.03108	.18493	.36540	.32554	133.78	26.306	.51978
#2	.03138	.18486	.36598	.32745	133.80	26.384	.52172
#3	.03139	.18557	.36659	.32676	134.62	26.591	.52347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.441**	**4.1011**	**.51111**	**24.916**	**.32991**	**1.4555**	**.52182**
Stddev	.046	.0237	.00119	.150	.00212	.0115	.00229
%RSD	.40032	.57800	.23368	.60251	.64355	.79181	.43923
#1	11.418	4.0812	.50976	24.777	.32811	1.4496	.51918
#2	11.412	4.0948	.51202	24.896	.33225	1.4688	.52297
#3	11.494	4.1273	.51155	25.075	.32938	1.4481	.52330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041811PS Acquired: 3/29/2011 17:04:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 2 Custom ID2: Custom ID3:
Comment: WG359748-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.8370**	F **62.461**	F **-12295.**	**.62568**	**.20542**	**3.7533**	**.00530**
Stddev	87.294	.145	52.	.00394	.00245	.0109	.00028
%RSD	4752.0	.23164	.42046	.63004	1.1915	.29066	5.2606
#1	-96.076	62.314	-12255.	.62347	.20645	3.7451	.00501
#2	14.308	62.603	-12353.	.63024	.20718	3.7492	.00533
#3	76.258	62.467	-12277.	.62335	.20262	3.7657	.00556
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58404**	**.59628**	**.26274**	**.70654**	**.98430**	**.03634**
Stddev	.00373	.00305	.00056	.00121	.00301	.00009
%RSD	.63864	.51187	.21475	.17177	.30606	.24371
#1	.58067	.59340	.26215	.70760	.98170	.03625
#2	.58341	.59597	.26327	.70522	.98361	.03643
#3	.58805	.59948	.26279	.70679	.98760	.03635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48567.**	**47518.**
Stddev	15.	209.
%RSD	.03166	.44086
#1	48581.	47355.
#2	48551.	47755.
#3	48570.	47445.

Approved: March 30, 2011

Sample Name: L1103041811SDL Acquired: 3/29/2011 17:07:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 10 Custom ID2: Custom ID3:
Comment: WG359748-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**10.067**	**.01467**	**.01542**	**.15294**	**.00122**	**2.8690**
Stddev	.00063	.061	.00061	.00084	.00085	.00001	.0198
%RSD	66.944	.60281	4.1315	5.4148	.55470	.53442	.68949
#1	.00122	10.034	.01433	.01633	.15198	.00122	2.8484
#2	.00022	10.137	.01431	.01524	.15326	.00122	2.8707
#3	.00139	10.029	.01537	.01469	.15359	.00121	2.8879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**.01667**	**.02203**	**.01410**	**27.048**	**.61517**	**-.00061**
Stddev	.00008	.00012	.00013	.00033	.105	.01853	.00053
%RSD	8.6726	.74199	.58743	2.3579	.38874	3.0128	87.825
#1	.00084	.01673	.02218	.01430	26.928	.63604	-.00007
#2	.00082	.01653	.02196	.01428	27.095	.60063	-.00114
#3	.00096	.01676	.02196	.01372	27.122	.60883	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4896**	**.80198**	**.00078**	**.09807**	**.01595**	**.31094**	**.05760**
Stddev	.0153	.00650	.00016	.00488	.00006	.00271	.00066
%RSD	1.0297	.81003	20.508	4.9809	.37708	.87106	1.1416
#1	1.4935	.79548	.00060	.10164	.01596	.30903	.05695
#2	1.5025	.80199	.00086	.09250	.01588	.30975	.05826
#3	1.4726	.80848	.00089	.10006	.01600	.31404	.05760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041811SDL Acquired: 3/29/2011 17:07:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 10 Custom ID2: Custom ID3:
Comment: WG359748-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **70.385**	F **11.979**	F **-2556.0**	**-.00149**	**-.00002**	**.22393**	**.00042**
Stddev	61.123	.037	3.6	.00071	.00165	.00092	.00026
%RSD	86.841	.30835	.14238	47.795	8210.4	.41043	61.707
#1	9.2813	11.936	-2560.2	-.00166	.00104	.22499	.00067
#2	70.347	12.003	-2553.7	-.00210	.00082	.22336	.00015
#3	131.53	11.998	-2554.2	-.00071	-.00192	.22345	.00043
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02111**	**.02481**	**.00206**	**.03642**	**.11008**	**.00703**
Stddev	.00009	.00045	.00085	.00040	.00033	.00014
%RSD	.43489	1.7966	41.507	1.1057	.29977	1.9418
#1	.02101	.02441	.00107	.03654	.11045	.00718
#2	.02113	.02529	.00249	.03675	.10994	.00699
#3	.02119	.02472	.00261	.03597	.10984	.00692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50394.**	**47030.**
Stddev	102.	181.
%RSD	.20161	.38483
#1	50464.	47229.
#2	50278.	46985.
#3	50441.	46876.

Approved: March 30, 2011

Sample Name: L1103041811SDL Acquired: 3/29/2011 17:11:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG359748-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**1.9854**	**.00513**	**.00329**	**.03037**	**.00025**	**.57544**
Stddev	.00027	.0344	.00120	.00087	.00012	.00001	.00763
%RSD	132.19	1.7310	23.403	26.580	.39503	3.9330	1.3265
#1	.00044	2.0211	.00415	.00255	.03034	.00026	.57180
#2	.00025	1.9824	.00477	.00425	.03027	.00024	.57030
#3	-.00009	1.9526	.00647	.00307	.03050	.00024	.58421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00358**	**.00400**	**.00310**	**5.4546**	**.19913**	**-.00357**
Stddev	.00002	.00014	.00011	.00032	.0288	.00584	.00187
%RSD	197.58	3.9866	2.7255	10.189	.52775	2.9325	52.490
#1	-.00001	.00366	.00388	.00287	5.4214	.20577	-.00144
#2	.00002	.00341	.00405	.00297	5.4703	.19480	-.00431
#3	.00003	.00366	.00408	.00346	5.4721	.19681	-.00496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28760**	**.16193**	**-.00002**	**.01672**	**.00370**	**.06840**	**.01144**
Stddev	.00460	.00039	.00006	.00462	.00043	.00102	.00157
%RSD	1.5994	.24003	401.46	27.603	11.569	1.4853	13.697
#1	.28631	.16155	.00004	.02009	.00400	.06854	.01281
#2	.28378	.16191	-.00001	.01146	.00390	.06935	.00973
#3	.29271	.16232	-.00008	.01861	.00321	.06733	.01176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041811SDL Acquired: 3/29/2011 17:11:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 50 Custom ID2: Custom ID3:
Comment: WG359748-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-6.8823**	**2.4414**	F **-518.17**	**-.00158**	**-.00084**	**.04202**	**-.00025**
Stddev	28.043	.0186	4.27	.00034	.00084	.00085	.00005
%RSD	407.46	.76132	.82416	21.588	100.63	2.0121	18.658
#1	-13.200	2.4584	-516.64	-.00139	-.00156	.04223	-.00030
#2	23.780	2.4216	-514.89	-.00138	-.00105	.04109	-.00020
#3	-31.227	2.4443	-523.00	-.00198	.00009	.04274	-.00025
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00410**	**.00553**	**.00242**	**.00731**	**.02681**	**.00137**
Stddev	.00001	.00048	.00104	.00024	.00040	.00010
%RSD	.28504	8.7148	42.967	3.2728	1.5020	7.5180
#1	.00408	.00556	.00239	.00717	.02653	.00147
#2	.00410	.00600	.00347	.00717	.02664	.00138
#3	.00411	.00504	.00139	.00758	.02727	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49934.**	**45806.**
Stddev	47.	746.
%RSD	.09400	1.6289
#1	49919.	46524.
#2	49986.	45035.
#3	49896.	45860.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 17:15:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42505**	**10.378**	**.42262**	**.52226**	**1.0225**	**.05148**	**9.8187**
Stddev	.00256	.019	.00371	.00150	.0023	.00017	.0441
%RSD	.60321	.17933	.87849	.28681	.22064	.33411	.44877
#1	.42212	10.356	.42408	.52069	1.0244	.05130	9.8603
#2	.42609	10.390	.42538	.52367	1.0200	.05164	9.7725
#3	.42692	10.388	.41840	.52243	1.0230	.05151	9.8234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05287**	**.21137**	**.51745**	**.53072**	**3.7969**	**49.897**	**1.0323**
Stddev	.00022	.00092	.00038	.00024	.0080	.175	.0027
%RSD	.41169	.43601	.07421	.04449	.21152	.35009	.26688
#1	.05294	.21176	.51702	.53048	3.8007	50.032	1.0353
#2	.05304	.21204	.51759	.53072	3.7877	49.700	1.0300
#3	.05263	.21032	.51774	.53096	3.8024	49.959	1.0315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.1288**	**.46352**	**1.0040**	**49.569**	**.51820**	F **-.00203**	**.52239**
Stddev	.0257	.00193	.0011	.286	.00164	.00265	.00103
%RSD	.28104	.41655	.10783	.57611	.31604	130.47	.19733
#1	9.1021	.46569	1.0051	49.838	.51842	.00080	.52272
#2	9.1311	.46200	1.0029	49.269	.51972	-.00243	.52123
#3	9.1533	.46286	1.0040	49.599	.51646	-.00445	.52322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 17:15:07 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **47.398**	**10.238**	F **42.446**	**1.3112**	**.41569**	F **.00180**	**1.0410**
Stddev	47.045	.071	3.449	.0071	.00321	.00060	.0026
%RSD	99.254	.69147	8.1251	.54432	.77133	33.606	.24882
#1	65.342	10.203	40.805	1.3145	.41243	.00208	1.0407
#2	-5.9778	10.320	40.125	1.3161	.41884	.00110	1.0437
#3	82.830	10.193	46.409	1.3030	.41581	.00221	1.0386
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99596**	**.99675**	**.53560**	**1.0346**	**.99131**	F **.00076**
Stddev	.00577	.00319	.00150	.0036	.00172	.00010
%RSD	.57945	.31959	.27956	.34780	.17323	13.102
#1	1.0018	.99975	.53582	1.0305	.99003	.00064
#2	.99024	.99341	.53697	1.0372	.99326	.00082
#3	.99586	.99708	.53400	1.0362	.99064	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48014.**	**45153.**
Stddev	138.	124.
%RSD	.28810	.27562
#1	47913.	45023.
#2	47957.	45271.
#3	48171.	45166.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 17:18:32 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.01510**	**.00049**	**.00172**	**-.00041**	**.00000**	**.00853**
Stddev	.00076	.00115	.00081	.00092	.00012	.0000	.00671
%RSD	100.55	7.6225	163.23	53.293	29.397	646.31	78.692
#1	-.00130	.01476	.00131	.00207	-.00030	-.00003	.00078
#2	.00011	.01417	.00047	.00241	-.00039	.00001	.01247
#3	-.00107	.01639	-.00030	.00068	-.00053	.00001	.01235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00004**	**-.00038**	**-.00029**	**.00412**	**.13572**	**-.00436**
Stddev	.00002	.00018	.00036	.00015	.00078	.00666	.00085
%RSD	221.96	413.02	93.563	51.451	18.949	4.9084	19.406
#1	-.00001	-.00005	-.00046	-.00035	.00326	.13969	-.00352
#2	.00001	.00025	-.00070	-.00040	.00479	.13945	-.00521
#3	-.00002	-.00007	.00001	-.00012	.00432	.12803	-.00434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00317**	**-.00016**	**-.00001**	**.00623**	**.00102**	**-.00055**	**-.00027**
Stddev	.01470	.00026	.00011	.00117	.00059	.00132	.00090
%RSD	463.84	161.75	1021.9	18.839	57.897	241.44	339.17
#1	-.00237	-.00008	.00000	.00647	.00159	.00098	-.00101
#2	.01112	-.00045	-.00012	.00726	.00042	-.00132	.00073
#3	-.01826	.00005	.00009	.00495	.00104	-.00130	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 17:18:32 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **45.334**	**-.00973**	F **23.426**	**-.00128**	**-.00055**	**-.00085**	**-.00018**
Stddev	67.525	.03307	3.149	.00097	.00127	.00046	.00019
%RSD	148.95	339.99	13.444	75.568	230.26	53.806	105.67
#1	75.543	-.02546	26.443	-.00044	.00030	-.00071	-.00024
#2	-32.021	-.03200	23.675	-.00234	.00005	-.00135	.00003
#3	92.480	.02828	20.159	-.00107	-.00201	-.00047	-.00033
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000		.01000				
Low Limit	-.01000		-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00039**	**-.00008**	**-.00018**	**.00423**	**.00012**
Stddev	.00004	.00078	.00097	.00002	.00011	.00012
%RSD	34.296	201.63	1274.5	12.600	2.5197	97.908
#1	-.00015	-.00045	.00055	-.00021	.00427	.00000
#2	-.00015	.00053	.00042	-.00019	.00411	.00012
#3	-.00008	.00108	-.00120	-.00016	.00431	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48568.**	**45286.**
Stddev	62.	166.
%RSD	.12760	.36689
#1	48582.	45111.
#2	48501.	45303.
#3	48623.	45442.

Approved: March 30, 2011

Sample Name: L1103041812 Acquired: 3/29/2011 17:22:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00813**	**133.79**	**.11353**	**.16088**	**3.5501**	**.01165**	**101.28**
Stddev	.00061	.49	.00059	.00049	.0135	.00006	.22
%RSD	7.5485	.36581	.52370	.30614	.38076	.54509	.21959
#1	.00884	133.80	.11400	.16103	3.5492	.01165	101.41
#2	.00777	133.30	.11373	.16033	3.5640	.01159	101.41
#3	.00778	134.27	.11286	.16128	3.5371	.01171	101.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01889**	**.08654**	**.22056**	**.26361**	**224.61**	**8.8969**	**.07300**
Stddev	.00014	.00008	.00135	.00115	.35	.0098	.00021
%RSD	.71643	.08699	.61382	.43518	.15547	.11077	.28948
#1	.01897	.08658	.21900	.26275	224.25	8.9006	.07295
#2	.01896	.08658	.22130	.26491	224.95	8.9043	.07282
#3	.01873	.08645	.22138	.26316	224.62	8.8857	.07324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.429**	**4.4414**	**.01372**	**4.2324**	**.18046**	**6.5032**	**1.0343**
Stddev	.089	.0085	.00009	.0163	.00067	.0191	.0012
%RSD	.43472	.19096	.62502	.38425	.36911	.29429	.11519
#1	20.345	4.4389	.01364	4.2512	.18122	6.5000	1.0343
#2	20.420	4.4508	.01382	4.2223	.18013	6.5238	1.0355
#3	20.522	4.4343	.01371	4.2237	.18002	6.4860	1.0331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041812 Acquired: 3/29/2011 17:22:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-102.40**	F **277.84**	F **-52693.**	**.00925**	**.01399**	**4.1797**	**.01700**
Stddev	80.80	1.34	211.	.00115	.00136	.0177	.00010
%RSD	78.901	.48329	.40082	12.413	9.7301	.42398	.56749
#1	-17.348	277.41	-52810.	.01041	.01510	4.1890	.01707
#2	-178.13	279.35	-52819.	.00812	.01440	4.1909	.01704
#3	-111.73	276.77	-52449.	.00921	.01247	4.1593	.01689
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3180**	**.41546**	**.00810**	**.40438**	**1.7603**	**.11319**
Stddev	.0046	.00116	.00149	.00027	.0034	.00045
%RSD	.34638	.27870	18.437	.06653	.19470	.39418
#1	1.3227	.41636	.00834	.40410	1.7564	.11304
#2	1.3177	.41415	.00945	.40438	1.7625	.11369
#3	1.3136	.41586	.00650	.40464	1.7621	.11283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46161.**	**46791.**
Stddev	185.	291.
%RSD	.39975	.62151
#1	46021.	46461.
#2	46092.	47010.
#3	46370.	46901.

Approved: March 30, 2011

Sample Name: L1103041813 Acquired: 3/29/2011 17:25:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00704**	**149.28**	**.13039**	**.17701**	**2.9561**	**.01419**	**71.910**
Stddev	.00031	1.63	.00095	.00063	.0055	.00003	.237
%RSD	4.4589	1.0950	.73069	.35806	.18684	.20298	.32997
#1	.00734	147.44	.13125	.17774	2.9619	.01421	72.070
#2	.00671	150.57	.13055	.17675	2.9555	.01420	72.022
#3	.00707	149.82	.12937	.17655	2.9509	.01415	71.637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01087**	**.14248**	**.27746**	**.18439**	**312.70**	**6.4371**	**.07561**
Stddev	.00011	.00040	.00132	.00188	.86	.0081	.00081
%RSD	1.0361	.27897	.47454	1.0170	.27500	.12654	1.0652
#1	.01080	.14251	.27884	.18581	313.21	6.4324	.07480
#2	.01081	.14287	.27733	.18509	313.18	6.4466	.07641
#3	.01100	.14207	.27621	.18226	311.71	6.4325	.07563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.723**	**6.7008**	**.01210**	**3.5133**	**.17981**	**3.9216**	**.52128**
Stddev	.060	.0254	.00007	.0124	.00061	.0046	.00049
%RSD	.29050	.37940	.58945	.35211	.34186	.11632	.09344
#1	20.747	6.7103	.01201	3.5182	.18052	3.9207	.52073
#2	20.769	6.7201	.01213	3.5224	.17942	3.9266	.52149
#3	20.655	6.6720	.01214	3.4992	.17949	3.9176	.52164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041813 Acquired: 3/29/2011 17:25:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.451**	F **168.12**	F **-28368.**	**.00726**	**.01177**	**3.6834**	**.01048**
Stddev	83.405	.52	10.	.00060	.00292	.0144	.00032
%RSD	187.63	.31181	.03610	8.2138	24.796	.39168	3.0185
#1	-105.25	168.46	-28356.	.00783	.01236	3.6884	.01072
#2	50.632	168.39	-28375.	.00731	.01436	3.6947	.01012
#3	-78.733	167.52	-28372.	.00664	.00861	3.6671	.01059
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.92939**	**.34190**	**.01094**	**.49173**	**.93934**	**.13092**
Stddev	.00180	.00056	.00252	.00065	.00080	.00018
%RSD	.19345	.16243	23.063	.13187	.08499	.14095
#1	.92995	.34127	.01182	.49125	.93893	.13101
#2	.93084	.34231	.00809	.49147	.94026	.13105
#3	.92738	.34211	.01290	.49247	.93884	.13071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46532.**	**47839.**
Stddev	122.	325.
%RSD	.26153	.68027
#1	46432.	47646.
#2	46496.	47655.
#3	46667.	48214.

Approved: March 30, 2011

Sample Name: L1103041814 Acquired: 3/29/2011 17:29:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00708**	**107.20**	**.11452**	**.12052**	**1.8334**	**.01135**	**35.360**
Stddev	.00083	.86	.00287	.00058	.0060	.00006	.149
%RSD	11.733	.80108	2.5094	.47785	.32742	.55763	.42038
#1	.00634	108.14	.11577	.11986	1.8278	.01133	35.207
#2	.00692	106.99	.11656	.12077	1.8397	.01131	35.504
#3	.00798	106.46	.11123	.12093	1.8327	.01142	35.369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01169**	**.07937**	**.22945**	**.16162**	**223.78**	**7.5543**	**.05743**
Stddev	.00005	.00050	.00008	.00101	1.02	.0308	.00077
%RSD	.44489	.63616	.03383	.62669	.45564	.40752	1.3493
#1	.01170	.07972	.22946	.16186	222.61	7.5243	.05812
#2	.01173	.07961	.22937	.16249	224.44	7.5858	.05758
#3	.01163	.07879	.22952	.16050	224.30	7.5527	.05659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.801**	**4.3017**	**.00947**	**.48255**	**.14570**	**4.7123**	**.63878**
Stddev	.153	.0275	.00016	.00469	.00133	.0306	.00438
%RSD	.96955	.63846	1.6681	.97135	.91443	.64910	.68553
#1	15.639	4.2730	.00953	.47726	.14699	4.7368	.63911
#2	15.818	4.3277	.00929	.48621	.14580	4.7222	.64298
#3	15.944	4.3045	.00959	.48416	.14433	4.6780	.63424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041814 Acquired: 3/29/2011 17:29:27 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-80.849**	F **189.62**	F **-45402.**	**.00792**	**.01161**	**2.5741**	**.01349**
Stddev	9.109	1.15	631.	.00195	.00125	.0301	.00065
%RSD	11.267	.60897	1.3905	24.581	10.740	1.1701	4.8248
#1	-87.818	190.35	-46126.	.00929	.01030	2.6076	.01366
#2	-70.542	190.22	-45112.	.00877	.01174	2.5655	.01403
#3	-84.187	188.29	-44967.	.00569	.01278	2.5493	.01277
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25124**	**.29926**	**.00683**	**.35552**	**1.5446**	**.08941**
Stddev	.00073	.00094	.00080	.00067	.0065	.00024
%RSD	.29154	.31330	11.755	.18876	.41973	.26484
#1	.25045	.29841	.00647	.35494	1.5480	.08967
#2	.25189	.29909	.00628	.35625	1.5487	.08937
#3	.25137	.30026	.00775	.35535	1.5372	.08920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46969.**	**47328.**
Stddev	186.	106.
%RSD	.39670	.22372
#1	46799.	47431.
#2	46941.	47220.
#3	47168.	47333.

Approved: March 30, 2011

Sample Name: L1103041815 Acquired: 3/29/2011 17:33:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00653**	**117.17**	**.10817**	**.13484**	**2.0122**	**.01353**	**29.614**
Stddev	.00045	.33	.00148	.00111	.0104	.00003	.116
%RSD	6.8720	.27985	1.3689	.82662	.51855	.21588	.39042
#1	.00692	117.16	.10655	.13584	2.0242	.01352	29.748
#2	.00663	117.50	.10853	.13364	2.0073	.01357	29.557
#3	.00604	116.84	.10945	.13503	2.0051	.01351	29.539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00797**	**.20625**	**.25892**	**.12188**	**267.71**	**5.0071**	**.06043**
Stddev	.00012	.00068	.00101	.00021	.91	.0068	.00108
%RSD	1.5318	.32824	.38957	.16966	.34133	.13559	1.7856
#1	.00809	.20588	.25854	.12200	268.77	5.0006	.05958
#2	.00784	.20703	.26006	.12164	267.13	5.0141	.06005
#3	.00796	.20583	.25815	.12200	267.24	5.0066	.06164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.584**	**9.9132**	**.00851**	**1.8676**	**.17087**	**2.5800**	**.45185**
Stddev	.031	.0568	.00013	.0040	.00201	.0241	.00471
%RSD	.18426	.57336	1.5036	.21544	1.1748	.93472	1.0417
#1	16.601	9.9787	.00863	1.8716	.17268	2.6010	.45347
#2	16.602	9.8776	.00852	1.8635	.16871	2.5537	.44655
#3	16.549	9.8832	.00838	1.8676	.17122	2.5853	.45554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041815 Acquired: 3/29/2011 17:33:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.511**	F **114.68**	F **-24815.**	**.00458**	**.01346**	**2.2450**	**.00911**
Stddev	88.263	.40	205.	.00091	.00268	.0125	.00021
%RSD	145.86	.34764	.82621	19.854	19.900	.55556	2.3596
#1	39.734	114.85	-24954.	.00391	.01436	2.2486	.00925
#2	-94.704	114.23	-24579.	.00562	.01045	2.2312	.00886
#3	-126.56	114.97	-24911.	.00421	.01557	2.2554	.00922
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23590**	**.25669**	**.00771**	**.40636**	**.73753**	**.09568**
Stddev	.00062	.00117	.00056	.00018	.00302	.00034
%RSD	.26149	.45724	7.2388	.04422	.41000	.35895
#1	.23658	.25585	.00754	.40616	.74102	.09597
#2	.23573	.25803	.00833	.40642	.73597	.09577
#3	.23538	.25618	.00725	.40651	.73562	.09530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47380.**	**47329.**
Stddev	55.	332.
%RSD	.11573	.70097
#1	47347.	46999.
#2	47350.	47325.
#3	47444.	47663.

Approved: March 30, 2011

Sample Name: L1103041816 Acquired: 3/29/2011 17:36:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00740**	**114.20**	**.11084**	**.13601**	**3.0480**	**.01110**	**71.353**
Stddev	.00058	.84	.00040	.00258	.0152	.00005	.096
%RSD	7.8667	.73788	.36126	1.8958	.49811	.48139	.13482
#1	.00796	113.36	.11070	.13609	3.0492	.01105	71.458
#2	.00680	114.21	.11129	.13339	3.0322	.01116	71.269
#3	.00746	115.04	.11053	.13855	3.0625	.01110	71.332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01001**	**.09476**	**.21203**	**.18384**	**219.96**	**6.3786**	**.06007**
Stddev	.00009	.00013	.00092	.00044	1.07	.0266	.00035
%RSD	.93407	.13338	.43369	.24033	.48606	.41631	.58911
#1	.01010	.09462	.21306	.18414	220.19	6.3695	.06042
#2	.01003	.09480	.21174	.18406	218.80	6.3578	.06008
#3	.00991	.09486	.21130	.18333	220.90	6.4085	.05971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.412**	**4.6823**	**.00982**	**3.1789**	**.13599**	**4.0660**	**.62333**
Stddev	.029	.0134	.00004	.0027	.00052	.0106	.00194
%RSD	.15888	.28528	.42376	.08481	.38459	.26019	.31049
#1	18.446	4.6944	.00986	3.1816	.13546	4.0578	.62372
#2	18.394	4.6680	.00978	3.1790	.13651	4.0622	.62123
#3	18.397	4.6844	.00981	3.1762	.13598	4.0780	.62505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041816 Acquired: 3/29/2011 17:36:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-59.870**	F **181.99**	F **-33609.**	**.00844**	**.01065**	**3.9735**	**.01130**
Stddev	79.934	.17	156.	.00132	.00128	.0033	.00025
%RSD	133.51	.09251	.46289	15.677	11.970	.08414	2.1875
#1	-151.47	182.14	-33519.	.00736	.01034	3.9754	.01145
#2	-4.242	182.02	-33519.	.00803	.01206	3.9696	.01101
#3	-23.898	181.81	-33789.	.00991	.00957	3.9754	.01143
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99438**	**.38239**	**.00858**	**.39896**	**1.5063**	**.10101**
Stddev	.00205	.00026	.00047	.00156	.0006	.00021
%RSD	.20586	.06797	5.4751	.39025	.04099	.20463
#1	.99310	.38252	.00842	.39913	1.5062	.10091
#2	.99674	.38209	.00911	.40042	1.5070	.10087
#3	.99330	.38255	.00822	.39732	1.5058	.10125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47451.**	**47710.**
Stddev	77.	361.
%RSD	.16198	.75662
#1	47368.	47293.
#2	47465.	47933.
#3	47520.	47903.

Approved: March 30, 2011

Sample Name: L1103041817 Acquired: 3/29/2011 17:40:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00630**	**165.13**	**.11994**	**.22084**	**3.9931**	**.01491**	**115.33**
Stddev	.00068	.57	.00129	.00051	.0120	.00005	.48
%RSD	10.781	.34741	1.0763	.23191	.29941	.33623	.41750
#1	.00697	164.99	.11845	.22124	4.0069	.01490	115.85
#2	.00632	165.76	.12061	.22102	3.9857	.01488	114.91
#3	.00561	164.64	.12076	.22027	3.9866	.01497	115.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00782**	**.14116**	**.23193**	**.19490**	**272.73**	**5.9494**	**.08422**
Stddev	.00004	.00130	.00140	.00225	.72	.0325	.00085
%RSD	.54501	.92105	.60279	1.1527	.26497	.54571	1.0117
#1	.00778	.13978	.23104	.19261	273.56	5.9857	.08483
#2	.00781	.14134	.23120	.19501	272.29	5.9395	.08325
#3	.00786	.14236	.23354	.19709	272.33	5.9231	.08458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.872**	**5.6156**	**.01330**	**6.8469**	**.17272**	**4.8512**	**.34917**
Stddev	.063	.0314	.00010	.0260	.00113	.0320	.00334
%RSD	.26434	.55881	.73077	.37959	.65584	.66004	.95685
#1	23.869	5.6496	.01341	6.8753	.17147	4.8166	.34553
#2	23.936	5.5877	.01322	6.8244	.17304	4.8572	.34988
#3	23.810	5.6094	.01327	6.8410	.17366	4.8799	.35209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041817 Acquired: 3/29/2011 17:40:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-57.315**	F **208.79**	F **-28135.**	**.00597**	**.01156**	**4.1023**	**.00884**
Stddev	52.940	1.45	105.	.00089	.00107	.0113	.00017
%RSD	92.366	.69663	.37155	14.949	9.2955	.27602	1.9317
#1	-38.805	207.39	-28034.	.00631	.01038	4.1014	.00869
#2	-16.115	208.70	-28128.	.00665	.01182	4.0914	.00882
#3	-117.02	210.30	-28242.	.00496	.01248	4.1140	.00903
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.7228**	**.37815**	**.01160**	**.51607**	**.77857**	**.12587**
Stddev	.0050	.00060	.00043	.00076	.00198	.00039
%RSD	.28800	.15813	3.7377	.14750	.25482	.31092
#1	1.7279	.37872	.01151	.51690	.77681	.12547
#2	1.7180	.37752	.01207	.51589	.77817	.12590
#3	1.7226	.37820	.01122	.51541	.78072	.12625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47203.**	**48240.**
Stddev	15.	392.
%RSD	.03080	.81155
#1	47189.	47817.
#2	47218.	48313.
#3	47204.	48590.

Approved: March 30, 2011

Sample Name: L1103041818 Acquired: 3/29/2011 17:43:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00663**	**104.16**	**.10957**	**.12132**	**1.8847**	**.01131**	**35.579**
Stddev	.00048	.66	.00097	.00064	.0022	.00005	.060
%RSD	7.2372	.63527	.88916	.52657	.11784	.41262	.16982
#1	.00716	103.80	.11030	.12166	1.8871	.01132	35.644
#2	.00623	103.75	.10994	.12059	1.8841	.01135	35.567
#3	.00650	104.92	.10846	.12172	1.8828	.01126	35.525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01080**	**.12769**	**.28458**	**.13940**	**227.26**	**6.5148**	**.05666**
Stddev	.00006	.00012	.00174	.00043	.32	.0249	.00088
%RSD	.57398	.09522	.60976	.31099	.13863	.38270	1.5608
#1	.01073	.12756	.28268	.13920	227.59	6.5436	.05702
#2	.01082	.12772	.28496	.13911	226.96	6.4992	.05565
#3	.01085	.12779	.28609	.13990	227.24	6.5017	.05730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.683**	**6.3400**	**.00887**	**.77326**	**.13421**	**3.7827**	**.59843**
Stddev	.046	.0114	.00016	.00457	.00018	.0085	.00351
%RSD	.31031	.18001	1.7517	.59070	.13669	.22386	.58640
#1	14.637	6.3530	.00885	.77756	.13404	3.7777	.59439
#2	14.728	6.3316	.00904	.76846	.13420	3.7779	.60071
#3	14.682	6.3355	.00873	.77376	.13440	3.7925	.60019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041818 Acquired: 3/29/2011 17:43:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-46.590**	F **156.23**	F **-35877.**	**.00561**	**.01193**	**2.3590**	**.01029**
Stddev	65.614	.14	66.	.00288	.00101	.0049	.00029
%RSD	140.84	.08660	.18389	51.373	8.4301	.20681	2.7819
#1	29.151	156.26	-35847.	.00772	.01115	2.3625	.01033
#2	-82.778	156.08	-35831.	.00678	.01306	2.3534	.00999
#3	-86.141	156.35	-35953.	.00233	.01156	2.3610	.01056
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27355**	**.28615**	**.00617**	**.39938**	**1.3686**	**.09756**
Stddev	.00067	.00094	.00104	.00008	.0014	.00080
%RSD	.24488	.32797	16.893	.02018	.10371	.81782
#1	.27432	.28671	.00722	.39946	1.3681	.09678
#2	.27322	.28507	.00514	.39938	1.3675	.09753
#3	.27311	.28668	.00615	.39930	1.3702	.09838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47757.**	**48682.**
Stddev	74.	327.
%RSD	.15521	.67146
#1	47753.	48308.
#2	47833.	48825.
#3	47685.	48913.

Approved: March 30, 2011

Sample Name: L1103041819 Acquired: 3/29/2011 17:47:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00539**	**105.22**	**.10144**	**.12047**	**1.8188**	**.01202**	**29.817**
Stddev	.00067	.71	.00137	.00052	.0037	.00007	.114
%RSD	12.449	.67106	1.3477	.43027	.20629	.59965	.38302
#1	.00614	105.12	.10062	.12086	1.8154	.01194	29.691
#2	.00517	104.56	.10067	.12067	1.8228	.01208	29.844
#3	.00486	105.97	.10301	.11988	1.8181	.01203	29.915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00729**	**.15140**	**.24496**	**.11428**	**231.42**	**5.1291**	**.05601**
Stddev	.00003	.00046	.00281	.00047	.70	.0045	.00104
%RSD	.43002	.30252	1.1465	.41158	.30435	.08728	1.8481
#1	.00729	.15093	.24260	.11374	230.68	5.1313	.05493
#2	.00726	.15142	.24807	.11454	231.50	5.1321	.05611
#3	.00732	.15184	.24422	.11457	232.09	5.1240	.05700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.000**	**5.8384**	**.00872**	**1.7587**	**.14065**	**2.3513**	**.36617**
Stddev	.063	.0369	.00023	.0100	.00016	.0061	.00115
%RSD	.42162	.63147	2.6134	.56951	.11137	.25936	.31508
#1	14.967	5.7976	.00851	1.7488	.14070	2.3540	.36750
#2	14.960	5.8484	.00896	1.7584	.14047	2.3443	.36538
#3	15.072	5.8692	.00869	1.7688	.14077	2.3555	.36564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041819 Acquired: 3/29/2011 17:47:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-78.939**	F **104.53**	F **-21382.**	**.00456**	**.00997**	**2.7907**	**.00839**
Stddev	48.848	.28	33.	.00100	.00100	.0326	.00017
%RSD	61.881	.26693	.15636	21.987	10.070	1.1680	2.0380
#1	-74.734	104.21	-21386.	.00559	.01083	2.7872	.00821
#2	-32.330	104.68	-21346.	.00448	.01022	2.8249	.00856
#3	-129.75	104.71	-21413.	.00360	.00887	2.7600	.00839
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24558**	**.31132**	**.00770**	**.39663**	**.67853**	**.10695**
Stddev	.00082	.00111	.00114	.00265	.00207	.00043
%RSD	.33192	.35805	14.746	.66928	.30561	.40050
#1	.24469	.31004	.00901	.39363	.67625	.10660
#2	.24576	.31203	.00708	.39759	.67903	.10743
#3	.24629	.31190	.00701	.39867	.68030	.10683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47627.**	**47926.**
Stddev	89.	68.
%RSD	.18771	.14203
#1	47722.	47853.
#2	47544.	47986.
#3	47614.	47941.

Approved: March 30, 2011

Sample Name: L1103041820 Acquired: 3/29/2011 17:50:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15101**	**756.81**	**.15912**	**3.7135**	**36.188**	^ *****
Stddev	.00017	8.25	.00235	.0629	.256	-----
%RSD	.11246	1.0907	1.4792	1.6935	.70603	-----
#1	.15121	748.65	.15730	3.6572	36.437	^ -----
#2	.15090	765.15	.16178	3.7814	36.200	^ -----
#3	.15093	756.63	.15827	3.7019	35.927	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1274.3**	**.01907**	**.19552**	**.44255**	**1.2883**	**313.21**
Stddev	7.9	.00013	.00132	.00730	.0089	.84
%RSD	.61668	.70234	.67699	1.6492	.68849	.26774
#1	1281.2	.01901	.19569	.43548	1.2888	313.10
#2	1275.9	.01922	.19675	.45005	1.2970	314.10
#3	1265.8	.01897	.19412	.44210	1.2792	312.43
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.374**	**.44731**	**155.37**	**1.6194**	**.06023**	**67.876**
Stddev	.040	.00162	.14	.0062	.00059	.179
%RSD	.24616	.36319	.09276	.38050	.98779	.26328
#1	16.370	.44893	155.38	1.6216	.06066	68.070
#2	16.416	.44568	155.52	1.6241	.06048	67.840
#3	16.336	.44732	155.23	1.6124	.05955	67.718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103041820 Acquired: 3/29/2011 17:50:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47803**	**38.983**	**.17551**	F **-127.68**	F **1833.6**	F **-163490.**
Stddev	.04192	.210	.00479	24.61	11.1	2237.
%RSD	8.7696	.53813	2.7306	19.277	.60592	1.3681
#1	.45475	39.069	.18026	-129.81	1831.5	-162330.
#2	.52642	39.136	.17559	-102.07	1845.7	-166060.
#3	.45290	38.744	.17068	-151.16	1823.7	-162070.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01541**	**.03752**	F **97.334**	**.05458**	F **20.601**	**21.633**
Stddev	.00102	.00486	5.056	.00005	.163	.019
%RSD	6.6054	12.943	5.1943	.09873	.78917	.08629
#1	.01499	.03209	100.69	.05459	20.421	21.652
#2	.01657	.04144	99.787	.05463	20.646	21.631
#3	.01467	.03904	91.519	.05452	20.736	21.615
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit			90.000		4.5000	
Low Limit			-1.0000		-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.08106**	**2.2254**	**1.0140**	**1.1341**
Stddev	.00458	.0389	.0699	.0181
%RSD	5.6445	1.7465	6.8897	1.5949
#1	.08012	2.1893	.97942	1.1186
#2	.07702	2.2666	1.0944	1.1539
#3	.08603	2.2202	.96809	1.1296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: March 30, 2011

Sample Name: L1103041820 Acquired: 3/29/2011 17:50:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46007.**	**52301.**
Stddev	715.	253.
%RSD	1.5545	.48375
#1	46644.	52063.
#2	45233.	52272.
#3	46144.	52567.

Approved: March 30, 2011

Sample Name: L1103041821 Acquired: 3/29/2011 17:54:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02287**	**181.56**	**.13941**	**.55197**	**6.4625**	**.01242**	**203.62**
Stddev	.00022	1.66	.00261	.00094	.0906	.00001	.42
%RSD	.95332	.91545	1.8695	.17052	1.4015	.10460	.20868
#1	.02261	179.75	.13946	.55306	6.5670	.01243	204.01
#2	.02301	183.02	.14199	.55145	6.4144	.01242	203.68
#3	.02297	181.91	.13678	.55141	6.4061	.01241	203.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01777**	**.14035**	**.27472**	**.35647**	**310.16**	**9.4952**	**.09245**
Stddev	.00013	.00110	.00009	.00320	.97	.0192	.00039
%RSD	.71919	.78093	.03347	.89668	.31186	.20257	.41841
#1	.01785	.14076	.27482	.35925	311.16	9.4732	.09207
#2	.01784	.14118	.27464	.35718	309.24	9.5091	.09243
#3	.01762	.13911	.27470	.35298	310.07	9.5032	.09284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.600**	**6.4377**	**.02788**	**10.181**	**.20501**	**11.606**	**.58573**
Stddev	.116	.0243	.00040	.027	.00148	.062	.00350
%RSD	.33505	.37682	1.4490	.26695	.72273	.53321	.59758
#1	34.709	6.4654	.02772	10.198	.20538	11.671	.58841
#2	34.612	6.4201	.02834	10.195	.20627	11.598	.58701
#3	34.478	6.4275	.02757	10.150	.20338	11.548	.58177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041821 Acquired: 3/29/2011 17:54:54 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-100.87**	F **428.57**	F **-66523.**	**.00814**	**.02312**	**16.127**	**.02588**
Stddev	62.17	3.13	257.	.00025	.00275	.099	.00013
%RSD	61.638	.72954	.38623	3.0289	11.909	.61680	.51914
#1	-81.806	432.13	-66795.	.00841	.02142	16.232	.02603
#2	-170.34	427.32	-66491.	.00794	.02629	16.116	.02581
#3	-50.457	426.27	-66284.	.00807	.02164	16.034	.02579
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1705**	**1.8339**	**.01657**	**.60814**	**1.5158**	**.16429**
Stddev	.0232	.0035	.00060	.00066	.0025	.00032
%RSD	.73302	.18957	3.6431	.10929	.16287	.19458
#1	3.1946	1.8370	.01681	.60742	1.5181	.16459
#2	3.1483	1.8302	.01702	.60873	1.5160	.16433
#3	3.1685	1.8344	.01589	.60826	1.5132	.16396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46715.**	**48139.**
Stddev	97.	577.
%RSD	.20735	1.1976
#1	46604.	47502.
#2	46782.	48288.
#3	46758.	48626.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 17:58:50 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42933**	**10.450**	**.42503**	**.52775**	**1.0198**	**.05267**	**9.8762**
Stddev	.00098	.025	.00171	.00089	.0060	.00008	.0221
%RSD	.22806	.24256	.40166	.16910	.58658	.16031	.22325
#1	.42838	10.421	.42492	.52695	1.0261	.05259	9.8994
#2	.42929	10.466	.42338	.52871	1.0191	.05267	9.8738
#3	.43033	10.464	.42679	.52760	1.0142	.05276	9.8555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05341**	**.21439**	**.52960**	**.53895**	**3.9010**	**50.509**	**1.0239**
Stddev	.00018	.00090	.00055	.00135	.0177	.163	.0053
%RSD	.33497	.42115	.10362	.25119	.45433	.32335	.51785
#1	.05325	.21366	.52899	.53765	3.9210	50.653	1.0297
#2	.05338	.21412	.53004	.54036	3.8945	50.544	1.0224
#3	.05361	.21540	.52977	.53885	3.8874	50.332	1.0194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5537**	**.46720**	**1.0060**	**49.647**	**.52363**	F **-.00267**	**.52831**
Stddev	.0339	.00184	.0003	.088	.00066	.00339	.00077
%RSD	.35444	.39297	.02786	.17640	.12695	127.09	.14648
#1	9.5383	.46927	1.0057	49.723	.52286	-.00504	.52808
#2	9.5303	.46655	1.0063	49.666	.52398	.00122	.52768
#3	9.5925	.46577	1.0059	49.551	.52404	-.00418	.52917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 17:58:50 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **92.123**	**10.495**	F **24.684**	**1.3066**	**.41424**	F **.00570**	**1.0562**
Stddev	64.907	.023	13.129	.0036	.00297	.00036	.0050
%RSD	70.457	.21855	53.189	.27887	.71660	6.3533	.47821
#1	29.373	10.489	12.941	1.3068	.41473	.00607	1.0521
#2	158.99	10.475	22.252	1.3102	.41694	.00535	1.0619
#3	88.004	10.520	38.860	1.3029	.41106	.00567	1.0547
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98659**	**1.0017**	**.53836**	**1.0522**	**1.0129**	F **.00087**
Stddev	.00164	.0022	.00102	.0007	.0011	.00010
%RSD	.16617	.21536	.19029	.06596	.10952	11.610
#1	.98848	1.0023	.53743	1.0515	1.0138	.00082
#2	.98554	1.0035	.53820	1.0529	1.0133	.00081
#3	.98574	.99931	.53946	1.0523	1.0117	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48491.**	**44451.**
Stddev	56.	258.
%RSD	.11480	.58122
#1	48545.	44645.
#2	48495.	44550.
#3	48434.	44158.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 18:02:16 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.02011**	**.00117**	**.00350**	**.00002**	**-.00001**	**.01518**
Stddev	.00041	.00114	.00051	.00031	.00006	.00001	.00669
%RSD	521.35	5.6867	43.724	8.9929	319.18	67.089	44.055
#1	.00003	.02031	.00058	.00356	.00008	.00000	.02285
#2	-.00053	.02114	.00146	.00378	-.00001	-.00001	.01209
#3	.00027	.01888	.00148	.00316	-.00002	-.00001	.01060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00016**	**-.00049**	**-.00023**	**.00705**	**.15159**	**-.00652**
Stddev	.00003	.00009	.00013	.00010	.00400	.01111	.00047
%RSD	41.221	59.280	26.145	43.196	56.734	7.3319	7.1444
#1	-.00008	.00008	-.00058	-.00024	.00906	.15069	-.00636
#2	-.00004	.00026	-.00035	-.00033	.00244	.16312	-.00616
#3	-.00009	.00014	-.00056	-.00013	.00963	.14095	-.00705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00731**	**-.00016**	**.00015**	**.00115**	**.00065**	**-.00116**	**-.00091**
Stddev	.00413	.00033	.00020	.00291	.00046	.00299	.00088
%RSD	56.528	209.38	128.99	253.34	70.311	257.43	96.623
#1	-.00590	-.00053	.00023	-.00192	.00084	.00174	-.00035
#2	-.01196	.00010	.00030	.00387	.00099	-.00100	-.00192
#3	-.00407	-.00004	-.00007	.00149	.00013	-.00423	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 18:02:16 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **82.276**	F **.02586**	F **9.0879**	**-.00074**	**.00026**	**.00056**	**-.00037**
Stddev	56.240	.01163	8.6349	.00049	.00098	.00081	.00022
%RSD	68.356	44.976	95.015	65.852	376.56	144.97	58.356
#1	66.118	.02557	.88111	-.00069	.00091	.00110	-.00049
#2	144.83	.01438	8.2875	-.00125	-.00086	.00095	-.00012
#3	35.883	.03764	18.095	-.00028	.00073	-.00037	-.00050
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00170**	**-.00005**	**-.00015**	**.00253**	**.00015**
Stddev	.00005	.00057	.00068	.00015	.00033	.00002
%RSD	49.067	33.727	1427.3	106.17	12.856	10.844
#1	.00014	.00138	.00007	-.00013	.00247	.00017
#2	.00004	.00236	-.00078	-.00031	.00224	.00015
#3	.00011	.00135	.00056	.00000	.00288	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48678.**	**44620.**
Stddev	88.	164.
%RSD	.18108	.36678
#1	48587.	44571.
#2	48683.	44803.
#3	48763.	44487.

Approved: March 30, 2011

Sample Name: L1103041822 Acquired: 3/29/2011 18:06:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12248**	**670.11**	**.16503**	**2.7984**	**35.284**	^ *****
Stddev	.00626	4.26	.00411	.0185	1.624	-----
%RSD	5.1135	.63512	2.4894	.66214	4.6023	-----
#1	.11926	666.50	.16386	2.7827	34.334	^ -----
#2	.12970	669.04	.16163	2.8189	37.159	^ -----
#3	.11848	674.80	.16959	2.7937	34.359	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1093.6**	**.02503**	**.20723**	**.45955**	**1.2206**	**354.49**
Stddev	50.9	.00047	.00100	.00041	.0048	20.06
%RSD	4.6586	1.8800	.48198	.08967	.39363	5.6575
#1	1063.6	.02468	.20733	.45937	1.2151	341.53
#2	1152.4	.02556	.20619	.46002	1.2240	377.59
#3	1064.8	.02484	.20818	.45926	1.2228	344.36
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.633**	**.40740**	**132.71**	**3.4799**	**.05798**	**60.941**
Stddev	.971	.02088	7.80	.1920	.00034	3.107
%RSD	5.2110	5.1254	5.8807	5.5168	.58210	5.0990
#1	18.033	.39593	127.51	3.3505	.05782	59.088
#2	19.753	.43150	141.68	3.7005	.05836	64.529
#3	18.113	.39477	128.93	3.3888	.05774	59.207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103041822 Acquired: 3/29/2011 18:06:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45775**	**36.568**	**.39731**	F **-109.19**	F **1541.6**	F **-149820.**
Stddev	.00057	.073	.00294	35.85	8.2	205.
%RSD	.12413	.20074	.73974	32.831	.53031	.13683
#1	.45780	36.515	.39668	-94.630	1532.2	-149770.
#2	.45716	36.652	.40051	-150.02	1545.3	-150040.
#3	.45830	36.537	.39473	-82.906	1547.3	-149640.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01804**	**.04987**	**63.650**	**.05318**	F **18.418**	**17.303**
Stddev	.00076	.00131	2.281	.00164	.445	.930
%RSD	4.2208	2.6222	3.5829	3.0804	2.4162	5.3725
#1	.01881	.04877	65.206	.05188	18.197	16.750
#2	.01802	.04953	64.712	.05502	18.930	18.376
#3	.01728	.05131	61.032	.05263	18.126	16.782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					4.5000	
Low Limit					-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.06700**	**1.9058**	**1.8495**	**.89926**
Stddev	.00409	.0075	.0070	.00371
%RSD	6.1027	.39252	.38123	.41310
#1	.06228	1.9008	1.8432	.89504
#2	.06922	1.9144	1.8571	.90066
#3	.06950	1.9021	1.8482	.90206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: March 30, 2011

Sample Name: L1103041822 Acquired: 3/29/2011 18:06:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45719.**	**49665.**
Stddev	7.	2314.
%RSD	.01463	4.6584
#1	45726.	51055.
#2	45717.	46995.
#3	45714.	50947.

Approved: March 30, 2011

Sample Name: L1103041823 Acquired: 3/29/2011 18:09:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01799**	**283.75**	**.14287**	**.55289**	**10.100**	**.01714**	**269.10**
Stddev	.00121	1.11	.00085	.00047	.094	.00010	1.80
%RSD	6.7101	.39239	.59413	.08449	.93556	.55806	.66885
#1	.01711	282.48	.14271	.55236	9.9920	.01707	267.63
#2	.01749	284.56	.14211	.55323	10.140	.01725	268.55
#3	.01936	284.21	.14379	.55308	10.168	.01710	271.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01692**	**.21207**	**.31325**	**.44605**	**369.74**	**11.057**	**.16096**
Stddev	.00004	.00129	.00120	.00336	2.32	.085	.00088
%RSD	.23302	.60930	.38166	.75230	.62875	.76588	.54895
#1	.01688	.21225	.31240	.44616	368.27	11.014	.15995
#2	.01695	.21326	.31462	.44934	368.53	11.003	.16158
#3	.01694	.21070	.31274	.44264	372.42	11.155	.16135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**47.857**	**8.5760**	**.02512**	**14.700**	**.28334**	**11.710**	**.53625**
Stddev	.208	.0876	.00037	.078	.00078	.059	.00255
%RSD	.43367	1.0212	1.4850	.53161	.27437	.50618	.47466
#1	47.714	8.5121	.02538	14.635	.28246	11.728	.53332
#2	47.763	8.5401	.02529	14.678	.28360	11.758	.53789
#3	48.095	8.6759	.02469	14.786	.28395	11.644	.53754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041823 Acquired: 3/29/2011 18:09:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.166**	F **498.23**	F **-69300.**	**.00860**	**.02038**	**14.843**	**.01860**
Stddev	30.426	1.78	212.	.00071	.00685	.090	.00063
%RSD	55.153	.35686	.30546	8.2508	33.593	.60439	3.3726
#1	-20.632	498.21	-69285.	.00899	.02828	14.850	.01835
#2	-66.841	500.03	-69519.	.00903	.01609	14.929	.01932
#3	-78.026	496.47	-69096.	.00778	.01677	14.750	.01814
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.5929**	**1.7808**	**.01792**	**.73566**	**1.5308**	**.24905**
Stddev	.0929	.0046	.00243	.00351	.0042	.00054
%RSD	2.0223	.25625	13.581	.47680	.27322	.21616
#1	4.5163	1.7768	.01598	.73370	1.5330	.24924
#2	4.5661	1.7798	.01714	.73971	1.5335	.24946
#3	4.6962	1.7857	.02065	.73357	1.5260	.24844
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46016.**	**48337.**
Stddev	133.	274.
%RSD	.28991	.56666
#1	46051.	48426.
#2	45869.	48555.
#3	46129.	48030.

Approved: March 30, 2011

Sample Name: L1103041824 Acquired: 3/29/2011 18:13:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02371**	**350.06**	**.12035**	**.74272**	**15.803**	**.01737**	**470.81**
Stddev	.00051	1.98	.00301	.00133	.109	.00007	3.95
%RSD	2.1414	.56504	2.4988	.17843	.68722	.39909	.83805
#1	.02384	352.28	.12278	.74210	15.698	.01742	466.35
#2	.02414	348.49	.12127	.74424	15.915	.01741	472.26
#3	.02315	349.40	.11699	.74181	15.796	.01729	473.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01608**	**.12602**	**.23607**	**.55142**	**275.38**	**12.341**	**.20910**
Stddev	.00011	.00064	.00070	.00338	1.35	.065	.00006
%RSD	.70826	.50883	.29475	.61250	.49191	.52278	.02722
#1	.01615	.12665	.23644	.55296	274.51	12.279	.20909
#2	.01614	.12605	.23650	.55375	274.70	12.337	.20917
#3	.01595	.12536	.23527	.54754	276.95	12.408	.20906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**58.798**	**3.4673**	**.02879**	**30.673**	**.27815**	**15.077**	**.74741**
Stddev	.355	.0177	.00069	.198	.00149	.084	.00273
%RSD	.60392	.50955	2.3956	.64579	.53717	.56004	.36504
#1	58.388	3.4554	.02922	30.446	.27979	15.128	.74669
#2	59.000	3.4588	.02915	30.808	.27779	15.124	.75043
#3	59.006	3.4876	.02799	30.766	.27686	14.980	.74512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041824 Acquired: 3/29/2011 18:13:46 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-61.337**	F **736.24**	F **-83657.**	**.00753**	**.01164**	**18.551**	**.01627**
Stddev	17.585	3.48	232.	.00065	.00090	.053	.00037
%RSD	28.670	.47290	.27786	8.6448	7.7582	.28494	2.2514
#1	-78.782	738.12	-83845.	.00806	.01060	18.598	.01594
#2	-43.615	738.38	-83728.	.00680	.01223	18.559	.01620
#3	-61.613	732.23	-83397.	.00774	.01210	18.494	.01667
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.0944**	**2.6472**	**.02541**	**.97369**	**1.4513**	**.37152**
Stddev	.0778	.0089	.00207	.00378	.0103	.00047
%RSD	.96067	.33516	8.1543	.38835	.71047	.12625
#1	8.0272	2.6370	.02426	.97458	1.4557	.37098
#2	8.0764	2.6521	.02418	.97695	1.4586	.37175
#3	8.1796	2.6526	.02781	.96954	1.4395	.37183
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46014.**	**48504.**
Stddev	57.	125.
%RSD	.12347	.25760
#1	45953.	48645.
#2	46025.	48461.
#3	46065.	48407.

Approved: March 30, 2011

Sample Name: L1103041825 Acquired: 3/29/2011 18:17:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00966**	**218.27**	**.13757**	**.28251**	**6.1317**	**.01743**	**163.28**
Stddev	.00111	1.12	.00192	.00226	.1032	.00007	1.01
%RSD	11.479	.51106	1.3934	.80147	1.6829	.42122	.61924
#1	.00934	219.24	.13975	.28091	6.0661	.01736	162.83
#2	.00875	217.05	.13679	.28510	6.2506	.01742	164.44
#3	.01090	218.51	.13616	.28152	6.0783	.01751	162.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00912**	**.21205**	**.30021**	**.26041**	**379.12**	**6.7043**	**.11149**
Stddev	.00007	.00087	.00131	.00268	1.61	.0280	.00098
%RSD	.81276	.41129	.43472	1.0303	.42372	.41762	.88210
#1	.00904	.21175	.30028	.26142	377.85	6.6886	.11070
#2	.00917	.21303	.29887	.26245	380.93	6.7366	.11259
#3	.00916	.21137	.30148	.25737	378.59	6.6876	.11117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.989**	**8.3398**	**.01662**	**9.5976**	**.23041**	**6.1727**	**.42912**
Stddev	.211	.0556	.00009	.0478	.00129	.0139	.00636
%RSD	.63910	.66690	.56462	.49829	.56161	.22475	1.4822
#1	32.783	8.2998	.01669	9.5685	.23054	6.1771	.43114
#2	32.980	8.4033	.01667	9.6528	.23163	6.1839	.43421
#3	33.204	8.3164	.01652	9.5715	.22905	6.1572	.42199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041825 Acquired: 3/29/2011 18:17:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.5492**	F **264.92**	F **-30939.**	**.00616**	**.01317**	**7.8074**	**.01051**
Stddev	14.353	.75	213.	.00192	.00126	.0189	.00014
%RSD	150.30	.28319	.68856	31.116	9.5305	.24201	1.3658
#1	1.1224	264.68	-31072.	.00445	.01353	7.8056	.01035
#2	26.122	265.76	-31052.	.00824	.01178	7.8272	.01061
#3	1.4037	264.32	-30693.	.00580	.01422	7.7895	.01057
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.6765**	**.66125**	**.01324**	**.63114**	**.71964**	**.21039**
Stddev	.0283	.00187	.00201	.00017	.00076	.00049
%RSD	1.0556	.28277	15.201	.02703	.10616	.23446
#1	2.6557	.65933	.01259	.63102	.71884	.20992
#2	2.7086	.66307	.01164	.63106	.71973	.21090
#3	2.6651	.66134	.01550	.63134	.72036	.21033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46617.**	**47134.**
Stddev	114.	222.
%RSD	.24366	.47184
#1	46561.	47389.
#2	46542.	47028.
#3	46748.	46984.

Approved: March 30, 2011

Sample Name: L1103041829 Acquired: 3/29/2011 18:21:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00353**	**77.761**	**.08880**	**.07938**	**1.2157**	**.00769**	F **2271.7**
Stddev	.00010	.057	.00162	.00059	.0037	.00006	27.5
%RSD	2.9249	.07388	1.8290	.73800	.30628	.76531	1.2084
#1	.00345	77.699	.08780	.07906	1.2175	.00768	2280.2
#2	.00350	77.813	.09068	.07902	1.2183	.00763	2293.9
#3	.00365	77.772	.08794	.08005	1.2114	.00775	2241.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01453**	**.08261**	**.13350**	**.12848**	**151.90**	**5.5539**	**.15751**
Stddev	.00006	.00061	.00027	.00133	.42	.0388	.00058
%RSD	.39582	.73863	.20591	1.0347	.27905	.69882	.36685
#1	.01447	.08237	.13322	.12801	152.38	5.5301	.15718
#2	.01457	.08331	.13352	.12998	151.76	5.5986	.15718
#3	.01455	.08217	.13377	.12744	151.57	5.5329	.15818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.822**	**4.5373**	**.01577**	**4.7401**	**.13326**	**3.4677**	**.55308**
Stddev	.164	.0157	.00008	.0172	.00109	.0263	.00370
%RSD	.33608	.34485	.50929	.36223	.81589	.75815	.66904
#1	49.003	4.5505	.01576	4.7523	.13302	3.4770	.55497
#2	48.685	4.5414	.01586	4.7474	.13445	3.4881	.55546
#3	48.776	4.5200	.01570	4.7204	.13232	3.4380	.54882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041829 Acquired: 3/29/2011 18:21:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.2674**	F **2471.8**	F **-37901.**	**.01015**	**.01096**	**2.9667**	**.00603**
Stddev	33.903	2.4	185.	.00091	.00266	.0107	.00052
%RSD	643.63	.09826	.48691	9.0039	24.265	.36072	8.6292
#1	7.8516	2472.0	-37985.	.00926	.00872	2.9783	.00663
#2	-29.853	2469.3	-38029.	.01010	.01026	2.9644	.00574
#3	37.804	2474.1	-37690.	.01109	.01390	2.9573	.00572
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.2635**	**.18453**	**.00349**	**.23414**	**1.1964**	**.07063**
Stddev	.1115	.00105	.00107	.00070	.0006	.00005
%RSD	1.2036	.56653	30.619	.30092	.05045	.07429
#1	9.1670	.18420	.00226	.23387	1.1958	.07060
#2	9.2378	.18570	.00411	.23361	1.1963	.07069
#3	9.3855	.18368	.00411	.23494	1.1970	.07060
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**42235.**	**45453.**
Stddev	71.	335.
%RSD	.16888	.73708
#1	42241.	45068.
#2	42302.	45612.
#3	42160.	45679.

Approved: March 30, 2011

Sample Name: L1103041830S Acquired: 3/29/2011 18:25:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23706**	**71.811**	**.30533**	**.08954**	**1.1970**	**.00810**	F **2285.8**
Stddev	.00028	.231	.00193	.00049	.0072	.00001	14.2
%RSD	.11871	.32160	.63248	.54930	.59884	.13627	.61922
#1	.23681	72.076	.30522	.08946	1.1894	.00810	2293.7
#2	.23737	71.700	.30345	.08910	1.1979	.00808	2294.3
#3	.23702	71.656	.30731	.09007	1.2037	.00810	2269.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04266**	**.09397**	**.15069**	**.36414**	**176.86**	**5.1849**	**.15434**
Stddev	.00047	.00026	.00063	.00174	.81	.0482	.00155
%RSD	1.0910	.27348	.41799	.47900	.46009	.93035	1.0034
#1	.04299	.09379	.15117	.36595	176.11	5.1327	.15256
#2	.04287	.09427	.14998	.36400	176.76	5.1940	.15540
#3	.04213	.09387	.15093	.36247	177.72	5.2279	.15505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**53.753**	**5.7143**	**.01609**	**4.6462**	**.13025**	**3.3160**	**.77332**
Stddev	.173	.0529	.00030	.0100	.00089	.0130	.00622
%RSD	.32225	.92580	1.8864	.21499	.67957	.39060	.80471
#1	53.649	5.6601	.01611	4.6430	.13114	3.3071	.77086
#2	53.658	5.7171	.01638	4.6381	.13025	3.3101	.76870
#3	53.953	5.7658	.01577	4.6573	.12937	3.3308	.78040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041830S Acquired: 3/29/2011 18:25:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3980**	F **2482.8**	F **-29845.**	**.01146**	**.01321**	**3.2525**	**.00650**
Stddev	43.096	3.9	115.	.00152	.00180	.0192	.00014
%RSD	3082.8	.15680	.38617	13.260	13.636	.59029	2.2280
#1	51.137	2487.2	-29777.	.01150	.01442	3.2648	.00653
#2	-22.121	2479.6	-29780.	.00993	.01114	3.2624	.00663
#3	-24.822	2481.7	-29978.	.01297	.01408	3.2304	.00635
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.1627**	**.20349**	**.00379**	**.28322**	**1.1815**	**.06812**
Stddev	.1080	.00045	.00159	.00026	.0004	.00007
%RSD	1.1782	.22018	42.057	.09096	.03449	.09584
#1	9.1017	.20385	.00462	.28297	1.1813	.06817
#2	9.0991	.20299	.00195	.28349	1.1813	.06805
#3	9.2873	.20364	.00479	.28320	1.1820	.06815
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**41928.**	**45097.**
Stddev	85.	155.
%RSD	.20244	.34351
#1	41832.	44977.
#2	41958.	45272.
#3	41994.	45042.

Approved: March 30, 2011

Sample Name: L1103041831SD Acquired: 3/29/2011 18:29:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22501**	**67.416**	**.29254**	**.08221**	**1.1583**	**.00806**	F **1926.4**
Stddev	.00173	.191	.00011	.00045	.0012	.00002	42.2
%RSD	.76703	.28322	.03925	.54842	.10708	.24760	2.1929
#1	.22684	67.373	.29241	.08169	1.1575	.00808	1883.4
#2	.22479	67.625	.29262	.08246	1.1597	.00804	1927.9
#3	.22340	67.250	.29258	.08247	1.1577	.00806	1967.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04069**	**.07915**	**.15069**	**.36689**	**159.87**	**4.5655**	**.12637**
Stddev	.00007	.00022	.00055	.00058	.10	.0298	.00045
%RSD	.17306	.27628	.36607	.15823	.06400	.65174	.35972
#1	.04076	.07896	.15056	.36624	159.82	4.5333	.12584
#2	.04069	.07910	.15130	.36736	159.80	4.5712	.12663
#3	.04062	.07939	.15022	.36708	159.99	4.5920	.12663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**43.413**	**4.0996**	**.01390**	**4.6959**	**.12051**	**2.9542**	**.76739**
Stddev	.087	.0147	.00031	.0280	.00037	.0139	.00244
%RSD	.20137	.35985	2.2127	.59697	.30589	.46938	.31770
#1	43.404	4.0839	.01424	4.6647	.12023	2.9614	.76930
#2	43.331	4.1132	.01364	4.7040	.12093	2.9630	.76821
#3	43.505	4.1016	.01382	4.7190	.12039	2.9382	.76464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103041831SD Acquired: 3/29/2011 18:29:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359300-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-40.460**	F **2053.6**	F **-28336.**	**.01114**	**.01114**	**2.8993**	**.00638**
Stddev	54.509	3.6	205.	.00050	.00150	.0288	.00013
%RSD	134.72	.17669	.72354	4.5259	13.419	.99284	1.9723
#1	-24.949	2050.6	-28438.	.01066	.01031	2.8870	.00624
#2	-101.04	2052.6	-28469.	.01167	.01025	2.9322	.00643
#3	4.611	2057.6	-28099.	.01110	.01287	2.8787	.00647
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **7.7218**	**.20433**	**.00427**	**.25796**	**1.1878**	**.06049**
Stddev	.1396	.00067	.00099	.00040	.0057	.00013
%RSD	1.8077	.32585	23.199	.15386	.48102	.20921
#1	7.7369	.20357	.00525	.25802	1.1842	.06035
#2	7.8532	.20465	.00327	.25832	1.1848	.06058
#3	7.5753	.20478	.00430	.25753	1.1944	.06055
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**42760.**	**45091.**
Stddev	81.	122.
%RSD	.18983	.27084
#1	42756.	44951.
#2	42681.	45146.
#3	42843.	45175.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 18:32:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43658**	**10.380**	**.43134**	**.52839**	**.99886**	**.05326**	**9.9726**
Stddev	.00212	.038	.00125	.00185	.00173	.00017	.0802
%RSD	.48526	.36471	.29055	.35090	.17315	.32509	.80443
#1	.43623	10.371	.43279	.52880	.99932	.05329	10.065
#2	.43465	10.347	.43063	.52637	.99695	.05307	9.9285
#3	.43885	10.421	.43061	.53001	1.0003	.05341	9.9241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05391**	**.21785**	**.53018**	**.54804**	**3.8204**	**49.907**	**1.0094**
Stddev	.00006	.00031	.00169	.00054	.0127	.026	.0015
%RSD	.10451	.14075	.31960	.09785	.33325	.05310	.14939
#1	.05397	.21750	.53057	.54865	3.8304	49.926	1.0110
#2	.05385	.21806	.52833	.54766	3.8060	49.877	1.0081
#3	.05392	.21798	.53166	.54781	3.8247	49.918	1.0090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.4575**	**.45684**	**1.0044**	**49.168**	**.52831**	F **-.00062**	**.53244**
Stddev	.0440	.00248	.0009	.125	.00024	.00019	.00237
%RSD	.46552	.54180	.09382	.25385	.04544	31.117	.44473
#1	9.5048	.45827	1.0037	49.214	.52819	-.00047	.53470
#2	9.4177	.45398	1.0054	49.027	.52815	-.00055	.52998
#3	9.4500	.45826	1.0039	49.264	.52858	-.00084	.53266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 18:32:47 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **112.23**	**10.838**	F **36.791**	**1.3172**	**.41056**	F **.00527**	**1.0683**
Stddev	41.65	.057	4.698	.0070	.00226	.00109	.0074
%RSD	37.110	.52693	12.771	.53543	.55128	20.734	.69540
#1	160.18	10.904	40.512	1.3148	.41008	.00406	1.0643
#2	91.432	10.805	31.511	1.3117	.40857	.00618	1.0636
#3	85.071	10.806	38.349	1.3252	.41302	.00556	1.0768
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96979**	**.98555**	**.54747**	**1.0591**	**1.0263**	F **.00072**
Stddev	.00302	.00287	.00460	.0049	.0014	.00005
%RSD	.31165	.29120	.84057	.45854	.13528	6.5334
#1	.97200	.98861	.54809	1.0586	1.0254	.00068
#2	.96635	.98292	.54259	1.0545	1.0256	.00072
#3	.97103	.98512	.55173	1.0642	1.0279	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48417.**	**44749.**
Stddev	116.	289.
%RSD	.23947	.64632
#1	48518.	44452.
#2	48443.	45030.
#3	48290.	44764.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 18:36:12 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.01617**	**.00079**	**.00146**	**-.00037**	**.00001**	**.03523**
Stddev	.00045	.00203	.00065	.00021	.00010	.00001	.02066
%RSD	256.77	12.574	81.784	14.236	25.651	196.47	58.644
#1	-.00062	.01506	.00077	.00136	-.00045	.00001	.01393
#2	-.00019	.01851	.00015	.00169	-.00027	.00001	.03657
#3	.00028	.01493	.00145	.00131	-.00041	-.00001	.05519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00004**	**-.00041**	**-.00029**	**.00028**	**.13261**	**-.00607**
Stddev	.00006	.00004	.00025	.00002	.00286	.01716	.00016
%RSD	32.759	106.60	60.326	8.6835	1005.2	12.936	2.6256
#1	-.00021	.00006	-.00037	-.00027	-.00208	.15030	-.00624
#2	-.00011	.00006	-.00018	-.00032	-.00053	.13149	-.00593
#3	-.00022	-.00001	-.00067	-.00027	.00347	.11604	-.00604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02160**	**-.00019**	**.00005**	**-.00583**	**.00090**	**-.00060**	**.00105**
Stddev	.01036	.00014	.00007	.00306	.00016	.00261	.00054
%RSD	47.977	74.080	146.10	52.500	18.075	437.05	51.256
#1	-.03303	-.00015	-.00003	-.00239	.00078	-.00156	.00153
#2	-.01281	-.00035	.00007	-.00826	.00109	.00236	.00113
#3	-.01897	-.00007	.00011	-.00685	.00083	-.00259	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 18:36:12 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **139.31**	**.00205**	F **24.821**	**-.00178**	**-.00002**	**.00003**	**-.00033**
Stddev	89.66	.02213	10.264	.00192	.00082	.00063	.00032
%RSD	64.357	1079.8	41.352	107.58	4537.2	2386.1	98.454
#1	207.47	-.01586	13.361	-.00063	.00051	-.00013	-.00063
#2	172.72	.02679	33.169	-.00073	-.00096	.00072	-.00037
#3	37.747	-.00478	27.931	-.00400	.00040	-.00051	.00001
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000		.01000				
Low Limit	-.01000		-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00018**	**-.00019**	**.00006**	**.00351**	**.00009**
Stddev	.00010	.00043	.00033	.00010	.00002	.00005
%RSD	17243.	243.50	174.40	158.32	.67227	55.211
#1	-.00010	.00062	.00010	-.00005	.00349	.00004
#2	.00001	-.00024	-.00013	.00012	.00352	.00014
#3	.00009	.00015	-.00055	.00012	.00354	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49110.**	**44753.**
Stddev	111.	160.
%RSD	.22624	.35845
#1	49025.	44568.
#2	49070.	44860.
#3	49236.	44830.

Approved: March 30, 2011

Sample Name: PBS 11 Acquired: 3/29/2011 18:39:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.02556**	**-.00343**	**.00166**	**.00093**	**-.00002**	**.11475**
Stddev	.00115	.00228	.00071	.00036	.00002	.00002	.00264
%RSD	824.43	8.9286	20.704	21.803	2.6808	88.068	2.2979
#1	-.00119	.02790	-.00281	.00199	.00095	-.00004	.11691
#2	.00076	.02545	-.00421	.00173	.00091	.00000	.11555
#3	.00084	.02334	-.00328	.00127	.00092	-.00002	.11181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00053**	**.00026**	**.00012**	**.01816**	**.48674**	**-.00583**
Stddev	.00010	.00021	.00011	.00002	.00178	.01827	.00040
%RSD	44.697	40.125	41.869	17.553	9.7982	3.7527	6.8126
#1	.00032	-.00037	.00014	.00014	.01993	.50679	-.00611
#2	.00019	-.00045	.00035	.00010	.01638	.47105	-.00600
#3	.00013	-.00077	.00027	.00011	.01817	.48237	-.00537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03522**	**-.00008**	**.00019**	**.04075**	**.00196**	F **-.01779**	**.00065**
Stddev	.00723	.00023	.00005	.00570	.00034	.00375	.00040
%RSD	20.530	289.79	26.643	13.995	17.097	21.064	62.544
#1	.02771	.00008	.00015	.04049	.00199	-.01373	.00101
#2	.04214	.00003	.00024	.04659	.00161	-.01852	.00021
#3	.03582	-.00035	.00017	.03519	.00228	-.02112	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: PBS 11 Acquired: 3/29/2011 18:39:52 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **26.067**	**5.5533**	F **-1563.9**	**.00012**	**.00388**	**.01886**	**.00019**
Stddev	34.129	.1104	16.3	.00109	.00102	.00098	.00003
%RSD	130.93	1.9881	1.0421	879.28	26.264	5.1947	16.539
#1	5.5683	5.4877	-1582.5	-.00109	.00370	.01777	.00017
#2	7.1678	5.6807	-1556.8	.00043	.00498	.01914	.00023
#3	65.466	5.4914	-1552.3	.00103	.00296	.01967	.00018
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00122**	**-.00200**	**-.00025**	**.00562**	**.00012**
Stddev	.00003	.00057	.00123	.00004	.00029	.00009
%RSD	7.1788	47.218	61.344	15.411	5.1867	70.660
#1	.00038	.00185	-.00163	-.00028	.00536	.00022
#2	.00042	.00105	-.00100	-.00026	.00556	.00010
#3	.00044	.00074	-.00338	-.00021	.00594	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47028.**	**44683.**
Stddev	183.	365.
%RSD	.38936	.81635
#1	46878.	45096.
#2	46974.	44547.
#3	47232.	44406.

Approved: March 30, 2011

Sample Name: LCSS 11 Acquired: 3/29/2011 18:43:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20649**	**.02055**	**.20606**	**.00161**	**.00369**	**-.00002**	**.06038**
Stddev	.00027	.00112	.00150	.00068	.00019	.00002	.00589
%RSD	.13189	5.4713	.72699	42.471	5.0713	63.777	9.7570
#1	.20679	.02165	.20464	.00098	.00349	-.00003	.06602
#2	.20644	.01941	.20762	.00233	.00373	-.00003	.05427
#3	.20625	.02058	.20591	.00151	.00385	-.00001	.06084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02689**	**-.00048**	**.00130**	**.27310**	**.02762**	**.14736**	**-.00674**
Stddev	.00012	.00004	.00023	.00036	.00139	.02271	.00112
%RSD	.45839	8.4647	17.687	.13196	5.0443	15.408	16.600
#1	.02696	-.00052	.00142	.27304	.02811	.14136	-.00758
#2	.02697	-.00049	.00146	.27348	.02869	.12826	-.00547
#3	.02675	-.00044	.00104	.27277	.02604	.17246	-.00717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.23631**	**.00031**	**.03097**	**.00226**	F **-.01766**	**.26600**
Stddev	.00599	.00078	.00008	.00422	.00069	.00169	.00105
%RSD	789.50	.32969	27.426	13.615	30.538	9.5597	.39525
#1	-.00351	.23545	.00039	.02809	.00303	-.01793	.26486
#2	.00611	.23650	.00031	.03581	.00205	-.01920	.26693
#3	-.00488	.23698	.00022	.02900	.00170	-.01586	.26620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: LCSS 11 Acquired: 3/29/2011 18:43:33 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **34.855**	**.37811**	F **-66.735**	**.00087**	**.00386**	**.02141**	**.00070**
Stddev	49.733	.00088	3.487	.00111	.00102	.00083	.00017
%RSD	142.69	.23357	5.2245	128.02	26.346	3.8811	23.644
#1	66.937	.37900	-62.966	-.00035	.00500	.02184	.00064
#2	-22.435	.37723	-69.846	.00113	.00307	.02045	.00089
#3	60.063	.37809	-67.392	.00183	.00351	.02194	.00057
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00134**	**-.00248**	**-.00006**	**.00673**	**.00015**
Stddev	.00002	.00028	.00063	.00004	.00189	.00000
%RSD	35.472	20.722	25.432	78.867	28.084	2.1345
#1	.00009	.00105	-.00175	-.00001	.00890	.00015
#2	.00007	.00137	-.00289	-.00008	.00581	.00014
#3	.00004	.00160	-.00279	-.00008	.00548	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47402.**	**44507.**
Stddev	103.	335.
%RSD	.21644	.75355
#1	47327.	44784.
#2	47360.	44134.
#3	47519.	44603.

Approved: March 30, 2011

Sample Name: L1103068545 Acquired: 3/29/2011 18:47:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00607**	**303.66**	**.12904**	**.30632**	**2.2437**	**.02156**	**32.834**
Stddev	.00035	1.55	.00174	.00578	.0040	.00007	.041
%RSD	5.6841	.51022	1.3466	1.8870	.17689	.31315	.12565
#1	.00613	305.32	.13103	.31296	2.2399	.02151	32.844
#2	.00570	303.41	.12784	.30354	2.2478	.02154	32.788
#3	.00638	302.25	.12824	.30244	2.2432	.02164	32.869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00720**	**.23537**	**.46277**	**.18406**	**592.82**	**18.352**	**.23513**
Stddev	.00015	.00061	.00265	.00107	10.90	.045	.00050
%RSD	2.0941	.25991	.57360	.58220	1.8378	.24671	.21258
#1	.00734	.23517	.46217	.18356	605.29	18.304	.23509
#2	.00722	.23489	.46046	.18333	588.02	18.357	.23465
#3	.00704	.23606	.46567	.18529	585.14	18.394	.23565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.992**	**10.595**	**.01267**	**1.8193**	**.24376**	**3.9993**	**.41234**
Stddev	.075	.018	.00018	.0113	.00011	.0093	.00217
%RSD	.24847	.17018	1.4223	.62340	.04589	.23215	.52668
#1	30.051	10.616	.01248	1.8208	.24388	3.9928	.41129
#2	30.017	10.581	.01284	1.8073	.24368	3.9952	.41089
#3	29.909	10.590	.01269	1.8298	.24370	4.0099	.41484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068545 Acquired: 3/29/2011 18:47:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-113.61**	F **105.40**	F **-21056.**	**.00160**	**.01285**	**2.5227**	**.01643**
Stddev	32.61	.22	31.	.00334	.00149	.0043	.00015
%RSD	28.705	.21159	.14618	208.69	11.556	.16885	.91657
#1	-132.71	105.47	-21043.	-.00225	.01410	2.5273	.01656
#2	-75.957	105.15	-21035.	.00369	.01324	2.5190	.01627
#3	-132.17	105.58	-21092.	.00336	.01121	2.5217	.01646
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30867**	**.46288**	**.01729**	**.73436**	**.78012**	**.19719**
Stddev	.00038	.00038	.00166	.00175	.00179	.00005
%RSD	.12169	.08123	9.5769	.23860	.22911	.02704
#1	.30885	.46266	.01669	.73423	.77923	.19712
#2	.30824	.46332	.01602	.73268	.77896	.19722
#3	.30892	.46267	.01917	.73618	.78218	.19721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47366.**	**47445.**
Stddev	63.	369.
%RSD	.13295	.77777
#1	47320.	47059.
#2	47438.	47481.
#3	47340.	47795.

Approved: March 30, 2011

Sample Name: L1103068546 Acquired: 3/29/2011 18:50:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00411**	**217.59**	**.11149**	**.16782**	**2.0475**	**.01434**	**35.150**
Stddev	.00091	1.49	.00184	.00044	.0050	.00007	.161
%RSD	22.129	.68339	1.6542	.25992	.24513	.48458	.45803
#1	.00444	216.07	.11359	.16797	2.0485	.01426	35.192
#2	.00309	219.04	.11075	.16816	2.0421	.01440	34.972
#3	.00482	217.67	.11013	.16733	2.0520	.01435	35.286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00890**	**.14925**	**.33418**	**.17008**	**303.83**	**14.711**	**.15254**
Stddev	.00004	.00052	.00076	.00100	.91	.081	.00075
%RSD	.43057	.35080	.22697	.58666	.30078	.55067	.49482
#1	.00891	.14936	.33386	.17101	304.76	14.766	.15259
#2	.00885	.14970	.33505	.17021	302.93	14.618	.15177
#3	.00893	.14867	.33363	.16902	303.81	14.748	.15327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.672**	**7.6755**	**.01223**	**2.3458**	**.15698**	**5.3412**	**.41028**
Stddev	.076	.0420	.00031	.0100	.00101	.0222	.00039
%RSD	.34918	.54708	2.5206	.42665	.64056	.41559	.09446
#1	21.753	7.6934	.01239	2.3524	.15683	5.3668	.41042
#2	21.602	7.6275	.01187	2.3343	.15805	5.3276	.41058
#3	21.662	7.7055	.01242	2.3507	.15605	5.3292	.40984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068546 Acquired: 3/29/2011 18:50:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-98.744**	F **181.43**	F **-42072.**	**.00641**	**.01299**	**2.2980**	**.01508**
Stddev	42.777	.18	227.	.00103	.00034	.0156	.00023
%RSD	43.321	.10139	.53907	16.083	2.6514	.67731	1.4987
#1	-55.240	181.26	-42333.	.00676	.01336	2.3026	.01486
#2	-140.76	181.41	-41949.	.00524	.01268	2.3107	.01531
#3	-100.24	181.63	-41933.	.00721	.01293	2.2807	.01505
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29267**	**.47700**	**.01209**	**.58034**	**.97022**	**.15292**
Stddev	.00133	.00117	.00225	.00072	.00098	.00021
%RSD	.45294	.24593	18.616	.12443	.10100	.13863
#1	.29263	.47773	.00989	.58059	.96916	.15268
#2	.29137	.47564	.01200	.58090	.97110	.15301
#3	.29402	.47761	.01438	.57953	.97039	.15307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46924.**	**45972.**
Stddev	55.	402.
%RSD	.11720	.87513
#1	46874.	45511.
#2	46915.	46254.
#3	46983.	46152.

Approved: March 30, 2011

Sample Name: L1103068547 Acquired: 3/29/2011 18:54:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00707**	**263.67**	**.15075**	**.21639**	**2.9392**	**.02010**	**29.539**
Stddev	.00050	3.19	.00205	.00184	.0096	.00003	.008
%RSD	7.0160	1.2108	1.3566	.85171	.32813	.13361	.02737
#1	.00703	260.26	.14863	.21429	2.9295	.02011	29.546
#2	.00758	266.59	.15092	.21771	2.9488	.02012	29.540
#3	.00660	264.17	.15271	.21718	2.9393	.02007	29.530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00995**	**.33187**	**.40690**	**.17341**	**412.01**	**13.594**	**.16577**
Stddev	.00006	.00113	.00073	.00109	4.54	.016	.00168
%RSD	.61191	.33996	.17928	.63078	1.1014	.11768	1.0122
#1	.00992	.33092	.40756	.17222	407.11	13.579	.16770
#2	.00990	.33312	.40612	.17437	416.07	13.611	.16462
#3	.01001	.33157	.40703	.17365	412.85	13.594	.16501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.518**	**18.077**	**.01685**	**5.7587**	**.18478**	**3.3547**	**.58283**
Stddev	.117	.060	.00012	.0086	.00078	.0068	.00125
%RSD	.51783	.33189	.71006	.14907	.41949	.20209	.21388
#1	22.466	18.016	.01676	5.7639	.18566	3.3508	.58406
#2	22.651	18.136	.01698	5.7488	.18421	3.3625	.58157
#3	22.435	18.079	.01680	5.7634	.18446	3.3508	.58286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068547 Acquired: 3/29/2011 18:54:24 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-52.799**	F **132.85**	F **-29579.**	**.00405**	**.01716**	**2.7009**	**.01514**
Stddev	55.437	.78	21.	.00009	.00033	.0077	.00035
%RSD	105.00	.58611	.07039	2.1984	1.9080	.28620	2.3321
#1	-95.324	132.06	-29583.	.00415	.01753	2.6943	.01515
#2	9.8999	133.62	-29598.	.00401	.01692	2.7094	.01478
#3	-72.972	132.85	-29557.	.00398	.01704	2.6990	.01549
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28062**	**.39719**	**.01433**	**.76187**	**.97037**	**.20509**
Stddev	.00067	.00104	.00023	.00186	.00196	.00020
%RSD	.23859	.26169	1.6280	.24357	.20200	.09541
#1	.28131	.39603	.01407	.75973	.96812	.20517
#2	.27997	.39747	.01448	.76291	.97126	.20487
#3	.28057	.39806	.01446	.76298	.97173	.20523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47632.**	**46394.**
Stddev	94.	405.
%RSD	.19804	.87282
#1	47651.	46320.
#2	47530.	46031.
#3	47715.	46831.

Approved: March 30, 2011

Sample Name: L1103068548 Acquired: 3/29/2011 18:57:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00278**	**100.57**	**.07959**	**.11751**	**.85069**	**.00563**
Stddev	.00068	.27	.00120	.00188	.01700	.00001
%RSD	24.600	.27035	1.5061	1.5973	1.9987	.12776
#1	.00304	100.86	.08078	.11945	.87032	.00564
#2	.00329	100.32	.07838	.11738	.84042	.00563
#3	.00200	100.53	.07961	.11570	.84134	.00562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **3784.6**	**.05429**	**.07776**	**.18407**	**.21470**	**139.77**
Stddev	114.3	.00019	.00016	.00163	.00113	3.55
%RSD	3.0210	.35041	.20521	.88805	.52523	2.5426
#1	3913.8	.05444	.07758	.18224	.21513	143.86
#2	3743.6	.05407	.07783	.18457	.21342	137.46
#3	3696.5	.05435	.07788	.18539	.21555	137.98
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.10000					

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.304**	**.31268**	**78.702**	**5.3095**	**.01543**	**1.6185**
Stddev	.281	.00734	2.337	.1383	.00015	.0389
%RSD	2.1096	2.3466	2.9690	2.6052	.97704	2.4064
#1	13.628	.32114	81.396	5.4691	.01546	1.6616
#2	13.141	.30819	77.225	5.2252	.01527	1.6079
#3	13.142	.30869	77.486	5.2340	.01557	1.5859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Approved: March 30, 2011

Sample Name: L1103068548 Acquired: 3/29/2011 18:57:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ni2316	P_2149	Pb2203	Rb7800	S_1807	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23193**	**9.5201**	**.81958**	F **24.132**	F **4842.3**	F **-169880.**
Stddev	.00073	.0055	.00724	62.243	17.4	320.
%RSD	.31638	.05763	.88324	257.93	.36033	.18825
#1	.23243	9.5210	.82610	73.495	4832.1	-170180.
#2	.23109	9.5251	.81179	-45.790	4862.4	-169920.
#3	.23227	9.5142	.82086	44.692	4832.3	-169550.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000	9.0000	9.0000
Low Limit				-.00400	-.00400	-.00400

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3372
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00838**	**.01928**	**3.1594**	**.00925**	F **17.810**	**.30218**
Stddev	.00271	.00452	.0114	.00049	.442	.00630
%RSD	32.377	23.458	.35948	5.3477	2.4823	2.0852
#1	.00558	.01613	3.1654	.00976	18.258	.30946
#2	.00855	.02446	3.1665	.00924	17.799	.29836
#3	.01100	.01725	3.1463	.00877	17.374	.29874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					4.5000	
Low Limit					-.01000	

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	**.00535**	**.35898**	**7.1454**	**.06657**
Stddev	.00078	.00120	.0264	.00009
%RSD	14.550	.33352	.36916	.13042
#1	.00613	.35875	7.1379	.06660
#2	.00534	.35792	7.1747	.06663
#3	.00458	.36028	7.1236	.06647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Approved: March 30, 2011

Sample Name: L1103068548 Acquired: 3/29/2011 18:57:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**40240.**	**42948.**
Stddev	23.	1398.
%RSD	.05679	3.2561
#1	40266.	41336.
#2	40230.	43839.
#3	40224.	43669.

Approved: March 30, 2011

Sample Name: L1103068601 Acquired: 3/29/2011 19:01:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00478**	**152.15**	**.09691**	**.18670**	**1.1396**	**.00889**	F **1322.5**
Stddev	.00036	2.29	.00082	.00065	.0024	.00007	11.6
%RSD	7.5611	1.5056	.84315	.34648	.20782	.84219	.87344
#1	.00454	150.62	.09601	.18742	1.1419	.00881	1332.1
#2	.00519	154.78	.09761	.18616	1.1371	.00896	1309.7
#3	.00459	151.04	.09711	.18653	1.1398	.00889	1325.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02222**	**.09609**	**.27599**	**.18223**	**319.62**	**13.130**	**.17606**
Stddev	.00025	.00092	.00217	.00250	1.35	.058	.00085
%RSD	1.1254	.96164	.78538	1.3738	.42220	.44271	.48088
#1	.02225	.09616	.27393	.18377	319.27	13.163	.17593
#2	.02246	.09698	.27825	.18357	318.48	13.063	.17696
#3	.02196	.09514	.27577	.17934	321.11	13.163	.17528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.822**	**4.3968**	**.01474**	**.99208**	**.17095**	**6.0900**	**1.3431**
Stddev	.215	.0219	.00021	.00777	.00243	.0362	.0111
%RSD	.65435	.49826	1.4412	.78350	1.4200	.59508	.82257
#1	32.773	4.4000	.01477	.99894	.17241	6.0865	1.3466
#2	32.636	4.3734	.01493	.98364	.17230	6.1279	1.3520
#3	33.057	4.4169	.01451	.99365	.16815	6.0556	1.3307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068601 Acquired: 3/29/2011 19:01:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-31.803**	F **1621.3**	F **-82724.**	**.00501**	**.01301**	**2.5238**	**.01179**
Stddev	43.385	7.3	261.	.00323	.00102	.0189	.00070
%RSD	136.42	.45279	.31600	64.445	7.8048	.74847	5.9700
#1	18.064	1617.8	-82809.	.00300	.01283	2.5358	.01143
#2	-60.884	1629.7	-82932.	.00873	.01411	2.5336	.01261
#3	-52.590	1616.3	-82431.	.00329	.01210	2.5020	.01135
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.9962**	**.50963**	**.01005**	**.44097**	**29.178**	**.08988**
Stddev	.0680	.00123	.00102	.00092	.041	.00037
%RSD	1.3602	.24226	10.158	.20772	.13961	.41345
#1	5.0396	.50821	.00959	.44005	29.225	.08946
#2	4.9178	.51033	.01122	.44099	29.162	.09013
#3	5.0311	.51035	.00934	.44188	29.148	.09006
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**43405.**	**45665.**
Stddev	85.	448.
%RSD	.19684	.98000
#1	43426.	45400.
#2	43311.	46182.
#3	43478.	45413.

Approved: March 30, 2011

Sample Name: L1103068601PS Acquired: 3/29/2011 19:05:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360208-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23838**	**142.29**	**.29873**	**1.2239**	**1.5329**	**.03494**	F **1201.2**
Stddev	.00069	1.38	.00240	.0027	.0091	.00014	18.7
%RSD	.28788	.96685	.80404	.21987	.59321	.40946	1.5573
#1	.23822	141.72	.29884	1.2233	1.5411	.03480	1200.2
#2	.23913	143.86	.30108	1.2269	1.5345	.03509	1220.3
#3	.23779	141.29	.29628	1.2216	1.5231	.03493	1183.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04679**	**.18523**	**.50222**	**.41185**	**293.66**	**36.904**	**.68817**
Stddev	.00009	.00083	.00142	.00188	1.15	.140	.00384
%RSD	.18260	.44809	.28202	.45661	.39123	.37898	.55773
#1	.04682	.18558	.50077	.41294	294.92	37.065	.69169
#2	.04670	.18584	.50360	.41292	293.40	36.830	.68874
#3	.04686	.18429	.50228	.40967	292.66	36.817	.68408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.074**	**4.2484**	**.51709**	**26.500**	**.39492**	**5.4614**	**1.4330**
Stddev	.096	.0319	.00390	.186	.00279	.0235	.0052
%RSD	.28302	.75153	.75396	.70051	.70741	.43066	.36515
#1	34.168	4.2851	.52005	26.697	.39682	5.4691	1.4362
#2	33.975	4.2269	.51855	26.329	.39622	5.4800	1.4359
#3	34.081	4.2332	.51268	26.474	.39171	5.4350	1.4270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068601PS Acquired: 3/29/2011 19:05:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360208-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-57.098**	F **1466.4**	F **-74386.**	**.64819**	**.21627**	**5.0668**	**.01094**
Stddev	29.734	6.4	132.	.00084	.00190	.0134	.00053
%RSD	52.075	.43730	.17712	.12906	.87974	.26406	4.8340
#1	-58.096	1468.0	-74502.	.64914	.21407	5.0766	.01093
#2	-86.320	1471.8	-74413.	.64789	.21732	5.0722	.01148
#3	-26.878	1459.3	-74243.	.64755	.21742	5.0515	.01042
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.9863**	**.93248**	**.24228**	**.93331**	**27.130**	**.08092**
Stddev	.0570	.00363	.00137	.00351	.090	.00036
%RSD	1.1430	.38897	.56516	.37613	.33275	.45012
#1	5.0225	.93661	.24267	.93007	27.050	.08130
#2	4.9206	.93103	.24341	.93704	27.228	.08087
#3	5.0158	.92981	.24076	.93282	27.112	.08058
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**43927.**	**45286.**
Stddev	59.	458.
%RSD	.13410	1.0117
#1	43979.	44760.
#2	43863.	45493.
#3	43939.	45603.

Approved: March 30, 2011

Sample Name: L1103068601SDL Acquired: 3/29/2011 19:09:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360208-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**29.388**	**.02143**	**.04149**	**.22347**	**.00174**	**273.97**
Stddev	.00050	.055	.00178	.00081	.00063	.00004	1.72
%RSD	49.924	.18803	8.3086	1.9640	.28085	2.0577	.62808
#1	.00079	29.336	.02206	.04243	.22414	.00171	275.95
#2	.00064	29.446	.02281	.04110	.22289	.00178	273.07
#3	.00157	29.382	.01942	.04095	.22339	.00175	272.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00436**	**.02045**	**.05504**	**.03898**	**67.071**	**2.7298**	**.02654**
Stddev	.00007	.00015	.00075	.00038	.298	.0455	.00079
%RSD	1.6414	.71615	1.3592	.96351	.44485	1.6655	2.9617
#1	.00441	.02050	.05579	.03892	67.415	2.7802	.02564
#2	.00428	.02056	.05429	.03864	66.892	2.6920	.02705
#3	.00439	.02028	.05505	.03938	66.904	2.7171	.02694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.0532**	**.92082**	**.00254**	**.19245**	**.03696**	**1.2812**	**.29761**
Stddev	.0242	.00822	.00010	.00583	.00031	.0035	.00094
%RSD	.34325	.89314	4.0495	3.0309	.83269	.27352	.31673
#1	7.0807	.93020	.00265	.19867	.03690	1.2852	.29667
#2	7.0350	.91739	.00244	.19159	.03668	1.2788	.29759
#3	7.0441	.91487	.00253	.18710	.03729	1.2797	.29855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068601SDL Acquired: 3/29/2011 19:09:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360208-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.557**	F **348.66**	F **-17104.**	**-.00065**	**.00314**	**.51131**	**.00234**
Stddev	39.988	.10	5.	.00189	.00024	.00113	.00015
%RSD	185.50	.02770	.02863	290.07	7.5962	.22065	6.4944
#1	67.630	348.57	-17099.	-.00123	.00294	.51261	.00227
#2	-4.1216	348.67	-17109.	.00146	.00308	.51069	.00223
#3	1.1620	348.76	-17103.	-.00219	.00340	.51063	.00251
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0004**	**.09639**	**.00310**	**.08701**	**6.5350**	**.01757**
Stddev	.0056	.00059	.00079	.00024	.0060	.00010
%RSD	.55656	.60991	25.622	.28001	.09116	.54085
#1	1.0069	.09702	.00387	.08676	6.5402	.01757
#2	.99725	.09631	.00228	.08703	6.5285	.01766
#3	.99716	.09585	.00315	.08725	6.5363	.01747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48723.**	**47145.**
Stddev	90.	52.
%RSD	.18459	.10996
#1	48826.	47086.
#2	48683.	47166.
#3	48660.	47183.

Approved: March 30, 2011

Sample Name: L1103068601SDL Acquired: 3/29/2011 19:13:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360208-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**5.4822**	**.00605**	**.00847**	**.04368**	**.00031**	**52.984**
Stddev	.00075	.0391	.00059	.00050	.00021	.00001	.087
%RSD	570.83	.71289	9.6859	5.8721	.47251	3.7200	.16441
#1	.00033	5.4380	.00671	.00884	.04374	.00032	53.030
#2	.00076	5.5121	.00560	.00790	.04345	.00030	52.883
#3	-.00069	5.4965	.00584	.00866	.04385	.00032	53.039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00405**	**.01022**	**.00773**	**13.332**	**.64323**	**-.00100**
Stddev	.00008	.00020	.00024	.00016	.048	.04172	.00143
%RSD	12.723	4.9029	2.3729	2.0455	.36240	6.4860	143.07
#1	.00066	.00397	.01039	.00791	13.383	.69134	-.00230
#2	.00064	.00390	.00994	.00769	13.286	.61695	-.00124
#3	.00052	.00427	.01032	.00760	13.326	.62141	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4212**	**.18417**	**.00032**	**.03085**	**.00796**	**.25905**	**.06071**
Stddev	.0180	.00026	.00007	.00619	.00019	.00013	.00077
%RSD	1.2657	.13930	22.237	20.049	2.3422	.05188	1.2759
#1	1.4417	.18443	.00035	.03199	.00815	.25892	.06034
#2	1.4084	.18392	.00037	.02418	.00794	.25904	.06160
#3	1.4133	.18415	.00024	.03639	.00778	.25919	.06020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068601SDL Acquired: 3/29/2011 19:13:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360208-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **67.777**	F **72.630**	F **-3377.2**	**-.00091**	**-.00109**	**.09743**	**.00031**
Stddev	49.161	.238	7.7	.00113	.00129	.00135	.00022
%RSD	72.533	.32746	.22677	123.77	118.22	1.3877	72.140
#1	11.114	72.366	-3385.7	-.00140	-.00098	.09587	.00006
#2	99.064	72.826	-3370.7	.00038	-.00243	.09830	.00037
#3	93.155	72.698	-3375.4	-.00172	.00014	.09811	.00050
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19340**	**.01894**	**.00216**	**.01687**	**1.3404**	**.00327**
Stddev	.00021	.00087	.00114	.00013	.0025	.00005
%RSD	.10650	4.5851	52.578	.76539	.18356	1.3825
#1	.19361	.01991	.00242	.01675	1.3379	.00332
#2	.19320	.01824	.00315	.01701	1.3405	.00325
#3	.19340	.01867	.00092	.01687	1.3428	.00323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50295.**	**46573.**
Stddev	186.	167.
%RSD	.37003	.35790
#1	50495.	46420.
#2	50266.	46550.
#3	50126.	46751.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 19:16:49 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42643**	**10.347**	**.42283**	**.52326**	**1.0077**	**.05201**	**9.6001**
Stddev	.00414	.010	.00246	.00126	.0043	.00023	.0507
%RSD	.97004	.09217	.58187	.24057	.42311	.44172	.52773
#1	.43120	10.349	.42507	.52420	1.0028	.05222	9.5429
#2	.42415	10.355	.42321	.52376	1.0104	.05205	9.6182
#3	.42393	10.337	.42020	.52183	1.0100	.05176	9.6392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05316**	**.21210**	**.52214**	**.53346**	**3.7019**	**49.345**	**1.0244**
Stddev	.00017	.00062	.00145	.00307	.0065	.279	.0055
%RSD	.31184	.29346	.27795	.57589	.17537	.56535	.53982
#1	.05311	.21224	.52243	.53361	3.6968	49.024	1.0180
#2	.05334	.21265	.52342	.53645	3.7092	49.527	1.0280
#3	.05302	.21142	.52056	.53031	3.6997	49.484	1.0271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.9657**	F **.44424**	**.99793**	**48.825**	**.51869**	F **-.00401**	**.52470**
Stddev	.0703	.00312	.00124	.203	.00140	.00116	.00032
%RSD	.78396	.70292	.12439	.41535	.27014	28.775	.06188
#1	8.9122	.44118	.99818	48.638	.51964	-.00271	.52434
#2	8.9397	.44411	.99658	49.040	.51935	-.00492	.52498
#3	9.0453	.44742	.99903	48.796	.51708	-.00440	.52478
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000	.50000				10.000	
Range	-10.000%	-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 19:16:49 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **64.705**	**10.436**	F **12.748**	**1.3099**	**.41626**	F **.00288**	**1.0394**
Stddev	47.894	.048	4.619	.0046	.00220	.00063	.0011
%RSD	74.019	.46436	36.237	.35427	.52734	21.754	.10939
#1	48.574	10.410	17.792	1.3089	.41443	.00328	1.0391
#2	26.959	10.492	8.7237	1.3150	.41566	.00320	1.0407
#3	118.58	10.406	11.728	1.3059	.41869	.00216	1.0385
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97068**	**.97678**	**.53590**	**1.0393**	**.99462**	F **.00079**
Stddev	.00459	.00318	.00116	.0031	.00260	.00011
%RSD	.47327	.32552	.21608	.30003	.26144	13.519
#1	.96601	.97316	.53470	1.0420	.99161	.00076
#2	.97519	.97807	.53702	1.0401	.99606	.00070
#3	.97083	.97912	.53597	1.0359	.99617	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48081.**	**45806.**
Stddev	174.	148.
%RSD	.36271	.32358
#1	47970.	45752.
#2	47991.	45974.
#3	48282.	45693.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 19:20:14 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.01360**	**.00030**	**.00195**	**-.00028**	**-.00002**	**.02993**
Stddev	.00042	.00049	.00115	.00068	.00003	.00002	.00068
%RSD	100.31	3.5795	384.66	34.993	10.298	78.972	2.2682
#1	-.00040	.01366	.00030	.00262	-.00027	.00000	.02919
#2	-.00001	.01405	.00144	.00198	-.00025	-.00002	.03007
#3	-.00085	.01308	-.00085	.00125	-.00031	-.00003	.03053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00004**	**-.00061**	**-.00012**	**.00255**	**.13726**	**-.00596**
Stddev	.00008	.00016	.00007	.00011	.00250	.02413	.00024
%RSD	70.007	394.71	11.087	95.661	98.098	17.582	4.0679
#1	-.00011	-.00014	-.00063	-.00023	.00544	.16291	-.00577
#2	-.00003	.00013	-.00066	-.00012	.00125	.11501	-.00587
#3	-.00019	.00013	-.00053	.00000	.00097	.13386	-.00623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01729**	**-.00018**	**-.00003**	**.00117**	**.00105**	**-.00209**	**.00078**
Stddev	.00238	.00021	.00002	.00593	.00004	.00199	.00091
%RSD	13.764	112.91	67.715	508.03	3.6585	95.267	117.29
#1	-.01972	-.00036	-.00004	.00801	.00106	-.00005	.00181
#2	-.01716	.00004	-.00001	-.00213	.00109	-.00219	.00043
#3	-.01497	-.00023	-.00003	-.00238	.00101	-.00402	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 19:20:14 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **44.910**	F **.05407**	F **6.0281**	**-.00082**	**.00097**	**-.00057**	**-.00053**
Stddev	45.660	.05774	13.300	.00197	.00166	.00080	.00006
%RSD	101.67	106.79	220.63	239.90	171.35	140.04	11.156
#1	91.497	-.01059	-8.3869	.00019	-.00058	-.00029	-.00048
#2	.23662	.07229	17.822	.00044	.00076	.00005	-.00060
#3	42.997	.10050	8.6487	-.00309	.00272	-.00148	-.00053
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00034**	**.00097**	**-.00020**	**.00450**	**.00011**
Stddev	.00004	.00026	.00030	.00019	.00009	.00005
%RSD	116.71	74.835	30.798	92.844	1.9720	51.206
#1	-.00003	.00008	.00102	.00000	.00459	.00017
#2	.00000	.00060	.00065	-.00037	.00450	.00006
#3	-.00008	.00034	.00124	-.00023	.00441	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48746.**	**45322.**
Stddev	57.	492.
%RSD	.11760	1.0855
#1	48811.	45853.
#2	48702.	45231.
#3	48724.	44882.

Approved: March 30, 2011

Sample Name: L1103068602 Acquired: 3/29/2011 19:23:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00463**	**202.47**	**.11595**	**.21659**	**1.0919**	**.01412**	**16.733**
Stddev	.00029	1.00	.00118	.00054	.0039	.00009	.010
%RSD	6.2130	.49163	1.0192	.24997	.35503	.61005	.06036
#1	.00447	203.57	.11477	.21605	1.0954	.01412	16.741
#2	.00496	201.63	.11596	.21713	1.0877	.01404	16.737
#3	.00446	202.21	.11713	.21660	1.0925	.01421	16.722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00518**	**.24548**	**.21322**	**.13851**	**428.71**	**12.108**	**.17528**
Stddev	.00008	.00053	.00213	.00086	.95	.028	.00206
%RSD	1.5908	.21764	.99779	.62228	.22089	.23415	1.1762
#1	.00515	.24527	.21314	.13784	427.66	12.135	.17719
#2	.00513	.24609	.21114	.13948	428.98	12.111	.17555
#3	.00528	.24509	.21539	.13821	429.50	12.078	.17310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.883**	**14.732**	**.00801**	**.48540**	**.29743**	**3.4669**	**.27039**
Stddev	.061	.004	.00024	.00560	.00193	.0167	.00227
%RSD	.29372	.02719	3.0545	1.1534	.64850	.48229	.83905
#1	20.812	14.730	.00773	.48137	.29523	3.4495	.26785
#2	20.921	14.729	.00812	.49179	.29881	3.4828	.27110
#3	20.915	14.737	.00819	.48303	.29826	3.4682	.27222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068602 Acquired: 3/29/2011 19:23:57 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-37.585**	F **53.841**	F **-10269.**	**-.00036**	**.01295**	**2.4276**	**.00901**
Stddev	13.076	.448	50.	.00002	.00411	.0102	.00030
%RSD	34.790	.83161	.48986	5.1063	31.760	.41899	3.2762
#1	-28.662	53.329	-10211.	-.00035	.01408	2.4348	.00891
#2	-52.595	54.159	-10292.	-.00035	.01638	2.4319	.00934
#3	-31.499	54.035	-10303.	-.00038	.00839	2.4159	.00877
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16808**	**.23661**	**.00501**	**.35382**	**.68801**	**.10838**
Stddev	.00027	.00118	.00081	.00123	.00283	.00068
%RSD	.15950	.49858	16.192	.34771	.41099	.62692
#1	.16803	.23526	.00578	.35460	.69113	.10852
#2	.16837	.23746	.00510	.35447	.68728	.10898
#3	.16784	.23710	.00416	.35240	.68562	.10765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46801.**	**46898.**
Stddev	180.	268.
%RSD	.38452	.57097
#1	46608.	46615.
#2	46832.	46930.
#3	46964.	47148.

Approved: March 30, 2011

Sample Name: L1103068603 Acquired: 3/29/2011 19:27:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00554**	**195.05**	**.10605**	**.21585**	**1.7819**	**.01396**	**66.980**
Stddev	.00048	1.83	.00031	.00207	.0046	.00003	.147
%RSD	8.6541	.94011	.29660	.95874	.25634	.22268	.21971
#1	.00506	193.03	.10628	.21347	1.7825	.01393	67.072
#2	.00555	195.51	.10619	.21688	1.7861	.01397	67.058
#3	.00602	196.60	.10569	.21721	1.7770	.01399	66.810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01116**	**.19705**	**.28571**	**.34669**	**396.61**	**17.346**	**.17610**
Stddev	.00002	.00132	.00139	.00170	1.21	.022	.00101
%RSD	.13679	.66885	.48486	.49163	.30398	.12484	.57465
#1	.01114	.19559	.28593	.34473	395.24	17.349	.17551
#2	.01117	.19743	.28423	.34784	397.49	17.366	.17726
#3	.01117	.19814	.28697	.34750	397.11	17.323	.17551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.084**	**14.110**	**.01307**	**.81619**	**.24593**	**6.9043**	**.61537**
Stddev	.105	.013	.00024	.00138	.00077	.0138	.00230
%RSD	.58199	.09006	1.8443	.16940	.31453	.19970	.37317
#1	17.962	14.096	.01335	.81541	.24604	6.8884	.61400
#2	18.148	14.121	.01295	.81778	.24665	6.9125	.61802
#3	18.141	14.112	.01292	.81537	.24511	6.9120	.61409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068603 Acquired: 3/29/2011 19:27:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-35.324**	F **129.95**	F **-18328.**	**.00652**	**.01394**	**2.4242**	**.13259**
Stddev	61.959	.66	15.	.00115	.00211	.0012	.00012
%RSD	175.40	.50932	.08281	17.577	15.164	.04828	.09215
#1	-27.810	129.26	-18334.	.00763	.01192	2.4234	.13245
#2	-100.70	130.01	-18340.	.00659	.01376	2.4256	.13266
#3	22.535	130.58	-18311.	.00534	.01613	2.4236	.13266
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43262**	**.36364**	**.00631**	**.38457**	**2.4387**	**.09742**
Stddev	.00097	.00003	.00097	.00114	.0024	.00047
%RSD	.22335	.00919	15.405	.29578	.09706	.48751
#1	.43356	.36363	.00732	.38442	2.4365	.09707
#2	.43268	.36367	.00623	.38351	2.4412	.09722
#3	.43163	.36361	.00538	.38577	2.4386	.09796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47293.**	**47444.**
Stddev	74.	10.
%RSD	.15666	.02019
#1	47376.	47448.
#2	47266.	47452.
#3	47235.	47434.

Approved: March 30, 2011

Sample Name: L1103068604 Acquired: 3/29/2011 19:31:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00548**	**263.87**	**.12957**	**.19906**	**1.9579**	**.01621**	**43.741**
Stddev	.00043	1.25	.00090	.00034	.0064	.00005	.219
%RSD	7.7637	.47341	.69617	.16888	.32626	.28692	.50064
#1	.00499	263.61	.12965	.19884	1.9505	.01624	43.502
#2	.00577	265.22	.12864	.19945	1.9616	.01624	43.789
#3	.00568	262.76	.13043	.19890	1.9615	.01616	43.932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00713**	**.17145**	**.43838**	**.14883**	**366.41**	**17.877**	**.18490**
Stddev	.00001	.00015	.00186	.00173	1.51	.065	.00150
%RSD	.14091	.08490	.42537	1.1599	.41231	.36584	.81003
#1	.00712	.17132	.43701	.14792	364.69	17.806	.18391
#2	.00714	.17161	.44050	.15082	367.01	17.892	.18417
#3	.00713	.17142	.43762	.14775	367.52	17.934	.18662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.708**	**7.9913**	**.01502**	**1.1740**	**.17096**	**5.2341**	**.47859**
Stddev	.106	.0502	.00020	.0024	.00032	.0212	.00476
%RSD	.53679	.62863	1.3087	.20826	.18519	.40497	.99510
#1	19.619	7.9359	.01505	1.1714	.17096	5.2266	.47556
#2	19.681	8.0044	.01520	1.1743	.17127	5.2580	.48408
#3	19.825	8.0338	.01481	1.1762	.17064	5.2177	.47614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068604 Acquired: 3/29/2011 19:31:11 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-122.77**	F **141.44**	F **-27792.**	**.00483**	**.01522**	**2.3559**	**.01536**
Stddev	34.31	.71	140.	.00149	.00317	.0211	.00041
%RSD	27.950	.50044	.50425	30.953	20.819	.89512	2.6655
#1	-151.49	140.95	-27734.	.00648	.01882	2.3521	.01504
#2	-84.769	142.25	-27952.	.00358	.01286	2.3786	.01522
#3	-132.05	141.12	-27691.	.00442	.01397	2.3369	.01582
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33198**	**.47492**	**.01590**	**.70782**	**.80427**	**.16916**
Stddev	.00106	.00180	.00051	.00262	.00094	.00077
%RSD	.31833	.37825	3.2003	.37037	.11637	.45416
#1	.33086	.47327	.01532	.70645	.80341	.16924
#2	.33213	.47464	.01615	.71084	.80527	.16988
#3	.33295	.47684	.01625	.70616	.80415	.16835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47537.**	**48078.**
Stddev	67.	133.
%RSD	.14074	.27735
#1	47479.	48187.
#2	47521.	48117.
#3	47610.	47929.

Approved: March 30, 2011

Sample Name: L1103068605 Acquired: 3/29/2011 19:34:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00748**	**220.93**	**.14185**	**.31576**	**1.5329**	**.02397**	**21.033**
Stddev	.00081	2.29	.00169	.00349	.0064	.00009	.106
%RSD	10.787	1.0368	1.1943	1.1044	.42036	.39328	.50585
#1	.00745	223.11	.14379	.31970	1.5403	.02408	21.144
#2	.00829	218.54	.14067	.31308	1.5298	.02395	21.022
#3	.00668	221.14	.14108	.31449	1.5285	.02389	20.932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00690**	**.43417**	**.47028**	**.18694**	**649.16**	**9.9790**	**.16779**
Stddev	.00010	.00153	.00126	.00090	6.51	.0317	.00032
%RSD	1.4810	.35295	.26855	.48313	1.0025	.31766	.19288
#1	.00701	.43573	.47155	.18797	656.67	10.011	.16809
#2	.00681	.43411	.46903	.18630	645.15	9.9481	.16784
#3	.00688	.43267	.47025	.18654	645.67	9.9776	.16745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.887**	**15.674**	**.01703**	**1.2802**	**.28458**	**3.5810**	**.53359**
Stddev	.050	.045	.00013	.0102	.00079	.0029	.00247
%RSD	.26289	.28420	.76521	.79761	.27585	.08000	.46218
#1	18.937	15.718	.01716	1.2904	.28445	3.5842	.53339
#2	18.838	15.675	.01691	1.2801	.28542	3.5787	.53616
#3	18.884	15.629	.01701	1.2700	.28387	3.5799	.53124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068605 Acquired: 3/29/2011 19:34:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **17.703**	F **114.21**	F **-25974.**	**.00366**	**.01941**	**2.5488**	**.01305**
Stddev	13.797	.51	92.	.00093	.00274	.0074	.00023
%RSD	77.938	.44649	.35576	25.315	14.112	.29011	1.7704
#1	23.977	114.79	-26058.	.00268	.01662	2.5564	.01323
#2	27.247	113.91	-25988.	.00453	.01949	2.5484	.01314
#3	1.8834	113.91	-25875.	.00378	.02210	2.5417	.01279
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18598**	**.30739**	**.01489**	**.68770**	**1.3191**	**.13270**
Stddev	.00101	.00083	.00144	.00208	.0021	.00049
%RSD	.54429	.27002	9.6657	.30219	.15505	.37033
#1	.18693	.30809	.01324	.69006	1.3213	.13322
#2	.18610	.30761	.01556	.68685	1.3172	.13263
#3	.18491	.30648	.01587	.68617	1.3188	.13225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46943.**	**46779.**
Stddev	137.	130.
%RSD	.29171	.27737
#1	46786.	46632.
#2	47004.	46830.
#3	47039.	46876.

Approved: March 30, 2011

Sample Name: L1103068606 Acquired: 3/29/2011 19:38:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**137.78**	**.08535**	**.15190**	**1.1325**	**.00909**	**284.51**
Stddev	.00031	.75	.00176	.00167	.0005	.00002	.63
%RSD	7.9686	.54332	2.0628	1.1015	.04654	.19010	.22306
#1	.00388	138.10	.08736	.14998	1.1331	.00910	285.12
#2	.00418	136.93	.08464	.15308	1.1322	.00911	284.55
#3	.00356	138.32	.08406	.15264	1.1321	.00907	283.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01422**	**.12146**	**.17365**	**.15204**	**234.64**	**18.434**	**.12391**
Stddev	.00003	.00010	.00046	.00105	.34	.022	.00022
%RSD	.18185	.07903	.26723	.68810	.14291	.11743	.17983
#1	.01424	.12137	.17376	.15239	234.31	18.420	.12366
#2	.01419	.12143	.17315	.15287	234.65	18.459	.12408
#3	.01423	.12156	.17406	.15087	234.98	18.424	.12399
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.031**	**8.4381**	**.00930**	**.52371**	**.20515**	**7.0965**	**.42196**
Stddev	.066	.0089	.00020	.00708	.00048	.0068	.00142
%RSD	.30031	.10562	2.1992	1.3518	.23398	.09549	.33763
#1	22.012	8.4478	.00915	.52758	.20482	7.0894	.42314
#2	21.976	8.4362	.00922	.52802	.20570	7.1029	.42236
#3	22.104	8.4302	.00953	.51554	.20493	7.0972	.42037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068606 Acquired: 3/29/2011 19:38:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-42.714**	F **545.58**	F **-73715.**	**.00393**	**.01511**	**2.3644**	**.00969**
Stddev	15.710	1.08	178.	.00109	.00474	.0015	.00048
%RSD	36.779	.19730	.24150	27.596	31.385	.06465	4.9613
#1	-59.346	546.35	-73586.	.00380	.01787	2.3644	.00914
#2	-28.127	546.04	-73640.	.00292	.01783	2.3629	.00990
#3	-40.669	544.35	-73918.	.00508	.00964	2.3660	.01002
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0917**	**.34701**	**.00487**	**.31300**	**2.1789**	**.06368**
Stddev	.0045	.00038	.00169	.00046	.0067	.00030
%RSD	.41312	.11044	34.679	.14691	.30680	.46999
#1	1.0962	.34694	.00681	.31328	2.1713	.06336
#2	1.0919	.34742	.00370	.31247	2.1839	.06396
#3	1.0872	.34666	.00411	.31325	2.1814	.06371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45632.**	**46489.**
Stddev	11.	106.
%RSD	.02449	.22777
#1	45626.	46371.
#2	45625.	46523.
#3	45645.	46575.

Approved: March 30, 2011

Sample Name: L1103068607 Acquired: 3/29/2011 19:41:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00740**	**216.14**	**.13386**	**.22015**	**2.1347**	**.01574**	**75.149**
Stddev	.00080	1.15	.00286	.00059	.0031	.00004	.188
%RSD	10.754	.53017	2.1331	.26817	.14668	.28587	.24983
#1	.00729	215.02	.13645	.22014	2.1325	.01568	75.237
#2	.00667	217.31	.13432	.21957	2.1333	.01576	74.934
#3	.00825	216.08	.13080	.22075	2.1383	.01577	75.277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01258**	**.21068**	**.29869**	**.22207**	**384.02**	**24.812**	**.19233**
Stddev	.00003	.00031	.00153	.00154	.83	.029	.00106
%RSD	.25083	.14597	.51294	.69359	.21603	.11774	.55299
#1	.01255	.21040	.29705	.22093	383.73	24.811	.19157
#2	.01261	.21101	.30008	.22382	383.37	24.784	.19189
#3	.01257	.21064	.29894	.22146	384.96	24.842	.19355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.582**	**17.078**	**.01227**	**.67890**	**.24972**	**8.7571**	**.65005**
Stddev	.069	.069	.00011	.00355	.00161	.0256	.00555
%RSD	.35368	.40238	.87836	.52242	.64642	.29187	.85313
#1	19.613	17.088	.01220	.67700	.24926	8.7298	.64817
#2	19.502	17.005	.01240	.68299	.25152	8.7805	.65629
#3	19.630	17.142	.01222	.67671	.24839	8.7609	.64568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068607 Acquired: 3/29/2011 19:41:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.725**	F **170.48**	F **-26729.**	**.00541**	**.01855**	**2.3443**	**.01748**
Stddev	42.618	.36	146.	.00195	.00162	.0064	.00005
%RSD	76.478	.21018	.54574	36.032	8.7081	.27270	.27918
#1	-33.110	170.08	-26676.	.00441	.01938	2.3371	.01753
#2	-104.88	170.58	-26894.	.00765	.01958	2.3492	.01748
#3	-29.182	170.78	-26617.	.00416	.01669	2.3467	.01743
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50241**	**.45991**	**.00819**	**.51844**	**1.6955**	**.11031**
Stddev	.00057	.00074	.00099	.00292	.0050	.00028
%RSD	.11342	.16097	12.153	.56375	.29659	.25597
#1	.50294	.46012	.00713	.51592	1.6916	.10999
#2	.50181	.45909	.00831	.51776	1.6937	.11041
#3	.50249	.46052	.00911	.52165	1.7011	.11052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46901.**	**46996.**
Stddev	11.	397.
%RSD	.02360	.84569
#1	46901.	46643.
#2	46890.	47427.
#3	46912.	46918.

Approved: March 30, 2011

Sample Name: L1103068608 Acquired: 3/29/2011 19:45:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00362**	**206.44**	**.14430**	**.16561**	**1.6165**	**.01157**	F **1354.6**
Stddev	.00084	1.47	.00234	.00137	.0092	.00007	23.9
%RSD	23.168	.71173	1.6245	.82888	.57011	.64788	1.7640
#1	.00301	204.86	.14275	.16487	1.6080	.01148	1334.9
#2	.00327	206.70	.14699	.16477	1.6152	.01161	1347.6
#3	.00457	207.77	.14315	.16719	1.6263	.01162	1381.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00940**	**.12459**	**.26880**	**.14547**	**239.67**	**15.610**	**.19920**
Stddev	.00022	.00137	.00176	.00162	1.74	.120	.00215
%RSD	2.3602	1.0984	.65330	1.1117	.72561	.76807	1.0795
#1	.00914	.12301	.26677	.14361	238.29	15.496	.19794
#2	.00952	.12547	.26985	.14624	239.09	15.598	.19798
#3	.00954	.12529	.26978	.14656	241.62	15.735	.20168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**35.892**	**5.5436**	**.01109**	**1.5648**	**.14499**	**8.3931**	**.53241**
Stddev	.292	.0519	.00020	.0082	.00092	.0423	.00507
%RSD	.81337	.93544	1.8456	.52673	.63332	.50459	.95292
#1	35.623	5.5013	.01090	1.5554	.14412	8.3444	.52690
#2	35.851	5.5279	.01131	1.5679	.14595	8.4147	.53346
#3	36.202	5.6014	.01108	1.5709	.14490	8.4204	.53688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068608 Acquired: 3/29/2011 19:45:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-46.061**	F **1636.2**	F **-65718.**	**.00937**	**.01454**	**2.5236**	**.01254**
Stddev	10.152	10.9	284.	.00060	.00183	.0119	.00061
%RSD	22.040	.66615	.43183	6.4181	12.597	.47211	4.8531
#1	-39.403	1623.7	-65391.	.00887	.01656	2.5101	.01208
#2	-41.035	1643.9	-65875.	.00920	.01300	2.5327	.01323
#3	-57.745	1641.0	-65889.	.01003	.01406	2.5280	.01231
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **6.2600**	**.46348**	**.00862**	**.47964**	**1.0654**	**.10767**
Stddev	.1024	.00171	.00223	.00259	.0059	.00062
%RSD	1.6364	.36788	25.813	.54066	.55604	.57233
#1	6.2097	.46185	.00922	.47692	1.0586	.10698
#2	6.1925	.46334	.01049	.47991	1.0696	.10786
#3	6.3779	.46525	.00616	.48208	1.0681	.10817
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**43401.**	**46243.**
Stddev	195.	402.
%RSD	.44862	.86913
#1	43624.	46526.
#2	43317.	46421.
#3	43262.	45783.

Approved: March 30, 2011

Sample Name: L1103068609 Acquired: 3/29/2011 19:49:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00496**	**277.08**	**.15251**	**.20148**	**2.2892**	**.01682**	**282.61**
Stddev	.00062	5.40	.00368	.00079	.0061	.00030	.78
%RSD	12.477	1.9479	2.4141	.39443	.26479	1.8118	.27615
#1	.00567	272.38	.15161	.20100	2.2945	.01662	283.46
#2	.00460	282.98	.15656	.20103	2.2826	.01717	281.94
#3	.00460	275.87	.14937	.20239	2.2907	.01668	282.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00819**	**.14200**	**.45869**	**.16020**	**342.76**	**16.874**	**.18965**
Stddev	.00007	.00276	.00838	.00387	.72	.010	.00071
%RSD	.88904	1.9428	1.8279	2.4170	.20938	.05720	.37612
#1	.00826	.14047	.45313	.15791	342.06	16.875	.19043
#2	.00818	.14519	.46833	.16467	342.72	16.864	.18903
#3	.00812	.14035	.45460	.15802	343.49	16.883	.18949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.747**	**6.5971**	**.01409**	**2.0993**	**.17929**	**6.0631**	**.51263**
Stddev	.132	.0106	.00012	.0105	.00407	.1034	.00945
%RSD	.51421	.15996	.82150	.50200	2.2710	1.7049	1.8439
#1	25.616	6.6027	.01411	2.1114	.17620	6.0051	.50494
#2	25.880	6.5850	.01419	2.0940	.18390	6.1825	.52319
#3	25.744	6.6037	.01396	2.0925	.17778	6.0019	.50977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068609 Acquired: 3/29/2011 19:49:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.500**	F **424.82**	F **-40701.**	**.00791**	**.01137**	**2.5195**	**.01520**
Stddev	23.774	9.17	638.	.00076	.00177	.0445	.00043
%RSD	39.296	2.1592	1.5678	9.5528	15.606	1.7673	2.8416
#1	-37.449	419.55	-40331.	.00793	.01087	2.4949	.01529
#2	-84.936	435.41	-41438.	.00714	.01334	2.5709	.01558
#3	-59.114	419.49	-40334.	.00865	.00990	2.4928	.01473
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3568**	**.45755**	**.01584**	**.71158**	**.93198**	**.18515**
Stddev	.0057	.00100	.00131	.01209	.02271	.00305
%RSD	.41869	.21772	8.2579	1.6989	2.4363	1.6489
#1	1.3632	.45860	.01515	.70445	.91671	.18297
#2	1.3544	.45662	.01503	.72554	.95808	.18864
#3	1.3526	.45742	.01735	.70476	.92117	.18383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45593.**	**46405.**
Stddev	776.	173.
%RSD	1.7011	.37321
#1	46013.	46384.
#2	44698.	46244.
#3	46067.	46588.

Approved: March 30, 2011

Sample Name: L1103068610 Acquired: 3/29/2011 19:52:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00527**	**205.69**	**.16087**	**.18217**	**1.8675**	**.01369**	**96.111**
Stddev	.00096	.45	.00048	.00158	.0091	.00004	.369
%RSD	18.257	.22103	.30144	.86512	.48954	.25683	.38379
#1	.00420	205.50	.16112	.18385	1.8772	.01368	96.491
#2	.00607	205.36	.16031	.18195	1.8663	.01366	96.089
#3	.00555	206.21	.16118	.18072	1.8591	.01373	95.754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00812**	**.26090**	**.34877**	**.14799**	**306.94**	**13.973**	**.14482**
Stddev	.00012	.00005	.00077	.00079	2.10	.053	.00065
%RSD	1.5162	.02035	.22071	.53428	.68289	.38218	.44965
#1	.00818	.26092	.34820	.14886	309.21	14.030	.14440
#2	.00820	.26084	.34964	.14781	306.53	13.967	.14557
#3	.00798	.26094	.34846	.14731	305.08	13.923	.14449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.252**	**11.657**	**.01414**	**.92350**	**.13568**	**7.9480**	**.67308**
Stddev	.154	.071	.00008	.00508	.00147	.0064	.00549
%RSD	.84365	.61296	.55861	.54988	1.0815	.08081	.81511
#1	18.426	11.734	.01410	.92096	.13735	7.9490	.67906
#2	18.199	11.646	.01410	.92935	.13461	7.9412	.67189
#3	18.132	11.593	.01423	.92020	.13507	7.9539	.66828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068610 Acquired: 3/29/2011 19:52:50 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-55.097**	F **259.91**	F **-46799.**	**.00439**	**.01717**	**2.2905**	**.01397**
Stddev	55.871	.11	29.	.00173	.00251	.0145	.00028
%RSD	101.40	.04152	.06095	39.479	14.617	.63463	1.9934
#1	-16.747	259.96	-46801.	.00483	.02000	2.2801	.01410
#2	-29.344	259.79	-46770.	.00585	.01519	2.3071	.01416
#3	-119.20	259.99	-46827.	.00247	.01634	2.2842	.01365
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53817**	**.40354**	**.01122**	**.62200**	**2.0854**	**.13557**
Stddev	.00179	.00194	.00122	.00115	.0021	.00024
%RSD	.33187	.47988	10.896	.18409	.09998	.17486
#1	.54013	.40562	.01263	.62300	2.0833	.13583
#2	.53774	.40320	.01054	.62225	2.0853	.13553
#3	.53664	.40179	.01049	.62075	2.0875	.13536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46792.**	**46493.**
Stddev	56.	519.
%RSD	.11958	1.1169
#1	46729.	45919.
#2	46835.	46631.
#3	46813.	46930.

Approved: March 30, 2011

Sample Name: L1103068611S Acquired: 3/29/2011 19:56:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21822**	**209.85**	**.35560**	**.18865**	**1.4821**	**.01171**	**310.13**
Stddev	.00242	.78	.00244	.00128	.0039	.00009	1.12
%RSD	1.1100	.36978	.68683	.67603	.26287	.74214	.36020
#1	.22038	208.96	.35821	.18725	1.4841	.01180	310.10
#2	.21866	210.27	.35520	.18975	1.4846	.01172	311.26
#3	.21560	210.33	.35338	.18895	1.4776	.01162	309.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03606**	**.10989**	**.33741**	**.41012**	**266.89**	**16.438**	**.15458**
Stddev	.00026	.00134	.00191	.00496	.55	.054	.00139
%RSD	.71104	1.2236	.56700	1.2091	.20602	.32984	.90071
#1	.03634	.11131	.33878	.41512	266.65	16.425	.15519
#2	.03600	.10971	.33821	.41003	267.51	16.498	.15557
#3	.03584	.10864	.33522	.40520	266.49	16.391	.15299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.651**	**5.9091**	**.01329**	**.99398**	**.13384**	**10.343**	**.80084**
Stddev	.058	.0235	.00039	.01134	.00126	.066	.00505
%RSD	.26981	.39772	2.9121	1.1412	.93852	.63494	.63015
#1	21.592	5.9020	.01287	.98255	.13385	10.407	.80338
#2	21.709	5.9353	.01363	.99417	.13509	10.345	.80410
#3	21.650	5.8899	.01337	1.0052	.13257	10.276	.79502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068611S Acquired: 3/29/2011 19:56:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.7619**	F **517.09**	F **-60715.**	**.00610**	**.01575**	**2.6266**	**.01410**
Stddev	20.336	5.87	293.	.00192	.00100	.0154	.00023
%RSD	427.05	1.1345	.48233	31.549	6.3603	.58551	1.6364
#1	-18.702	522.54	-60985.	.00527	.01690	2.6423	.01417
#2	17.296	517.85	-60757.	.00830	.01521	2.6260	.01429
#3	15.691	510.88	-60403.	.00473	.01513	2.6116	.01385
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4515**	**.59623**	**.01122**	**.58539**	**2.0042**	**.11585**
Stddev	.0044	.00212	.00243	.00439	.0135	.00027
%RSD	.30540	.35540	21.661	.75044	.67305	.23668
#1	1.4552	.59707	.00844	.58961	2.0145	.11593
#2	1.4528	.59780	.01230	.58573	2.0091	.11607
#3	1.4466	.59382	.01292	.58084	1.9889	.11554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45812.**	**46171.**
Stddev	284.	273.
%RSD	.61948	.59069
#1	45566.	45986.
#2	45749.	46043.
#3	46123.	46484.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 20:00:03 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43691**	**10.370**	**.42885**	**.52391**	**.99680**	**.05257**	**9.5893**
Stddev	.00237	.026	.00283	.00286	.00242	.00022	.0204
%RSD	.54206	.24637	.66103	.54518	.24320	.42751	.21290
#1	.43442	10.381	.42570	.52070	.99886	.05232	9.5774
#2	.43720	10.388	.42966	.52615	.99413	.05263	9.5775
#3	.43913	10.341	.43120	.52490	.99740	.05276	9.6128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05346**	**.21525**	**.52221**	**.54070**	**3.7172**	**49.945**	**1.0133**
Stddev	.00008	.00026	.00123	.00163	.0066	.069	.0018
%RSD	.14954	.11944	.23587	.30086	.17679	.13760	.17802
#1	.05339	.21509	.52091	.53889	3.7151	49.892	1.0150
#2	.05355	.21511	.52336	.54204	3.7119	49.921	1.0114
#3	.05343	.21555	.52234	.54116	3.7245	50.023	1.0134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2391**	F **.44613**	**.99737**	**49.503**	**.52388**	F **-.00313**	**.52972**
Stddev	.0684	.00118	.00081	.077	.00031	.00339	.00059
%RSD	.74024	.26349	.08079	.15536	.05974	108.46	.11088
#1	9.1673	.44577	.99700	49.414	.52354	-.00490	.52913
#2	9.2468	.44519	.99682	49.544	.52415	-.00526	.53030
#3	9.3034	.44745	.99830	49.549	.52395	.00078	.52972
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 20:00:03 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **113.15**	**10.628**	F **4.5554**	**1.3146**	**.41091**	F **.00570**	**1.0547**
Stddev	35.63	.021	12.668	.0026	.00077	.00105	.0018
%RSD	31.491	.19580	278.10	.19847	.18666	18.369	.16599
#1	145.12	10.604	-4.7835	1.3118	.41149	.00597	1.0527
#2	119.58	10.643	-.52588	1.3150	.41004	.00658	1.0557
#3	74.737	10.638	18.976	1.3170	.41120	.00454	1.0557
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		-10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97128**	**.98047**	**.54241**	**1.0531**	**1.0082**	F **.00058**
Stddev	.00140	.00181	.00213	.0043	.0036	.00004
%RSD	.14419	.18506	.39338	.40629	.35922	7.0524
#1	.97008	.98141	.54004	1.0484	1.0045	.00054
#2	.97093	.97838	.54419	1.0540	1.0084	.00062
#3	.97282	.98163	.54300	1.0568	1.0117	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48808.**	**45437.**
Stddev	155.	341.
%RSD	.31807	.75037
#1	48988.	45808.
#2	48721.	45365.
#3	48717.	45138.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 20:03:28 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.01635**	**.00068**	**.00123**	**-.00044**	**.00001**	**-.00060**
Stddev	.00082	.00044	.00080	.00018	.00010	.00002	.00317
%RSD	317.64	2.6775	117.64	14.736	21.474	108.40	531.42
#1	.00069	.01686	.00043	.00127	-.00034	.00003	-.00353
#2	-.00077	.01607	.00157	.00103	-.00052	.00002	.00278
#3	-.00070	.01614	.00004	.00139	-.00048	.00000	-.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00003**	**-.00049**	**.00014**	**-.00242**	**.16218**	**-.00602**
Stddev	.00008	.00002	.00022	.00035	.00142	.01565	.00034
%RSD	57.672	64.144	43.775	247.33	58.624	9.6507	5.7249
#1	-.00023	.00004	-.00073	.00035	-.00318	.17954	-.00641
#2	-.00012	.00002	-.00044	-.00027	-.00078	.15784	-.00590
#3	-.00007	.00001	-.00031	.00034	-.00331	.14916	-.00575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00891**	**-.00048**	**-.00004**	**-.00441**	**.00121**	**.00041**	**.00076**
Stddev	.00359	.00034	.00014	.00431	.00121	.00119	.00089
%RSD	40.277	69.677	347.96	97.648	100.33	287.18	116.92
#1	-.01070	-.00079	.00000	-.00934	.00250	.00172	.00137
#2	-.00478	-.00054	-.00019	-.00250	.00009	-.00060	.00119
#3	-.01125	-.00012	.00008	-.00139	.00104	.00013	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 20:03:28 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **128.19**	F **.04855**	F **2.8611**	**-.00117**	**-.00210**	**.00071**	**-.00004**
Stddev	54.94	.02581	13.054	.00093	.00012	.00082	.00018
%RSD	42.860	53.169	456.26	79.435	5.5364	114.95	441.99
#1	162.71	.06697	-10.198	-.00101	-.00210	.00121	-.00003
#2	157.03	.05963	15.909	-.00034	-.00221	.00115	.00014
#3	64.834	.01905	2.8723	-.00218	-.00198	-.00023	-.00022
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00101**	**.00095**	**-.00002**	**.00640**	**.00006**
Stddev	.00000	.00085	.00054	.00008	.00793	.00005
%RSD	2.5866	84.945	56.784	418.54	123.74	85.024
#1	-.00008	.00037	.00084	.00006	.01555	.00006
#2	-.00008	.00198	.00047	-.00009	.00155	.00011
#3	-.00009	.00067	.00153	-.00003	.00212	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48988.**	**45337.**
Stddev	63.	114.
%RSD	.12802	.25091
#1	48916.	45272.
#2	49026.	45468.
#3	49023.	45271.

Approved: March 30, 2011

Sample Name: L1103068612SD Acquired: 3/29/2011 20:07:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21946**	**250.89**	**.37267**	**.20281**	**1.7221**	**.01256**	**469.16**
Stddev	.00058	1.03	.00225	.00113	.0115	.00004	3.90
%RSD	.26287	.41085	.60333	.55774	.66614	.32723	.83056
#1	.21967	251.43	.37349	.20317	1.7315	.01251	467.75
#2	.21991	251.53	.37439	.20371	1.7255	.01257	473.57
#3	.21881	249.70	.37013	.20154	1.7094	.01259	466.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03690**	**.16245**	**.37278**	**.45321**	**290.34**	**19.183**	**.19428**
Stddev	.00006	.00040	.00178	.00236	.66	.057	.00115
%RSD	.16922	.24480	.47743	.52000	.22793	.29784	.59127
#1	.03697	.16285	.37144	.45557	289.77	19.200	.19554
#2	.03686	.16244	.37209	.45320	291.06	19.229	.19401
#3	.03687	.16206	.37480	.45085	290.18	19.119	.19330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.440**	**7.4810**	**.01485**	**1.1861**	**.16055**	**15.288**	**.86733**
Stddev	.238	.0286	.00015	.0031	.00050	.045	.00094
%RSD	.89925	.38258	.98217	.26141	.31441	.29505	.10804
#1	26.191	7.4798	.01486	1.1866	.16088	15.328	.86841
#2	26.464	7.5102	.01470	1.1889	.15996	15.297	.86668
#3	26.665	7.4530	.01499	1.1828	.16079	15.239	.86692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068612SD Acquired: 3/29/2011 20:07:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359839-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-96.534**	F **703.99**	F **-68835.**	**.00773**	**.01609**	**2.6943**	**.01584**
Stddev	36.775	2.00	56.	.00162	.00432	.0112	.00024
%RSD	38.095	.28468	.08144	20.969	26.834	.41411	1.5399
#1	-54.184	706.19	-68778.	.00879	.01916	2.7033	.01600
#2	-115.02	703.50	-68890.	.00586	.01115	2.6977	.01596
#3	-120.40	702.28	-68835.	.00853	.01796	2.6818	.01556
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1458**	**.77195**	**.01205**	**.63858**	**1.8774**	**.12214**
Stddev	.0087	.00069	.00199	.00019	.0018	.00022
%RSD	.40753	.08963	16.546	.03051	.09436	.18357
#1	2.1533	.77120	.00975	.63865	1.8776	.12238
#2	2.1479	.77255	.01306	.63873	1.8790	.12193
#3	2.1362	.77211	.01333	.63836	1.8755	.12212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44786.**	**45660.**
Stddev	151.	191.
%RSD	.33814	.41818
#1	44634.	45868.
#2	44785.	45493.
#3	44937.	45620.

Approved: March 30, 2011

Sample Name: L1103068613 Acquired: 3/29/2011 20:10:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00553**	**227.76**	**.14801**	**.18163**	**1.6976**	**.01465**	**488.08**
Stddev	.00071	2.77	.00089	.00072	.0038	.00003	1.72
%RSD	12.918	1.2149	.60044	.39876	.22138	.17325	.35236
#1	.00514	224.66	.14842	.18166	1.7006	.01466	489.85
#2	.00510	229.99	.14699	.18234	1.6989	.01466	486.41
#3	.00636	228.62	.14862	.18089	1.6934	.01462	487.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00717**	**.26980**	**.37854**	**.13317**	**335.80**	**13.264**	**.18051**
Stddev	.00013	.00109	.00247	.00131	1.02	.086	.00066
%RSD	1.8419	.40382	.65126	.98166	.30514	.65156	.36578
#1	.00714	.26864	.37607	.13168	336.68	13.241	.18120
#2	.00731	.27080	.38100	.13375	336.04	13.360	.18047
#3	.00705	.26998	.37854	.13409	334.68	13.192	.17988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.651**	**10.509**	**.01294**	**1.3436**	**.14525**	**4.3467**	**.56628**
Stddev	.055	.037	.00025	.0022	.00168	.0101	.00170
%RSD	.24115	.34758	1.9479	.16647	1.1551	.23166	.29954
#1	22.690	10.526	.01268	1.3459	.14350	4.3378	.56466
#2	22.675	10.534	.01319	1.3414	.14684	4.3576	.56805
#3	22.589	10.467	.01295	1.3435	.14540	4.3446	.56613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068613 Acquired: 3/29/2011 20:10:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-43.436**	F **590.92**	F **-27252.**	**.00581**	**.01730**	**2.6363**	**.01300**
Stddev	55.392	2.44	19.	.00171	.00106	.0056	.00025
%RSD	127.53	.41267	.06852	29.369	6.1115	.21352	1.9337
#1	20.272	588.16	-27254.	.00608	.01711	2.6319	.01320
#2	-70.361	592.77	-27270.	.00399	.01635	2.6427	.01272
#3	-80.218	591.84	-27233.	.00737	.01844	2.6343	.01309
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0678**	**.44740**	**.01323**	**.69263**	**1.2296**	**.15861**
Stddev	.0037	.00100	.00148	.00165	.0046	.00078
%RSD	.17734	.22391	11.168	.23771	.37527	.49292
#1	2.0651	.44809	.01164	.69074	1.2248	.15774
#2	2.0720	.44785	.01456	.69336	1.2340	.15925
#3	2.0663	.44625	.01348	.69379	1.2300	.15884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45411.**	**46761.**
Stddev	102.	323.
%RSD	.22443	.69017
#1	45521.	46469.
#2	45320.	46708.
#3	45392.	47107.

Approved: March 30, 2011

Sample Name: L1103068614 Acquired: 3/29/2011 20:14:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00368**	**139.09**	**.10637**	**.15966**	**1.6045**	**.00898**	F **1172.0**
Stddev	.00024	.43	.00113	.00106	.0165	.00003	18.5
%RSD	6.6505	.30891	1.0621	.66574	1.0283	.30810	1.5808
#1	.00364	138.81	.10660	.15849	1.5935	.00895	1151.1
#2	.00393	138.88	.10515	.16056	1.5964	.00897	1178.6
#3	.00345	139.58	.10738	.15994	1.6235	.00901	1186.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00859**	**.09024**	**.23203**	**.17655**	**183.07**	**13.981**	**.14243**
Stddev	.00009	.00023	.00019	.00043	2.26	.137	.00289
%RSD	1.1041	.25181	.07998	.24209	1.2351	.98078	2.0299
#1	.00868	.09049	.23207	.17679	181.57	13.844	.13928
#2	.00849	.09005	.23220	.17681	181.97	13.982	.14306
#3	.00859	.09018	.23183	.17606	185.67	14.118	.14495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.654**	**6.5883**	**.01081**	**1.2982**	**.12105**	**9.8367**	**.44681**
Stddev	.403	.1118	.00031	.0152	.00038	.0179	.00086
%RSD	1.0174	1.6962	2.8626	1.1676	.31289	.18152	.19145
#1	39.421	6.4913	.01051	1.2826	.12144	9.8490	.44618
#2	39.422	6.5630	.01112	1.2990	.12103	9.8448	.44779
#3	40.120	6.7105	.01079	1.3129	.12069	9.8162	.44646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068614 Acquired: 3/29/2011 20:14:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-34.992**	F **1417.5**	F **-65431.**	**.00770**	**.01692**	**2.5925**	**.01097**
Stddev	28.055	3.9	65.	.00227	.00299	.0043	.00047
%RSD	80.176	.27740	.09908	29.476	17.689	.16725	4.2845
#1	-34.573	1421.6	-65361.	.00522	.01347	2.5960	.01078
#2	-63.254	1417.3	-65488.	.00819	.01879	2.5938	.01063
#3	-7.1485	1413.7	-65445.	.00968	.01850	2.5876	.01151
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.7685**	**.32928**	**.00667**	**.40692**	**1.6810**	**.07762**
Stddev	.0361	.00202	.00107	.00106	.0101	.00055
%RSD	.75642	.61460	16.110	.25971	.60151	.70563
#1	4.7533	.32794	.00562	.40673	1.6857	.07700
#2	4.7425	.32829	.00776	.40598	1.6879	.07803
#3	4.8097	.33161	.00661	.40806	1.6694	.07783
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**43621.**	**45451.**
Stddev	21.	543.
%RSD	.04705	1.1946
#1	43641.	45857.
#2	43621.	45661.
#3	43600.	44834.

Approved: March 30, 2011

Sample Name: L1103068615 Acquired: 3/29/2011 20:18:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00322**	**189.68**	**.10666**	**.15451**	**1.1127**	**.01212**	**174.43**
Stddev	.00044	1.73	.00228	.00096	.0038	.00010	.88
%RSD	13.651	.91074	2.1412	.62353	.34133	.79883	.50360
#1	.00325	188.11	.10532	.15350	1.1089	.01210	173.57
#2	.00364	191.53	.10535	.15462	1.1127	.01204	174.38
#3	.00276	189.40	.10929	.15541	1.1165	.01223	175.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00673**	**.08826**	**.30811**	**.11143**	**272.60**	**11.572**	**.14322**
Stddev	.00003	.00038	.00022	.00054	1.04	.053	.00068
%RSD	.49533	.43031	.07040	.48685	.38050	.46038	.47733
#1	.00676	.08828	.30816	.11092	271.41	11.512	.14243
#2	.00669	.08787	.30831	.11137	273.34	11.591	.14362
#3	.00674	.08863	.30788	.11200	273.04	11.613	.14361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.903**	**4.1824**	**.01243**	**3.4006**	**.11057**	**3.1901**	**.31987**
Stddev	.079	.0224	.00015	.0137	.00033	.0035	.00111
%RSD	.43890	.53661	1.2261	.40326	.29896	.10875	.34826
#1	17.815	4.1571	.01259	3.3944	.11038	3.1927	.32018
#2	17.968	4.1900	.01240	3.3910	.11037	3.1862	.31863
#3	17.924	4.2001	.01229	3.4163	.11095	3.1915	.32079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068615 Acquired: 3/29/2011 20:18:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-33.613**	F **242.53**	F **-20135.**	**.00758**	**.01021**	**1.9773**	**.01204**
Stddev	31.933	.56	31.	.00166	.00158	.0077	.00019
%RSD	95.001	.23076	.15448	21.853	15.431	.38731	1.6103
#1	-.4512	242.17	-20148.	.00888	.01140	1.9774	.01199
#2	-64.155	242.24	-20099.	.00572	.01080	1.9695	.01187
#3	-36.233	243.17	-20157.	.00814	.00842	1.9848	.01225
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.83466**	**.41471**	**.01197**	**.56403**	**.61815**	**.15135**
Stddev	.00351	.00100	.00071	.00126	.00103	.00035
%RSD	.42036	.24158	5.9461	.22262	.16654	.22984
#1	.83205	.41381	.01270	.56516	.61728	.15161
#2	.83328	.41454	.01194	.56425	.61928	.15150
#3	.83865	.41579	.01128	.56268	.61789	.15096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46487.**	**46668.**
Stddev	54.	263.
%RSD	.11649	.56325
#1	46454.	46723.
#2	46550.	46382.
#3	46458.	46898.

Approved: March 30, 2011

Sample Name: L1103068616 Acquired: 3/29/2011 20:21:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00436**	**268.46**	**.11729**	**.21456**	**1.6575**	**.01527**	**84.488**
Stddev	.00039	2.59	.00244	.00054	.0030	.00005	.234
%RSD	9.0410	.96425	2.0775	.25331	.18335	.30006	.27702
#1	.00396	265.60	.11675	.21438	1.6577	.01523	84.713
#2	.00437	269.15	.11517	.21412	1.6604	.01525	84.505
#3	.00474	270.63	.11995	.21517	1.6543	.01532	84.246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00723**	**.11772**	**.43052**	**.16668**	**306.23**	**19.221**	**.17100**
Stddev	.00004	.00025	.00114	.00090	.67	.051	.00130
%RSD	.49705	.21645	.26580	.53937	.21833	.26366	.76281
#1	.00719	.11795	.42958	.16687	305.50	19.269	.17176
#2	.00725	.11745	.43018	.16570	306.81	19.226	.17174
#3	.00726	.11777	.43180	.16747	306.38	19.168	.16949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.435**	**5.6536**	**.01190**	**1.3879**	**.14539**	**9.5014**	**.35672**
Stddev	.100	.0116	.00024	.0017	.00157	.0272	.00127
%RSD	.44500	.20495	2.0286	.12553	1.0830	.28629	.35547
#1	22.320	5.6561	.01198	1.3886	.14642	9.4859	.35743
#2	22.502	5.6637	.01162	1.3859	.14358	9.4856	.35526
#3	22.482	5.6410	.01208	1.3892	.14617	9.5328	.35748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068616 Acquired: 3/29/2011 20:21:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-58.414**	F **321.03**	F **-68306.**	**.00526**	**.01566**	**2.6799**	**.01517**
Stddev	69.531	1.93	190.	.00170	.00110	.0044	.00012
%RSD	119.03	.60163	.27866	32.352	7.0507	.16305	.78722
#1	-136.17	319.15	-68234.	.00683	.01675	2.6769	.01529
#2	-36.871	320.95	-68162.	.00549	.01454	2.6779	.01517
#3	-2.203	323.01	-68522.	.00345	.01569	2.6849	.01505
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52590**	**.39456**	**.01271**	**.60580**	**.97495**	**.14167**
Stddev	.00186	.00095	.00099	.00404	.00208	.00045
%RSD	.35387	.24121	7.7543	.66610	.21298	.31958
#1	.52804	.39565	.01203	.60202	.97327	.14146
#2	.52468	.39387	.01226	.60535	.97727	.14135
#3	.52498	.39417	.01384	.61005	.97431	.14219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46545.**	**46033.**
Stddev	11.	128.
%RSD	.02287	.27775
#1	46550.	45921.
#2	46552.	46004.
#3	46533.	46172.

Approved: March 30, 2011

Sample Name: L1103068617 Acquired: 3/29/2011 20:25:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	**199.10**	**.09879**	**.15979**	**1.1553**	**.01122**	F **2066.1**
Stddev	.00076	1.05	.00060	.00061	.0069	.00004	39.0
%RSD	17.846	.52647	.60684	.38074	.59965	.36904	1.8879
#1	.00375	198.70	.09933	.15980	1.1488	.01119	2109.9
#2	.00386	200.29	.09889	.15917	1.1626	.01127	2035.0
#3	.00511	198.31	.09814	.16039	1.1545	.01121	2053.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00720**	**.13370**	**.28513**	**.12097**	**257.77**	**13.988**	**.24534**
Stddev	.00011	.00003	.00108	.00050	.74	.073	.00062
%RSD	1.4727	.02309	.37990	.41610	.28540	.52209	.25290
#1	.00729	.13368	.28423	.12154	257.34	13.904	.24509
#2	.00724	.13370	.28633	.12078	258.62	14.028	.24604
#3	.00709	.13374	.28483	.12059	257.35	14.033	.24487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**42.024**	**5.8052**	**.00834**	**2.0237**	**.11622**	**5.9271**	**.30563**
Stddev	.106	.0199	.00022	.0064	.00051	.0282	.00198
%RSD	.25272	.34244	2.5875	.31579	.43487	.47648	.64917
#1	42.143	5.7888	.00836	2.0173	.11680	5.9536	.30428
#2	41.989	5.8273	.00812	2.0235	.11584	5.9303	.30791
#3	41.940	5.7995	.00855	2.0301	.11603	5.8974	.30471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068617 Acquired: 3/29/2011 20:25:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.3642**	F **2258.0**	F **-30983.**	**.00734**	**.01399**	**2.6243**	**.01195**
Stddev	43.583	6.6	145.	.00146	.00239	.0071	.00031
%RSD	684.80	.29297	.46783	19.955	17.067	.26998	2.6363
#1	-43.329	2258.8	-30958.	.00874	.01493	2.6316	.01231
#2	24.328	2264.2	-30851.	.00582	.01127	2.6240	.01174
#3	38.094	2251.0	-31138.	.00744	.01576	2.6174	.01179
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.7866**	**.42053**	**.01006**	**.53523**	**.52179**	**.14131**
Stddev	.0869	.00161	.00232	.00218	.00150	.00024
%RSD	.98931	.38318	23.080	.40706	.28825	.16994
#1	8.8811	.41875	.00741	.53376	.52265	.14138
#2	8.7101	.42190	.01101	.53773	.52267	.14150
#3	8.7686	.42093	.01175	.53419	.52006	.14104
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**43032.**	**44527.**
Stddev	105.	419.
%RSD	.24434	.94158
#1	42930.	44090.
#2	43027.	44565.
#3	43140.	44926.

Approved: March 30, 2011

Sample Name: L1103068618 Acquired: 3/29/2011 20:29:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00236**	**200.28**	**.10923**	**.16682**	**1.4843**	**.01213**	**83.900**
Stddev	.00054	.27	.00077	.00059	.0038	.00003	.463
%RSD	22.661	.13419	.70729	.35163	.25528	.27471	.55238
#1	.00276	200.48	.10974	.16715	1.4804	.01212	83.426
#2	.00258	200.38	.10834	.16614	1.4846	.01211	83.920
#3	.00175	199.97	.10961	.16716	1.4879	.01217	84.352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00748**	**.10468**	**.35555**	**.16029**	**258.37**	**15.927**	**.12946**
Stddev	.00003	.00012	.00080	.00036	1.15	.094	.00109
%RSD	.44924	.11818	.22467	.22211	.44602	.58886	.83842
#1	.00745	.10480	.35642	.15988	257.40	15.843	.12823
#2	.00751	.10469	.35485	.16049	258.06	15.910	.12986
#3	.00746	.10455	.35537	.16051	259.64	16.028	.13028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.891**	**5.9178**	**.01179**	**.81714**	**.12469**	**11.401**	**.37766**
Stddev	.145	.0486	.00013	.00425	.00029	.013	.00101
%RSD	.80858	.82200	1.1258	.52006	.23613	.11567	.26767
#1	17.809	5.8665	.01176	.81419	.12484	11.390	.37651
#2	17.806	5.9238	.01168	.81521	.12488	11.397	.37837
#3	18.058	5.9632	.01194	.82201	.12435	11.416	.37812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068618 Acquired: 3/29/2011 20:29:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-34.610**	F **313.82**	F **-65934.**	**.00546**	**.01530**	**1.8264**	**.01434**
Stddev	28.328	1.31	44.	.00195	.00100	.0084	.00009
%RSD	81.850	.41631	.06622	35.733	6.5047	.45815	.59531
#1	-28.447	312.46	-65898.	.00321	.01535	1.8303	.01439
#2	-65.512	313.94	-65983.	.00661	.01627	1.8321	.01438
#3	-9.8706	315.06	-65923.	.00655	.01428	1.8168	.01424
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49815**	**.35977**	**.01010**	**.51857**	**1.2512**	**.10190**
Stddev	.00193	.00075	.00109	.00158	.0044	.00044
%RSD	.38649	.20819	10.762	.30545	.34814	.42758
#1	.49599	.35982	.01004	.51816	1.2504	.10161
#2	.49878	.35899	.00904	.51724	1.2473	.10169
#3	.49969	.36049	.01122	.52033	1.2559	.10240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46843.**	**46255.**
Stddev	106.	445.
%RSD	.22539	.96186
#1	46805.	46375.
#2	46962.	46627.
#3	46761.	45762.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 20:32:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42919**	**10.310**	**.42503**	**.51966**	**1.0114**	**.05193**	**9.7478**
Stddev	.00053	.010	.00128	.00170	.0036	.00007	.0534
%RSD	.12314	.10002	.30148	.32625	.35539	.12613	.54765
#1	.42943	10.321	.42358	.52037	1.0143	.05185	9.7791
#2	.42858	10.300	.42550	.51773	1.0124	.05196	9.7781
#3	.42955	10.310	.42600	.52089	1.0074	.05197	9.6861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05303**	**.21334**	**.51852**	**.53617**	**3.7567**	**50.689**	**1.0268**
Stddev	.00009	.00097	.00093	.00137	.0259	.216	.0047
%RSD	.16120	.45494	.17975	.25503	.69003	.42660	.45632
#1	.05294	.21247	.51941	.53556	3.7731	50.810	1.0322
#2	.05311	.21439	.51861	.53774	3.7702	50.818	1.0246
#3	.05303	.21317	.51755	.53522	3.7268	50.439	1.0237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3377**	**.45273**	**.99059**	**50.207**	**.52007**	F **-.00214**	**.52559**
Stddev	.0744	.00263	.00148	.356	.00030	.00178	.00038
%RSD	.79704	.58202	.14915	.71000	.05677	83.219	.07318
#1	9.3529	.45405	.99215	50.436	.51974	-.00047	.52592
#2	9.4034	.45444	.98921	50.388	.52021	-.00193	.52517
#3	9.2569	.44969	.99041	49.796	.52028	-.00401	.52569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 20:32:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **83.574**	**10.574**	F **-1.6562**	**1.3049**	**.40682**	F **.00480**	**1.0464**
Stddev	63.172	.024	11.171	.0036	.00358	.00037	.0024
%RSD	75.589	.22728	674.49	.27678	.87956	7.7600	.22668
#1	82.191	10.572	-13.973	1.3051	.41030	.00486	1.0451
#2	147.43	10.599	7.8210	1.3083	.40701	.00440	1.0492
#3	21.104	10.551	1.1836	1.3011	.40316	.00514	1.0450
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		-10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98275**	**.99027**	**.53957**	**1.0417**	**1.0025**	F **.00067**
Stddev	.00542	.00408	.00208	.0009	.0018	.00006
%RSD	.55166	.41234	.38598	.08737	.18123	8.8787
#1	.98667	.99202	.53876	1.0424	1.0004	.00060
#2	.98501	.99319	.54194	1.0406	1.0035	.00071
#3	.97656	.98561	.53802	1.0420	1.0036	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49040.**	**44589.**
Stddev	137.	406.
%RSD	.27984	.91013
#1	49197.	44660.
#2	48979.	44153.
#3	48943.	44955.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 20:36:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.01833**	**.00102**	**.00176**	**-.00043**	**.00001**	**.00529**
Stddev	.00066	.00035	.00076	.00069	.00009	.00001	.00332
%RSD	122.84	1.9249	74.914	39.167	20.589	90.627	62.687
#1	-.00085	.01824	.00096	.00162	-.00046	.00001	.00784
#2	-.00097	.01872	.00029	.00251	-.00050	.00002	.00154
#3	.00022	.01803	.00181	.00115	-.00033	.00000	.00648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00002**	**-.00066**	**.00001**	**-.00377**	**.18308**	**-.00780**
Stddev	.00003	.00002	.00032	.00023	.00147	.01216	.00022
%RSD	43.107	100.84	48.754	1610.5	38.917	6.6410	2.8168
#1	-.00009	.00000	-.00033	-.00023	-.00209	.17033	-.00776
#2	-.00003	-.00003	-.00098	.00022	-.00483	.19454	-.00803
#3	-.00007	-.00002	-.00067	.00005	-.00439	.18438	-.00759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00902**	**-.00026**	**-.00004**	**.00222**	**.00113**	**-.00065**	**.00086**
Stddev	.01716	.00040	.00008	.00733	.00030	.00308	.00134
%RSD	190.35	156.68	196.00	330.69	26.382	474.93	156.14
#1	-.02672	.00005	-.00003	.01062	.00112	-.00176	-.00062
#2	.00755	-.00071	.00003	-.00114	.00144	.00283	.00201
#3	-.00788	-.00011	-.00012	-.00283	.00084	-.00302	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 20:36:22 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **112.89**	F **.05692**	F **1.2770**	**-.00090**	**.00084**	**.00083**	**-.00034**
Stddev	70.17	.04433	3.9049	.00049	.00061	.00081	.00030
%RSD	62.163	77.873	305.79	53.877	72.774	97.683	88.218
#1	87.124	.10364	-2.4294	-.00050	.00083	.00148	-.00061
#2	192.30	.01546	.90638	-.00144	.00024	.00110	-.00002
#3	59.236	.05166	5.3540	-.00076	.00146	-.00008	-.00040
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00088**	**.00075**	**-.00017**	**.00519**	**.00007**
Stddev	.00003	.00012	.00093	.00020	.00077	.00012
%RSD	39.418	13.675	124.31	113.72	14.918	174.58
#1	-.00006	.00078	-.00033	-.00005	.00469	.00006
#2	-.00012	.00101	.00133	-.00040	.00608	.00019
#3	-.00008	.00085	.00125	-.00007	.00480	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49240.**	**45140.**
Stddev	10.	273.
%RSD	.01937	.60571
#1	49243.	45454.
#2	49248.	44958.
#3	49229.	45007.

Approved: March 30, 2011

Sample Name: PBS 64 Acquired: 3/29/2011 20:40:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.02192**	**-.00253**	**.00128**	**.00045**	**-.00001**	**.06916**
Stddev	.00023	.00163	.00078	.00012	.00019	.00001	.00075
%RSD	1637.1	7.4510	30.758	9.7267	42.731	46.843	1.0896
#1	-.00025	.02006	-.00183	.00114	.00036	-.00001	.06980
#2	.00018	.02261	-.00239	.00139	.00067	-.00001	.06935
#3	.00010	.02310	-.00337	.00130	.00032	-.00002	.06833
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00043**	**.00072**	**-.00053**	**.00764**	**.17332**	**-.00773**
Stddev	.00003	.00005	.00016	.00013	.00247	.00675	.00029
%RSD	10.447	10.804	22.008	23.975	32.297	3.8950	3.7652
#1	.00024	-.00044	.00090	-.00047	.00777	.16882	-.00788
#2	.00027	-.00046	.00067	-.00044	.00511	.17006	-.00739
#3	.00030	-.00037	.00060	-.00067	.01004	.18108	-.00792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01379**	**-.00033**	**.00029**	**.02544**	**.00220**	F **-.01464**	**.00051**
Stddev	.00137	.00020	.00022	.00451	.00057	.00098	.00048
%RSD	9.9402	59.948	75.977	17.726	25.913	6.7017	94.255
#1	.01309	-.00047	.00006	.02526	.00285	-.01547	.00028
#2	.01291	-.00042	.00050	.02102	.00177	-.01356	.00106
#3	.01537	-.00010	.00032	.03003	.00198	-.01490	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: PBS 64 Acquired: 3/29/2011 20:40:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **30.931**	**.41445**	F **-74.765**	**.00113**	**.00255**	**.01338**	**-.00001**
Stddev	40.677	.01570	10.544	.00048	.00211	.00031	.00008
%RSD	131.51	3.7881	14.103	42.397	82.744	2.3360	1335.8
#1	1.4125	.39633	-67.510	.00111	.00203	.01304	-.00004
#2	77.330	.42386	-86.861	.00067	.00075	.01364	-.00006
#3	14.049	.42317	-69.924	.00163	.00487	.01347	.00008
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00050**	**-.00313**	**-.00019**	**.00728**	**-.00001**
Stddev	.00004	.00036	.00093	.00011	.00057	.00007
%RSD	20.669	72.838	29.645	58.915	7.8202	515.58
#1	.00017	.00015	-.00402	-.00008	.00750	.00004
#2	.00022	.00048	-.00217	-.00030	.00770	-.00010
#3	.00015	.00087	-.00321	-.00020	.00663	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47623.**	**45153.**
Stddev	63.	448.
%RSD	.13182	.99111
#1	47673.	44910.
#2	47553.	44879.
#3	47645.	45669.

Approved: March 30, 2011

Sample Name: LCSS 64 Acquired: 3/29/2011 20:43:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20877**	**.02290**	**.20681**	**.00150**	**.00145**	**.00001**	**.19747**
Stddev	.00125	.00220	.00037	.00064	.00019	.00001	.00566
%RSD	.59808	9.6134	.17728	42.666	13.387	99.990	2.8638
#1	.20856	.02329	.20639	.00139	.00164	.00001	.19100
#2	.20764	.02488	.20705	.00093	.00125	.00002	.20145
#3	.21011	.02053	.20700	.00220	.00145	.00000	.19996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02643**	**-.00036**	**.00054**	**.27341**	**.02198**	**.18739**	**-.00711**
Stddev	.00011	.00016	.00025	.00044	.00136	.00292	.00001
%RSD	.39733	44.501	45.858	.16218	6.2043	1.5601	.18110
#1	.02642	-.00048	.00047	.27323	.02080	.19070	-.00712
#2	.02654	-.00018	.00034	.27391	.02166	.18633	-.00711
#3	.02633	-.00042	.00082	.27308	.02347	.18515	-.00710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07656**	**.23035**	**.00052**	**.06809**	**.00212**	F **-.01521**	**.26440**
Stddev	.00523	.00076	.00004	.00055	.00033	.00226	.00166
%RSD	6.8341	.32925	7.0388	.81231	15.685	14.853	.62688
#1	.07847	.23089	.00050	.06793	.00224	-.01262	.26354
#2	.07065	.22949	.00056	.06870	.00174	-.01677	.26631
#3	.08057	.23068	.00050	.06763	.00237	-.01625	.26335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: LCSS 64 Acquired: 3/29/2011 20:43:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.493**	**.95413**	F **-193.11**	**.00166**	**.00345**	**.02346**	**.00140**
Stddev	53.508	.07810	11.07	.00061	.00128	.00068	.00006
%RSD	87.016	8.1859	5.7308	36.557	36.997	2.8813	4.4018
#1	111.01	.96176	-202.10	.00221	.00277	.02365	.00142
#2	4.7283	1.0281	-196.48	.00175	.00492	.02271	.00146
#3	68.745	.87248	-180.75	.00101	.00266	.02402	.00134
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.00169**	**-.00280**	**.00016**	**.00867**	**.00013**
Stddev	.00000	.00088	.00087	.00034	.00047	.00011
%RSD	.54199	51.968	31.031	205.65	5.3731	82.964
#1	.00081	.00069	-.00371	.00039	.00837	.00025
#2	.00081	.00234	-.00198	.00032	.00921	.00010
#3	.00082	.00203	-.00271	-.00022	.00843	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47502.**	**44645.**
Stddev	102.	487.
%RSD	.21408	1.0914
#1	47385.	44309.
#2	47560.	45203.
#3	47562.	44422.

Approved: March 30, 2011

Sample Name: L1103049909 Acquired: 3/29/2011 20:47:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01391**	**342.12**	**.14430**	**.22438**	**2.2153**	**.01580**	**154.23**
Stddev	.00008	3.41	.00301	.00150	.0045	.00004	.67
%RSD	.56102	.99741	2.0888	.66878	.20513	.27768	.43559
#1	.01393	345.09	.14415	.22442	2.2204	.01578	154.59
#2	.01397	342.88	.14738	.22286	2.2136	.01584	153.46
#3	.01382	338.39	.14136	.22586	2.2118	.01576	154.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10774**	**.13788**	**.34595**	**.79546**	**274.18**	**53.283**	**.24034**
Stddev	.00036	.00033	.00133	.00189	1.04	.149	.00046
%RSD	.33419	.23757	.38411	.23816	.37817	.27878	.19147
#1	.10789	.13791	.34481	.79599	275.31	53.447	.24048
#2	.10800	.13819	.34741	.79704	273.27	53.157	.23983
#3	.10733	.13754	.34561	.79336	273.95	53.245	.24072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.653**	**5.6283**	**.00686**	**2.9373**	**.25125**	**8.8448**	**1.7803**
Stddev	.263	.0335	.00031	.0093	.00008	.0165	.0027
%RSD	.52971	.59477	4.4853	.31625	.03238	.18712	.15227
#1	49.856	5.6545	.00691	2.9365	.25118	8.8434	1.7772
#2	49.356	5.5906	.00714	2.9284	.25134	8.8620	1.7818
#3	49.747	5.6397	.00653	2.9469	.25123	8.8290	1.7820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049909 Acquired: 3/29/2011 20:47:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-104.63**	F **315.89**	F **-46910.**	**.01997**	**.00903**	**1.9116**	**.04351**
Stddev	61.43	.88	45.	.00117	.00250	.0107	.00043
%RSD	58.709	.27780	.09503	5.8566	27.636	.55907	.99065
#1	-76.861	315.32	-46860.	.02132	.00944	1.9226	.04301
#2	-61.996	316.90	-46943.	.01931	.01129	1.9012	.04371
#3	-175.05	315.44	-46928.	.01927	.00635	1.9110	.04380
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.69874**	**.69912**	**.01225**	**.61763**	**13.390**	**.22032**
Stddev	.00348	.00268	.00055	.00196	.021	.00055
%RSD	.49851	.38319	4.5157	.31741	.15890	.25077
#1	.69857	.70180	.01250	.61596	13.370	.22022
#2	.69534	.69644	.01162	.61979	13.412	.21982
#3	.70230	.69910	.01264	.61715	13.390	.22091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47364.**	**48524.**
Stddev	48.	488.
%RSD	.10222	1.0050
#1	47369.	47993.
#2	47313.	48952.
#3	47409.	48628.

Approved: March 30, 2011

Sample Name: L1103049909PS Acquired: 3/29/2011 20:50:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360281-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22926**	**316.11**	**.33410**	**1.2058**	**2.5269**	**.04007**	**146.64**
Stddev	.00077	2.92	.00044	.0040	.0051	.00010	.22
%RSD	.33626	.92417	.13202	.32732	.20016	.25919	.15308
#1	.22866	319.38	.33461	1.2099	2.5219	.04016	146.38
#2	.23013	315.21	.33382	1.2054	2.5320	.03996	146.80
#3	.22899	313.75	.33388	1.2021	2.5268	.04009	146.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12342**	**.22471**	**.56493**	**.96539**	**254.18**	**72.895**	**.72872**
Stddev	.00042	.00030	.00240	.00186	.46	.107	.00173
%RSD	.33990	.13348	.42396	.19248	.18108	.14743	.23693
#1	.12386	.22500	.56664	.96740	253.65	72.773	.72742
#2	.12336	.22473	.56220	.96503	254.47	72.976	.73068
#3	.12303	.22440	.56597	.96374	254.41	72.936	.72807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.684**	**5.4168**	**.50588**	**27.180**	**.47098**	**8.0566**	**1.8516**
Stddev	.204	.0139	.00115	.017	.00083	.0150	.0018
%RSD	.41000	.25645	.22830	.06337	.17650	.18591	.09920
#1	49.468	5.4018	.50673	27.162	.47023	8.0695	1.8513
#2	49.713	5.4292	.50456	27.196	.47187	8.0602	1.8535
#3	49.872	5.4195	.50634	27.181	.47083	8.0401	1.8499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049909PS Acquired: 3/29/2011 20:50:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360281-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-59.865**	F **292.25**	F **-42789.**	**.62813**	**.20646**	**4.3568**	**.03969**
Stddev	62.166	.33	62.	.00215	.00132	.0077	.00043
%RSD	103.84	.11304	.14472	.34300	.63997	.17741	1.0890
#1	-108.95	292.60	-42719.	.63057	.20518	4.3653	.04012
#2	-80.679	291.94	-42815.	.62651	.20782	4.3549	.03969
#3	10.038	292.22	-42834.	.62730	.20637	4.3502	.03925
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1122**	**1.1011**	**.25140**	**1.0732**	**12.632**	**.20025**
Stddev	.0017	.0015	.00232	.0026	.013	.00050
%RSD	.15496	.13919	.92146	.24387	.10399	.24847
#1	1.1109	1.0994	.25405	1.0739	12.643	.20004
#2	1.1142	1.1016	.24975	1.0754	12.637	.19989
#3	1.1116	1.1024	.25041	1.0703	12.618	.20082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47238.**	**47394.**
Stddev	120.	73.
%RSD	.25457	.15464
#1	47115.	47330.
#2	47244.	47377.
#3	47356.	47474.

Approved: March 30, 2011

Sample Name: L1103049909SDL Acquired: 3/29/2011 20:54:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360281-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00276**	**72.826**	**.03436**	**.05133**	**.46641**	**.00331**	**32.757**
Stddev	.00046	1.061	.00187	.00088	.00267	.00003	.148
%RSD	16.730	1.4576	5.4544	1.7138	.57225	1.0082	.45191
#1	.00312	72.297	.03317	.05219	.46333	.00327	32.594
#2	.00292	72.133	.03338	.05137	.46802	.00332	32.795
#3	.00224	74.048	.03652	.05043	.46789	.00333	32.882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02361**	**.03114**	**.07276**	**.18126**	**60.987**	**11.570**	**.04481**
Stddev	.00043	.00067	.00117	.00301	.212	.043	.00101
%RSD	1.8146	2.1539	1.6088	1.6585	.34839	.36749	2.2452
#1	.02320	.03038	.07167	.17826	60.742	11.550	.04416
#2	.02357	.03141	.07261	.18124	61.092	11.541	.04597
#3	.02406	.03164	.07399	.18427	61.125	11.619	.04430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.149**	**1.2633**	**.00125**	**.62002**	**.05732**	**2.0456**	**.42197**
Stddev	.038	.0078	.00014	.00328	.00141	.0297	.00541
%RSD	.34228	.61781	11.036	.52962	2.4660	1.4534	1.2817
#1	11.187	1.2545	.00125	.62361	.05570	2.0134	.41576
#2	11.111	1.2659	.00111	.61718	.05793	2.0515	.42453
#3	11.148	1.2694	.00139	.61926	.05832	2.0719	.42563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049909SDL Acquired: 3/29/2011 20:54:22 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360281-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **50.131**	F **74.164**	F **-10825.**	**.00265**	**.00167**	**.42047**	**.00944**
Stddev	17.484	1.232	142.	.00015	.00118	.00350	.00028
%RSD	34.877	1.6610	1.3076	5.5554	70.290	.83295	2.9209
#1	30.294	72.934	-10674.	.00250	.00058	.41814	.00976
#2	63.302	74.161	-10848.	.00279	.00152	.41878	.00928
#3	56.797	75.398	-10955.	.00267	.00292	.42450	.00929
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14646**	**.14984**	**.00426**	**.12856**	**3.0758**	**.04595**
Stddev	.00051	.00039	.00137	.00157	.0310	.00053
%RSD	.34792	.26048	32.115	1.2215	1.0074	1.1559
#1	.14590	.14969	.00559	.12683	3.0458	.04536
#2	.14658	.15028	.00432	.12895	3.0739	.04612
#3	.14689	.14955	.00286	.12990	3.1077	.04637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50596.**	**47341.**
Stddev	378.	88.
%RSD	.74800	.18621
#1	50964.	47334.
#2	50617.	47432.
#3	50208.	47256.

Approved: March 30, 2011

Sample Name: L1103049909SDL Acquired: 3/29/2011 20:57:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360281-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**13.822**	**.00835**	**.01017**	**.08881**	**.00065**	**6.3071**
Stddev	.00024	.068	.00196	.00078	.00020	.00002	.0245
%RSD	34.664	.49231	23.479	7.6897	.22797	2.5584	.38919
#1	.00045	13.754	.01020	.00951	.08860	.00066	6.2790
#2	.00092	13.823	.00629	.00997	.08882	.00065	6.3247
#3	.00068	13.890	.00856	.01103	.08900	.00063	6.3174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00442**	**.00624**	**.01313**	**.03540**	**11.670**	**2.3626**	**.00383**
Stddev	.00009	.00015	.00002	.00045	.067	.0079	.00041
%RSD	1.9796	2.3968	.13664	1.2852	.57563	.33498	10.599
#1	.00446	.00628	.01311	.03493	11.608	2.3655	.00384
#2	.00432	.00636	.01313	.03584	11.661	2.3687	.00423
#3	.00447	.00607	.01315	.03543	11.741	2.3536	.00342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1352**	**.24466**	**.00008**	**.11242**	**.01101**	**.39844**	**.08287**
Stddev	.0133	.00153	.00005	.00465	.00037	.00406	.00083
%RSD	.62412	.62432	59.475	4.1355	3.3486	1.0192	.99630
#1	2.1274	.24320	.00013	.11008	.01136	.39383	.08191
#2	2.1276	.24625	.00004	.11777	.01105	.40000	.08339
#3	2.1506	.24453	.00006	.10940	.01063	.40149	.08330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049909SDL Acquired: 3/29/2011 20:57:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360281-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **56.715**	F **14.783**	F **-2143.8**	**-.00198**	**-.00056**	**.07823**	**.00135**
Stddev	64.894	.149	10.2	.00028	.00186	.00098	.00010
%RSD	114.42	1.0082	.47801	13.935	335.13	1.2568	7.1246
#1	124.67	14.618	-2135.3	-.00219	.00096	.07937	.00137
#2	50.092	14.821	-2140.9	-.00167	.00001	.07774	.00143
#3	-4.6133	14.909	-2155.2	-.00208	-.00264	.07760	.00124
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02880**	**.02983**	**.00332**	**.02437**	**.60501**	**.00702**
Stddev	.00017	.00083	.00111	.00029	.00415	.00008
%RSD	.60680	2.7900	33.343	1.2022	.68628	1.1410
#1	.02884	.03067	.00394	.02459	.60037	.00704
#2	.02896	.02900	.00398	.02404	.60625	.00708
#3	.02861	.02982	.00204	.02449	.60839	.00693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50329.**	**46913.**
Stddev	167.	327.
%RSD	.33215	.69631
#1	50471.	47290.
#2	50370.	46720.
#3	50145.	46729.

Approved: March 30, 2011

Sample Name: L1103049910 Acquired: 3/29/2011 21:01:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01526**	**305.14**	**.17054**	**.20074**	**1.9778**	**.01407**	**63.468**
Stddev	.00047	2.15	.00100	.00025	.0078	.00001	.381
%RSD	3.0973	.70358	.58663	.12336	.39659	.06243	.60036
#1	.01578	306.66	.17154	.20103	1.9863	.01407	63.858
#2	.01486	306.09	.17054	.20061	1.9761	.01408	63.451
#3	.01514	302.68	.16954	.20058	1.9709	.01407	63.097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12100**	**.15021**	**.31450**	**.72134**	**238.21**	**47.494**	**.20700**
Stddev	.00021	.00037	.00046	.00172	.57	.214	.00106
%RSD	.17071	.24756	.14533	.23851	.23838	.45125	.50980
#1	.12122	.15057	.31405	.72332	238.65	47.712	.20703
#2	.12081	.14983	.31497	.72032	237.57	47.485	.20805
#3	.12097	.15025	.31448	.72037	238.42	47.284	.20594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.938**	**6.3186**	**.00839**	**2.6501**	**.20810**	**7.2036**	**1.3596**
Stddev	.074	.0368	.00028	.0216	.00064	.0069	.0037
%RSD	.18882	.58307	3.2767	.81646	.30830	.09597	.27098
#1	38.891	6.3611	.00859	2.6674	.20774	7.2108	1.3575
#2	38.900	6.2953	.00808	2.6570	.20772	7.2031	1.3575
#3	39.023	6.2993	.00851	2.6258	.20884	7.1970	1.3639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049910 Acquired: 3/29/2011 21:01:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-203.05**	F **192.82**	F **-36603.**	**.02025**	**.00945**	**2.0722**	**.03971**
Stddev	31.64	1.07	73.	.00058	.00144	.0121	.00011
%RSD	15.580	.55375	.19849	2.8574	15.251	.58364	.28645
#1	-223.09	194.03	-36682.	.02085	.01083	2.0697	.03960
#2	-219.47	192.43	-36539.	.02021	.00957	2.0854	.03983
#3	-166.58	192.01	-36588.	.01970	.00796	2.0616	.03969
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49643**	**.96340**	**.01141**	**.60069**	**11.826**	**.17393**
Stddev	.00310	.00234	.00098	.00020	.027	.00054
%RSD	.62478	.24324	8.5949	.03299	.22707	.30885
#1	.49921	.96479	.01253	.60092	11.798	.17454
#2	.49699	.96472	.01072	.60056	11.830	.17371
#3	.49308	.96070	.01097	.60059	11.851	.17354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47163.**	**47944.**
Stddev	178.	434.
%RSD	.37753	.90606
#1	46987.	47443.
#2	47159.	48224.
#3	47343.	48163.

Approved: March 30, 2011

Sample Name: L1103049911 Acquired: 3/29/2011 21:05:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01047**	**285.18**	**.12211**	**.22983**	**2.6813**	**.01308**	**81.072**
Stddev	.00034	1.28	.00100	.00056	.0088	.00009	.332
%RSD	3.2652	.44866	.81782	.24427	.32819	.72509	.41012
#1	.01086	284.05	.12099	.22919	2.6850	.01298	81.325
#2	.01037	286.57	.12244	.23024	2.6877	.01312	81.195
#3	.01019	284.93	.12290	.23006	2.6713	.01315	80.696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12198**	**.14217**	**.34506**	**.72775**	**245.59**	**59.502**	**.21856**
Stddev	.00054	.00138	.00125	.00370	.50	.101	.00213
%RSD	.44363	.97152	.36148	.50808	.20377	.16897	.97266
#1	.12146	.14063	.34368	.72456	245.12	59.495	.22037
#2	.12195	.14262	.34537	.72690	246.12	59.605	.21909
#3	.12254	.14328	.34612	.73180	245.55	59.404	.21622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**53.949**	**5.3732**	**.00997**	**2.3960**	**.23314**	**19.768**	**1.6177**
Stddev	.112	.0210	.00009	.0104	.00186	.056	.0047
%RSD	.20763	.39030	.85772	.43282	.79758	.28164	.29172
#1	53.835	5.3716	.01007	2.4040	.23109	19.715	1.6135
#2	53.952	5.3949	.00991	2.3996	.23362	19.763	1.6168
#3	54.059	5.3530	.00993	2.3843	.23472	19.826	1.6228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049911 Acquired: 3/29/2011 21:05:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-51.688**	F **313.04**	F **-66567.**	**.02188**	**.01145**	**2.1102**	**.10152**
Stddev	31.414	2.83	206.	.00216	.00107	.0108	.00102
%RSD	60.776	.90262	.30966	9.8572	9.3177	.51383	1.0033
#1	-61.740	310.90	-66412.	.02103	.01052	2.1010	.10035
#2	-76.846	311.98	-66487.	.02433	.01120	2.1222	.10201
#3	-16.479	316.24	-66801.	.02028	.01261	2.1075	.10221
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.60591**	**.78679**	**.00900**	**.50563**	**12.697**	**.13326**
Stddev	.00335	.00153	.00194	.00134	.040	.00034
%RSD	.55321	.19460	21.617	.26430	.31278	.25361
#1	.60936	.78846	.00805	.50412	12.654	.13297
#2	.60569	.78647	.01123	.50614	12.703	.13319
#3	.60267	.78545	.00770	.50664	12.733	.13363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46925.**	**46966.**
Stddev	84.	115.
%RSD	.17846	.24528
#1	46954.	46878.
#2	46991.	46923.
#3	46831.	47096.

Approved: March 30, 2011

Sample Name: L1103049912 Acquired: 3/29/2011 21:08:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01329**	**290.40**	**.15100**	**.25435**	**2.6998**	**.01348**	**90.299**
Stddev	.00017	2.39	.00071	.00183	.0054	.00008	.262
%RSD	1.2975	.82190	.46748	.71866	.20049	.58304	.29008
#1	.01310	293.15	.15045	.25227	2.6938	.01344	90.268
#2	.01345	288.87	.15076	.25509	2.7013	.01343	90.575
#3	.01331	289.17	.15180	.25569	2.7043	.01357	90.054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21969**	**.12837**	**.32876**	**1.1910**	**306.87**	**53.712**	**.19638**
Stddev	.00113	.00036	.00178	.0065	.24	.144	.00086
%RSD	.51250	.27904	.54218	.54880	.07932	.26778	.43542
#1	.21894	.12806	.32804	1.1855	306.63	53.616	.19609
#2	.21915	.12829	.32744	1.1892	307.11	53.878	.19571
#3	.22099	.12876	.33079	1.1982	306.87	53.643	.19735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**44.601**	**5.5742**	**.00828**	**2.8031**	**.25356**	**26.017**	**2.5576**
Stddev	.206	.0069	.00032	.0057	.00048	.057	.0046
%RSD	.46295	.12283	3.8154	.20184	.18796	.21774	.17941
#1	44.692	5.5741	.00863	2.8074	.25302	25.963	2.5529
#2	44.746	5.5811	.00802	2.8053	.25393	26.012	2.5579
#3	44.364	5.5674	.00819	2.7967	.25373	26.076	2.5621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049912 Acquired: 3/29/2011 21:08:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-66.309**	F **281.09**	F **-54787.**	**.03429**	**.00788**	**2.1423**	**.18937**
Stddev	40.725	1.72	140.	.00107	.00302	.0044	.00205
%RSD	61.416	.61267	.25591	3.1130	38.266	.20504	1.0839
#1	-112.93	280.06	-54687.	.03454	.00445	2.1373	.18776
#2	-37.662	280.13	-54728.	.03520	.00910	2.1445	.18867
#3	-48.338	283.08	-54948.	.03312	.01009	2.1452	.19168
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.71347**	**.72620**	**.01041**	**.51608**	**20.919**	**.14536**
Stddev	.00323	.00145	.00085	.00030	.012	.00101
%RSD	.45334	.20020	8.2028	.05863	.05584	.69528
#1	.71349	.72601	.01029	.51603	20.931	.14429
#2	.71669	.72774	.01132	.51580	20.907	.14548
#3	.71022	.72485	.00962	.51640	20.920	.14630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46886.**	**47369.**
Stddev	26.	548.
%RSD	.05557	1.1575
#1	46891.	46891.
#2	46908.	47250.
#3	46857.	47967.

Approved: March 30, 2011

Sample Name: L1103049913 Acquired: 3/29/2011 21:12:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01910**	**363.82**	**.15234**	**.28478**	**4.0203**	**.01521**	**90.319**
Stddev	.00050	2.37	.00089	.00075	.0067	.00002	.192
%RSD	2.6030	.65146	.58481	.26331	.16577	.16222	.21289
#1	.01853	361.09	.15316	.28478	4.0279	.01520	90.540
#2	.01946	365.34	.15139	.28403	4.0161	.01520	90.196
#3	.01930	365.03	.15246	.28553	4.0168	.01524	90.220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18515**	**.15266**	**.36915**	**1.1824**	**302.63**	**66.674**	**.24625**
Stddev	.00086	.00048	.00159	.0057	.23	.137	.00079
%RSD	.46261	.31352	.43177	.47841	.07644	.20543	.32275
#1	.18511	.15266	.36849	1.1826	302.89	66.801	.24628
#2	.18431	.15218	.36799	1.1767	302.56	66.694	.24545
#3	.18602	.15314	.37096	1.1880	302.44	66.529	.24704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**54.876**	**6.3518**	**.01075**	**2.4462**	**.26127**	**16.753**	**2.9242**
Stddev	.029	.0148	.00035	.0054	.00122	.038	.0029
%RSD	.05195	.23289	3.2465	.22124	.46713	.22932	.09931
#1	54.855	6.3675	.01055	2.4524	.26192	16.740	2.9262
#2	54.908	6.3498	.01055	2.4439	.25986	16.723	2.9209
#3	54.865	6.3381	.01115	2.4423	.26202	16.796	2.9256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049913 Acquired: 3/29/2011 21:12:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-41.395**	F **324.97**	F **-67444.**	**.03498**	**.01015**	**1.8709**	**.16680**
Stddev	10.105	1.43	52.	.00138	.00181	.0086	.00071
%RSD	24.411	.43937	.07779	3.9428	17.838	.45905	.42374
#1	-52.657	325.52	-67412.	.03357	.00965	1.8649	.16652
#2	-38.404	323.35	-67417.	.03503	.01215	1.8808	.16760
#3	-33.122	326.05	-67505.	.03633	.00864	1.8671	.16628
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.74048**	**1.0810**	**.01220**	**.60512**	**19.164**	**.15988**
Stddev	.00185	.0015	.00051	.00040	.020	.00039
%RSD	.25045	.14381	4.2069	.06626	.10285	.24475
#1	.74258	1.0823	.01161	.60521	19.187	.16010
#2	.73908	1.0814	.01244	.60468	19.155	.15943
#3	.73978	1.0793	.01255	.60546	19.151	.16012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46766.**	**46715.**
Stddev	58.	326.
%RSD	.12506	.69695
#1	46704.	46410.
#2	46820.	46676.
#3	46776.	47058.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 21:15:49 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .44088	10.482	.43194	.53092	1.0069	.05344	9.5910
Stddev	.00126	.015	.00223	.00087	.0014	.00014	.0293
%RSD	.28501	.14666	.51611	.16376	.13633	.26390	.30514
#1	.44181	10.481	.43049	.52992	1.0061	.05359	9.6011
#2	.44137	10.498	.43450	.53142	1.0061	.05331	9.5580
#3	.43945	10.467	.43082	.53143	1.0085	.05342	9.6139
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05424	.21797	.53331	.54711	3.7438	50.342	1.0264
Stddev	.00012	.00045	.00060	.00152	.0047	.106	.0007
%RSD	.22117	.20425	.11171	.27731	.12453	.21014	.06859
#1	.05422	.21746	.53354	.54549	3.7407	50.352	1.0263
#2	.05437	.21820	.53263	.54736	3.7416	50.232	1.0258
#3	.05414	.21826	.53375	.54849	3.7492	50.443	1.0272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.3010	F .44445	1.0120	49.642	.52941	F -.00235	.53457
Stddev	.0462	.00168	.0015	.107	.00086	.00209	.00144
%RSD	.49634	.37850	.14565	.21512	.16287	89.197	.26972
#1	9.3287	.44405	1.0105	49.723	.52870	-.00283	.53308
#2	9.2477	.44301	1.0134	49.521	.53037	-.00416	.53596
#3	9.3266	.44630	1.0121	49.683	.52916	-.00005	.53467
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 21:15:49 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **175.67**	**10.719**	F **-2.4765**	F **1.3291**	**.41729**	F **.00396**	**1.0654**
Stddev	38.41	.014	18.311	.0046	.00251	.00062	.0016
%RSD	21.864	.12834	739.38	.34267	.60032	15.705	.15337
#1	184.94	10.706	-23.620	1.3239	.41946	.00327	1.0640
#2	133.47	10.718	8.1531	1.3313	.41455	.00448	1.0650
#3	208.59	10.733	8.0371	1.3322	.41787	.00415	1.0672
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000	1.2000		5.0000	
Range	10.000%		-10.000%	10.000%		-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96967**	**.98909**	**.54953**	**1.0665**	**1.0203**	F **.00062**
Stddev	.00175	.00236	.00253	.0017	.0021	.00003
%RSD	.18062	.23874	.46074	.16116	.20744	5.2342
#1	.96964	.99149	.54719	1.0663	1.0186	.00061
#2	.96793	.98677	.55222	1.0649	1.0196	.00066
#3	.97143	.98901	.54918	1.0683	1.0226	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48292.**	**44955.**
Stddev	62.	219.
%RSD	.12774	.48683
#1	48286.	44801.
#2	48356.	45206.
#3	48233.	44859.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 21:19:13 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.01724**	**.00118**	**.00127**	**-.00043**	**-.00001**	**.00311**
Stddev	.00047	.00077	.00078	.00087	.00013	.00000	.00926
%RSD	203.98	4.4799	65.740	68.182	30.480	26.342	297.51
#1	-.00009	.01664	.00102	.00104	-.00057	.00000	.00984
#2	-.00075	.01811	.00050	.00223	-.00032	-.00001	.00694
#3	.00016	.01696	.00203	.00055	-.00040	-.00001	-.00745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00009**	**-.00075**	**.00003**	**-.00186**	**.23055**	**-.00996**
Stddev	.00008	.00008	.00038	.00040	.00094	.02250	.00121
%RSD	481.14	86.527	50.570	1260.5	50.407	9.7612	12.189
#1	-.00001	.00014	-.00070	-.00019	-.00259	.25602	-.01041
#2	.00006	.00015	-.00114	-.00020	-.00220	.22228	-.00859
#3	-.00010	.00000	-.00039	.00049	-.00080	.21335	-.01089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02290**	**-.00056**	**-.00002**	**-.00510**	**.00092**	**-.00015**	**-.00106**
Stddev	.01327	.00013	.00019	.00513	.00010	.00121	.00042
%RSD	57.957	23.719	1167.0	100.66	10.736	808.81	39.976
#1	-.02666	-.00041	.00016	-.01013	.00084	.00120	-.00119
#2	-.00815	-.00061	.00000	-.00528	.00103	-.00114	-.00140
#3	-.03388	-.00067	-.00021	.00013	.00088	-.00050	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 21:19:13 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **137.04**	F **.04761**	F **-2.7266**	**-.00135**	**-.00027**	**-.00028**	**-.00023**
Stddev	66.73	.06475	12.496	.00159	.00052	.00046	.00020
%RSD	48.691	136.01	458.30	117.53	191.68	163.98	87.750
#1	175.61	.11804	-1.7141	-.00194	.00032	-.00019	-.00002
#2	175.52	-.00934	9.2325	.00045	-.00047	-.00077	-.00026
#3	59.992	.03412	-15.698	-.00256	-.00065	.00013	-.00042
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00063**	**.00016**	**.00003**	**.00420**	**.00011**
Stddev	.00001	.00034	.00056	.00006	.00064	.00004
%RSD	6.8329	53.991	350.05	230.74	15.245	36.174
#1	-.00013	.00054	.00080	-.00003	.00366	.00014
#2	-.00011	.00100	-.00006	.00002	.00491	.00007
#3	-.00012	.00034	-.00026	.00010	.00404	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48560.**	**44733.**
Stddev	85.	189.
%RSD	.17558	.42239
#1	48650.	44877.
#2	48552.	44803.
#3	48480.	44519.

Approved: March 30, 2011

Sample Name: L1103049914 Acquired: 3/29/2011 21:22:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01829**	**375.26**	**.19704**	**.26508**	**3.0364**	**.01665**	**103.71**
Stddev	.00087	2.79	.00211	.00049	.0123	.00005	.74
%RSD	4.7359	.74380	1.0688	.18419	.40401	.32168	.71476
#1	.01738	374.60	.19654	.26452	3.0440	.01670	104.33
#2	.01911	378.32	.19523	.26545	3.0429	.01665	103.90
#3	.01837	372.85	.19936	.26527	3.0222	.01659	102.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20876**	**.17579**	**.38338**	**1.1973**	**322.09**	**61.140**	**.27815**
Stddev	.00060	.00056	.00166	.0036	1.08	.308	.00156
%RSD	.28899	.31804	.43291	.29632	.33431	.50360	.56184
#1	.20938	.17615	.38150	1.2002	322.73	61.409	.27897
#2	.20871	.17609	.38396	1.1982	322.69	61.207	.27913
#3	.20818	.17515	.38466	1.1933	320.84	60.804	.27635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**57.081**	**6.6387**	**.01065**	**2.7892**	**.28047**	**16.363**	**2.9519**
Stddev	.047	.0483	.00014	.0213	.00175	.040	.0105
%RSD	.08232	.72673	1.3550	.76501	.62521	.24180	.35681
#1	57.101	6.6776	.01056	2.8136	.28103	16.406	2.9565
#2	57.114	6.6538	.01081	2.7799	.28188	16.354	2.9593
#3	57.027	6.5847	.01056	2.7740	.27851	16.329	2.9398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049914 Acquired: 3/29/2011 21:22:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-137.94**	F **277.43**	F **-50719.**	**.04166**	**.01006**	**2.0569**	**.09118**
Stddev	46.25	.60	33.	.00282	.00286	.0040	.00031
%RSD	33.529	.21621	.06412	6.7745	28.392	.19271	.33550
#1	-93.977	277.76	-50697.	.04391	.00677	2.0524	.09138
#2	-133.66	277.79	-50756.	.03849	.01160	2.0590	.09083
#3	-186.18	276.74	-50703.	.04257	.01182	2.0595	.09134
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.70986**	**.90666**	**.01293**	**.63358**	**23.632**	**.16770**
Stddev	.00516	.00163	.00055	.00150	.172	.00049
%RSD	.72697	.17956	4.2723	.23718	.72963	.29216
#1	.71441	.90850	.01343	.63525	23.788	.16736
#2	.71093	.90606	.01234	.63316	23.661	.16826
#3	.70425	.90541	.01301	.63233	23.446	.16747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46697.**	**47886.**
Stddev	140.	546.
%RSD	.29911	1.1400
#1	46663.	47304.
#2	46578.	47965.
#3	46851.	48388.

Approved: March 30, 2011

Sample Name: L1103049915 Acquired: 3/29/2011 21:26:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00621**	**303.32**	**.12630**	**.18458**	**2.1651**	**.01865**	**73.537**
Stddev	.00075	1.38	.00109	.00137	.0091	.00007	.220
%RSD	12.006	.45409	.86230	.74065	.41948	.38912	.29912
#1	.00658	302.61	.12560	.18395	2.1710	.01857	73.539
#2	.00670	302.46	.12756	.18364	2.1547	.01871	73.316
#3	.00535	304.91	.12575	.18614	2.1698	.01868	73.756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05054**	**.13731**	**.30020**	**.51113**	**302.47**	**46.881**	**.22094**
Stddev	.00048	.00121	.00078	.00191	.82	.109	.00153
%RSD	.94107	.88222	.25962	.37462	.27107	.23255	.69301
#1	.05010	.13627	.29957	.50894	301.80	46.871	.22261
#2	.05047	.13701	.30107	.51247	302.21	46.777	.21961
#3	.05105	.13864	.29996	.51199	303.38	46.994	.22059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**46.641**	**5.1766**	**.00776**	**2.3763**	**.31102**	**7.6147**	**.88814**
Stddev	.339	.0223	.00008	.0097	.00171	.0155	.00602
%RSD	.72653	.43166	1.0170	.40662	.55103	.20294	.67799
#1	46.252	5.1603	.00785	2.3686	.30918	7.6026	.88339
#2	46.799	5.1674	.00772	2.3731	.31130	7.6321	.88612
#3	46.873	5.2021	.00771	2.3871	.31257	7.6094	.89491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049915 Acquired: 3/29/2011 21:26:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-67.945**	F **192.76**	F **-34242.**	**.01458**	**.00730**	**2.3793**	**.03890**
Stddev	107.15	1.12	161.	.00332	.00277	.0083	.00026
%RSD	157.70	.58110	.46963	22.803	37.894	.35020	.66088
#1	21.915	191.48	-34120.	.01404	.00438	2.3716	.03861
#2	-39.220	193.56	-34181.	.01814	.00988	2.3881	.03897
#3	-186.53	193.24	-34424.	.01156	.00765	2.3781	.03911
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.57357**	**.25461**	**.01069**	**.53228**	**5.0601**	**.15240**
Stddev	.00122	.00077	.00212	.00146	.0093	.00045
%RSD	.21225	.30127	19.788	.27414	.18295	.29439
#1	.57382	.25424	.00936	.53068	5.0510	.15224
#2	.57224	.25549	.00958	.53262	5.0695	.15205
#3	.57464	.25410	.01313	.53353	5.0597	.15291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47334.**	**48406.**
Stddev	95.	96.
%RSD	.20026	.19928
#1	47442.	48494.
#2	47261.	48303.
#3	47300.	48419.

Approved: March 30, 2011

Sample Name: L1103049916 Acquired: 3/29/2011 21:30:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00941**	**429.00**	**.15976**	**.40621**	**2.7475**	**.02711**	**95.886**
Stddev	.00102	8.21	.00129	.00033	.0123	.00008	.266
%RSD	10.809	1.9129	.80834	.08146	.44822	.30458	.27736
#1	.00908	438.14	.16000	.40653	2.7566	.02701	96.062
#2	.00861	422.25	.15836	.40587	2.7524	.02715	96.016
#3	.01056	426.61	.16091	.40623	2.7335	.02716	95.580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08461**	**.18624**	**.39430**	**.67715**	**322.84**	**56.801**	**.29872**
Stddev	.00032	.00077	.00104	.00221	.99	.127	.00120
%RSD	.37377	.41209	.26451	.32665	.30744	.22332	.40325
#1	.08465	.18648	.39337	.67848	323.56	56.931	.30009
#2	.08490	.18687	.39543	.67838	323.24	56.792	.29824
#3	.08427	.18539	.39410	.67460	321.71	56.678	.29783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**51.932**	**6.6960**	**.01442**	**4.1028**	**.32400**	**10.014**	**1.4637**
Stddev	.049	.0216	.00010	.0051	.00083	.019	.0006
%RSD	.09514	.32216	.72338	.12534	.25717	.18804	.04345
#1	51.985	6.7094	.01447	4.1086	.32495	10.022	1.4644
#2	51.888	6.7074	.01449	4.1010	.32340	10.027	1.4635
#3	51.921	6.6711	.01430	4.0988	.32365	9.9923	1.4632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049916 Acquired: 3/29/2011 21:30:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-126.63**	F **234.97**	F **-40008.**	**.01789**	**.00659**	**1.7860**	**.04849**
Stddev	85.01	1.49	150.	.00129	.00347	.0037	.00060
%RSD	67.130	.63213	.37425	7.2253	52.673	.20923	1.2464
#1	-223.31	236.21	-40120.	.01857	.00783	1.7875	.04918
#2	-63.594	235.39	-40065.	.01871	.00267	1.7887	.04804
#3	-92.989	233.33	-39838.	.01640	.00928	1.7817	.04827
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.83215**	**.65663**	**.01371**	**.70305**	**9.7844**	**.20711**
Stddev	.00133	.00218	.00124	.00391	.0209	.00029
%RSD	.15947	.33258	9.0311	.55614	.21313	.13812
#1	.83296	.65909	.01514	.69867	9.8025	.20744
#2	.83287	.65588	.01295	.70620	9.7891	.20692
#3	.83062	.65492	.01303	.70427	9.7616	.20696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47801.**	**48704.**
Stddev	100.	303.
%RSD	.20939	.62218
#1	47690.	48355.
#2	47829.	48857.
#3	47884.	48901.

Approved: March 30, 2011

Sample Name: L1103049917 Acquired: 3/29/2011 21:33:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01226**	**260.44**	**.14431**	**.27372**	**2.6722**	**.01541**	**81.087**
Stddev	.00063	.67	.00112	.00091	.0045	.00003	.230
%RSD	5.1602	.25607	.77409	.33309	.16650	.17626	.28380
#1	.01170	259.94	.14545	.27291	2.6765	.01542	81.160
#2	.01213	260.18	.14322	.27354	2.6676	.01538	80.829
#3	.01294	261.20	.14426	.27470	2.6725	.01544	81.272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14810**	**.14225**	**.30236**	**1.0430**	**255.05**	**51.784**	**.17912**
Stddev	.00034	.00064	.00132	.0013	.61	.155	.00153
%RSD	.22737	.44939	.43544	.12448	.24108	.29989	.85626
#1	.14848	.14201	.30366	1.0441	254.78	51.781	.18046
#2	.14790	.14298	.30103	1.0433	254.62	51.629	.17745
#3	.14790	.14177	.30239	1.0416	255.76	51.940	.17946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**42.118**	**5.5745**	**.01044**	**3.1336**	**.23796**	**19.304**	**2.2102**
Stddev	.132	.0230	.00019	.0047	.00218	.026	.0027
%RSD	.31458	.41199	1.8483	.14918	.91683	.13444	.12398
#1	41.982	5.5703	.01029	3.1389	.23742	19.332	2.2071
#2	42.126	5.5539	.01066	3.1319	.24036	19.298	2.2118
#3	42.247	5.5992	.01038	3.1300	.23610	19.281	2.2118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049917 Acquired: 3/29/2011 21:33:36 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **14.882**	F **298.11**	F **-61171.**	**.03100**	**.01134**	**1.9417**	**.10789**
Stddev	16.997	.33	150.	.00087	.00092	.0099	.00071
%RSD	114.21	.11087	.24510	2.8058	8.1348	.50793	.65600
#1	-4.6325	298.38	-61326.	.03166	.01134	1.9409	.10848
#2	22.834	298.21	-61161.	.03001	.01226	1.9519	.10808
#3	26.446	297.75	-61027.	.03132	.01042	1.9323	.10710
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.66826**	**.50303**	**.00864**	**.46647**	**15.988**	**.11618**
Stddev	.00160	.00117	.00160	.00118	.054	.00015
%RSD	.23890	.23306	18.534	.25399	.33793	.13331
#1	.66914	.50372	.01000	.46557	15.926	.11610
#2	.66641	.50167	.00906	.46603	16.018	.11608
#3	.66921	.50369	.00687	.46781	16.020	.11636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47325.**	**48103.**
Stddev	87.	104.
%RSD	.18418	.21527
#1	47271.	48035.
#2	47279.	48222.
#3	47426.	48052.

Approved: March 30, 2011

Sample Name: L1103049918 Acquired: 3/29/2011 21:37:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00416**	**223.45**	**.12902**	**.13509**	**1.5779**	**.01446**	**60.725**
Stddev	.00029	.86	.00042	.00140	.0086	.00003	.247
%RSD	6.8580	.38587	.32511	1.0366	.54500	.23604	.40623
#1	.00405	224.32	.12878	.13409	1.5747	.01450	60.801
#2	.00448	223.45	.12879	.13449	1.5713	.01443	60.449
#3	.00394	222.59	.12951	.13669	1.5876	.01447	60.925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07093**	**.11588**	**.24585**	**.48797**	**195.47**	**39.142**	**.15244**
Stddev	.00007	.00025	.00039	.00136	1.15	.175	.00038
%RSD	.09844	.21735	.15909	.27819	.58886	.44598	.25240
#1	.07098	.11597	.24625	.48834	195.06	39.144	.15252
#2	.07095	.11559	.24582	.48910	194.57	38.967	.15278
#3	.07085	.11607	.24547	.48646	196.77	39.316	.15202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.433**	**4.3038**	**.00705**	**3.1377**	**.18222**	**11.314**	**.73118**
Stddev	.160	.0280	.00016	.0056	.00176	.019	.00212
%RSD	.46402	.65064	2.2948	.17743	.96424	.16589	.29053
#1	34.393	4.3008	.00696	3.1420	.18312	11.325	.73243
#2	34.297	4.2774	.00696	3.1314	.18335	11.324	.73239
#3	34.609	4.3332	.00724	3.1396	.18020	11.292	.72873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049918 Acquired: 3/29/2011 21:37:07 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-29.528**	F **190.19**	F **-37831.**	**.01537**	**.00912**	**2.0322**	**.03428**
Stddev	52.134	.62	230.	.00253	.00137	.0133	.00036
%RSD	176.56	.32565	.60901	16.451	14.992	.65473	1.0437
#1	8.4343	189.56	-38097.	.01406	.01024	2.0397	.03449
#2	-8.0470	190.20	-37687.	.01828	.00952	2.0168	.03448
#3	-88.970	190.80	-37709.	.01376	.00760	2.0401	.03387
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48571**	**.26013**	**.00902**	**.50346**	**9.3976**	**.13754**
Stddev	.00117	.00125	.00189	.00200	.0081	.00052
%RSD	.24116	.48025	20.972	.39729	.08609	.37655
#1	.48704	.26075	.01088	.50551	9.4050	.13713
#2	.48484	.26094	.00909	.50334	9.3988	.13736
#3	.48525	.25869	.00709	.50152	9.3890	.13812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48468.**	**47800.**
Stddev	93.	433.
%RSD	.19143	.90608
#1	48362.	47545.
#2	48535.	48300.
#3	48507.	47555.

Approved: March 30, 2011

Sample Name: L1103049919 Acquired: 3/29/2011 21:40:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01538**	**319.27**	**.14205**	**.26134**	**2.2580**	**.01285**	**188.65**
Stddev	.00028	1.92	.00145	.00107	.0069	.00005	.47
%RSD	1.8120	.60156	1.0198	.40872	.30321	.40979	.24732
#1	.01570	319.02	.14075	.26067	2.2502	.01287	188.11
#2	.01524	321.30	.14362	.26079	2.2615	.01280	188.90
#3	.01519	317.49	.14179	.26257	2.2625	.01290	188.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11832**	**.13771**	**.31836**	**.80356**	**240.96**	**58.894**	**.22919**
Stddev	.00053	.00037	.00207	.00386	.97	.062	.00175
%RSD	.45201	.27167	.65139	.47991	.40177	.10503	.76281
#1	.11812	.13769	.31803	.80054	240.19	58.831	.22720
#2	.11792	.13735	.31648	.80225	240.64	58.896	.22987
#3	.11893	.13809	.32058	.80790	242.05	58.955	.23049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.671**	**6.0455**	**.00815**	**2.5981**	**.21868**	**12.423**	**1.6719**
Stddev	.263	.0254	.00016	.0047	.00112	.024	.0058
%RSD	.54136	.41962	1.9097	.18198	.51431	.19230	.34959
#1	48.532	6.0190	.00821	2.5926	.21752	12.406	1.6657
#2	48.506	6.0477	.00827	2.6012	.21876	12.413	1.6726
#3	48.975	6.0696	.00797	2.6003	.21977	12.451	1.6774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049919 Acquired: 3/29/2011 21:40:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-72.254**	F **392.42**	F **-58758.**	**.02521**	**.01102**	**2.1038**	**.04888**
Stddev	64.595	2.21	87.	.00094	.00124	.0135	.00014
%RSD	89.400	.56436	.14838	3.7100	11.296	.64010	.28670
#1	-77.257	391.22	-58683.	.02628	.00958	2.1059	.04888
#2	-5.3028	391.06	-58737.	.02456	.01174	2.0895	.04875
#3	-134.20	394.97	-58854.	.02478	.01173	2.1162	.04903
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.84388**	**1.0182**	**.01256**	**.54240**	**10.978**	**.13363**
Stddev	.00177	.0038	.00099	.00172	.040	.00038
%RSD	.20921	.37414	7.8878	.31696	.36269	.28164
#1	.84185	1.0138	.01289	.54389	10.984	.13320
#2	.84498	1.0209	.01334	.54052	10.935	.13388
#3	.84482	1.0198	.01144	.54279	11.014	.13383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46773.**	**47240.**
Stddev	66.	287.
%RSD	.14195	.60652
#1	46806.	46993.
#2	46815.	47554.
#3	46696.	47172.

Approved: March 30, 2011

Sample Name: L1103049920S Acquired: 3/29/2011 21:44:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21503**	**285.91**	**.33071**	**.20915**	**2.1847**	**.01423**	**83.218**
Stddev	.00043	2.64	.00039	.00041	.0069	.00003	.085
%RSD	.20146	.92389	.11827	.19740	.31769	.21799	.10253
#1	.21483	284.06	.33111	.20869	2.1892	.01420	83.306
#2	.21552	284.73	.33069	.20930	2.1881	.01426	83.214
#3	.21472	288.94	.33033	.20947	2.1767	.01422	83.135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13489**	**.14639**	**.29351**	**1.1029**	**244.18**	**55.493**	**.20643**
Stddev	.00036	.00003	.00135	.0025	.35	.098	.00009
%RSD	.26769	.02105	.45894	.22491	.14523	.17649	.04525
#1	.13448	.14642	.29208	1.1001	244.32	55.555	.20653
#2	.13504	.14636	.29369	1.1039	244.44	55.544	.20643
#3	.13515	.14638	.29475	1.1047	243.77	55.380	.20634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**46.627**	**5.9072**	**.00708**	**2.3102**	**.22097**	**12.015**	**1.7447**
Stddev	.120	.0058	.00015	.0076	.00029	.032	.0103
%RSD	.25771	.09750	2.1417	.32926	.13270	.26857	.59097
#1	46.518	5.9124	.00722	2.3014	.22074	11.985	1.7393
#2	46.608	5.9081	.00692	2.3148	.22088	12.011	1.7382
#3	46.756	5.9010	.00711	2.3143	.22130	12.049	1.7566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049920S Acquired: 3/29/2011 21:44:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-51.828**	F **247.11**	F **-46738.**	**.02149**	**.00950**	**2.5894**	**.05146**
Stddev	16.814	.63	108.	.00176	.00183	.0055	.00066
%RSD	32.442	.25585	.23097	8.1783	19.278	.21379	1.2811
#1	-33.879	246.82	-46665.	.02265	.01148	2.5832	.05222
#2	-54.391	247.84	-46688.	.01947	.00786	2.5939	.05104
#3	-67.213	246.67	-46862.	.02235	.00915	2.5913	.05111
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.57727**	**.55561**	**.00835**	**.50069**	**10.913**	**.13812**
Stddev	.00022	.00025	.00133	.00029	.046	.00042
%RSD	.03738	.04466	15.886	.05757	.42174	.30578
#1	.57736	.55589	.00915	.50074	10.907	.13776
#2	.57702	.55542	.00682	.50095	10.870	.13803
#3	.57742	.55552	.00909	.50038	10.961	.13859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46998.**	**46894.**
Stddev	126.	214.
%RSD	.26912	.45734
#1	47078.	46646.
#2	47064.	47019.
#3	46852.	47017.

Approved: March 30, 2011

Sample Name: L1103049921SD Acquired: 3/29/2011 21:47:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21051**	**287.69**	**.33001**	**.20615**	**2.2553**	**.01415**	**91.677**
Stddev	.00179	1.74	.00202	.00093	.0072	.00007	.421
%RSD	.85004	.60355	.61232	.44958	.31707	.50857	.45911
#1	.21207	289.44	.32914	.20587	2.2471	.01414	91.192
#2	.20856	287.67	.32857	.20719	2.2589	.01408	91.907
#3	.21090	285.96	.33232	.20541	2.2600	.01422	91.933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12189**	**.14928**	**.29340**	**.90384**	**237.30**	**51.869**	**.21169**
Stddev	.00041	.00105	.00036	.00366	1.31	.202	.00032
%RSD	.33620	.70541	.12418	.40454	.55216	.38997	.15015
#1	.12223	.15023	.29320	.90696	235.89	51.638	.21173
#2	.12143	.14815	.29382	.89982	238.48	52.016	.21135
#3	.12201	.14947	.29318	.90475	237.53	51.952	.21198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**47.283**	**6.7064**	**.00803**	**2.1244**	**.22785**	**9.7251**	**1.6601**
Stddev	.328	.0466	.00024	.0049	.00060	.0251	.0038
%RSD	.69299	.69473	3.0099	.22902	.26141	.25842	.22775
#1	46.939	6.6537	.00780	2.1219	.22851	9.7400	1.6631
#2	47.592	6.7420	.00803	2.1300	.22735	9.6961	1.6559
#3	47.317	6.7235	.00828	2.1213	.22768	9.7392	1.6614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049921SD Acquired: 3/29/2011 21:47:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360079-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-70.415**	F **236.23**	F **-41860.**	**.02215**	**.00775**	**2.3393**	**.04494**
Stddev	37.240	1.40	185.	.00146	.00101	.0228	.00037
%RSD	52.886	.59253	.44115	6.5791	13.001	.97492	.82830
#1	-68.809	237.55	-42061.	.02355	.00864	2.3655	.04475
#2	-34.004	234.76	-41697.	.02227	.00796	2.3239	.04537
#3	-108.43	236.39	-41823.	.02064	.00666	2.3285	.04470
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.56366**	**.52356**	**.01045**	**.52902**	**9.4632**	**.14918**
Stddev	.00212	.00062	.00274	.00263	.0168	.00025
%RSD	.37586	.11896	26.241	.49730	.17759	.16442
#1	.56159	.52298	.00949	.53144	9.4738	.14889
#2	.56357	.52422	.00832	.52622	9.4439	.14932
#3	.56582	.52347	.01354	.52940	9.4721	.14931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47286.**	**47115.**
Stddev	134.	387.
%RSD	.28375	.82088
#1	47134.	47194.
#2	47335.	46695.
#3	47389.	47456.

Approved: March 30, 2011

Sample Name: L1103049922 Acquired: 3/29/2011 21:51:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01090**	**299.22**	**.17347**	**.19811**	**2.0877**	**.01492**	**68.592**
Stddev	.00037	2.16	.00249	.00074	.0051	.00003	.181
%RSD	3.4238	.72023	1.4334	.37477	.24297	.19480	.26455
#1	.01129	296.76	.17082	.19847	2.0855	.01494	68.758
#2	.01055	300.77	.17574	.19860	2.0842	.01489	68.398
#3	.01087	300.13	.17387	.19725	2.0935	.01493	68.621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13668**	**.16664**	**.30847**	**.77718**	**259.10**	**50.412**	**.20338**
Stddev	.00059	.00070	.00084	.00364	.63	.073	.00070
%RSD	.42804	.42012	.27195	.46824	.24330	.14425	.34200
#1	.13637	.16646	.30791	.77625	258.38	50.485	.20405
#2	.13735	.16741	.30943	.78119	259.41	50.340	.20266
#3	.13631	.16604	.30805	.77409	259.52	50.411	.20343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**42.526**	**6.7755**	**.01081**	**3.9210**	**.21333**	**12.718**	**1.9294**
Stddev	.142	.0162	.00020	.0145	.00071	.029	.0053
%RSD	.33432	.23830	1.8559	.37011	.33130	.22420	.27503
#1	42.381	6.7873	.01076	3.9378	.21374	12.695	1.9240
#2	42.665	6.7571	.01064	3.9130	.21373	12.750	1.9346
#3	42.531	6.7821	.01103	3.9123	.21251	12.709	1.9298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049922 Acquired: 3/29/2011 21:51:09 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-21.659**	F **224.31**	F **-45044.**	**.02557**	**.01031**	**1.7105**	**.06665**
Stddev	59.327	1.18	32.	.00185	.00354	.0045	.00037
%RSD	273.91	.52603	.07108	7.2359	34.359	.26547	.55787
#1	-63.299	223.55	-45022.	.02770	.01418	1.7095	.06641
#2	46.270	225.67	-45081.	.02432	.00723	1.7155	.06646
#3	-47.947	223.71	-45029.	.02470	.00952	1.7066	.06708
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58564**	**.57518**	**.00984**	**.55502**	**12.609**	**.13135**
Stddev	.00215	.00110	.00243	.00127	.015	.00012
%RSD	.36757	.19126	24.644	.22801	.12052	.09450
#1	.58772	.57584	.00736	.55406	12.614	.13141
#2	.58342	.57579	.01221	.55454	12.622	.13143
#3	.58577	.57391	.00995	.55645	12.592	.13120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47921.**	**47586.**
Stddev	100.	273.
%RSD	.20940	.57446
#1	47844.	47362.
#2	47885.	47506.
#3	48035.	47891.

Approved: March 30, 2011

Sample Name: L1103049923 Acquired: 3/29/2011 21:54:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01052**	**333.27**	**.10377**	**.24958**	**2.3196**	**.01358**	**78.925**
Stddev	.00030	2.29	.00139	.00003	.0026	.00004	.102
%RSD	2.8910	.68634	1.3397	.01257	.11357	.27439	.12876
#1	.01083	330.84	.10415	.24956	2.3218	.01357	79.026
#2	.01051	333.60	.10223	.24962	2.3202	.01363	78.823
#3	.01022	335.38	.10493	.24957	2.3167	.01356	78.926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08833**	**.13661**	**.35795**	**.60756**	**248.06**	**65.350**	**.25317**
Stddev	.00035	.00032	.00225	.00156	.67	.056	.00139
%RSD	.39965	.23730	.62989	.25712	.26866	.08549	.54953
#1	.08845	.13644	.36054	.60936	247.40	65.313	.25378
#2	.08793	.13698	.35689	.60669	248.04	65.323	.25415
#3	.08861	.13640	.35641	.60662	248.73	65.415	.25157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**61.058**	**5.7805**	**.00813**	**2.5054**	**.23858**	**16.895**	**1.0769**
Stddev	.409	.0140	.00014	.0031	.00057	.072	.0030
%RSD	.66918	.24209	1.6649	.12474	.23779	.42895	.27686
#1	60.683	5.7784	.00826	2.5067	.23813	16.969	1.0735
#2	60.996	5.7676	.00814	2.5018	.23839	16.824	1.0792
#3	61.493	5.7954	.00799	2.5077	.23922	16.890	1.0779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049923 Acquired: 3/29/2011 21:54:40 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-54.281**	F **260.04**	F **-52854.**	**.01543**	**.00897**	**1.6484**	**.05088**
Stddev	33.795	.93	196.	.00241	.00193	.0010	.00048
%RSD	62.260	.35628	.37066	15.584	21.476	.05896	.94457
#1	-22.238	261.10	-53061.	.01611	.01081	1.6473	.05067
#2	-89.591	259.39	-52671.	.01743	.00913	1.6488	.05053
#3	-51.013	259.64	-52830.	.01276	.00697	1.6491	.05143
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.55402**	**1.1087**	**.01004**	**.56790**	**9.0899**	**.14839**
Stddev	.00108	.0014	.00044	.00112	.0154	.00016
%RSD	.19520	.12618	4.4214	.19782	.16988	.10480
#1	.55527	1.1082	.00969	.56887	9.0943	.14844
#2	.55348	1.1075	.00990	.56817	9.1026	.14822
#3	.55332	1.1102	.01054	.56667	9.0727	.14852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47736.**	**47604.**
Stddev	70.	137.
%RSD	.14715	.28695
#1	47656.	47644.
#2	47766.	47715.
#3	47787.	47451.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 21:58:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43866**	**10.458**	**.42920**	**.52917**	**1.0150**	**.05314**	**9.7351**
Stddev	.00328	.021	.00194	.00082	.0027	.00018	.0357
%RSD	.74805	.19601	.45138	.15440	.26452	.33141	.36649
#1	.44125	10.437	.43080	.53011	1.0180	.05333	9.7762
#2	.43497	10.459	.42705	.52865	1.0127	.05313	9.7124
#3	.43976	10.478	.42975	.52875	1.0143	.05298	9.7167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05391**	**.21674**	**.53024**	**.54606**	**3.7605**	**51.174**	**1.0332**
Stddev	.00008	.00023	.00083	.00054	.0114	.153	.0033
%RSD	.14387	.10474	.15633	.09936	.30371	.29896	.31944
#1	.05399	.21694	.53078	.54564	3.7724	51.350	1.0370
#2	.05383	.21649	.53065	.54668	3.7595	51.099	1.0310
#3	.05390	.21677	.52928	.54587	3.7497	51.073	1.0316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3221**	**.45174**	**1.0106**	**50.460**	**.52863**	F **-.00360**	**.53349**
Stddev	.0083	.00114	.0012	.178	.00027	.00198	.00154
%RSD	.08961	.25311	.11396	.35223	.05160	54.955	.28881
#1	9.3158	.45275	1.0098	50.658	.52868	-.00147	.53494
#2	9.3316	.45050	1.0102	50.409	.52886	-.00395	.53187
#3	9.3190	.45197	1.0120	50.314	.52833	-.00537	.53367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 21:58:19 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **181.03**	**10.705**	**10.656**	F **1.3250**	**.41736**	F **.00435**	**1.0627**
Stddev	18.48	.050	4.370	.0044	.00409	.00082	.0011
%RSD	10.208	.46356	41.012	.32926	.98065	18.757	.10413
#1	194.25	10.650	10.365	1.3212	.41391	.00514	1.0640
#2	188.92	10.746	6.4388	1.3241	.41628	.00351	1.0621
#3	159.91	10.718	15.165	1.3298	.42188	.00440	1.0620
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000			1.2000		5.0000	
Range	10.000%			10.000%		-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98122**	**.98920**	**.54725**	**1.0602**	**1.0172**	F **.00067**
Stddev	.00167	.00065	.00192	.0009	.0007	.00004
%RSD	.17042	.06559	.35073	.08425	.06511	5.9989
#1	.98301	.98920	.54636	1.0609	1.0165	.00067
#2	.98093	.98855	.54594	1.0592	1.0176	.00063
#3	.97971	.98985	.54945	1.0606	1.0176	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48594.**	**44558.**
Stddev	23.	103.
%RSD	.04819	.23025
#1	48571.	44643.
#2	48618.	44444.
#3	48593.	44587.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 22:01:44 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.01622**	**.00081**	**.00169**	**-.00062**	**-.00002**	**.00258**
Stddev	.00064	.00020	.00053	.00021	.00014	.00001	.00461
%RSD	109.01	1.2083	66.225	12.496	22.392	30.795	178.71
#1	.00118	.01629	.00039	.00193	-.00078	-.00002	.00754
#2	-.00010	.01636	.00141	.00162	-.00054	-.00003	-.00159
#3	.00069	.01599	.00062	.00152	-.00054	-.00003	.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00005**	**-.00048**	**.00020**	**-.00164**	**.31540**	**-.01073**
Stddev	.00011	.00016	.00006	.00038	.00302	.00251	.00072
%RSD	124.31	339.56	11.998	190.48	184.37	.79546	6.7541
#1	-.00003	-.00014	-.00049	-.00002	.00120	.31824	-.01155
#2	-.00002	.00012	-.00053	-.00002	-.00482	.31349	-.01017
#3	-.00021	.00017	-.00042	.00063	-.00130	.31447	-.01046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01249**	**-.00024**	**.00005**	**.01122**	**.00061**	**-.00027**	**.00024**
Stddev	.01665	.00010	.00011	.00960	.00029	.00107	.00081
%RSD	133.23	43.636	242.91	85.624	46.766	391.31	333.68
#1	-.02803	-.00025	.00013	.02188	.00031	.00096	-.00050
#2	-.01453	-.00013	.00009	.00326	.00088	-.00085	.00110
#3	.00508	-.00034	-.00008	.00850	.00064	-.00093	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 22:01:44 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **276.07**	F **.06191**	F **5.2465**	**-.00087**	**-.00001**	**-.00044**	**-.00018**
Stddev	27.49	.04341	8.4093	.00027	.00030	.00066	.00041
%RSD	9.9579	70.115	160.28	30.389	2688.8	148.90	229.36
#1	296.02	.05887	8.3822	-.00118	.00032	-.00069	.00029
#2	287.49	.02010	-4.2801	-.00068	-.00026	.00031	-.00046
#3	244.71	.10676	11.637	-.00077	-.00009	-.00095	-.00037
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00109**	**.00143**	**.00001**	**.00133**	**.00005**
Stddev	.00002	.00029	.00066	.00010	.00020	.00003
%RSD	13.280	26.758	46.038	718.73	15.144	55.485
#1	-.00012	.00135	.00129	.00012	.00145	.00008
#2	-.00015	.00115	.00086	-.00006	.00144	.00004
#3	-.00015	.00078	.00216	-.00002	.00110	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48776.**	**44170.**
Stddev	100.	285.
%RSD	.20512	.64414
#1	48672.	44457.
#2	48786.	44165.
#3	48871.	43888.

Approved: March 30, 2011

Sample Name: L1103049924 Acquired: 3/29/2011 22:05:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00991**	**231.57**	**.14846**	**.14984**	**2.6381**	**.01504**	**99.653**
Stddev	.00042	2.07	.00167	.00105	.0123	.00005	.451
%RSD	4.2104	.89575	1.1254	.70145	.46424	.31547	.45281
#1	.00949	230.05	.15032	.14885	2.6308	.01508	99.285
#2	.01033	230.73	.14799	.14971	2.6313	.01499	99.518
#3	.00991	233.93	.14708	.15094	2.6523	.01505	100.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17724**	**.13658**	**.25901**	**.91081**	**230.75**	**44.300**	**.17953**
Stddev	.00040	.00076	.00165	.00117	1.29	.151	.00028
%RSD	.22730	.55345	.63823	.12876	.56114	.34181	.15591
#1	.17694	.13745	.26092	.90972	229.51	44.203	.17927
#2	.17708	.13623	.25795	.91066	230.64	44.222	.17950
#3	.17770	.13607	.25817	.91205	232.09	44.474	.17982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.942**	**5.8548**	**.00826**	**2.8789**	**.23792**	**13.613**	**2.1861**
Stddev	.270	.0421	.00027	.0050	.00198	.004	.0058
%RSD	.65920	.71852	3.2609	.17304	.83266	.02946	.26404
#1	40.633	5.8157	.00823	2.8732	.23994	13.611	2.1811
#2	41.134	5.8495	.00854	2.8813	.23784	13.618	2.1924
#3	41.057	5.8993	.00801	2.8822	.23598	13.612	2.1847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049924 Acquired: 3/29/2011 22:05:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-4.2847**	F **249.19**	F **-43336.**	**.03130**	**.00933**	**2.0650**	**.08790**
Stddev	40.970	.30	28.	.00267	.00169	.0026	.00011
%RSD	956.20	.12016	.06539	8.5289	18.082	.12345	.12431
#1	13.986	249.21	-43367.	.03420	.00863	2.0669	.08797
#2	-51.211	248.89	-43328.	.02896	.00811	2.0659	.08778
#3	24.372	249.48	-43312.	.03073	.01125	2.0621	.08796
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.64357**	**.31291**	**.00631**	**.40861**	**15.926**	**.11110**
Stddev	.00111	.00124	.00098	.00151	.044	.00002
%RSD	.17170	.39626	15.465	.36932	.27854	.01821
#1	.64271	.31213	.00609	.40821	15.888	.11111
#2	.64319	.31434	.00546	.40734	15.916	.11112
#3	.64482	.31226	.00738	.41028	15.975	.11108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46703.**	**46560.**
Stddev	42.	33.
%RSD	.09024	.07178
#1	46658.	46598.
#2	46709.	46535.
#3	46741.	46548.

Approved: March 30, 2011

Sample Name: L1103049925 Acquired: 3/29/2011 22:09:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01262**	**422.08**	**.14551**	**.26258**	**2.5945**	**.01819**	**171.83**
Stddev	.00134	1.58	.00090	.00108	.0039	.00002	.59
%RSD	10.645	.37396	.62057	.41316	.15157	.12763	.34408
#1	.01121	423.84	.14489	.26254	2.5905	.01817	171.32
#2	.01388	421.62	.14654	.26152	2.5947	.01821	171.69
#3	.01276	420.78	.14509	.26368	2.5984	.01820	172.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06768**	**.15889**	**.40281**	**.60659**	**295.59**	**67.688**	**.28649**
Stddev	.00022	.00049	.00100	.00219	1.22	.241	.00193
%RSD	.32602	.30870	.24856	.36151	.41278	.35547	.67360
#1	.06787	.15878	.40214	.60715	294.91	67.525	.28560
#2	.06773	.15943	.40396	.60846	294.86	67.573	.28516
#3	.06744	.15847	.40232	.60418	297.00	67.964	.28870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**59.550**	**6.4947**	**.00855**	**1.4126**	**.29090**	**8.6610**	**.76730**
Stddev	.367	.0401	.00008	.0090	.00191	.0263	.00184
%RSD	.61580	.61810	.97851	.63410	.65789	.30416	.23997
#1	59.336	6.4716	.00864	1.4043	.29121	8.6842	.76647
#2	59.341	6.4715	.00852	1.4115	.29265	8.6664	.76941
#3	59.974	6.5411	.00848	1.4221	.28886	8.6323	.76601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049925 Acquired: 3/29/2011 22:09:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-59.477**	F **379.80**	F **-59722.**	**.01328**	**.01111**	**2.1139**	**.03559**
Stddev	44.478	1.12	64.	.00237	.00238	.0040	.00037
%RSD	74.781	.29526	.10725	17.811	21.468	.18733	1.0476
#1	-101.97	379.73	-59701.	.01113	.00840	2.1183	.03550
#2	-13.252	380.95	-59794.	.01581	.01289	2.1105	.03527
#3	-63.207	378.71	-59671.	.01290	.01203	2.1130	.03600
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.79630**	**.97854**	**.01565**	**.72130**	**8.1155**	**.24240**
Stddev	.00155	.00114	.00354	.00244	.0353	.00061
%RSD	.19500	.11658	22.611	.33870	.43540	.25255
#1	.79476	.97967	.01488	.72163	8.0919	.24271
#2	.79629	.97739	.01952	.72356	8.1562	.24279
#3	.79786	.97856	.01257	.71871	8.0985	.24169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46719.**	**47812.**
Stddev	133.	264.
%RSD	.28423	.55216
#1	46630.	47812.
#2	46655.	48077.
#3	46871.	47549.

Approved: March 30, 2011

Sample Name: L1103049926 Acquired: 3/29/2011 22:12:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01062**	**323.90**	**.13638**	**.20464**	**2.1647**	**.01610**	**72.962**
Stddev	.00077	2.90	.00189	.00044	.0071	.00014	.463
%RSD	7.2168	.89607	1.3882	.21676	.32593	.85843	.63499
#1	.01120	324.16	.13739	.20502	2.1657	.01619	73.414
#2	.01091	320.88	.13755	.20475	2.1712	.01594	72.984
#3	.00975	326.67	.13419	.20416	2.1572	.01616	72.488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06785**	**.15582**	**.33079**	**.50817**	**257.25**	**51.295**	**.22275**
Stddev	.00067	.00111	.00211	.00419	.95	.321	.00121
%RSD	.98591	.71103	.63924	.82414	.36888	.62502	.54146
#1	.06856	.15702	.33232	.51200	258.09	51.622	.22259
#2	.06724	.15483	.32838	.50370	257.44	51.282	.22403
#3	.06777	.15562	.33167	.50882	256.22	50.982	.22164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**45.141**	**6.0574**	**.00691**	**1.1249**	**.24192**	**5.6500**	**.77059**
Stddev	.263	.0487	.00008	.0173	.00094	.0181	.00260
%RSD	.58236	.80421	1.1014	1.5353	.39010	.32118	.33741
#1	45.438	6.1065	.00685	1.1430	.24298	5.6709	.77348
#2	45.047	6.0566	.00699	1.1230	.24117	5.6395	.76846
#3	44.938	6.0091	.00688	1.1086	.24161	5.6395	.76982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049926 Acquired: 3/29/2011 22:12:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-48.289**	F **172.07**	F **-28522.**	**.01304**	**.00948**	**1.7877**	**.03716**
Stddev	29.059	1.29	89.	.00200	.00099	.0175	.00083
%RSD	60.177	.74753	.31293	15.344	10.482	.98057	2.2211
#1	-24.893	173.49	-28624.	.01341	.00840	1.8031	.03776
#2	-80.818	170.98	-28483.	.01482	.01036	1.7686	.03622
#3	-39.157	171.75	-28460.	.01087	.00967	1.7915	.03750
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48858**	**.73815**	**.01310**	**.62104**	**7.2499**	**.20911**
Stddev	.00262	.00130	.00202	.00343	.0203	.00039
%RSD	.53683	.17626	15.395	.55258	.27987	.18749
#1	.49145	.73957	.01299	.62440	7.2697	.20928
#2	.48800	.73701	.01517	.61754	7.2291	.20939
#3	.48630	.73787	.01114	.62118	7.2510	.20866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48343.**	**48147.**
Stddev	227.	725.
%RSD	.46868	1.5067
#1	48082.	47330.
#2	48490.	48395.
#3	48457.	48716.

Approved: March 30, 2011

Sample Name: L1103049927 Acquired: 3/29/2011 22:16:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00958**	**335.85**	**.14179**	**.20277**	**2.7304**	**.01693**	**90.488**
Stddev	.00051	4.51	.00217	.00200	.0072	.00011	.292
%RSD	5.2896	1.3417	1.5291	.98633	.26336	.62997	.32262
#1	.00953	333.64	.13935	.20123	2.7221	.01687	90.241
#2	.00910	332.88	.14249	.20205	2.7341	.01687	90.411
#3	.01011	341.04	.14351	.20503	2.7349	.01706	90.810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08777**	**.16940**	**.33592**	**.66051**	**257.50**	**60.223**	**.22103**
Stddev	.00102	.00236	.00193	.01040	1.01	.182	.00058
%RSD	1.1624	1.3955	.57423	1.5740	.39237	.30222	.26034
#1	.08734	.16809	.33617	.65383	256.47	60.061	.22072
#2	.08704	.16799	.33387	.65522	257.55	60.190	.22069
#3	.08894	.17213	.33770	.67249	258.49	60.420	.22170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**47.941**	**6.5134**	**.00872**	**1.1426**	**.25207**	**9.7186**	**1.1213**
Stddev	.156	.0393	.00026	.0092	.00344	.1297	.0154
%RSD	.32454	.60275	2.9450	.80778	1.3654	1.3349	1.3685
#1	47.843	6.4804	.00863	1.1444	.25072	9.6470	1.1167
#2	47.860	6.5029	.00852	1.1326	.24952	9.6404	1.1088
#3	48.121	6.5568	.00901	1.1508	.25599	9.8684	1.1384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049927 Acquired: 3/29/2011 22:16:00 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-9.0296**	F **294.39**	F **-59451.**	**.01242**	**.00819**	**2.0925**	**.04036**
Stddev	19.148	4.45	770.	.00156	.00124	.0300	.00034
%RSD	212.06	1.5123	1.2953	12.527	15.100	1.4349	.85105
#1	-12.882	291.24	-59013.	.01326	.00957	2.0810	.04006
#2	-25.958	292.45	-59000.	.01336	.00717	2.0698	.04028
#3	11.752	299.48	-60340.	.01062	.00783	2.1265	.04073
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.55074**	**.52549**	**.00919**	**.59599**	**9.3509**	**.16836**
Stddev	.00151	.00109	.00164	.00511	.1369	.00169
%RSD	.27332	.20816	17.815	.85821	1.4635	1.0027
#1	.55110	.52433	.00949	.59446	9.2843	.16768
#2	.54909	.52650	.01066	.59182	9.2601	.16712
#3	.55203	.52566	.00742	.60170	9.5083	.17028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47595.**	**47656.**
Stddev	417.	107.
%RSD	.87513	.22520
#1	47760.	47628.
#2	47905.	47774.
#3	47122.	47565.

Approved: March 30, 2011

Sample Name: L1103049928 Acquired: 3/29/2011 22:19:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00611**	**256.32**	**.14011**	**.14757**	**2.4595**	**.01652**	**67.099**
Stddev	.00053	.43	.00169	.00097	.0111	.00003	.318
%RSD	8.7439	.16724	1.2030	.65499	.45263	.20508	.47335
#1	.00665	256.00	.13880	.14741	2.4519	.01655	66.862
#2	.00558	256.15	.13953	.14670	2.4544	.01651	66.976
#3	.00610	256.81	.14201	.14861	2.4723	.01648	67.460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07782**	**.15454**	**.26946**	**.55161**	**226.62**	**44.987**	**.18457**
Stddev	.00024	.00036	.00031	.00185	1.26	.169	.00110
%RSD	.31094	.23364	.11378	.33547	.55758	.37499	.59419
#1	.07778	.15419	.26961	.55264	225.24	44.869	.18399
#2	.07808	.15491	.26911	.54948	226.91	44.911	.18583
#3	.07760	.15454	.26966	.55272	227.72	45.180	.18388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.387**	**6.0975**	**.00840**	**.93014**	**.24166**	**6.3448**	**.83812**
Stddev	.276	.0399	.00021	.00714	.00131	.0105	.00390
%RSD	.68409	.65378	2.5053	.76807	.54397	.16481	.46515
#1	40.068	6.0609	.00853	.93031	.24236	6.3492	.84051
#2	40.554	6.0916	.00852	.92291	.24248	6.3329	.84023
#3	40.539	6.1400	.00816	.93720	.24014	6.3524	.83362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049928 Acquired: 3/29/2011 22:19:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-28.414**	F **150.61**	F **-24572.**	**.01363**	**.00626**	**1.4401**	**.03115**
Stddev	57.382	.50	87.	.00200	.00332	.0076	.00066
%RSD	201.95	.33158	.35414	14.673	53.065	.52481	2.1201
#1	-3.0745	150.65	-24555.	.01138	.00251	1.4488	.03081
#2	-94.104	150.09	-24666.	.01522	.00743	1.4356	.03072
#3	11.937	151.09	-24495.	.01428	.00883	1.4358	.03191
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48512**	**.22300**	**.00837**	**.51301**	**8.1421**	**.16833**
Stddev	.00151	.00174	.00119	.00009	.0123	.00120
%RSD	.31063	.77896	14.204	.01765	.15082	.71411
#1	.48434	.22169	.00705	.51291	8.1410	.16753
#2	.48415	.22236	.00871	.51306	8.1304	.16774
#3	.48685	.22497	.00935	.51306	8.1549	.16971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48532.**	**48718.**
Stddev	94.	122.
%RSD	.19437	.25121
#1	48423.	48779.
#2	48585.	48577.
#3	48588.	48798.

Approved: March 30, 2011

Sample Name: L1103049929 Acquired: 3/29/2011 22:23:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00541**	**256.27**	**.11597**	**.13977**	**2.1263**	**.01561**	**80.954**
Stddev	.00013	1.05	.00061	.00046	.0088	.00003	.459
%RSD	2.3224	.41033	.53027	.33192	.41480	.16918	.56751
#1	.00552	255.17	.11628	.14029	2.1346	.01558	81.414
#2	.00528	257.27	.11526	.13961	2.1170	.01563	80.496
#3	.00544	256.37	.11637	.13940	2.1273	.01563	80.953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06215**	**.13302**	**.26402**	**.57260**	**211.46**	**53.109**	**.17313**
Stddev	.00035	.00061	.00079	.00180	.59	.196	.00079
%RSD	.56758	.45704	.29819	.31441	.28028	.36976	.45670
#1	.06180	.13250	.26331	.57096	212.07	53.319	.17397
#2	.06213	.13288	.26388	.57230	210.89	52.930	.17240
#3	.06251	.13369	.26486	.57453	211.42	53.077	.17301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.689**	**4.6540**	**.00735**	**.83825**	**.20939**	**9.7982**	**.70911**
Stddev	.007	.0353	.00015	.00934	.00049	.0266	.00117
%RSD	.01880	.75912	1.9958	1.1137	.23182	.27163	.16539
#1	38.689	4.6912	.00727	.84856	.20911	9.7757	.71023
#2	38.697	4.6210	.00752	.83038	.20910	9.7913	.70921
#3	38.683	4.6497	.00726	.83580	.20995	9.8276	.70789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049929 Acquired: 3/29/2011 22:23:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-57.670**	F **243.10**	F **-47271.**	**.01037**	**.01001**	**1.9612**	**.02495**
Stddev	32.629	1.29	41.	.00061	.00138	.0038	.00002
%RSD	56.578	.52936	.08630	5.8695	13.811	.19575	.07041
#1	-74.333	241.98	-47281.	.00995	.00851	1.9571	.02496
#2	-78.603	242.81	-47306.	.01010	.01028	1.9617	.02493
#3	-20.075	244.50	-47226.	.01107	.01123	1.9647	.02496
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50057**	**.22411**	**.00726**	**.48871**	**7.6693**	**.16774**
Stddev	.00287	.00070	.00243	.00136	.0192	.00057
%RSD	.57408	.31133	33.423	.27851	.24978	.33687
#1	.50343	.22477	.00999	.48719	7.6616	.16717
#2	.49769	.22419	.00642	.48979	7.6552	.16775
#3	.50058	.22338	.00536	.48916	7.6911	.16830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47902.**	**47356.**
Stddev	7.	285.
%RSD	.01518	.60216
#1	47909.	47115.
#2	47901.	47281.
#3	47895.	47671.

Approved: March 30, 2011

Sample Name: L1103049930 Acquired: 3/29/2011 22:26:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00483**	**205.90**	**.12434**	**.11856**	**1.8838**	**.01586**	**68.221**
Stddev	.00080	1.56	.00089	.00043	.0024	.00004	.173
%RSD	16.581	.75787	.71719	.36163	.12837	.24822	.25358
#1	.00575	204.56	.12463	.11806	1.8855	.01582	68.083
#2	.00432	205.53	.12334	.11880	1.8810	.01587	68.165
#3	.00442	207.61	.12506	.11881	1.8848	.01590	68.415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06199**	**.12791**	**.22922**	**.56600**	**188.61**	**43.259**	**.14162**
Stddev	.00048	.00064	.00099	.00314	.66	.087	.00033
%RSD	.77151	.49714	.43329	.55523	.35133	.20178	.23457
#1	.06144	.12718	.22867	.56238	188.10	43.257	.14124
#2	.06232	.12835	.22864	.56798	188.37	43.173	.14174
#3	.06221	.12820	.23037	.56765	189.36	43.348	.14187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.179**	**4.7011**	**.00713**	**.78036**	**.19842**	**8.0497**	**.70444**
Stddev	.184	.0247	.00022	.00343	.00067	.0326	.00319
%RSD	.53728	.52627	3.0909	.43921	.33926	.40482	.45332
#1	34.007	4.6767	.00687	.77892	.19803	8.0123	.70120
#2	34.157	4.7004	.00726	.78427	.19803	8.0654	.70453
#3	34.372	4.7262	.00725	.77788	.19920	8.0715	.70758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049930 Acquired: 3/29/2011 22:26:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **68.112**	F **186.56**	F **-34876.**	**.01281**	**.00818**	**2.1600**	**.02487**
Stddev	7.093	1.53	131.	.00130	.00115	.0232	.00017
%RSD	10.413	.82213	.37562	10.132	14.045	1.0745	.67360
#1	68.869	184.81	-34769.	.01284	.00690	2.1332	.02473
#2	74.796	187.65	-34836.	.01149	.00911	2.1728	.02481
#3	60.671	187.23	-35022.	.01409	.00855	2.1740	.02505
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47447**	**.16261**	**.00834**	**.47868**	**8.0361**	**.13422**
Stddev	.00069	.00161	.00190	.00203	.0240	.00046
%RSD	.14637	.99048	22.836	.42406	.29912	.33936
#1	.47368	.16100	.01042	.47635	8.0097	.13374
#2	.47498	.16422	.00669	.47999	8.0566	.13465
#3	.47475	.16260	.00789	.47971	8.0420	.13426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48395.**	**47167.**
Stddev	132.	239.
%RSD	.27301	.50577
#1	48543.	47294.
#2	48291.	47315.
#3	48349.	46892.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 22:30:14 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43704**	**10.321**	**.42946**	**.52433**	**1.0173**	**.05310**	**9.7101**
Stddev	.00161	.004	.00172	.00122	.0027	.00011	.0079
%RSD	.36789	.03428	.39986	.23199	.26071	.20086	.08122
#1	.43710	10.317	.43141	.52459	1.0202	.05321	9.7187
#2	.43540	10.323	.42819	.52539	1.0166	.05309	9.7032
#3	.43861	10.324	.42878	.52300	1.0150	.05300	9.7085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05350**	**.21548**	**.52931**	**.54088**	**3.7672**	**51.445**	**1.0363**
Stddev	.00016	.00038	.00110	.00077	.0111	.124	.0035
%RSD	.30154	.17778	.20831	.14249	.29520	.24174	.33546
#1	.05358	.21583	.53052	.54161	3.7781	51.553	1.0402
#2	.05360	.21553	.52836	.54095	3.7676	51.474	1.0352
#3	.05331	.21507	.52906	.54007	3.7558	51.309	1.0334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.3361**	**.45223**	**.99833**	**50.424**	**.52349**	F **-.00218**	**.52518**
Stddev	.0419	.00089	.00128	.071	.00077	.00093	.00239
%RSD	.44906	.19668	.12784	.14058	.14754	42.726	.45571
#1	9.3213	.45323	.99960	50.504	.52404	-.00323	.52669
#2	9.3835	.45192	.99836	50.368	.52381	-.00184	.52644
#3	9.3037	.45153	.99705	50.401	.52260	-.00146	.52242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						10.000	
Range						-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 22:30:14 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **219.37**	**10.486**	F **23.318**	**1.3017**	**.40995**	F **.00363**	**1.0567**
Stddev	18.47	.028	6.590	.0036	.00115	.00066	.0014
%RSD	8.4189	.27079	28.263	.27939	.27970	18.037	.12866
#1	240.47	10.484	30.882	1.3059	.40866	.00437	1.0583
#2	206.12	10.458	18.810	1.2993	.41087	.00339	1.0559
#3	211.53	10.515	20.262	1.2999	.41030	.00313	1.0560
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97683**	**.98695**	**.53811**	**1.0576**	**1.0078**	F **.00071**
Stddev	.00127	.00138	.00517	.0031	.0029	.00011
%RSD	.12956	.14002	.96101	.28860	.28675	15.426
#1	.97826	.98788	.54386	1.0590	1.0111	.00066
#2	.97585	.98536	.53384	1.0541	1.0063	.00063
#3	.97638	.98762	.53664	1.0596	1.0060	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48963.**	**44519.**
Stddev	100.	207.
%RSD	.20351	.46563
#1	48854.	44507.
#2	48987.	44318.
#3	49049.	44732.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 22:33:39 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.01731**	**.00030**	**.00174**	**-.00070**	**-.00001**	**.00212**
Stddev	.00038	.00099	.00168	.00058	.00005	.00002	.00381
%RSD	340.73	5.7121	554.67	33.162	6.9974	121.56	180.10
#1	-.00027	.01762	.00069	.00120	-.00075	-.00003	.00323
#2	.00013	.01811	.00176	.00235	-.00067	-.00002	-.00213
#3	.00048	.01621	-.00154	.00167	-.00067	.00001	.00524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00019**	**-.00045**	**-.00043**	**-.00284**	**.32278**	**-.01106**
Stddev	.00003	.00007	.00011	.00012	.00136	.01802	.00083
%RSD	34.045	39.764	23.416	27.447	47.941	5.5839	7.5359
#1	-.00006	-.00021	-.00035	-.00034	-.00426	.31378	-.01197
#2	-.00012	-.00011	-.00056	-.00038	-.00154	.34353	-.01085
#3	-.00009	-.00025	-.00045	-.00056	-.00273	.31103	-.01034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00444**	**-.00005**	**.00003**	**.01804**	**.00052**	**-.00036**	**-.00031**
Stddev	.00235	.00015	.00006	.00201	.00044	.00144	.00106
%RSD	52.971	317.01	178.64	11.165	84.317	400.88	343.00
#1	-.00505	-.00021	.00006	.01595	.00017	.00126	-.00136
#2	-.00185	.00009	.00007	.01997	.00037	-.00084	.00075
#3	-.00644	-.00002	-.00003	.01821	.00101	-.00150	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/29/2011 22:33:39 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **217.11**	F **-.01016**	F **16.094**	**-.00036**	**.00149**	**-.00078**	**-.00029**
Stddev	37.29	.03822	5.891	.00071	.00093	.00029	.00012
%RSD	17.175	376.34	36.607	199.33	61.901	37.190	42.841
#1	185.56	.03300	22.896	.00009	.00049	-.00078	-.00015
#2	258.26	-.03976	12.679	.00002	.00232	-.00049	-.00034
#3	207.50	-.02371	12.705	-.00118	.00168	-.00107	-.00039
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00011**	**.00137**	**-.00015**	**.00174**	**.00007**
Stddev	.00004	.00044	.00140	.00004	.00021	.00007
%RSD	33.515	414.80	101.73	25.744	12.389	108.40
#1	-.00008	-.00040	.00111	-.00011	.00154	-.00001
#2	-.00012	.00039	.00288	-.00016	.00170	.00013
#3	-.00016	.00032	.00013	-.00018	.00196	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49286.**	**44755.**
Stddev	131.	287.
%RSD	.26663	.64194
#1	49218.	44762.
#2	49204.	44465.
#3	49438.	45039.

Approved: March 30, 2011

Sample Name: PBS AH Acquired: 3/29/2011 22:37:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.01965**	**-.00348**	**.00039**	**-.00028**	**-.00001**	**.01989**
Stddev	.00054	.00127	.00158	.00041	.00002	.00001	.00493
%RSD	7438.5	6.4677	45.573	105.49	8.2072	87.452	24.789
#1	-.00058	.02091	-.00167	-.00006	-.00029	.00000	.01420
#2	.00006	.01967	-.00464	.00049	-.00029	-.00002	.02260
#3	.00050	.01837	-.00412	.00075	-.00025	-.00001	.02287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00040**	**.00002**	**.00001**	**.00485**	**.34803**	**-.01189**
Stddev	.00003	.00003	.00032	.00047	.00284	.01405	.00094
%RSD	10.270	8.4923	1595.7	3373.1	58.401	4.0358	7.9064
#1	.00024	-.00044	-.00017	-.00018	.00679	.35636	-.01264
#2	.00029	-.00037	.00039	.00055	.00618	.35590	-.01219
#3	.00028	-.00039	-.00016	-.00033	.00160	.33181	-.01084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00900**	**-.00026**	**.00014**	**.03217**	**.00119**	F **-.01700**	**.00079**
Stddev	.01281	.00032	.00007	.00919	.00039	.00104	.00011
%RSD	142.21	124.55	48.553	28.568	32.446	6.1174	14.132
#1	-.01512	-.00034	.00020	.04011	.00148	-.01667	.00076
#2	-.01760	.00010	.00016	.02210	.00135	-.01616	.00070
#3	.00571	-.00053	.00006	.03429	.00075	-.01816	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: PBS AH Acquired: 3/29/2011 22:37:23 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **150.74**	**1.5412**	F **-432.41**	**.00105**	**.00352**	**.00795**	**.00004**
Stddev	12.77	.0616	3.65	.00038	.00161	.00082	.00029
%RSD	8.4732	3.9989	.84400	36.476	45.582	10.342	646.44
#1	154.25	1.6069	-432.10	.00102	.00368	.00730	.00015
#2	161.39	1.4847	-428.92	.00069	.00504	.00887	.00026
#3	136.58	1.5319	-436.20	.00145	.00184	.00768	-.00028
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00098**	**-.00118**	**-.00014**	**.00032**	**.00007**
Stddev	.00002	.00027	.00002	.00029	.00022	.00012
%RSD	21.718	27.325	1.8791	207.08	68.919	170.17
#1	-.00013	.00087	-.00120	.00008	.00042	-.00002
#2	-.00010	.00078	-.00119	-.00003	.00007	.00021
#3	-.00009	.00129	-.00116	-.00047	.00046	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47716.**	**44362.**
Stddev	152.	524.
%RSD	.31876	1.1808
#1	47570.	44026.
#2	47704.	44094.
#3	47873.	44966.

Approved: March 30, 2011

Sample Name: LCSS AH Acquired: 3/29/2011 22:41:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20464**	**.01594**	**.20624**	**.00079**	**.00006**	**-.00001**	**.02354**
Stddev	.00123	.00091	.00116	.00008	.00011	.00000	.00358
%RSD	.60147	5.7110	.56053	10.672	174.60	50.723	15.205
#1	.20322	.01490	.20490	.00086	.00019	.00000	.02734
#2	.20530	.01635	.20687	.00082	-.00001	-.00001	.02304
#3	.20540	.01658	.20694	.00070	.00000	.00000	.02024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02636**	**-.00045**	**.00016**	**.27163**	**.01115**	**.28510**	**-.01168**
Stddev	.00008	.00025	.00025	.00059	.00242	.01191	.00066
%RSD	.30791	56.111	162.53	.21547	21.724	4.1785	5.6894
#1	.02635	-.00071	.00043	.27117	.00944	.27286	-.01242
#2	.02628	-.00021	.00010	.27144	.01392	.28578	-.01113
#3	.02644	-.00042	-.00007	.27229	.01009	.29666	-.01148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00339**	**.23083**	**.00027**	**.03246**	**.00167**	F **-.01789**	**.26191**
Stddev	.00880	.00257	.00010	.00521	.00035	.00243	.00179
%RSD	259.68	1.1136	37.648	16.060	20.782	13.577	.68454
#1	.00012	.22788	.00030	.03349	.00130	-.02060	.25992
#2	-.00331	.23205	.00035	.02681	.00199	-.01716	.26239
#3	.01335	.23256	.00016	.03708	.00172	-.01591	.26341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: LCSS AH Acquired: 3/29/2011 22:41:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **156.67**	**.16754**	F **-13.275**	**.00142**	**.00238**	**.01210**	**-.00023**
Stddev	44.40	.02948	4.528	.00122	.00161	.00077	.00005
%RSD	28.341	17.594	34.107	86.171	67.639	6.3881	19.312
#1	188.77	.16126	-12.173	.00046	.00143	.01190	-.00028
#2	175.25	.19965	-18.253	.00100	.00424	.01296	-.00022
#3	106.00	.14171	-9.4007	.00280	.00147	.01146	-.00019
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00132**	**-.00153**	**-.00002**	**.00512**	**.00007**
Stddev	.00006	.00077	.00159	.00022	.00381	.00010
%RSD	68.015	58.166	104.02	1087.7	74.427	150.35
#1	-.00015	.00100	-.00107	.00023	.00163	.00017
#2	-.00009	.00077	-.00330	-.00010	.00918	.00006
#3	-.00003	.00220	-.00022	-.00019	.00454	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47659.**	**44646.**
Stddev	112.	175.
%RSD	.23441	.39181
#1	47548.	44676.
#2	47659.	44804.
#3	47771.	44458.

Approved: March 30, 2011

Sample Name: L1103049835 Acquired: 3/29/2011 22:44:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01313**	**80.386**	**.08090**	**.08002**	**1.3803**	**.00667**	**76.394**
Stddev	.00069	.485	.00064	.00133	.0101	.00001	.518
%RSD	5.2336	.60286	.79521	1.6649	.72886	.19975	.67760
#1	.01254	80.387	.08121	.08138	1.3828	.00668	76.334
#2	.01388	80.871	.08016	.07995	1.3888	.00665	76.939
#3	.01296	79.901	.08134	.07872	1.3692	.00666	75.909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10598**	**.08215**	**.11767**	**.70578**	**96.207**	**20.729**	**.07064**
Stddev	.00017	.00032	.00052	.00139	.122	.129	.00098
%RSD	.15938	.39180	.44292	.19628	.12673	.62212	1.3932
#1	.10598	.08249	.11827	.70678	96.288	20.770	.06961
#2	.10615	.08211	.11736	.70636	96.267	20.832	.07157
#3	.10582	.08185	.11737	.70420	96.067	20.584	.07074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.482**	**4.8361**	**.00591**	**.64718**	**.11114**	**12.142**	**1.1729**
Stddev	.170	.0190	.00014	.00286	.00021	.038	.0026
%RSD	.69355	.39269	2.3194	.44196	.18709	.31540	.22466
#1	24.515	4.8289	.00577	.64418	.11120	12.184	1.1699
#2	24.298	4.8577	.00592	.64750	.11131	12.132	1.1741
#3	24.633	4.8218	.00605	.64987	.11090	12.109	1.1748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049835 Acquired: 3/29/2011 22:44:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **32.768**	F **227.80**	F **-44287.**	**.01146**	**.01064**	**1.8814**	**.02740**
Stddev	109.20	.75	184.	.00083	.00336	.0061	.00025
%RSD	333.24	.32937	.41590	7.2611	31.602	.32609	.90077
#1	89.903	228.11	-44428.	.01060	.01381	1.8806	.02766
#2	-93.142	228.34	-44355.	.01150	.00711	1.8878	.02735
#3	101.54	226.94	-44078.	.01227	.01101	1.8756	.02718
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29812**	**.20933**	**.00114**	**.18890**	**11.944**	**.05086**
Stddev	.00218	.00106	.00114	.00055	.028	.00027
%RSD	.72987	.50727	100.31	.29058	.23470	.53390
#1	.29761	.20901	.00231	.18944	11.976	.05114
#2	.30051	.21051	.00002	.18834	11.930	.05083
#3	.29625	.20846	.00109	.18891	11.925	.05060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47818.**	**46831.**
Stddev	139.	230.
%RSD	.29127	.49128
#1	47668.	46654.
#2	47842.	47091.
#3	47944.	46747.

Approved: March 30, 2011

Sample Name: L1103049835PS Acquired: 3/29/2011 22:48:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360284-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23037**	**76.625**	**.27904**	**1.0861**	**1.7321**	**.03237**	**72.597**
Stddev	.00091	.971	.00104	.0058	.0029	.00010	.054
%RSD	.39707	1.2676	.37386	.53260	.16704	.32347	.07432
#1	.23137	77.541	.27971	1.0921	1.7348	.03248	72.631
#2	.22957	76.728	.27956	1.0859	1.7326	.03235	72.626
#3	.23018	75.606	.27783	1.0805	1.7290	.03228	72.535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12111**	**.17760**	**.36649**	**.88942**	**87.220**	**43.426**	**.59002**
Stddev	.00076	.00122	.00017	.00646	.332	.102	.00236
%RSD	.62957	.68881	.04511	.72598	.38106	.23395	.39925
#1	.12149	.17818	.36667	.89265	86.847	43.310	.59268
#2	.12160	.17843	.36644	.89362	87.486	43.474	.58820
#3	.12023	.17620	.36636	.88198	87.326	43.495	.58917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.180**	**4.4963**	**.51980**	**26.130**	**.35325**	**10.964**	**1.2881**
Stddev	.183	.0177	.00007	.042	.00182	.064	.0035
%RSD	.69829	.39369	.01345	.16226	.51393	.58363	.27454
#1	25.971	4.4780	.51972	26.091	.35411	10.997	1.2909
#2	26.309	4.5133	.51983	26.175	.35448	11.004	1.2893
#3	26.260	4.4976	.51985	26.123	.35117	10.890	1.2841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049835PS Acquired: 3/29/2011 22:48:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360284-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.3391**	F **210.47**	F **-39884.**	**.62892**	**.21034**	**4.3009**	**.02526**
Stddev	15.173	2.25	97.	.00371	.00255	.0227	.00029
%RSD	284.19	1.0709	.24344	.58928	1.2131	.52827	1.1570
#1	-9.6482	211.70	-39972.	.63028	.20880	4.3203	.02560
#2	20.691	211.84	-39901.	.63176	.21329	4.3064	.02509
#3	4.9744	207.87	-39780.	.62473	.20894	4.2759	.02509
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.75333**	**.66704**	**.25242**	**.70845**	**11.316**	**.04437**
Stddev	.00125	.00118	.00162	.00252	.046	.00032
%RSD	.16612	.17750	.64162	.35582	.41014	.72145
#1	.75477	.66576	.25222	.71126	11.351	.04473
#2	.75276	.66811	.25413	.70638	11.334	.04429
#3	.75247	.66724	.25090	.70772	11.264	.04411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48008.**	**46751.**
Stddev	210.	323.
%RSD	.43649	.69195
#1	47851.	47031.
#2	47926.	46397.
#3	48246.	46825.

Approved: March 30, 2011

Sample Name: L1103049835SDL Acquired: 3/29/2011 22:51:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360284-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00239**	**15.611**	**.01734**	**.01726**	**.26391**	**.00131**	**14.850**
Stddev	.00100	.061	.00080	.00077	.00052	.00002	.039
%RSD	41.942	.38899	4.6087	4.4855	.19553	1.5437	.26126
#1	.00153	15.541	.01807	.01801	.26437	.00130	14.882
#2	.00215	15.641	.01649	.01730	.26335	.00129	14.807
#3	.00349	15.650	.01747	.01646	.26401	.00133	14.860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02207**	**.01683**	**.02260**	**.14889**	**19.308**	**4.3682**	**.00445**
Stddev	.00018	.00004	.00041	.00078	.052	.0055	.00044
%RSD	.80057	.20796	1.8151	.52658	.27069	.12569	9.9970
#1	.02216	.01687	.02213	.14840	19.359	4.3619	.00464
#2	.02187	.01684	.02274	.14848	19.254	4.3718	.00477
#3	.02219	.01680	.02291	.14980	19.310	4.3709	.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.1113**	**.97032**	**.00104**	**.14418**	**.02335**	**2.5954**	**.24953**
Stddev	.0031	.00708	.00017	.00366	.00038	.0095	.00314
%RSD	.06006	.72983	16.778	2.5354	1.6400	.36684	1.2593
#1	5.1082	.97712	.00122	.14492	.02320	2.5947	.25041
#2	5.1112	.96299	.00102	.14021	.02379	2.5862	.24604
#3	5.1144	.97086	.00088	.14741	.02307	2.6052	.25214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049835SDL Acquired: 3/29/2011 22:51:51 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360284-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **138.91**	F **49.569**	F **-9414.6**	**.00158**	**.00173**	**.37750**	**.00555**
Stddev	6.63	.272	42.7	.00041	.00171	.00069	.00024
%RSD	4.7721	.54965	.45318	26.259	98.896	.18350	4.2918
#1	136.28	49.409	-9403.2	.00112	.00254	.37775	.00565
#2	146.45	49.414	-9378.9	.00168	-.00024	.37672	.00528
#3	134.00	49.884	-9461.9	.00193	.00287	.37804	.00572
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05718**	**.04153**	**.00179**	**.03696**	**2.5454**	**.00958**
Stddev	.00021	.00038	.00047	.00020	.0018	.00018
%RSD	.37161	.90585	26.226	.54058	.07072	1.8968
#1	.05741	.04191	.00231	.03680	2.5447	.00957
#2	.05698	.04116	.00164	.03689	2.5440	.00977
#3	.05716	.04151	.00141	.03718	2.5474	.00941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50856.**	**47205.**
Stddev	205.	284.
%RSD	.40272	.60157
#1	51071.	47352.
#2	50834.	47386.
#3	50663.	46878.

Approved: March 30, 2011

Sample Name: L1103049835SDL Acquired: 3/29/2011 22:55:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360284-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**2.9996**	**.00507**	**.00298**	**.05041**	**.00023**	**2.8724**
Stddev	.00053	.0095	.00092	.00053	.00008	.00002	.0098
%RSD	61.776	.31512	18.103	17.797	.16034	6.7604	.34026
#1	.00137	2.9896	.00609	.00285	.05039	.00025	2.8812
#2	.00088	3.0084	.00431	.00356	.05050	.00023	2.8619
#3	.00032	3.0007	.00481	.00252	.05035	.00022	2.8742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00434**	**.00344**	**.00373**	**.02968**	**3.7563**	**1.0638**	**-.00817**
Stddev	.00006	.00004	.00026	.00026	.0234	.0421	.00037
%RSD	1.3466	1.1856	7.0471	.87971	.62210	3.9609	4.5350
#1	.00440	.00348	.00371	.02938	3.7293	1.1091	-.00819
#2	.00431	.00343	.00347	.02981	3.7713	1.0566	-.00853
#3	.00430	.00340	.00400	.02986	3.7681	1.0257	-.00779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0017**	**.18889**	**-.00003**	**.03495**	**.00491**	**.52889**	**.04989**
Stddev	.0072	.00085	.00017	.00457	.00011	.00335	.00138
%RSD	.72235	.45054	536.24	13.083	2.2913	.63314	2.7592
#1	.99341	.18798	-.00022	.03979	.00495	.52504	.04957
#2	1.0065	.18966	.00011	.03070	.00499	.53052	.04870
#3	1.0053	.18904	.00001	.03435	.00478	.53112	.05140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049835SDL Acquired: 3/29/2011 22:55:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360284-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **182.91**	F **10.108**	F **-1907.7**	**-.00169**	**-.00119**	**.07104**	**.00065**
Stddev	42.22	.077	2.2	.00059	.00039	.00018	.00007
%RSD	23.083	.76115	.11415	34.957	32.385	.24645	11.534
#1	150.91	10.151	-1907.9	-.00225	-.00163	.07102	.00059
#2	167.05	10.155	-1909.7	-.00173	-.00089	.07087	.00063
#3	230.76	10.020	-1905.3	-.00108	-.00107	.07122	.00073
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01103**	**.00793**	**.00203**	**.00724**	**.52158**	**.00161**
Stddev	.00006	.00060	.00053	.00011	.00103	.00013
%RSD	.51506	7.5294	26.171	1.5148	.19760	7.9484
#1	.01106	.00724	.00202	.00736	.52253	.00175
#2	.01096	.00817	.00257	.00714	.52173	.00154
#3	.01107	.00836	.00151	.00722	.52048	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50743.**	**46221.**
Stddev	127.	42.
%RSD	.24992	.09034
#1	50881.	46242.
#2	50631.	46249.
#3	50719.	46173.

Approved: March 30, 2011

Sample Name: L1103049836 Acquired: 3/29/2011 22:58:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00849**	**93.502**	**.15532**	**.07598**	**1.8057**	**.01010**	**77.187**
Stddev	.00050	.809	.00023	.00105	.0057	.00007	.346
%RSD	5.8637	.86518	.15079	1.3870	.31528	.68781	.44826
#1	.00870	92.791	.15552	.07603	1.8064	.01002	77.064
#2	.00885	93.333	.15538	.07491	1.7997	.01012	76.919
#3	.00793	94.382	.15506	.07702	1.8111	.01015	77.577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09898**	**.19204**	**.13978**	**.58747**	**114.90**	**23.401**	**.07455**
Stddev	.00078	.00070	.00035	.00255	.72	.082	.00070
%RSD	.78482	.36601	.25008	.43372	.62489	.35050	.93870
#1	.09954	.19240	.14014	.58806	114.31	23.355	.07438
#2	.09809	.19124	.13944	.58468	114.69	23.353	.07531
#3	.09931	.19250	.13977	.58968	115.70	23.496	.07394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.657**	**11.059**	**.00771**	**.85415**	**.13862**	**12.440**	**1.2920**
Stddev	.215	.082	.00014	.00720	.00043	.030	.0041
%RSD	.91061	.73923	1.8631	.84290	.30924	.24434	.31891
#1	23.432	10.992	.00788	.86236	.13876	12.464	1.2966
#2	23.679	11.036	.00763	.84890	.13814	12.406	1.2886
#3	23.861	11.150	.00763	.85120	.13896	12.450	1.2909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049836 Acquired: 3/29/2011 22:58:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-9.0948**	F **177.45**	F **-29966.**	**.01280**	**.01364**	**2.1886**	**.02087**
Stddev	17.634	.92	50.	.00134	.00355	.0049	.00019
%RSD	193.89	.51872	.16677	10.457	26.034	.22232	.88938
#1	11.241	178.11	-30019.	.01259	.01282	2.1941	.02106
#2	-18.368	176.40	-29920.	.01158	.01754	2.1848	.02088
#3	-20.157	177.84	-29958.	.01423	.01058	2.1868	.02069
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37189**	**.18548**	**.00313**	**.31713**	**11.514**	**.07568**
Stddev	.00066	.00081	.00171	.00193	.015	.00008
%RSD	.17780	.43890	54.621	.60783	.13250	.10747
#1	.37207	.18522	.00143	.31492	11.525	.07562
#2	.37116	.18483	.00484	.31804	11.496	.07577
#3	.37245	.18639	.00311	.31843	11.521	.07564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48090.**	**46080.**
Stddev	136.	144.
%RSD	.28309	.31306
#1	47933.	46238.
#2	48161.	46046.
#3	48175.	45955.

Approved: March 30, 2011

Sample Name: L1103049837S Acquired: 3/29/2011 23:02:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20166**	**84.224**	**.34168**	**.06700**	**1.5194**	**.00998**	**66.894**
Stddev	.00131	.150	.00046	.00025	.0028	.00001	.122
%RSD	.65176	.17766	.13451	.37503	.18610	.14996	.18281
#1	.20265	84.363	.34220	.06684	1.5199	.00997	66.887
#2	.20216	84.066	.34131	.06686	1.5219	.00998	67.019
#3	.20017	84.243	.34154	.06729	1.5163	.01000	66.775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10312**	**.10801**	**.13163**	**.83164**	**102.74**	**21.206**	**.06110**
Stddev	.00040	.00028	.00043	.00068	.14	.046	.00054
%RSD	.39053	.26059	.32805	.08222	.13653	.21762	.88662
#1	.10265	.10769	.13151	.83103	102.86	21.178	.06161
#2	.10338	.10818	.13211	.83238	102.76	21.259	.06116
#3	.10332	.10817	.13127	.83151	102.58	21.181	.06053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.377**	**6.1785**	**.00633**	**.75524**	**.12614**	**10.122**	**1.4539**
Stddev	.024	.0153	.00009	.00501	.00075	.017	.0108
%RSD	.11275	.24718	1.3597	.66321	.59193	.16984	.74031
#1	21.401	6.1882	.00623	.75391	.12551	10.102	1.4597
#2	21.353	6.1864	.00640	.76078	.12594	10.131	1.4605
#3	21.376	6.1609	.00635	.75103	.12696	10.132	1.4415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049837S Acquired: 3/29/2011 23:02:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.4622**	F **158.97**	F **-26654.**	**.01290**	**.00900**	**2.1316**	**.01942**
Stddev	93.070	.38	56.	.00093	.00025	.0049	.00025
%RSD	1703.9	.23735	.20934	7.2082	2.7629	.23150	1.2743
#1	96.891	158.58	-26599.	.01256	.00888	2.1259	.01951
#2	-89.168	159.33	-26652.	.01396	.00884	2.1343	.01914
#3	8.6638	159.01	-26710.	.01219	.00929	2.1346	.01961
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.35300**	**.19308**	**.00358**	**.30238**	**10.338**	**.07565**
Stddev	.00068	.00131	.00134	.00106	.008	.00025
%RSD	.19299	.67786	37.532	.34985	.08065	.33407
#1	.35248	.19208	.00296	.30206	10.333	.07546
#2	.35377	.19456	.00512	.30152	10.334	.07556
#3	.35275	.19259	.00265	.30356	10.348	.07594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48224.**	**47455.**
Stddev	85.	404.
%RSD	.17654	.85173
#1	48135.	46993.
#2	48232.	47630.
#3	48304.	47743.

Approved: March 30, 2011

Sample Name: L1103049838SD Acquired: 3/29/2011 23:06:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20447**	**77.182**	**.31359**	**.06360**	**1.4439**	**.00855**	**66.928**
Stddev	.00098	.696	.00160	.00038	.0071	.00001	.244
%RSD	.47854	.90127	.50930	.60345	.49338	.15856	.36509
#1	.20560	76.803	.31198	.06351	1.4401	.00855	66.689
#2	.20393	77.985	.31518	.06328	1.4395	.00854	66.917
#3	.20388	76.759	.31362	.06403	1.4521	.00857	67.177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10156**	**.13356**	**.12772**	**.76683**	**94.722**	**18.670**	**.06597**
Stddev	.00061	.00065	.00071	.00322	.313	.063	.00067
%RSD	.60428	.48849	.55660	.41973	.33042	.33943	1.0175
#1	.10107	.13320	.12706	.76370	94.690	18.617	.06658
#2	.10225	.13431	.12847	.77013	94.426	18.652	.06608
#3	.10135	.13317	.12762	.76668	95.050	18.740	.06525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.855**	**7.3394**	**.00601**	**.68464**	**.12430**	**9.0981**	**1.3718**
Stddev	.044	.0221	.00005	.00341	.00057	.0286	.0020
%RSD	.18255	.30043	.84523	.49750	.45489	.31477	.14750
#1	23.867	7.3363	.00596	.68661	.12367	9.0746	1.3704
#2	23.807	7.3191	.00606	.68070	.12448	9.1300	1.3708
#3	23.891	7.3629	.00603	.68660	.12476	9.0898	1.3741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049838SD Acquired: 3/29/2011 23:06:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360077-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **37.996**	F **149.05**	F **-23400.**	**.01333**	**.00844**	**2.3659**	**.02018**
Stddev	35.212	.76	32.	.00238	.00155	.0204	.00006
%RSD	92.674	.51106	.13684	17.837	18.306	.86103	.32044
#1	57.270	148.50	-23397.	.01568	.00791	2.3554	.02011
#2	-2.6459	149.92	-23370.	.01338	.00723	2.3894	.02021
#3	59.362	148.73	-23433.	.01093	.01018	2.3530	.02022
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28931**	**.18516**	**.00324**	**.26416**	**9.5916**	**.06484**
Stddev	.00090	.00020	.00026	.00051	.0204	.00024
%RSD	.31008	.10598	7.9688	.19256	.21287	.36318
#1	.28828	.18507	.00308	.26362	9.5836	.06459
#2	.28969	.18503	.00354	.26463	9.6149	.06506
#3	.28995	.18539	.00309	.26422	9.5765	.06487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47783.**	**47630.**
Stddev	118.	193.
%RSD	.24684	.40606
#1	47880.	47409.
#2	47652.	47708.
#3	47818.	47772.

Approved: March 30, 2011

Sample Name: L1103049839 Acquired: 3/29/2011 23:09:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04700**	**60.787**	**.26493**	**.13186**	**.95620**	**.00480**	F **2295.5**
Stddev	.00019	.040	.00235	.00109	.00489	.00002	42.8
%RSD	.40875	.06602	.88783	.82852	.51155	.40716	1.8640
#1	.04709	60.833	.26256	.13312	.96020	.00480	2324.2
#2	.04712	60.763	.26497	.13130	.95074	.00478	2246.3
#3	.04677	60.763	.26727	.13117	.95765	.00481	2315.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19639**	**.08471**	**.10858**	**2.8667**	**219.77**	**11.109**	**.16865**
Stddev	.00043	.00016	.00090	.0083	.96	.060	.00011
%RSD	.22103	.18800	.83274	.29124	.43622	.53937	.06738
#1	.19621	.08474	.10801	2.8608	220.50	11.176	.16878
#2	.19688	.08486	.10811	2.8762	218.68	11.060	.16858
#3	.19606	.08454	.10962	2.8630	220.13	11.091	.16858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**209.67**	**12.785**	**.01210**	**1.8286**	**.12204**	**5.4782**	**2.9012**
Stddev	.55	.096	.00047	.0116	.00091	.0359	.0055
%RSD	.26113	.75323	3.8956	.63671	.74538	.65571	.18816
#1	210.12	12.857	.01159	1.8277	.12105	5.5103	2.8982
#2	209.06	12.676	.01217	1.8175	.12285	5.4394	2.9075
#3	209.82	12.823	.01252	1.8407	.12221	5.4848	2.8979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049839 Acquired: 3/29/2011 23:09:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **92.476**	F **2668.5**	F **-79863.**	**.09488**	**.01680**	**2.7828**	**.05681**
Stddev	31.811	8.1	209.	.00027	.00352	.0242	.00015
%RSD	34.399	.30341	.26119	.28437	20.952	.86927	.26938
#1	76.688	2663.0	-80098.	.09457	.01324	2.8003	.05672
#2	71.648	2677.8	-79793.	.09500	.01688	2.7931	.05699
#3	129.09	2664.7	-79699.	.09507	.02028	2.7552	.05672
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **4.6917**	**.19835**	**-.00037**	**.19643**	**37.130**	**.04500**
Stddev	.0490	.00061	.00188	.00092	.209	.00037
%RSD	1.0440	.30538	507.29	.47069	.56169	.81911
#1	4.7473	.19801	-.00170	.19629	37.236	.04491
#2	4.6729	.19905	-.00120	.19559	37.265	.04469
#3	4.6550	.19799	.00178	.19742	36.890	.04541
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	4.5000					
Low Limit	-.01000					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**41723.**	**44401.**
Stddev	77.	373.
%RSD	.18539	.83897
#1	41643.	43977.
#2	41729.	44677.
#3	41797.	44549.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 23:13:37 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .44300	10.433	.43636	.53152	.99637	.05367	9.5586
Stddev	.00417	.228	.00837	.00873	.00130	.00061	.0239
%RSD	.94077	2.1875	1.9188	1.6423	.13060	1.1429	.25058
#1	.44781	10.694	.44595	.54157	.99556	.05437	9.5750
#2	.44047	10.270	.43054	.52716	.99569	.05324	9.5696
#3	.44071	10.336	.43258	.52583	.99787	.05340	9.5311
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05466	F .22022	.53470	F .55243	3.7093	50.490	1.0156
Stddev	.00117	.00423	.00810	.01051	.0045	.067	.0008
%RSD	2.1487	1.9186	1.5150	1.9031	.11997	.13329	.07845
#1	.05601	.22499	.54383	.56453	3.7044	50.489	1.0146
#2	.05393	.21693	.52836	.54550	3.7132	50.558	1.0160
#3	.05404	.21876	.53192	.54726	3.7102	50.423	1.0160
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.20000		.50000			
Range		10.000%		10.000%			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.2425	F .44297	1.0128	49.630	.53424	F -.00348	.54067
Stddev	.0267	.00145	.0240	.233	.01164	.00353	.01112
%RSD	.28925	.32741	2.3738	.47047	2.1792	101.33	2.0572
#1	9.2723	.44249	1.0405	49.763	.54766	.00028	.55348
#2	9.2207	.44461	.99861	49.766	.52682	-.00401	.53498
#3	9.2344	.44183	.99915	49.360	.52824	-.00672	.53354
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 23:13:37 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **198.40**	**10.832**	F **31.667**	F **1.3367**	**.41857**	F **.00657**	**1.0759**
Stddev	50.48	.282	4.874	.0262	.00773	.00140	.0235
%RSD	25.442	2.6037	15.392	1.9625	1.8475	21.360	2.1815
#1	243.80	11.157	26.051	1.3670	.42658	.00813	1.1030
#2	207.36	10.655	34.802	1.3215	.41798	.00618	1.0615
#3	144.04	10.684	34.147	1.3217	.41114	.00541	1.0632
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000	1.2000		5.0000	
Range	10.000%		10.000%	10.000%		-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95945**	**.97045**	F **.55488**	**1.0697**	**1.0356**	F **.00069**
Stddev	.00408	.00045	.01226	.0151	.0249	.00011
%RSD	.42539	.04681	2.2089	1.4151	2.4040	16.553
#1	.96163	.97009	.56901	1.0870	1.0643	.00056
#2	.96198	.97031	.54702	1.0592	1.0195	.00077
#3	.95474	.97096	.54862	1.0627	1.0230	.00073
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value			.50000			1.0000
Range			10.000%			-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48112.**	**44603.**
Stddev	737.	65.
%RSD	1.5321	.14621
#1	47262.	44530.
#2	48584.	44623.
#3	48488.	44656.

Approved: March 30, 2011

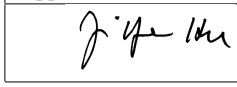
Sample Name: CCB Acquired: 3/29/2011 23:17:01 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.01390**	**.00073**	**.00183**	**-.00057**	**-.00001**	**.00912**
Stddev	.00103	.00296	.00202	.00016	.00012	.00003	.00435
%RSD	387.45	21.276	276.81	8.6996	20.808	324.96	47.723
#1	.00093	.01686	.00192	.00201	-.00053	.00001	.01342
#2	-.00092	.01388	-.00160	.00172	-.00071	-.00004	.00471
#3	.00079	.01095	.00187	.00176	-.00048	.00000	.00924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00007**	**-.00036**	**.00005**	**-.00205**	**.27411**	**-.01232**
Stddev	.00008	.00003	.00023	.00041	.00190	.02358	.00089
%RSD	120.75	37.271	65.246	770.79	92.911	8.6008	7.2521
#1	-.00016	.00010	-.00060	.00012	-.00314	.25459	-.01180
#2	-.00002	.00006	-.00033	.00043	.00015	.30030	-.01181
#3	-.00002	.00005	-.00014	-.00039	-.00314	.26745	-.01336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01017**	**-.00019**	**.00004**	**.00704**	**.00052**	**-.00140**	**-.00025**
Stddev	.01177	.00034	.00011	.00520	.00090	.00080	.00102
%RSD	115.74	180.85	301.92	73.788	172.89	57.454	412.96
#1	-.02001	-.00056	.00015	.00580	.00154	-.00116	.00000
#2	-.01338	.00011	-.00008	.01275	-.00017	-.00074	-.00137
#3	.00287	-.00012	.00005	.00258	.00019	-.00229	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011



Sample Name: CCB Acquired: 3/29/2011 23:17:01 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **230.02**	**-.00812**	F **24.452**	**-.00090**	**-.00023**	**.00001**	**-.00032**
Stddev	41.12	.02233	.713	.00065	.00142	.00088	.00031
%RSD	17.876	275.00	2.9140	72.588	619.79	8492.2	95.959
#1	277.48	-.01032	24.716	-.00021	-.00026	.00079	-.00051
#2	207.62	-.02927	24.995	-.00098	.00120	-.00094	.00003
#3	204.97	.01523	23.645	-.00150	-.00163	.00018	-.00048
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000		.01000				
Low Limit	-.01000		-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00131**	**.00001**	**-.00005**	**.00389**	**.00002**
Stddev	.00003	.00089	.00040	.00021	.00081	.00008
%RSD	28.517	68.333	2819.0	388.43	20.855	324.31
#1	-.00014	.00145	-.00042	-.00015	.00479	.00008
#2	-.00009	.00212	.00037	-.00019	.00322	.00005
#3	-.00010	.00035	.00008	.00019	.00366	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49112.**	**43929.**
Stddev	87.	399.
%RSD	.17762	.90861
#1	49136.	44388.
#2	49184.	43736.
#3	49015.	43663.

Approved: March 30, 2011

Sample Name: L1103049840 Acquired: 3/29/2011 23:20:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02884**	**74.619**	**.23477**	**.07700**	**1.3669**	**.00807**	**146.22**
Stddev	.00065	.776	.00220	.00089	.0049	.00003	.53
%RSD	2.2669	1.0398	.93646	1.1506	.35974	.37960	.36577
#1	.02841	74.411	.23617	.07751	1.3716	.00804	146.56
#2	.02959	73.968	.23589	.07598	1.3618	.00810	145.60
#3	.02851	75.477	.23223	.07751	1.3672	.00808	146.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13670**	**.12527**	**.11784**	**2.7798**	**126.85**	**14.520**	**.06382**
Stddev	.00039	.00037	.00068	.0055	.42	.036	.00028
%RSD	.28213	.29733	.57469	.19655	.33250	.25114	.43106
#1	.13674	.12527	.11761	2.7748	127.14	14.539	.06414
#2	.13630	.12564	.11731	2.7791	126.37	14.478	.06365
#3	.13707	.12490	.11860	2.7857	127.05	14.544	.06368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.179**	**6.1769**	**.01020**	**.99168**	**.14708**	**4.0240**	**3.2368**
Stddev	.083	.0240	.00032	.00344	.00037	.0091	.0031
%RSD	.39274	.38787	3.1517	.34728	.25410	.22599	.09609
#1	21.204	6.1885	.01004	.99502	.14713	4.0137	3.2337
#2	21.086	6.1494	.01057	.98814	.14668	4.0275	3.2399
#3	21.246	6.1929	.00999	.99188	.14743	4.0309	3.2368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049840 Acquired: 3/29/2011 23:20:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **59.086**	F **247.19**	F **-28783.**	**.05674**	**.01145**	**2.0678**	**.05136**
Stddev	54.482	.34	53.	.00183	.00210	.0050	.00045
%RSD	92.208	.13908	.18563	3.2218	18.335	.24228	.86992
#1	80.018	247.16	-28738.	.05467	.01262	2.0622	.05094
#2	-2.7578	246.86	-28769.	.05741	.00903	2.0694	.05130
#3	99.999	247.54	-28842.	.05813	.01272	2.0718	.05183
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.57571**	**.17479**	**.00288**	**.27787**	**31.689**	**.06529**
Stddev	.00155	.00136	.00170	.00137	.172	.00042
%RSD	.26869	.78002	59.218	.49215	.54209	.64240
#1	.57651	.17322	.00129	.27642	31.509	.06481
#2	.57393	.17548	.00468	.27806	31.706	.06561
#3	.57670	.17567	.00267	.27914	31.851	.06544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**46924.**	**46115.**
Stddev	10.	334.
%RSD	.02053	.72377
#1	46918.	45802.
#2	46935.	46466.
#3	46919.	46078.

Approved: March 30, 2011

Sample Name: L1103049841 Acquired: 3/29/2011 23:24:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00799**	**102.97**	**.07290**	**.06743**	**1.8673**	**.00907**	**55.703**
Stddev	.00067	1.10	.00080	.00058	.0065	.00001	.149
%RSD	8.3705	1.0675	1.0953	.86159	.34833	.09642	.26757
#1	.00722	103.49	.07376	.06694	1.8599	.00908	55.552
#2	.00835	101.71	.07218	.06807	1.8722	.00906	55.850
#3	.00840	103.71	.07278	.06727	1.8699	.00906	55.707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08676**	**.09644**	**.13300**	**.51048**	**110.22**	**24.475**	**.07347**
Stddev	.00027	.00019	.00052	.00086	.16	.038	.00120
%RSD	.31340	.19951	.39344	.16887	.14067	.15335	1.6310
#1	.08697	.09660	.13306	.51033	110.40	24.465	.07217
#2	.08685	.09649	.13244	.51141	110.11	24.517	.07453
#3	.08645	.09622	.13348	.50971	110.16	24.444	.07372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.196**	**5.3262**	**.00756**	**.75697**	**.12029**	**13.930**	**.89870**
Stddev	.176	.0116	.00002	.00594	.00048	.026	.00314
%RSD	.76016	.21801	.26926	.78494	.40105	.18716	.34896
#1	23.400	5.3226	.00754	.76330	.11991	13.946	.89882
#2	23.102	5.3392	.00757	.75612	.12084	13.945	.89551
#3	23.087	5.3169	.00758	.75151	.12013	13.900	.90178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049841 Acquired: 3/29/2011 23:24:26 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.2274**	F **157.45**	F **-29782.**	**.00835**	**.00990**	**2.2640**	**.02203**
Stddev	21.144	.30	36.	.00169	.00195	.0196	.00028
%RSD	256.99	.18961	.11966	20.292	19.733	.86682	1.2726
#1	6.1556	157.38	-29806.	.00850	.00941	2.2852	.02191
#2	30.331	157.78	-29741.	.00996	.01205	2.2601	.02235
#3	-11.804	157.20	-29799.	.00658	.00824	2.2465	.02184
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30742**	**.13667**	**.00194**	**.22473**	**10.237**	**.06941**
Stddev	.00065	.00068	.00096	.00070	.023	.00030
%RSD	.21092	.49412	49.363	.31130	.22463	.43354
#1	.30680	.13667	.00136	.22407	10.257	.06913
#2	.30809	.13734	.00142	.22464	10.212	.06973
#3	.30738	.13599	.00304	.22546	10.242	.06939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47815.**	**47199.**
Stddev	48.	771.
%RSD	.10070	1.6345
#1	47859.	46310.
#2	47763.	47586.
#3	47821.	47700.

Approved: March 30, 2011

Sample Name: L1103049842 Acquired: 3/29/2011 23:28:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00876**	**141.95**	**.13864**	**.09222**	**2.1171**	**.01306**	**69.265**
Stddev	.00057	1.33	.00175	.00048	.0134	.00003	.562
%RSD	6.5512	.93367	1.2649	.52201	.63296	.24718	.81092
#1	.00816	142.93	.13685	.09207	2.1309	.01303	69.901
#2	.00930	142.47	.14035	.09276	2.1163	.01304	69.056
#3	.00882	140.44	.13872	.09184	2.1041	.01309	68.837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07268**	**.14084**	**.17759**	**.57989**	**153.26**	**25.453**	**.10686**
Stddev	.00022	.00036	.00069	.00261	.80	.163	.00134
%RSD	.30277	.25709	.38715	.44948	.51943	.63955	1.2501
#1	.07277	.14073	.17716	.58056	154.18	25.633	.10834
#2	.07285	.14124	.17839	.58210	152.75	25.409	.10650
#3	.07243	.14054	.17723	.57702	152.85	25.316	.10574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**31.360**	**6.0093**	**.00787**	**.79975**	**.17933**	**7.0889**	**.84710**
Stddev	.147	.0664	.00013	.00351	.00065	.0249	.00151
%RSD	.46804	1.1054	1.6512	.43922	.36049	.35175	.17787
#1	31.488	6.0860	.00795	.80358	.17866	7.0933	.84774
#2	31.200	5.9708	.00795	.79668	.17995	7.1114	.84819
#3	31.390	5.9711	.00772	.79899	.17938	7.0621	.84538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049842 Acquired: 3/29/2011 23:28:03 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-49.718**	F **212.71**	F **-41472.**	**.01147**	**.01089**	**1.8288**	**.02061**
Stddev	36.025	.97	405.	.00176	.00343	.0088	.00013
%RSD	72.459	.45667	.97562	15.367	31.517	.47867	.61190
#1	-91.311	213.01	-41932.	.01344	.01148	1.8317	.02047
#2	-28.322	213.50	-41310.	.01005	.01399	1.8357	.02070
#3	-29.522	211.63	-41173.	.01091	.00720	1.8190	.02067
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38692**	**.14483**	**.00537**	**.38668**	**8.9714**	**.09912**
Stddev	.00309	.00063	.00197	.00035	.0149	.00031
%RSD	.79845	.43222	36.680	.09168	.16611	.31163
#1	.39035	.14551	.00347	.38678	8.9883	.09910
#2	.38604	.14471	.00741	.38628	8.9662	.09943
#3	.38437	.14428	.00524	.38697	8.9598	.09882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47950.**	**47864.**
Stddev	113.	547.
%RSD	.23580	1.1424
#1	47852.	47280.
#2	47923.	48363.
#3	48074.	47950.

Approved: March 30, 2011

Sample Name: L1103049843 Acquired: 3/29/2011 23:31:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01328**	**92.915**	**.13429**	**.08128**	**1.8066**	**.01093**	**68.155**
Stddev	.00059	.351	.00264	.00089	.0024	.00003	.170
%RSD	4.4140	.37751	1.9675	1.0978	.13156	.29536	.24895
#1	.01373	92.622	.13162	.08046	1.8093	.01092	68.202
#2	.01262	92.819	.13434	.08116	1.8047	.01090	67.967
#3	.01349	93.303	.13690	.08223	1.8058	.01096	68.296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12440**	**.11488**	**.15758**	**1.0934**	**124.97**	**22.721**	**.06950**
Stddev	.00017	.00016	.00072	.0025	.22	.067	.00060
%RSD	.13673	.13859	.45782	.22690	.17834	.29634	.86534
#1	.12432	.11482	.15730	1.0935	124.74	22.710	.06920
#2	.12429	.11476	.15704	1.0909	124.99	22.660	.06910
#3	.12460	.11506	.15840	1.0959	125.18	22.793	.07019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.965**	**5.9528**	**.00759**	**.69290**	**.15002**	**5.2191**	**1.8075**
Stddev	.114	.0262	.00011	.00199	.00106	.0126	.0037
%RSD	.57041	.43948	1.4543	.28666	.70699	.24173	.20675
#1	19.851	5.9429	.00763	.69351	.14950	5.2072	1.8109
#2	19.965	5.9330	.00746	.69069	.14931	5.2177	1.8035
#3	20.079	5.9825	.00767	.69452	.15124	5.2323	1.8079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049843 Acquired: 3/29/2011 23:31:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-25.775**	F **166.15**	F **-28918.**	**.01775**	**.01303**	**1.9193**	**.04156**
Stddev	83.600	.56	43.	.00075	.00377	.0047	.00043
%RSD	324.35	.33916	.14806	4.2195	28.923	.24370	1.0372
#1	-120.85	166.17	-28915.	.01855	.01308	1.9146	.04106
#2	36.254	165.57	-28877.	.01766	.00923	1.9193	.04181
#3	7.268	166.70	-28962.	.01706	.01677	1.9240	.04180
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38108**	**.20767**	**.00539**	**.35729**	**20.039**	**.08792**
Stddev	.00141	.00069	.00132	.00019	.059	.00042
%RSD	.37106	.33408	24.545	.05420	.29266	.47292
#1	.38210	.20833	.00504	.35717	20.105	.08747
#2	.37947	.20773	.00685	.35718	19.993	.08830
#3	.38169	.20695	.00427	.35751	20.020	.08797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48265.**	**47557.**
Stddev	58.	67.
%RSD	.11925	.14093
#1	48203.	47633.
#2	48317.	47506.
#3	48274.	47532.

Approved: March 30, 2011

Sample Name: L1103049844 Acquired: 3/29/2011 23:35:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01120**	**104.52**	**.09859**	**.08520**	**2.0699**	**.01205**	**152.61**
Stddev	.00075	.71	.00214	.00066	.0097	.00005	.95
%RSD	6.6939	.68283	2.1729	.77740	.46683	.44003	.61923
#1	.01063	105.28	.10064	.08522	2.0792	.01202	153.66
#2	.01092	103.87	.09875	.08454	2.0706	.01211	151.83
#3	.01205	104.40	.09637	.08586	2.0599	.01201	152.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12563**	**.14310**	**.16105**	**.80651**	**118.77**	**34.318**	**.07472**
Stddev	.00025	.00034	.00084	.00140	.31	.141	.00079
%RSD	.20154	.23739	.51877	.17414	.25978	.40984	1.0633
#1	.12559	.14329	.16023	.80638	119.13	34.480	.07454
#2	.12539	.14270	.16190	.80518	118.64	34.221	.07558
#3	.12589	.14329	.16101	.80798	118.56	34.255	.07402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.345**	**6.6297**	**.00996**	**.69712**	**.15354**	**15.557**	**1.6458**
Stddev	.108	.0435	.00012	.00177	.00056	.021	.0003
%RSD	.38007	.65613	1.2042	.25408	.36514	.13212	.01586
#1	28.387	6.6775	.00983	.69593	.15313	15.566	1.6460
#2	28.222	6.5925	.00999	.69627	.15417	15.534	1.6455
#3	28.424	6.6189	.01007	.69916	.15330	15.572	1.6459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049844 Acquired: 3/29/2011 23:35:18 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.8022**	F **376.03**	F **-65165.**	**.01270**	**.01271**	**2.2013**	**.03312**
Stddev	23.220	1.42	60.	.00047	.00175	.0004	.00043
%RSD	1288.4	.37695	.09187	3.7117	13.795	.02058	1.2947
#1	17.438	376.12	-65151.	.01217	.01325	2.2018	.03343
#2	4.7495	374.58	-65112.	.01287	.01413	2.2009	.03263
#3	-27.594	377.41	-65230.	.01307	.01075	2.2013	.03330
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.66572**	**.18087**	**.00289**	**.29991**	**15.576**	**.09719**
Stddev	.00329	.00048	.00112	.00018	.020	.00012
%RSD	.49446	.26429	38.747	.05938	.12677	.12740
#1	.66918	.18096	.00212	.30010	15.579	.09733
#2	.66263	.18129	.00418	.29975	15.593	.09715
#3	.66535	.18035	.00239	.29987	15.554	.09710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47554.**	**46868.**
Stddev	96.	475.
%RSD	.20133	1.0140
#1	47444.	46332.
#2	47612.	47237.
#3	47607.	47035.

Approved: March 30, 2011

Sample Name: L1103049845 Acquired: 3/29/2011 23:38:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00701**	**101.97**	**.15363**	**.09764**	**1.9345**	**.01224**	**62.905**
Stddev	.00141	.57	.00135	.00051	.0034	.00004	.246
%RSD	20.138	.56062	.87937	.52712	.17394	.32555	.39027
#1	.00859	102.52	.15499	.09784	1.9307	.01224	62.666
#2	.00587	102.01	.15361	.09706	1.9370	.01229	62.893
#3	.00657	101.38	.15229	.09803	1.9358	.01221	63.157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08697**	**.13452**	**.15621**	**.61393**	**168.60**	**26.305**	**.07068**
Stddev	.00097	.00133	.00039	.00282	.85	.092	.00147
%RSD	1.1171	.98896	.25126	.45980	.50252	.34985	2.0790
#1	.08765	.13537	.15666	.61450	167.98	26.244	.07207
#2	.08741	.13521	.15603	.61643	168.24	26.260	.07082
#3	.08586	.13299	.15594	.61087	169.56	26.411	.06914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.989**	**6.9404**	**.00694**	**.75521**	**.15146**	**13.426**	**1.3994**
Stddev	.180	.0509	.00008	.00429	.00055	.048	.0120
%RSD	.82087	.73279	1.1103	.56748	.36097	.35737	.85471
#1	21.834	6.8983	.00685	.75040	.15141	13.444	1.3876
#2	21.946	6.9261	.00698	.75664	.15202	13.463	1.4115
#3	22.188	6.9969	.00698	.75860	.15093	13.372	1.3992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049845 Acquired: 3/29/2011 23:38:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **29.537**	F **153.25**	F **-26118.**	**.01387**	**.00776**	**1.7392**	**.03082**
Stddev	44.741	1.09	79.	.00094	.00026	.0071	.00035
%RSD	151.48	.71048	.30337	6.8139	3.3688	.40729	1.1347
#1	-22.122	153.71	-26182.	.01307	.00803	1.7404	.03046
#2	54.778	154.03	-26143.	.01362	.00750	1.7457	.03084
#3	55.954	152.01	-26030.	.01491	.00776	1.7316	.03116
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42895**	**.15157**	**.00635**	**.39216**	**11.025**	**.08750**
Stddev	.00102	.00061	.00199	.00128	.043	.00026
%RSD	.23720	.40441	31.380	.32705	.38900	.29601
#1	.42778	.15104	.00864	.39139	11.055	.08758
#2	.42962	.15141	.00509	.39364	11.044	.08770
#3	.42947	.15224	.00531	.39146	10.976	.08721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48112.**	**47021.**
Stddev	208.	375.
%RSD	.43319	.79671
#1	47941.	47015.
#2	48052.	47399.
#3	48344.	46650.

Approved: March 30, 2011

Sample Name: L1103049846 Acquired: 3/29/2011 23:42:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01246**	**115.08**	**.14039**	**.08232**	**2.1370**	**.01168**	**889.65**
Stddev	.00008	.65	.00049	.00094	.0089	.00002	22.63
%RSD	.66645	.56422	.34984	1.1440	.41711	.15857	2.5440
#1	.01241	114.77	.14014	.08245	2.1342	.01167	873.71
#2	.01256	115.82	.14008	.08131	2.1298	.01170	879.69
#3	.01242	114.64	.14096	.08318	2.1470	.01167	915.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09447**	**.13934**	**.17219**	**.66845**	**132.33**	**18.506**	**.11764**
Stddev	.00060	.00051	.00063	.00327	1.12	.122	.00130
%RSD	.63359	.36553	.36614	.48976	.84404	.65722	1.1086
#1	.09445	.13932	.17262	.66489	131.41	18.450	.11902
#2	.09388	.13883	.17147	.66910	131.99	18.422	.11749
#3	.09508	.13985	.17249	.67134	133.57	18.646	.11642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.196**	**8.1582**	**.01127**	**2.1543**	**.19021**	**8.7658**	**1.2495**
Stddev	.336	.0871	.00007	.0134	.00044	.0072	.0015
%RSD	.88049	1.0678	.64581	.62008	.23208	.08195	.11798
#1	37.898	8.1115	.01124	2.1546	.18981	8.7575	1.2509
#2	38.129	8.1044	.01122	2.1407	.19068	8.7693	1.2496
#3	38.561	8.2587	.01136	2.1674	.19014	8.7706	1.2480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049846 Acquired: 3/29/2011 23:42:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.0138**	F **1094.1**	F **-59263.**	**.01441**	**.01296**	**2.2269**	**.02454**
Stddev	32.432	1.5	111.	.00037	.00254	.0030	.00042
%RSD	539.30	.13973	.18773	2.5435	19.581	.13648	1.7122
#1	43.458	1092.4	-59135.	.01408	.01397	2.2284	.02456
#2	-13.258	1095.3	-59317.	.01481	.01007	2.2290	.02496
#3	-12.159	1094.7	-59337.	.01435	.01484	2.2234	.02412
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3321**	**.12114**	**.00374**	**.33032**	**11.182**	**.07684**
Stddev	.0038	.00060	.00108	.00044	.017	.00036
%RSD	.28467	.49859	28.937	.13191	.15181	.47028
#1	1.3328	.12047	.00271	.32994	11.166	.07669
#2	1.3281	.12164	.00487	.33024	11.199	.07658
#3	1.3356	.12132	.00364	.33080	11.181	.07725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**45041.**	**46938.**
Stddev	19.	430.
%RSD	.04318	.91642
#1	45043.	47263.
#2	45059.	47102.
#3	45021.	46450.

Approved: March 30, 2011

Sample Name: L1103049847 Acquired: 3/29/2011 23:46:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01356**	**83.241**	**.21473**	**.08317**	**2.0515**	**.00880**	F **1234.0**
Stddev	.00118	.113	.00345	.00095	.0097	.00008	6.7
%RSD	8.7339	.13520	1.6044	1.1480	.47349	.96215	.54031
#1	.01470	83.264	.21819	.08404	2.0599	.00871	1226.4
#2	.01366	83.340	.21130	.08331	2.0538	.00888	1237.4
#3	.01234	83.118	.21468	.08215	2.0408	.00880	1238.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16501**	**.11601**	**.13870**	**1.0682**	**113.14**	**20.048**	**.10902**
Stddev	.00101	.00153	.00066	.0070	.05	.029	.00088
%RSD	.61202	1.3173	.47805	.65603	.04049	.14285	.80395
#1	.16606	.11775	.13799	1.0754	113.09	20.076	.10912
#2	.16493	.11542	.13930	1.0679	113.14	20.049	.10810
#3	.16404	.11487	.13880	1.0614	113.19	20.019	.10984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**43.673**	**7.9570**	**.00962**	**1.1205**	**.14429**	**10.802**	**2.0883**
Stddev	.252	.0032	.00023	.0096	.00160	.050	.0067
%RSD	.57767	.03981	2.3540	.85413	1.1083	.46082	.32330
#1	43.450	7.9537	.00987	1.1268	.14614	10.857	2.0926
#2	43.623	7.9572	.00958	1.1253	.14331	10.790	2.0918
#3	43.947	7.9600	.00942	1.1095	.14343	10.760	2.0805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049847 Acquired: 3/29/2011 23:46:13 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **49.120**	F **1462.0**	F **-64973.**	**.02496**	**.01488**	**2.1090**	**.03439**
Stddev	59.903	5.6	54.	.00108	.00141	.0092	.00020
%RSD	121.95	.38101	.08291	4.3202	9.4808	.43488	.56886
#1	-19.618	1468.4	-65034.	.02378	.01394	2.1177	.03459
#2	90.172	1458.9	-64951.	.02589	.01650	2.1099	.03420
#3	76.807	1458.7	-64934.	.02523	.01420	2.0994	.03437
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0449**	**.11646**	**.00104**	**.23731**	**16.852**	**.05978**
Stddev	.0043	.00036	.00213	.00086	.059	.00012
%RSD	.21216	.31125	204.63	.36108	.34899	.20157
#1	2.0490	.11651	-.00137	.23714	16.915	.05967
#2	2.0453	.11607	.00184	.23824	16.843	.05976
#3	2.0403	.11679	.00266	.23655	16.799	.05991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44639.**	**46226.**
Stddev	155.	180.
%RSD	.34665	.38868
#1	44507.	46317.
#2	44599.	46342.
#3	44809.	46019.

Approved: March 30, 2011

Sample Name: L1103049848 Acquired: 3/29/2011 23:49:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01772**	**83.575**	**.20414**	**.08395**	**1.8964**	**.00866**	F **1320.6**
Stddev	.00065	.983	.00363	.00039	.0085	.00004	14.3
%RSD	3.6445	1.1762	1.7784	.46377	.44940	.41324	1.0794
#1	.01711	83.032	.20770	.08437	1.9062	.00869	1335.0
#2	.01839	84.710	.20044	.08390	1.8917	.00867	1306.5
#3	.01766	82.984	.20427	.08359	1.8912	.00862	1320.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14808**	**.13398**	**.13838**	**1.3649**	**113.97**	**16.279**	**.11501**
Stddev	.00039	.00086	.00026	.0035	.20	.055	.00119
%RSD	.26355	.64449	.18517	.25531	.17918	.33548	1.0377
#1	.14841	.13440	.13860	1.3667	114.20	16.332	.11562
#2	.14819	.13299	.13810	1.3671	113.85	16.223	.11363
#3	.14765	.13455	.13843	1.3609	113.85	16.284	.11577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**36.510**	**8.2129**	**.01236**	**1.1441**	**.14596**	**8.5085**	**2.1282**
Stddev	.039	.0367	.00006	.0058	.00075	.0181	.0032
%RSD	.10672	.44653	.45941	.50926	.51245	.21227	.14815
#1	36.478	8.2486	.01232	1.1466	.14656	8.5228	2.1299
#2	36.500	8.1754	.01242	1.1374	.14620	8.5146	2.1301
#3	36.553	8.2149	.01233	1.1482	.14512	8.4882	2.1246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049848 Acquired: 3/29/2011 23:49:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.510**	F **1549.4**	F **-67361.**	**.02721**	**.01728**	**2.0027**	**.04124**
Stddev	48.004	1.8	137.	.00165	.00271	.0056	.00015
%RSD	383.73	.11525	.20373	6.0729	15.677	.28164	.37344
#1	15.486	1548.9	-67459.	.02910	.01575	2.0044	.04114
#2	58.957	1551.3	-67421.	.02604	.02041	2.0074	.04142
#3	-36.913	1547.9	-67204.	.02649	.01569	1.9965	.04117
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1731**	**.12924**	**.00178**	**.27110**	**16.954**	**.06258**
Stddev	.0109	.00076	.00166	.00040	.032	.00023
%RSD	.50316	.58437	93.248	.14869	.18620	.36447
#1	2.1821	.12862	.00016	.27103	16.931	.06264
#2	2.1609	.12901	.00347	.27073	16.990	.06233
#3	2.1761	.13008	.00171	.27153	16.942	.06278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**44482.**	**46015.**
Stddev	125.	249.
%RSD	.28071	.54060
#1	44397.	45739.
#2	44425.	46085.
#3	44626.	46221.

Approved: March 30, 2011

Sample Name: L1103049901 Acquired: 3/29/2011 23:53:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00805**	**105.29**	**.10316**	**.07182**	**1.5924**	**.01120**	**40.814**
Stddev	.00018	.44	.00112	.00129	.0097	.00001	.208
%RSD	2.2224	.41744	1.0839	1.7926	.60776	.12523	.51079
#1	.00811	105.52	.10444	.07033	1.5821	.01118	40.584
#2	.00785	104.79	.10235	.07261	1.5937	.01121	40.864
#3	.00819	105.58	.10269	.07252	1.6014	.01121	40.992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10067**	**.14653**	**.15622**	**.65440**	**118.85**	**27.129**	**.06688**
Stddev	.00032	.00013	.00059	.00153	.75	.117	.00115
%RSD	.32271	.08964	.37922	.23378	.63333	.43306	1.7241
#1	.10064	.14642	.15630	.65364	118.01	26.995	.06806
#2	.10037	.14649	.15677	.65340	119.08	27.179	.06682
#3	.10101	.14667	.15559	.65616	119.46	27.213	.06575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.259**	**6.8457**	**.00680**	**.66424**	**.13093**	**9.9772**	**1.1839**
Stddev	.085	.0537	.00013	.00447	.00029	.0061	.0036
%RSD	.44017	.78497	1.8571	.67319	.22167	.06122	.30184
#1	19.186	6.7856	.00669	.66626	.13093	9.9714	1.1816
#2	19.352	6.8626	.00677	.66734	.13064	9.9766	1.1820
#3	19.240	6.8890	.00694	.65911	.13122	9.9835	1.1880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049901 Acquired: 3/29/2011 23:53:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-42.034**	F **130.39**	F **-26551.**	**.01158**	**.00952**	**2.0615**	**.02545**
Stddev	49.281	.36	41.	.00081	.00275	.0042	.00027
%RSD	117.24	.27240	.15258	6.9887	28.940	.20411	1.0617
#1	-95.543	130.17	-26570.	.01225	.00637	2.0651	.02561
#2	-32.050	130.20	-26504.	.01179	.01069	2.0569	.02560
#3	1.4900	130.80	-26578.	.01068	.01149	2.0625	.02514
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.35619**	**.16674**	**.00511**	**.31404**	**10.803**	**.08950**
Stddev	.00053	.00057	.00027	.00037	.029	.00069
%RSD	.15012	.33908	5.3706	.11922	.27192	.77113
#1	.35587	.16657	.00531	.31365	10.777	.08870
#2	.35589	.16629	.00480	.31406	10.798	.08988
#3	.35681	.16737	.00523	.31440	10.835	.08991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48770.**	**47777.**
Stddev	9.	105.
%RSD	.01935	.21984
#1	48781.	47731.
#2	48766.	47703.
#3	48763.	47897.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 23:57:26 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .44162	10.427	.42633	.52811	1.0095	.05310	9.9193
Stddev	.00199	.018	.00105	.00110	.0025	.00003	.0264
%RSD	.45173	.17332	.24627	.20760	.24901	.04873	.26605
#1	.44239	10.443	.42512	.52782	1.0089	.05313	9.9198
#2	.43936	10.408	.42693	.52718	1.0122	.05309	9.9455
#3	.44312	10.430	.42695	.52932	1.0073	.05309	9.8927
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05337	.21489	.52781	.54024	3.7512	51.029	1.0306
Stddev	.00007	.00016	.00056	.00016	.0118	.116	.0023
%RSD	.12261	.07469	.10676	.02931	.31389	.22702	.21981
#1	.05335	.21472	.52798	.54021	3.7378	50.907	1.0325
#2	.05331	.21504	.52718	.54010	3.7600	51.137	1.0313
#3	.05344	.21491	.52827	.54041	3.7557	51.044	1.0281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.2121	F .44823	.99809	50.287	.52307	F -.00041	.52752
Stddev	.0289	.00199	.00092	.120	.00101	.00343	.00150
%RSD	.31348	.44399	.09187	.23858	.19276	845.24	.28373
#1	9.1799	.44653	.99914	50.170	.52348	.00307	.52741
#2	9.2208	.45042	.99745	50.410	.52192	-.00379	.52608
#3	9.2357	.44775	.99769	50.281	.52381	-.00049	.52907
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/29/2011 23:57:26 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **183.12**	**10.646**	F **18.306**	**1.3122**	**.41309**	F **.00423**	**1.0504**
Stddev	25.23	.023	17.397	.0018	.00170	.00060	.0002
%RSD	13.780	.21368	95.039	.13736	.41254	14.167	.02190
#1	212.11	10.621	16.118	1.3102	.41112	.00354	1.0506
#2	166.08	10.651	36.694	1.3134	.41404	.00448	1.0502
#3	171.18	10.666	2.1057	1.3131	.41410	.00466	1.0505
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000			5.0000	
Range	10.000%		10.000%			-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97503**	**.98038**	**.54408**	**1.0621**	**1.0099**	F **.00064**
Stddev	.00240	.00261	.00132	.0019	.0002	.00008
%RSD	.24658	.26672	.24270	.17666	.01814	11.820
#1	.97407	.97903	.54256	1.0618	1.0096	.00071
#2	.97777	.98340	.54487	1.0604	1.0099	.00056
#3	.97325	.97872	.54482	1.0641	1.0100	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48943.**	**44823.**
Stddev	53.	200.
%RSD	.10771	.44710
#1	48992.	45028.
#2	48951.	44813.
#3	48888.	44628.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 0:00:50 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.03436**	**.00117**	**.00128**	**-.00017**	**-.00001**	**.13592**
Stddev	.00038	.00048	.00014	.00064	.00014	.00002	.01095
%RSD	178.26	1.4012	12.154	50.119	84.922	307.66	8.0591
#1	-.00065	.03400	.00133	.00082	-.00034	.00000	.14855
#2	.00005	.03491	.00105	.00202	-.00009	.00000	.13018
#3	-.00004	.03417	.00115	.00101	-.00009	-.00003	.12903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00009**	**-.00066**	**-.00023**	**.02553**	**.24904**	**-.00984**
Stddev	.00009	.00010	.00012	.00050	.00139	.00325	.00074
%RSD	64.329	107.14	19.019	218.76	5.4606	1.3060	7.5362
#1	-.00007	-.00002	-.00070	.00030	.02702	.25279	-.00991
#2	-.00024	.00017	-.00075	-.00028	.02427	.24693	-.01054
#3	-.00010	.00013	-.00051	-.00070	.02530	.24742	-.00906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00760**	**.00129**	**-.00008**	**.00567**	**.00086**	**.00331**	**.00040**
Stddev	.01383	.00025	.00005	.00281	.00030	.00127	.00054
%RSD	181.85	19.752	59.638	49.578	34.339	38.420	133.46
#1	-.01397	.00130	-.00003	.00350	.00120	.00199	.00055
#2	-.01710	.00103	-.00010	.00466	.00069	.00342	.00085
#3	.00826	.00154	-.00012	.00884	.00069	.00452	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 0:00:50 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **174.41**	F **.17107**	F **1.7400**	**-.00006**	**.00039**	**.00122**	**-.00009**
Stddev	44.32	.02893	1.6488	.00072	.00043	.00048	.00043
%RSD	25.410	16.909	94.759	1174.8	110.73	39.007	491.21
#1	171.98	.13772	2.9844	-.00089	.00036	.00146	-.00058
#2	131.36	.18615	-.13005	.00032	-.00003	.00153	.00013
#3	219.89	.18934	2.3656	.00039	.00083	.00067	.00019
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00050**	**.00033**	**-.00004**	**.00623**	**-.00004**
Stddev	.00005	.00024	.00086	.00024	.00082	.00006
%RSD	34.192	47.365	263.46	549.15	13.099	142.33
#1	.00009	.00037	.00132	.00015	.00596	-.00006
#2	.00014	.00077	-.00014	-.00031	.00558	.00002
#3	.00018	.00036	-.00020	.00003	.00714	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49305.**	**44942.**
Stddev	151.	301.
%RSD	.30666	.67074
#1	49467.	44771.
#2	49283.	45290.
#3	49167.	44765.

Approved: March 30, 2011

Sample Name: L1103049902 Acquired: 3/30/2011 0:04:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00712**	**103.21**	**.12722**	**.07088**	**1.6136**	**.01153**	**38.227**
Stddev	.00065	1.17	.00090	.00036	.0025	.00002	.041
%RSD	9.1791	1.1361	.70510	.50296	.15540	.15055	.10657
#1	.00693	102.07	.12619	.07129	1.6125	.01155	38.264
#2	.00658	103.16	.12773	.07068	1.6119	.01151	38.233
#3	.00785	104.41	.12775	.07067	1.6165	.01154	38.183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09321**	**.15928**	**.15141**	**.57579**	**117.31**	**26.369**	**.06560**
Stddev	.00014	.00016	.00064	.00165	.11	.054	.00075
%RSD	.15064	.10293	.42454	.28650	.09330	.20487	1.1462
#1	.09307	.15911	.15213	.57404	117.19	26.397	.06491
#2	.09320	.15944	.15119	.57731	117.32	26.402	.06640
#3	.09335	.15929	.15090	.57602	117.41	26.306	.06549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.145**	**7.7351**	**.00845**	**1.1661**	**.13450**	**9.1994**	**1.1060**
Stddev	.030	.0096	.00042	.0044	.00045	.0076	.0046
%RSD	.15890	.12435	4.9286	.37566	.33767	.08225	.41602	
#1	19.146	7.7453	.00892	1.1697	.13402	9.1908	1.1087
#2	19.175	7.7262	.00814	1.1612	.13456	9.2027	1.1007
#3	19.115	7.7337	.00828	1.1675	.13492	9.2048	1.1086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049902 Acquired: 3/30/2011 0:04:34 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-41.706**	F **116.64**	F **-21680.**	**.01297**	**.01093**	**1.9895**	**.02109**
Stddev	25.508	.32	116.	.00070	.00153	.0052	.00026
%RSD	61.161	.27252	.53413	5.3597	14.041	.25878	1.2457
#1	-66.594	116.49	-21775.	.01276	.01170	1.9948	.02104
#2	-42.903	116.43	-21551.	.01240	.01192	1.9846	.02137
#3	-15.621	117.01	-21714.	.01374	.00916	1.9891	.02085
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.34491**	**.15594**	**.00488**	**.36555**	**9.4103**	**.08237**
Stddev	.00069	.00013	.00037	.00156	.0153	.00010
%RSD	.19925	.08625	7.5675	.42751	.16267	.12668
#1	.34560	.15581	.00446	.36509	9.3976	.08249
#2	.34490	.15608	.00511	.36427	9.4060	.08234
#3	.34423	.15594	.00509	.36730	9.4273	.08229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48407.**	**48047.**
Stddev	78.	424.
%RSD	.16161	.88143
#1	48325.	47676.
#2	48418.	47956.
#3	48480.	48508.

Approved: March 30, 2011

Sample Name: L1103049903 Acquired: 3/30/2011 0:08:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00881**	**131.37**	**.12744**	**.10418**	**2.0584**	**.01214**	**76.056**
Stddev	.00021	1.25	.00137	.00056	.0035	.00001	.053
%RSD	2.3459	.95165	1.0783	.53586	.17216	.06559	.06993
#1	.00888	132.81	.12902	.10481	2.0594	.01214	76.030
#2	.00896	130.78	.12646	.10398	2.0545	.01215	76.021
#3	.00857	130.53	.12685	.10375	2.0614	.01214	76.118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09041**	**.13081**	**.18302**	**.66902**	**159.91**	**29.264**	**.10016**
Stddev	.00032	.00040	.00047	.00284	.43	.008	.00034
%RSD	.35026	.30747	.25607	.42520	.26677	.02640	.34270
#1	.09076	.13127	.18354	.67230	159.61	29.273	.09976
#2	.09031	.13065	.18263	.66722	159.72	29.259	.10031
#3	.09015	.13052	.18289	.66753	160.40	29.260	.10040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.012**	**5.6728**	**.00777**	**1.8630**	**.19600**	**7.6926**	**1.5056**
Stddev	.134	.0081	.00009	.0047	.00084	.0094	.0010
%RSD	.47779	.14314	1.1279	.25128	.42649	.12232	.07001
#1	27.877	5.6694	.00767	1.8684	.19632	7.7028	1.5044
#2	28.017	5.6669	.00784	1.8611	.19662	7.6909	1.5065
#3	28.144	5.6821	.00780	1.8596	.19505	7.6842	1.5059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049903 Acquired: 3/30/2011 0:08:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **18.598**	F **250.01**	F **-50410.**	**.01913**	**.01310**	**2.2222**	**.03502**
Stddev	50.443	1.29	38.	.00025	.00081	.0253	.00010
%RSD	271.23	.51566	.07576	1.3295	6.1732	1.1399	.27881
#1	17.759	251.49	-50454.	.01889	.01348	2.2359	.03513
#2	69.456	249.12	-50385.	.01940	.01217	2.2376	.03496
#3	-31.421	249.43	-50390.	.01908	.01365	2.1929	.03496
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52638**	**.20026**	**.00794**	**.41039**	**11.401**	**.10540**
Stddev	.00077	.00077	.00075	.00111	.023	.00016
%RSD	.14640	.38257	9.4485	.27112	.19754	.15157
#1	.52719	.19968	.00834	.41117	11.427	.10555
#2	.52630	.20113	.00841	.40912	11.387	.10524
#3	.52566	.19996	.00708	.41088	11.389	.10542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48052.**	**47600.**
Stddev	149.	8.
%RSD	.31061	.01758
#1	47889.	47606.
#2	48084.	47604.
#3	48182.	47591.

Approved: March 30, 2011

Sample Name: L1103049904 Acquired: 3/30/2011 0:11:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00256**	**146.17**	**.08361**	**.08520**	**2.1813**	**.01442**	**80.574**
Stddev	.00068	.16	.00103	.00008	.0097	.00002	.379
%RSD	26.666	.10645	1.2321	.09869	.44234	.16793	.47099
#1	.00322	146.00	.08388	.08514	2.1709	.01440	80.222
#2	.00186	146.29	.08448	.08530	2.1830	.01443	80.524
#3	.00259	146.24	.08247	.08516	2.1900	.01444	80.976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02835**	**.12566**	**.16740**	**.29812**	**147.25**	**21.136**	**.11599**
Stddev	.00013	.00020	.00074	.00076	.93	.085	.00110
%RSD	.45453	.16116	.44214	.25644	.63136	.40127	.94737
#1	.02821	.12583	.16742	.29879	146.22	21.045	.11607
#2	.02836	.12571	.16813	.29830	147.48	21.151	.11485
#3	.02847	.12543	.16665	.29729	148.04	21.213	.11704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.948**	**3.9771**	**.00484**	**2.2679**	**.17874**	**3.3572**	**.47531**
Stddev	.231	.0309	.00017	.0076	.00059	.0035	.00075
%RSD	.77017	.77672	3.4990	.33678	.33143	.10403	.15682
#1	29.688	3.9474	.00500	2.2652	.17821	3.3598	.47453
#2	30.027	3.9749	.00466	2.2619	.17938	3.3587	.47601
#3	30.128	4.0090	.00487	2.2765	.17864	3.3533	.47540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049904 Acquired: 3/30/2011 0:11:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.9613**	F **160.26**	F **-23164.**	**.00942**	**.00841**	**1.9498**	**.03050**
Stddev	30.351	.44	32.	.00129	.00049	.0060	.00025
%RSD	338.68	.27725	.13980	13.641	5.8062	.30930	.80527
#1	-8.4957	160.52	-23127.	.00947	.00799	1.9473	.03078
#2	-8.6274	160.51	-23184.	.01068	.00829	1.9567	.03042
#3	44.007	159.75	-23181.	.00811	.00895	1.9455	.03032
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.54919**	**.16204**	**.00563**	**.35217**	**3.5825**	**.09608**
Stddev	.00182	.00025	.00095	.00080	.0017	.00065
%RSD	.33173	.15430	16.906	.22703	.04679	.67753
#1	.54751	.16204	.00519	.35205	3.5843	.09548
#2	.54892	.16229	.00672	.35143	3.5824	.09598
#3	.55112	.16179	.00497	.35302	3.5809	.09677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48482.**	**48699.**
Stddev	58.	209.
%RSD	.12041	.42876
#1	48427.	48811.
#2	48477.	48828.
#3	48543.	48458.

Approved: March 30, 2011

Sample Name: L1103049905 Acquired: 3/30/2011 0:15:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00855**	**159.93**	**.13871**	**.11273**	**2.2176**	**.01397**	**129.60**
Stddev	.00051	1.01	.00060	.00133	.0067	.00007	.39
%RSD	5.9926	.63229	.42909	1.1790	.30283	.52733	.30257
#1	.00884	159.18	.13920	.11203	2.2113	.01390	129.43
#2	.00795	161.08	.13805	.11426	2.2247	.01405	130.05
#3	.00884	159.54	.13889	.11189	2.2170	.01397	129.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08719**	**.13577**	**.20586**	**.82113**	**193.47**	**26.406**	**.12515**
Stddev	.00027	.00039	.00086	.00089	.27	.072	.00061
%RSD	.30921	.28838	.41942	.10793	.13841	.27199	.48972
#1	.08733	.13604	.20661	.82172	193.17	26.366	.12512
#2	.08688	.13532	.20606	.82157	193.68	26.489	.12578
#3	.08737	.13596	.20492	.82011	193.56	26.364	.12456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**31.970**	**5.5190**	**.00786**	**1.8642**	**.22960**	**5.6392**	**1.4731**
Stddev	.069	.0126	.00023	.0047	.00098	.0025	.0124
%RSD	.21596	.22748	2.9818	.25278	.42486	.04485	.84247
#1	31.991	5.5158	.00813	1.8672	.23071	5.6376	1.4873
#2	31.893	5.5328	.00773	1.8666	.22888	5.6379	1.4670
#3	32.026	5.5083	.00773	1.8587	.22921	5.6421	1.4649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049905 Acquired: 3/30/2011 0:15:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-44.881**	F **271.97**	F **-40816.**	**.02052**	**.00938**	**2.0140**	**.04827**
Stddev	62.111	.07	168.	.00122	.00126	.0111	.00035
%RSD	138.39	.02565	.41079	5.9653	13.477	.55205	.71581
#1	18.484	271.93	-40932.	.01953	.00814	2.0234	.04864
#2	-105.66	272.05	-40623.	.02189	.00933	2.0017	.04795
#3	-47.470	271.93	-40892.	.02015	.01066	2.0168	.04821
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53018**	**.16906**	**.00847**	**.43153**	**11.612**	**.11247**
Stddev	.00181	.00096	.00055	.00086	.026	.00012
%RSD	.34184	.56751	6.4571	.19948	.22511	.10645
#1	.52967	.17006	.00784	.43054	11.641	.11237
#2	.53220	.16815	.00875	.43203	11.605	.11243
#3	.52869	.16898	.00882	.43203	11.590	.11260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47511.**	**48750.**
Stddev	48.	296.
%RSD	.10093	.60802
#1	47456.	48408.
#2	47544.	48934.
#3	47534.	48907.

Approved: March 30, 2011

Sample Name: L1103049906 Acquired: 3/30/2011 0:18:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00554**	**126.91**	**.09116**	**.07361**	**2.2603**	**.01580**	**73.539**
Stddev	.00070	.32	.00162	.00081	.0133	.00003	.250
%RSD	12.702	.25537	1.7739	1.0973	.58954	.16087	.34058
#1	.00632	126.63	.09035	.07397	2.2604	.01581	73.362
#2	.00496	127.26	.09012	.07417	2.2735	.01582	73.825
#3	.00533	126.82	.09303	.07268	2.2469	.01577	73.430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05205**	**.12233**	**.15687**	**.52449**	**139.97**	**16.497**	**.07901**
Stddev	.00019	.00028	.00049	.00029	.72	.048	.00098
%RSD	.36991	.22481	.31320	.05608	.51223	.29254	1.2383
#1	.05194	.12202	.15735	.52434	139.76	16.460	.07866
#2	.05227	.12252	.15688	.52429	140.77	16.552	.08011
#3	.05195	.12246	.15637	.52483	139.38	16.479	.07825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.574**	**4.6816**	**.00556**	**2.4606**	**.17306**	**2.1140**	**.75097**
Stddev	.133	.0303	.00026	.0124	.00011	.0067	.00119
%RSD	.54074	.64672	4.6776	.50397	.06376	.31517	.15864
#1	24.428	4.6556	.00534	2.4605	.17310	2.1083	.75013
#2	24.688	4.7149	.00585	2.4483	.17315	2.1213	.75045
#3	24.605	4.6745	.00549	2.4731	.17294	2.1124	.75233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049906 Acquired: 3/30/2011 0:18:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.285**	F **142.11**	F **-19516.**	**.01328**	**.00806**	**1.7581**	**.03338**
Stddev	37.185	.24	42.	.00239	.00126	.0029	.00052
%RSD	61.682	.16783	.21530	17.963	15.694	.16405	1.5717
#1	-19.988	141.90	-19474.	.01053	.00945	1.7548	.03304
#2	-67.593	142.06	-19558.	.01458	.00775	1.7602	.03398
#3	-93.274	142.37	-19517.	.01473	.00697	1.7594	.03311
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45203**	**.11855**	**.00596**	**.36594**	**6.5050**	**.06114**
Stddev	.00060	.00032	.00104	.00087	.0055	.00015
%RSD	.13216	.26593	17.499	.23685	.08472	.25272
#1	.45174	.11872	.00554	.36507	6.5035	.06131
#2	.45272	.11875	.00519	.36680	6.5004	.06100
#3	.45164	.11819	.00714	.36595	6.5111	.06110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48150.**	**48161.**
Stddev	74.	169.
%RSD	.15414	.35149
#1	48078.	48170.
#2	48144.	47987.
#3	48226.	48325.

Approved: March 30, 2011

Sample Name: L1103049907 Acquired: 3/30/2011 0:22:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00802**	**147.55**	**.12007**	**.10628**	**3.5599**	**.01437**	**100.53**
Stddev	.00081	1.22	.00206	.00074	.0035	.00004	.36
%RSD	10.120	.82504	1.7168	.69877	.09825	.29391	.35496
#1	.00815	148.95	.11853	.10631	3.5635	.01435	100.52
#2	.00716	146.97	.11926	.10552	3.5566	.01442	100.17
#3	.00877	146.74	.12241	.10701	3.5596	.01436	100.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13101**	**.12817**	**.20117**	**.80537**	**181.82**	**30.074**	**.12202**
Stddev	.00008	.00015	.00054	.00212	.46	.085	.00017
%RSD	.06263	.11914	.26630	.26334	.25479	.28228	.13677
#1	.13092	.12811	.20102	.80295	182.23	30.082	.12184
#2	.13106	.12835	.20177	.80691	181.32	29.986	.12217
#3	.13106	.12806	.20073	.80625	181.92	30.155	.12204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.926**	**5.0908**	**.00717**	**1.8742**	**.22684**	**9.0775**	**1.8471**
Stddev	.206	.0234	.00022	.0102	.00094	.0114	.0022
%RSD	.62634	.45966	3.1329	.54192	.41528	.12586	.12006
#1	33.062	5.0989	.00740	1.8738	.22575	9.0683	1.8493
#2	32.689	5.0645	.00716	1.8643	.22742	9.0903	1.8470
#3	33.028	5.1091	.00695	1.8845	.22735	9.0741	1.8449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049907 Acquired: 3/30/2011 0:22:30 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-60.349**	F **252.15**	F **-43691.**	**.02089**	**.00931**	**1.7998**	**.06487**
Stddev	3.126	.41	61.	.00021	.00174	.0072	.00032
%RSD	5.1804	.16300	.14018	1.0189	18.730	.40219	.48617
#1	-61.482	251.93	-43640.	.02098	.00814	1.7914	.06496
#2	-62.752	251.90	-43759.	.02064	.01131	1.8040	.06452
#3	-56.815	252.62	-43674.	.02104	.00848	1.8038	.06512
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.62671**	**.13580**	**.00690**	**.38719**	**13.430**	**.10066**
Stddev	.00193	.00022	.00121	.00153	.034	.00032
%RSD	.30863	.16124	17.574	.39526	.25069	.31907
#1	.62672	.13555	.00734	.38740	13.422	.10102
#2	.62477	.13590	.00553	.38861	13.467	.10051
#3	.62864	.13595	.00783	.38557	13.401	.10044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47783.**	**48716.**
Stddev	74.	419.
%RSD	.15476	.85914
#1	47814.	48318.
#2	47699.	49153.
#3	47836.	48678.

Approved: March 30, 2011

Sample Name: L1103049908 Acquired: 3/30/2011 0:26:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00519**	**106.58**	**.09608**	**.07022**	**2.3805**	**.01383**	**90.662**
Stddev	.00063	.52	.00081	.00056	.0104	.00007	.429
%RSD	12.096	.49043	.84090	.79156	.43568	.52678	.47328
#1	.00550	107.11	.09659	.07055	2.3721	.01378	90.400
#2	.00447	106.56	.09515	.07052	2.3921	.01392	91.157
#3	.00561	106.06	.09649	.06958	2.3773	.01380	90.428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08275**	**.13508**	**.14767**	**.50884**	**131.63**	**19.269**	**.08956**
Stddev	.00009	.00038	.00133	.00076	.70	.070	.00093
%RSD	.10403	.28462	.90066	.14934	.52826	.36353	1.0331
#1	.08280	.13467	.14689	.50936	131.11	19.235	.09024
#2	.08279	.13513	.14920	.50919	132.42	19.349	.08993
#3	.08265	.13544	.14692	.50797	131.35	19.222	.08851
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.294**	**4.7968**	**.00550**	**1.2571**	**.20368**	**4.4227**	**1.0478**
Stddev	.147	.0350	.00037	.0063	.00050	.0296	.0062
%RSD	.52019	.72935	6.8035	.50287	.24533	.66974	.59569
#1	28.233	4.7674	.00554	1.2541	.20311	4.3892	1.0408
#2	28.462	4.8355	.00586	1.2528	.20390	4.4456	1.0529
#3	28.187	4.7875	.00511	1.2644	.20403	4.4332	1.0497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103049908 Acquired: 3/30/2011 0:26:05 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **70.749**	F **170.85**	F **-21948.**	**.01472**	**.00734**	**1.8888**	**.03310**
Stddev	22.164	.28	95.	.00260	.00198	.0112	.00060
%RSD	31.328	.16212	.43160	17.673	27.017	.59480	1.8278
#1	60.320	171.05	-21848.	.01172	.00904	1.8761	.03286
#2	96.204	170.97	-21960.	.01634	.00516	1.8930	.03378
#3	55.723	170.54	-22037.	.01609	.00783	1.8973	.03265
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45755**	**.10437**	**.00647**	**.33529**	**9.3428**	**.05524**
Stddev	.00141	.00051	.00088	.00203	.0207	.00012
%RSD	.30749	.48683	13.593	.60599	.22176	.21444
#1	.45716	.10481	.00581	.33437	9.3611	.05529
#2	.45911	.10447	.00612	.33762	9.3470	.05532
#3	.45639	.10382	.00747	.33389	9.3203	.05510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48165.**	**48619.**
Stddev	80.	455.
%RSD	.16652	.93650
#1	48077.	48443.
#2	48186.	48278.
#3	48233.	49136.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 0:29:48 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .44781	10.458	.43466	.52984	1.0019	.05349	9.5355
Stddev	.00245	.054	.00196	.00166	.0041	.00012	.0265
%RSD	.54729	.51665	.45149	.31417	.40790	.22677	.27773
#1	.44614	10.518	.43687	.53149	.99792	.05360	9.5111
#2	.44667	10.414	.43314	.52816	1.0017	.05336	9.5317
#3	.45062	10.441	.43396	.52986	1.0061	.05352	9.5636
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05437	.21788	.52903	.54774	3.7052	50.574	1.0291
Stddev	.00011	.00097	.00252	.00266	.0217	.117	.0023
%RSD	.19436	.44454	.47587	.48523	.58614	.23179	.22371
#1	.05449	.21899	.53192	.55078	3.6835	50.522	1.0278
#2	.05432	.21728	.52738	.54658	3.7050	50.492	1.0277
#3	.05430	.21735	.52777	.54586	3.7270	50.708	1.0317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.0927	F .43666	.99982	49.889	.52595	F -.00140	.53153
Stddev	.0151	.00080	.00053	.126	.00057	.00437	.00120
%RSD	.16606	.18383	.05328	.25210	.10824	311.62	.22650
#1	9.0874	.43626	.99936	49.980	.52638	-.00629	.53041
#2	9.1097	.43614	1.0004	49.745	.52530	-.00006	.53281
#3	9.0809	.43759	.99969	49.941	.52616	.00214	.53138
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 0:29:48 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **155.17**	**10.663**	F **28.504**	F **1.3361**	**.41437**	F **.00385**	**1.0609**
Stddev	82.08	.009	3.243	.0033	.00070	.00078	.0008
%RSD	52.898	.08173	11.377	.24412	.16976	20.212	.07672
#1	107.48	10.673	27.011	1.3392	.41493	.00402	1.0618
#2	249.95	10.657	32.225	1.3364	.41461	.00452	1.0606
#3	108.08	10.660	26.277	1.3327	.41358	.00300	1.0603
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000	1.2000		5.0000	
Range	10.000%		10.000%	10.000%		-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96472**	**.97442**	F **.55054**	**1.0701**	**1.0096**	F **.00073**
Stddev	.00197	.00203	.00160	.0026	.0003	.00006
%RSD	.20437	.20814	.29023	.23836	.03175	7.5132
#1	.96619	.97330	.55233	1.0701	1.0096	.00071
#2	.96248	.97320	.55005	1.0675	1.0099	.00080
#3	.96550	.97676	.54925	1.0726	1.0093	.00070
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value			.50000			1.0000
Range			10.000%			-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48836.**	**46034.**
Stddev	72.	195.
%RSD	.14642	.42305
#1	48753.	46216.
#2	48872.	46057.
#3	48882.	45828.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 0:33:13 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.06078**	**.00147**	**.00126**	**.00023**	**-.00001**	**.05790**
Stddev	.00087	.00232	.00024	.00009	.00013	.00002	.00547
%RSD	588.64	3.8188	16.088	7.2352	55.364	266.60	9.4472
#1	-.00087	.05868	.00173	.00132	.00023	-.00003	.05561
#2	.00081	.06038	.00126	.00116	.00010	.00000	.05395
#3	-.00038	.06327	.00142	.00130	.00035	.00001	.06414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00013**	**-.00028**	**-.00001**	**.05786**	**.28313**	**-.01094**
Stddev	.00007	.00010	.00019	.00050	.00285	.02668	.00103
%RSD	66.299	73.091	66.190	3476.0	4.9300	9.4215	9.4144
#1	-.00007	.00023	-.00015	.00032	.05716	.27060	-.01213
#2	-.00006	.00013	-.00020	-.00059	.05542	.31377	-.01037
#3	-.00018	.00004	-.00050	.00022	.06100	.26503	-.01032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00166**	**.00176**	**.00005**	**.00848**	**.00018**	**.00160**	**.00062**
Stddev	.01529	.00008	.00006	.00630	.00039	.00123	.00082
%RSD	919.13	4.6940	118.82	74.287	213.81	76.969	132.64
#1	-.00220	.00167	.00005	.01574	-.00026	.00161	-.00015
#2	.01389	.00179	.00011	.00531	.00049	.00283	.00147
#3	-.01668	.00182	-.00001	.00440	.00032	.00037	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 0:33:13 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **178.79**	F **.07415**	F **5.7895**	**-.00081**	**.00013**	**-.00060**	**-.00013**
Stddev	13.58	.05297	14.236	.00108	.00161	.00071	.00028
%RSD	7.5962	71.438	245.90	134.21	1264.2	119.45	218.34
#1	168.15	.10224	15.913	-.00164	.00195	.00014	.00000
#2	194.09	.01305	11.944	-.00120	-.00108	-.00128	.00007
#3	174.12	.10716	-10.489	.00042	-.00049	-.00065	-.00045
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00103**	**.00091**	**.00006**	**.00307**	**.00014**
Stddev	.00005	.00102	.00214	.00020	.00037	.00007
%RSD	45.750	99.241	234.77	306.08	12.170	52.369
#1	.00011	.00220	-.00085	.00021	.00349	.00011
#2	.00006	.00030	.00330	.00014	.00294	.00022
#3	.00016	.00059	.00029	-.00016	.00277	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49286.**	**45382.**
Stddev	102.	169.
%RSD	.20659	.37203
#1	49302.	45270.
#2	49379.	45576.
#3	49177.	45299.

Approved: March 30, 2011

Sample Name: PBS 04 Acquired: 3/30/2011 0:36:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**.02318**	**-.00230**	**.00088**	**.00118**	**.00000**	**.05773**
Stddev	.00048	.00312	.00073	.00029	.00008	.00001	.00013
%RSD	36.742	13.463	31.560	32.924	7.1525	503.19	.22078
#1	.00087	.02677	-.00290	.00106	.00113	.00000	.05764
#2	.00121	.02164	-.00149	.00103	.00112	.00000	.05788
#3	.00181	.02113	-.00251	.00054	.00127	.00001	.05767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.00040**	**.00012**	**-.00049**	**.01585**	**.24217**	**-.01093**
Stddev	.00008	.00002	.00031	.00041	.00050	.01649	.00046
%RSD	35.452	6.2168	248.19	82.167	3.1580	6.8101	4.2011
#1	.00033	-.00038	-.00015	-.00090	.01610	.22613	-.01064
#2	.00022	-.00039	.00006	-.00008	.01528	.25908	-.01069
#3	.00016	-.00043	.00045	-.00051	.01618	.24131	-.01146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00170**	**.00000**	**.00024**	**.03293**	**.00169**	F **-.01737**	**.00150**
Stddev	.01098	.00030	.00005	.00644	.00066	.00124	.00159
%RSD	646.57	6159.1	20.304	19.559	38.943	7.1560	105.43
#1	-.00641	.00026	.00023	.02881	.00167	-.01731	.00206
#2	-.00953	-.00032	.00030	.04035	.00236	-.01864	.00274
#3	.01085	.00007	.00020	.02962	.00105	-.01616	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: PBS 04 Acquired: 3/30/2011 0:36:58 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **63.241**	**.18564**	F **-18.292**	**.00208**	**.00432**	**.01462**	**.00037**
Stddev	18.959	.02981	3.425	.00102	.00035	.00103	.00018
%RSD	29.980	16.059	18.723	48.966	8.1922	7.0264	48.190
#1	44.596	.16936	-15.057	.00098	.00397	.01505	.00056
#2	62.626	.16752	-21.879	.00299	.00431	.01535	.00021
#3	82.500	.22005	-17.938	.00226	.00468	.01344	.00033
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00142**	**-.00091**	**-.00018**	**.00359**	**.00014**
Stddev	.00002	.00036	.00005	.00010	.00364	.00012
%RSD	218.90	24.947	5.1054	56.888	101.45	83.962
#1	-.00001	.00139	-.00094	-.00026	.00087	.00026
#2	.00002	.00180	-.00086	-.00006	.00773	.00015
#3	.00002	.00109	-.00094	-.00023	.00217	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47861.**	**46552.**
Stddev	186.	159.
%RSD	.38945	.34063
#1	47652.	46369.
#2	47919.	46653.
#3	48011.	46635.

Approved: March 30, 2011

Sample Name: LCSS 04 Acquired: 3/30/2011 0:40:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20842**	**.01891**	**.20574**	**.00150**	**.00320**	**-.00002**	**.07937**
Stddev	.00127	.00156	.00050	.00030	.00014	.00001	.00152
%RSD	.60818	8.2460	.24484	20.158	4.3326	94.873	1.9117
#1	.20885	.01956	.20537	.00165	.00304	-.00003	.08091
#2	.20941	.02004	.20554	.00169	.00330	.00000	.07934
#3	.20699	.01713	.20631	.00115	.00325	-.00002	.07787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02688**	**-.00049**	**.00063**	**.27229**	**.02528**	**.26059**	**-.01013**
Stddev	.00014	.00011	.00011	.00135	.00257	.02832	.00065
%RSD	.50333	21.565	16.782	.49636	10.177	10.867	6.4262
#1	.02673	-.00054	.00067	.27103	.02269	.23658	-.01022
#2	.02700	-.00057	.00051	.27372	.02533	.29182	-.00944
#3	.02691	-.00037	.00071	.27211	.02784	.25337	-.01073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.22639**	**.00018**	**.05670**	**.00192**	F **-.01781**	**.26308**
Stddev	.01324	.00108	.00004	.00435	.00005	.00196	.00144
%RSD	2069.6	.47824	21.985	7.6791	2.4699	10.992	.54565
#1	.00582	.22540	.00020	.05777	.00186	-.01929	.26157
#2	.01051	.22754	.00014	.05191	.00195	-.01559	.26325
#3	-.01441	.22622	.00021	.06042	.00194	-.01856	.26442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit						900.00	
Low Limit						-.00400	

Approved: March 30, 2011

Sample Name: LCSS 04 Acquired: 3/30/2011 0:40:39 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-03

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **65.461**	**.49705**	F **-83.131**	**.00203**	**.00473**	**.02595**	**.00110**
Stddev	79.705	.02783	6.136	.00092	.00082	.00060	.00030
%RSD	121.76	5.5995	7.3808	45.488	17.413	2.3252	27.670
#1	34.620	.49324	-78.398	.00175	.00542	.02546	.00075
#2	5.7848	.52659	-90.063	.00128	.00382	.02577	.00128
#3	155.98	.47132	-80.931	.00307	.00495	.02663	.00127
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00187**	**-.00193**	**-.00015**	**.00586**	**.00014**
Stddev	.00002	.00041	.00064	.00035	.00034	.00009
%RSD	82.070	21.670	33.002	236.95	5.8596	64.007
#1	.00004	.00141	-.00173	.00016	.00548	.00006
#2	.00001	.00204	-.00264	-.00053	.00595	.00013
#3	.00002	.00217	-.00142	-.00008	.00614	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47953.**	**46291.**
Stddev	5.	35.
%RSD	.01042	.07508
#1	47955.	46254.
#2	47956.	46295.
#3	47947.	46323.

Approved: March 30, 2011

Sample Name: L1103068709 Acquired: 3/30/2011 0:44:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00251**	**107.08**	**.07841**	**.08905**	**.91276**	**.00756**	**20.587**
Stddev	.00028	.45	.00064	.00092	.00247	.00001	.025
%RSD	10.970	.42462	.81659	1.0382	.27080	.13649	.12090
#1	.00280	107.16	.07899	.08805	.91193	.00755	20.604
#2	.00225	106.59	.07850	.08987	.91554	.00756	20.598
#3	.00249	107.49	.07772	.08922	.91081	.00756	20.558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00463**	**.05680**	**.21700**	**.07908**	**166.31**	**7.1087**	**.04938**
Stddev	.00003	.00027	.00076	.00099	.34	.0410	.00159
%RSD	.56841	.47523	.34808	1.2474	.20207	.57639	3.2289
#1	.00464	.05700	.21613	.07950	166.67	7.1313	.04798
#2	.00466	.05650	.21743	.07795	166.27	7.1334	.05111
#3	.00460	.05691	.21745	.07978	166.00	7.0614	.04904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.5423**	**2.1733**	**.00901**	**.32752**	**.06759**	**3.6432**	**.22355**
Stddev	.0551	.0005	.00004	.01121	.00096	.0151	.00134
%RSD	.64523	.02291	.45949	3.4228	1.4268	.41540	.59893
#1	8.6055	2.1736	.00898	.31579	.06866	3.6552	.22398
#2	8.5172	2.1734	.00905	.32864	.06678	3.6262	.22205
#3	8.5042	2.1727	.00898	.33812	.06732	3.6482	.22462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068709 Acquired: 3/30/2011 0:44:17 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **35.981**	F **117.83**	F **-28304.**	**.00441**	**.01121**	**2.3415**	**.00837**
Stddev	70.100	.44	113.	.00126	.00186	.0104	.00033
%RSD	194.82	.37437	.40089	28.646	16.574	.44471	3.9217
#1	51.359	118.14	-28394.	.00580	.01213	2.3374	.00830
#2	-40.531	118.02	-28176.	.00412	.01241	2.3533	.00872
#3	97.116	117.32	-28342.	.00332	.00907	2.3337	.00808
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14444**	**.29741**	**.00730**	**.38116**	**.40302**	**.06913**
Stddev	.00022	.00091	.00135	.00219	.00122	.00008
%RSD	.14980	.30578	18.445	.57365	.30291	.11708
#1	.14420	.29787	.00575	.38368	.40343	.06909
#2	.14451	.29636	.00822	.37992	.40164	.06923
#3	.14462	.29800	.00792	.37986	.40398	.06908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48110.**	**47681.**
Stddev	108.	455.
%RSD	.22392	.95479
#1	47987.	47161.
#2	48153.	47874.
#3	48189.	48008.

Approved: March 30, 2011

Sample Name: L1103068710S Acquired: 3/30/2011 0:47:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20189**	**76.762**	**.26279**	**.07826**	**.76931**	**.00625**	**20.501**
Stddev	.00061	.494	.00088	.00115	.00262	.00005	.059
%RSD	.30284	.64406	.33454	1.4636	.34095	.74430	.28825
#1	.20130	76.203	.26303	.07913	.76846	.00622	20.448
#2	.20185	76.943	.26352	.07697	.77226	.00623	20.565
#3	.20252	77.140	.26181	.07870	.76722	.00631	20.490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02952**	**.05849**	**.20357**	**.31366**	**146.07**	**5.7106**	**.02964**
Stddev	.00023	.00032	.00101	.00180	.43	.0029	.00086
%RSD	.78676	.54627	.49468	.57484	.29622	.05017	2.8985
#1	.02932	.05831	.20244	.31268	146.49	5.7084	.03008
#2	.02977	.05886	.20389	.31574	145.63	5.7139	.03020
#3	.02947	.05829	.20438	.31256	146.09	5.7096	.02865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.0390**	**2.6334**	**.00863**	**.28979**	**.05713**	**3.9841**	**.48019**
Stddev	.0580	.0040	.00010	.00555	.00067	.0079	.00083
%RSD	.82460	.15383	1.2066	1.9168	1.1666	.19814	.17300
#1	7.0710	2.6290	.00862	.29356	.05636	3.9771	.48051
#2	6.9720	2.6341	.00874	.29240	.05741	3.9825	.48082
#3	7.0741	2.6370	.00854	.28341	.05760	3.9926	.47925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068710S Acquired: 3/30/2011 0:47:53 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-04

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9470**	F **123.18**	F **-29477.**	**.00566**	**.00866**	**2.6382**	**.00768**
Stddev	68.522	.01	9.	.00185	.00101	.0034	.00037
%RSD	3519.3	.00977	.02929	32.685	11.669	.13073	4.8248
#1	-42.139	123.20	-29483.	.00771	.00792	2.6361	.00733
#2	-32.911	123.17	-29467.	.00514	.00825	2.6422	.00807
#3	80.890	123.18	-29481.	.00412	.00981	2.6363	.00764
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13652**	**.32665**	**.00683**	**.35305**	**.43334**	**.05199**
Stddev	.00053	.00074	.00074	.00096	.00100	.00037
%RSD	.38626	.22804	10.857	.27150	.23084	.70976
#1	.13601	.32625	.00768	.35200	.43413	.05163
#2	.13706	.32751	.00653	.35387	.43222	.05237
#3	.13651	.32619	.00629	.35328	.43367	.05198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47792.**	**47560.**
Stddev	15.	523.
%RSD	.03096	1.1002
#1	47779.	47199.
#2	47788.	48160.
#3	47808.	47320.

Approved: March 30, 2011

Sample Name: L1103068711SD Acquired: 3/30/2011 0:51:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20087**	**72.561**	**.26631**	**.07509**	**.79753**	**.00607**	**19.690**
Stddev	.00110	.482	.00034	.00098	.00109	.00002	.046
%RSD	.54664	.66454	.12812	1.2997	.13670	.40402	.23436
#1	.20122	73.013	.26661	.07615	.79767	.00607	19.727
#2	.20175	72.616	.26638	.07489	.79637	.00609	19.639
#3	.19964	72.054	.26594	.07422	.79854	.00604	19.705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02946**	**.07106**	**.17203**	**.32009**	**138.66**	**5.3084**	**.02434**
Stddev	.00015	.00029	.00040	.00144	.17	.0262	.00084
%RSD	.50825	.41188	.23264	.44948	.12163	.49426	3.4421
#1	.02962	.07094	.17181	.32174	138.83	5.3386	.02413
#2	.02932	.07140	.17250	.31939	138.49	5.2953	.02526
#3	.02944	.07086	.17180	.31913	138.65	5.2913	.02362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.8672**	**3.6308**	**.00932**	**.28645**	**.05619**	**4.2465**	**.52214**
Stddev	.0225	.0150	.00012	.00167	.00061	.0229	.00130
%RSD	.32794	.41406	1.3179	.58245	1.0787	.53852	.24894
#1	6.8930	3.6414	.00933	.28793	.05674	4.2727	.52346
#2	6.8568	3.6136	.00919	.28677	.05554	4.2304	.52211
#3	6.8517	3.6372	.00943	.28464	.05630	4.2365	.52086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068711SD Acquired: 3/30/2011 0:51:29 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG359858-05

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.9006**	F **128.58**	F **-31528.**	**.00552**	**.00945**	**2.6078**	**.00738**
Stddev	20.024	1.01	86.	.00047	.00243	.0076	.00028
%RSD	339.36	.78223	.27287	8.5102	25.672	.29251	3.7287
#1	25.311	129.74	-31626.	.00500	.00682	2.6166	.00719
#2	-14.685	127.98	-31492.	.00591	.01159	2.6028	.00769
#3	7.0762	128.03	-31466.	.00567	.00993	2.6039	.00725
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12807**	**.31533**	**.00835**	**.33457**	**.45397**	**.05374**
Stddev	.00043	.00039	.00027	.00065	.00082	.00019
%RSD	.33614	.12477	3.1957	.19433	.18044	.34449
#1	.12828	.31542	.00832	.33501	.45391	.05360
#2	.12757	.31490	.00810	.33487	.45481	.05395
#3	.12835	.31568	.00863	.33382	.45318	.05368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47863.**	**47637.**
Stddev	168.	297.
%RSD	.35127	.62349
#1	47672.	47297.
#2	47925.	47766.
#3	47991.	47847.

Approved: March 30, 2011

Sample Name: L1103068718 Acquired: 3/30/2011 0:55:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00380**	**113.27**	**.09542**	**.11818**	**.62973**	**.00839**	**17.064**
Stddev	.00034	.46	.00058	.00104	.00436	.00005	.063
%RSD	8.8414	.40667	.60901	.87873	.69164	.63436	.36835
#1	.00343	112.83	.09575	.11704	.62476	.00845	17.002
#2	.00387	113.23	.09576	.11908	.63156	.00838	17.062
#3	.00409	113.75	.09475	.11843	.63287	.00834	17.128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00432**	**.10162**	**.29521**	**.05991**	**237.28**	**5.4710**	**.05293**
Stddev	.00009	.00067	.00235	.00123	1.97	.0339	.00077
%RSD	2.1277	.66168	.79747	2.0532	.82912	.61938	1.4633
#1	.00436	.10217	.29787	.06116	235.01	5.4334	.05353
#2	.00422	.10181	.29439	.05988	238.29	5.4992	.05205
#3	.00439	.10087	.29338	.05870	238.53	5.4805	.05319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.5722**	**2.4995**	**.01208**	**.89328**	**.06778**	**2.5779**	**.27156**
Stddev	.0549	.0217	.00012	.01189	.00109	.0187	.00291
%RSD	.83500	.86968	.96096	1.3306	1.6151	.72645	1.0725
#1	6.5094	2.4757	.01214	.90676	.06874	2.5956	.27295
#2	6.5965	2.5045	.01194	.88881	.06802	2.5800	.27352
#3	6.6108	2.5183	.01215	.88428	.06659	2.5583	.26822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068718 Acquired: 3/30/2011 0:55:01 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **72.786**	F **77.411**	F **-16993.**	**.00468**	**.00829**	**2.4335**	**.00901**
Stddev	45.914	.964	93.	.00088	.00204	.0286	.00037
%RSD	63.081	1.2459	.54493	18.863	24.606	1.1757	4.0735
#1	91.256	78.154	-17076.	.00569	.00597	2.4653	.00943
#2	20.513	77.759	-17010.	.00432	.00910	2.4253	.00880
#3	106.59	76.321	-16894.	.00403	.00979	2.4099	.00879
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12478**	**.28929**	**.01255**	**.50776**	**.26710**	**.08614**
Stddev	.00014	.00158	.00136	.00245	.00284	.00048
%RSD	.11553	.54517	10.877	.48239	1.0647	.55743
#1	.12485	.28756	.01412	.50941	.27036	.08669
#2	.12462	.29064	.01187	.50893	.26574	.08581
#3	.12488	.28967	.01165	.50495	.26518	.08592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47842.**	**47319.**
Stddev	200.	99.
%RSD	.41778	.20830
#1	47655.	47409.
#2	47819.	47333.
#3	48053.	47214.

Approved: March 30, 2011

Sample Name: L1103068718PS Acquired: 3/30/2011 0:58:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360286-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22685**	**109.77**	**.29750**	**1.1320**	**1.0753**	**.03430**	**20.265**
Stddev	.00116	.43	.00210	.0035	.0067	.00017	.102
%RSD	.51157	.39158	.70702	.31131	.62224	.48892	.50134
#1	.22588	110.25	.29825	1.1291	1.0692	.03411	20.155
#2	.22813	109.65	.29913	1.1359	1.0825	.03441	20.355
#3	.22654	109.41	.29513	1.1309	1.0743	.03438	20.286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03022**	**.19790**	**.52252**	**.31569**	**214.37**	**29.887**	**.57942**
Stddev	.00007	.00040	.00123	.00103	.94	.116	.00258
%RSD	.24669	.20397	.23599	.32745	.43986	.38755	.44597
#1	.03013	.19744	.52110	.31650	213.37	29.757	.57730
#2	.03026	.19813	.52319	.31604	215.24	29.980	.58230
#3	.03026	.19813	.52328	.31453	214.50	29.925	.57865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.215**	**2.4620**	**.53219**	**26.472**	**.32054**	**2.3288**	**.49162**
Stddev	.044	.0126	.00069	.059	.00087	.0045	.00186
%RSD	.43130	.50997	.13020	.22164	.27109	.19108	.37858
#1	10.165	2.4487	.53252	26.409	.32067	2.3301	.49359
#2	10.248	2.4737	.53139	26.481	.32134	2.3239	.49138
#3	10.233	2.4635	.53266	26.525	.31961	2.3325	.48989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068718PS Acquired: 3/30/2011 0:58:37 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment: WG360286-01

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **75.787**	F **74.977**	F **-15402.**	**.63818**	**.20707**	**4.8781**	**.00929**
Stddev	39.382	.308	16.	.00262	.00179	.0020	.00036
%RSD	51.965	.41050	.10209	.41041	.86468	.04017	3.9181
#1	93.164	74.753	-15419.	.63585	.20913	4.8760	.00896
#2	103.49	75.328	-15388.	.63767	.20620	4.8786	.00968
#3	30.705	74.851	-15399.	.64101	.20588	4.8798	.00922
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.60740**	**.74200**	**.26954**	**1.0060**	**.72709**	**.07806**
Stddev	.00193	.00218	.00053	.0029	.00256	.00035
%RSD	.31857	.29420	.19723	.28901	.35246	.44346
#1	.60543	.74033	.26966	1.0027	.72518	.07845
#2	.60930	.74447	.27001	1.0083	.73000	.07794
#3	.60746	.74120	.26896	1.0071	.72608	.07779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47714.**	**47453.**
Stddev	78.	117.
%RSD	.16372	.24603
#1	47642.	47342.
#2	47704.	47442.
#3	47797.	47575.

Approved: March 30, 2011

Sample Name: L1103068718SDL Acquired: 3/30/2011 1:02:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360286-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**23.041**	**.02168**	**.02598**	**.12209**	**.00168**	**3.4240**
Stddev	.00014	.080	.00107	.00054	.00102	.00002	.0211
%RSD	10.859	.34888	4.9287	2.0959	.83442	1.3794	.61767
#1	.00114	23.032	.02272	.02661	.12092	.00168	3.4016
#2	.00140	22.965	.02058	.02564	.12264	.00165	3.4269
#3	.00136	23.125	.02174	.02569	.12273	.00170	3.4436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.02082**	**.05754**	**.01299**	**48.139**	**1.3139**	**.00184**
Stddev	.00001	.00018	.00016	.00072	.235	.0120	.00058
%RSD	1.6935	.85474	.28626	5.5514	.48760	.90953	31.678
#1	.00074	.02064	.05736	.01322	47.879	1.3010	.00134
#2	.00076	.02084	.05760	.01218	48.202	1.3246	.00248
#3	.00074	.02099	.05767	.01357	48.335	1.3162	.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3708**	**.51355**	**.00214**	**.18695**	**.01451**	**.54807**	**.05901**
Stddev	.0110	.00715	.00014	.00704	.00015	.00307	.00076
%RSD	.79902	1.3919	6.3397	3.7668	1.0128	.56024	1.2838
#1	1.3824	.50538	.00206	.18029	.01443	.54565	.05940
#2	1.3691	.51662	.00230	.19432	.01442	.54704	.05950
#3	1.3607	.51865	.00206	.18624	.01468	.55153	.05814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068718SDL Acquired: 3/30/2011 1:02:10 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG360286-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **105.97**	F **16.603**	F **-3614.2**	**.00075**	**.00401**	**.50336**	**.00161**
Stddev	23.23	.133	17.6	.00077	.00125	.00182	.00012
%RSD	21.924	.79933	.48776	101.75	31.099	.36171	7.2243
#1	132.79	16.477	-3594.5	.00008	.00484	.50148	.00153
#2	93.022	16.590	-3619.6	.00159	.00258	.50348	.00155
#3	92.099	16.741	-3628.5	.00059	.00462	.50512	.00174
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02494**	**.05868**	**.00433**	**.10025**	**.05826**	**.01622**
Stddev	.00025	.00123	.00022	.00039	.00049	.00014
%RSD	1.0016	2.0987	5.1725	.38661	.84966	.89291
#1	.02466	.05743	.00443	.09981	.05769	.01620
#2	.02499	.05990	.00449	.10039	.05849	.01609
#3	.02515	.05871	.00407	.10055	.05859	.01638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50814.**	**48078.**
Stddev	290.	297.
%RSD	.57155	.61771
#1	51035.	48273.
#2	50922.	48224.
#3	50485.	47736.

Approved: March 30, 2011

Sample Name: L1103068718SDL Acquired: 3/30/2011 1:05:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360286-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**4.6340**	**.00682**	**.00624**	**.02442**	**.00034**	**.69561**
Stddev	.00027	.0252	.00147	.00059	.00032	.00001	.01008
%RSD	76.006	.54458	21.565	9.3992	1.3015	2.4325	1.4485
#1	.00066	4.6614	.00667	.00561	.02419	.00035	.68967
#2	.00012	4.6117	.00837	.00635	.02429	.00033	.68992
#3	.00030	4.6290	.00543	.00676	.02478	.00035	.70725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00454**	**.01128**	**.00273**	**9.7641**	**.44229**	**-.00828**
Stddev	.00005	.00016	.00041	.00027	.0864	.02263	.00058
%RSD	179.72	3.4871	3.5933	9.9307	.88473	5.1173	7.0084
#1	.00004	.00464	.01171	.00298	9.6944	.42060	-.00779
#2	-.00003	.00462	.01090	.00244	9.7372	.46576	-.00892
#3	.00006	.00436	.01123	.00278	9.8607	.44050	-.00812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27835**	**.10447**	**.00033**	**.04539**	**.00477**	**.11816**	**.01334**
Stddev	.01366	.00095	.00011	.00171	.00319	.00019	.00039
%RSD	4.9061	.91213	34.143	3.7663	66.907	.16384	2.9483
#1	.26356	.10375	.00042	.04708	.00845	.11809	.01379
#2	.29047	.10412	.00037	.04542	.00299	.11838	.01309
#3	.28103	.10555	.00020	.04366	.00287	.11802	.01313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068718SDL Acquired: 3/30/2011 1:05:42 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG360286-02

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **108.15**	**5.0788**	F **-1231.7**	**-.00173**	**.00060**	**.10488**	**-.00005**
Stddev	66.09	2.6951	786.3	.00054	.00121	.00264	.00009
%RSD	61.111	53.066	63.838	30.929	201.03	2.5158	197.22
#1	32.571	8.1907	-2139.6	-.00132	.00128	.10789	.00005
#2	136.76	3.5512	-784.80	-.00154	-.00079	.10297	-.00005
#3	155.11	3.4945	-770.67	-.00234	.00131	.10377	-.00013
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000		9.0000				
Low Limit	-.00400		-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00511**	**.01243**	**.00212**	**.02015**	**.02021**	**.00210**
Stddev	.00009	.00036	.00101	.00028	.00539	.00003
%RSD	1.6814	2.9260	47.847	1.4045	26.675	1.3758
#1	.00502	.01267	.00106	.02045	.02639	.00207
#2	.00512	.01202	.00307	.01989	.01649	.00211
#3	.00519	.01262	.00222	.02010	.01774	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**50287.**	**46618.**
Stddev	198.	429.
%RSD	.39385	.92116
#1	50062.	46982.
#2	50362.	46727.
#3	50436.	46144.

Approved: March 30, 2011

Sample Name: L1103068719 Acquired: 3/30/2011 1:09:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00405**	**99.199**	**.08684**	**.09898**	**.74994**	**.00770**	**17.644**
Stddev	.00056	.699	.00113	.00027	.00140	.00001	.016
%RSD	13.710	.70414	1.3052	.27273	.18604	.09399	.08838
#1	.00457	98.996	.08621	.09891	.75145	.00770	17.657
#2	.00412	99.977	.08617	.09927	.74869	.00771	17.626
#3	.00346	98.625	.08815	.09875	.74969	.00770	17.648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00500**	**.07564**	**.27930**	**.07378**	**192.92**	**5.3964**	**.04298**
Stddev	.00005	.00052	.00115	.00134	.31	.0195	.00119
%RSD	.92808	.68232	.41146	1.8145	.16049	.36178	2.7722
#1	.00501	.07616	.28025	.07448	192.84	5.3850	.04413
#2	.00495	.07563	.27802	.07463	193.26	5.3852	.04175
#3	.00505	.07513	.27964	.07224	192.65	5.4189	.04305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.9151**	**3.2700**	**.01028**	**.46112**	**.06681**	**3.5116**	**.26630**
Stddev	.0446	.0076	.00006	.00971	.00053	.0209	.00175
%RSD	.64533	.23162	.63120	2.1049	.79507	.59399	.65841
#1	6.8765	3.2633	.01026	.46236	.06739	3.5236	.26642
#2	6.9640	3.2782	.01036	.45085	.06671	3.5237	.26799
#3	6.9049	3.2684	.01023	.47014	.06634	3.4875	.26449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068719 Acquired: 3/30/2011 1:09:20 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **21.378**	F **106.11**	F **-25145.**	**.00485**	**.01020**	**2.4707**	**.00847**
Stddev	29.905	1.48	128.	.00098	.00083	.0034	.00020
%RSD	139.89	1.3982	.50793	20.283	8.1243	.13732	2.3303
#1	-2.4234	107.16	-25269.	.00373	.01105	2.4693	.00830
#2	11.613	106.76	-25152.	.00525	.00940	2.4683	.00868
#3	54.945	104.41	-25014.	.00556	.01016	2.4746	.00842
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12367**	**.30923**	**.01014**	**.46276**	**.36870**	**.06499**
Stddev	.00024	.00014	.00109	.00131	.00072	.00022
%RSD	.19781	.04469	10.738	.28304	.19504	.33380
#1	.12380	.30913	.01106	.46427	.36935	.06523
#2	.12339	.30917	.00894	.46198	.36883	.06480
#3	.12382	.30939	.01043	.46203	.36793	.06494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47045.**	**47089.**
Stddev	261.	528.
%RSD	.55505	1.1217
#1	46819.	46797.
#2	46985.	46771.
#3	47331.	47698.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 1:12:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .45572	10.546	.43273	.53723	1.0064	.05378	9.5625
Stddev	.00165	.017	.00116	.00083	.0026	.00006	.0123
%RSD	.36230	.16222	.26812	.15480	.26242	.11130	.12835
#1	.45733	10.565	.43399	.53819	1.0036	.05375	9.5484
#2	.45579	10.540	.43250	.53668	1.0088	.05384	9.5711
#3	.45403	10.532	.43171	.53683	1.0069	.05373	9.5680
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05408	.21716	.52921	.54498	3.7433	50.625	1.0383
Stddev	.00015	.00087	.00102	.00190	.0195	.081	.0020
%RSD	.26964	.40196	.19216	.34891	.52130	.16047	.19006
#1	.05425	.21816	.52980	.54704	3.7342	50.532	1.0398
#2	.05403	.21672	.52979	.54461	3.7657	50.683	1.0391
#3	.05397	.21658	.52803	.54329	3.7299	50.660	1.0361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 8.9775	F .43538	1.0128	50.468	.52793	F 3.6590	.52504
Stddev	.0574	.00190	.0020	.128	.00155	.0060	.00106
%RSD	.63899	.43528	.19710	.25407	.29376	.16276	.20250
#1	8.9146	.43320	1.0145	50.442	.52971	3.6659	.52621
#2	8.9907	.43627	1.0106	50.355	.52716	3.6562	.52413
#3	9.0270	.43666	1.0133	50.607	.52692	3.6550	.52478
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000	.50000				10.000	
Range	-10.000%	-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 1:12:58 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **157.28**	**10.402**	F **31.557**	F **1.3222**	**.41834**	F **1.9125**	**1.0501**
Stddev	41.52	.044	3.847	.0074	.00170	.0062	.0026
%RSD	26.402	.42540	12.192	.55896	.40584	.32598	.24619
#1	114.90	10.406	30.004	1.3307	.42026	1.9196	1.0529
#2	159.04	10.356	35.939	1.3173	.41773	1.9099	1.0478
#3	197.90	10.445	28.730	1.3187	.41703	1.9080	1.0495
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000	1.2000		5.0000	
Range	10.000%		10.000%	10.000%		-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97073**	**.97116**	**.54708**	**1.0848**	**1.0049**	F **.36243**
Stddev	.00177	.00221	.00189	.0021	.0027	.00049
%RSD	.18245	.22775	.34629	.19696	.26623	.13526
#1	.97110	.96919	.54927	1.0869	1.0076	.36294
#2	.96881	.97355	.54601	1.0849	1.0022	.36238
#3	.97229	.97074	.54597	1.0826	1.0048	.36197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48545.**	**46362.**
Stddev	84.	240.
%RSD	.17225	.51701
#1	48462.	46633.
#2	48629.	46275.
#3	48543.	46178.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 1:16:21 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.03616**	**.00154**	**.00119**	**-.00042**	**.00000**	**.01403**
Stddev	.00048	.00160	.00012	.00068	.00020	.00001	.00203
%RSD	93.994	4.4364	7.7682	57.263	47.210	257.59	14.452
#1	-.00104	.03800	.00141	.00197	-.00035	.00001	.01289
#2	-.00012	.03542	.00156	.00069	-.00028	.00000	.01283
#3	-.00036	.03505	.00164	.00092	-.00065	.00000	.01637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00001**	**-.00040**	**-.00023**	**.05118**	**.28610**	**-.01030**
Stddev	.00006	.00012	.00020	.00011	.00887	.02827	.00128
%RSD	60.785	1026.0	48.613	50.051	17.325	9.8798	12.460
#1	-.00017	-.00011	-.00059	-.00010	.04961	.28085	-.01014
#2	-.00006	.00001	-.00020	-.00029	.06073	.26082	-.00910
#3	-.00007	.00013	-.00042	-.00030	.04320	.31662	-.01165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02155**	**.00044**	**.00004**	**.01858**	**.00033**	**-.00197**	**.00062**
Stddev	.00862	.00027	.00012	.00546	.00061	.00234	.00124
%RSD	39.999	61.846	287.76	29.367	185.85	119.13	201.32
#1	-.01817	.00039	-.00005	.02305	.00041	-.00010	.00127
#2	-.03135	.00074	-.00001	.01250	.00090	-.00120	-.00081
#3	-.01514	.00020	.00019	.02020	-.00032	-.00460	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 1:16:21 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **153.83**	F **.01301**	F **13.289**	**-.00053**	**.00000**	**.00037**	**.00006**
Stddev	52.11	.04884	8.565	.00088	.00173	.00092	.00017
%RSD	33.874	375.42	64.451	165.03	226790.	249.88	298.38
#1	111.45	.04603	9.0880	-.00058	.00136	.00110	.00019
#2	212.01	.03608	23.144	.00037	-.00195	-.00067	.00012
#3	138.02	-.04309	7.6362	-.00138	.00060	.00067	-.00014
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	TI1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00120**	**.00092**	**.00003**	**.00009**	**.00025**
Stddev	.0000	.00025	.00068	.00030	.00053	.00007
%RSD	2483.8	20.451	74.436	1164.5	616.93	27.353
#1	.00003	.00149	.00015	.00021	.00053	.00018
#2	-.00002	.00108	.00116	-.00032	.00023	.00032
#3	-.00001	.00105	.00145	.00018	-.00050	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**49052.**	**45837.**
Stddev	79.	315.
%RSD	.16101	.68747
#1	48961.	46192.
#2	49099.	45729.
#3	49096.	45591.

Approved: March 30, 2011

Sample Name: L1103068720 Acquired: 3/30/2011 1:20:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00402**	**88.016**	**.08680**	**.09176**	**.68115**	**.00700**	**13.996**
Stddev	.00076	.606	.00157	.00112	.00268	.00002	.038
%RSD	18.960	.68831	1.8093	1.2190	.39402	.29411	.26800
#1	.00318	88.562	.08685	.09105	.68290	.00698	14.012
#2	.00466	88.123	.08835	.09118	.67806	.00702	13.953
#3	.00421	87.364	.08521	.09305	.68249	.00699	14.023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00449**	**.06583**	**.23584**	**.05896**	**179.26**	**4.5254**	**.03851**
Stddev	.00006	.00026	.00091	.00041	.48	.0024	.00044
%RSD	1.3812	.38838	.38785	.70206	.26648	.05353	1.1305
#1	.00444	.06563	.23532	.05858	179.33	4.5280	.03876
#2	.00447	.06573	.23531	.05890	178.76	4.5248	.03801
#3	.00456	.06612	.23690	.05940	179.71	4.5232	.03876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.5542**	**2.6931**	**.00995**	**.58520**	**.05795**	**2.5900**	**.24756**
Stddev	.0196	.0069	.00010	.00216	.00063	.0038	.00238
%RSD	.35249	.25516	.97198	.36989	1.0842	.14792	.96171
#1	5.5441	2.6929	.00989	.58555	.05723	2.5862	.24615
#2	5.5768	2.6864	.01006	.58289	.05822	2.5901	.25031
#3	5.5418	2.7001	.00990	.58718	.05840	2.5938	.24623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068720 Acquired: 3/30/2011 1:20:06 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-19.790**	F **63.878**	F **-14236.**	**.00542**	**.00880**	**2.3265**	**.00742**
Stddev	57.378	.475	14.	.00161	.00128	.0057	.00019
%RSD	289.93	.74368	.09602	29.695	14.602	.24551	2.5519
#1	-82.718	63.601	-14244.	.00547	.00916	2.3200	.00754
#2	29.624	63.607	-14220.	.00700	.00737	2.3307	.00752
#3	-6.2756	64.427	-14243.	.00378	.00986	2.3288	.00720
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10655**	**.28898**	**.01106**	**.42066**	**.32163**	**.05854**
Stddev	.00033	.00038	.00275	.00144	.00139	.00048
%RSD	.30966	.13179	24.861	.34321	.43099	.81339
#1	.10692	.28925	.01082	.42232	.32079	.05835
#2	.10631	.28915	.00843	.41991	.32323	.05818
#3	.10640	.28854	.01392	.41975	.32086	.05908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47712.**	**47886.**
Stddev	61.	383.
%RSD	.12806	.80058
#1	47642.	47645.
#2	47755.	47685.
#3	47738.	48328.

Approved: March 30, 2011

Sample Name: L1103068721 Acquired: 3/30/2011 1:23:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00359**	**74.680**	**.07476**	**.08004**	**.82504**	**.00700**	**21.095**
Stddev	.00035	.191	.00128	.00096	.00104	.00006	.042
%RSD	9.6543	.25566	1.7108	1.1992	.12644	.80244	.20052
#1	.00399	74.661	.07383	.08106	.82532	.00701	21.123
#2	.00336	74.499	.07622	.07989	.82590	.00694	21.115
#3	.00341	74.879	.07424	.07916	.82388	.00706	21.046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00487**	**.07066**	**.21264**	**.07041**	**148.56**	**4.9002**	**.02825**
Stddev	.00008	.00012	.00037	.00011	.13	.0061	.00051
%RSD	1.6699	.16900	.17266	.15958	.08905	.12513	1.8147
#1	.00481	.07068	.21264	.07036	148.71	4.8972	.02839
#2	.00484	.07077	.21227	.07054	148.46	4.9073	.02867
#3	.00497	.07053	.21300	.07033	148.51	4.8961	.02768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.1462**	**3.1170**	**.00956**	**.52021**	**.06124**	**4.5899**	**.24830**
Stddev	.0124	.0096	.00015	.00303	.00017	.0104	.00208
%RSD	.17323	.30791	1.6069	.58192	.28045	.22750	.83954
#1	7.1545	3.1264	.00955	.52358	.06143	4.6019	.25070
#2	7.1320	3.1172	.00971	.51772	.06110	4.5833	.24692
#3	7.1522	3.1073	.00941	.51933	.06118	4.5844	.24728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068721 Acquired: 3/30/2011 1:23:43 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **19.176**	F **146.08**	F **-36304.**	**.00517**	**.01217**	**2.3236**	**.00827**
Stddev	32.195	.54	112.	.00173	.00115	.0249	.00050
%RSD	167.89	.36704	.30943	33.583	9.4623	1.0730	6.0131
#1	6.7479	146.63	-36420.	.00317	.01266	2.3466	.00860
#2	55.733	145.56	-36196.	.00632	.01086	2.3270	.00770
#3	-4.9521	146.07	-36296.	.00601	.01300	2.2971	.00851
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14421**	**.29918**	**.00831**	**.38611**	**.40245**	**.05341**
Stddev	.00061	.00128	.00086	.00050	.00154	.00014
%RSD	.42526	.42937	10.310	.13048	.38267	.26179
#1	.14463	.29885	.00897	.38663	.40099	.05325
#2	.14449	.30059	.00734	.38563	.40406	.05351
#3	.14350	.29809	.00862	.38606	.40231	.05348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47789.**	**48407.**
Stddev	58.	365.
%RSD	.12185	.75389
#1	47799.	47991.
#2	47842.	48554.
#3	47727.	48675.

Approved: March 30, 2011

Sample Name: L1103068722 Acquired: 3/30/2011 1:27:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00277**	**89.171**	**.07419**	**.08280**	**.82717**	**.00729**	**13.542**
Stddev	.00035	.205	.00089	.00021	.00081	.00004	.039
%RSD	12.753	.23039	1.2052	.25286	.09740	.52231	.28757
#1	.00308	88.934	.07455	.08297	.82680	.00732	13.502
#2	.00285	89.281	.07486	.08286	.82662	.00725	13.545
#3	.00239	89.298	.07318	.08257	.82810	.00731	13.579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00412**	**.07735**	**.24269**	**.06024**	**163.20**	**4.7010**	**.04010**
Stddev	.00006	.00027	.00112	.00012	.54	.0328	.00168
%RSD	1.5131	.34758	.46312	.20143	.32978	.69709	4.1968
#1	.00407	.07720	.24296	.06014	163.18	4.6856	.03884
#2	.00411	.07719	.24145	.06020	162.68	4.6789	.04201
#3	.00419	.07766	.24365	.06037	163.75	4.7387	.03945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.1542**	**3.0173**	**.00922**	**.93944**	**.06461**	**2.5850**	**.24624**
Stddev	.0480	.0137	.00014	.01221	.00057	.0034	.00090
%RSD	.77988	.45502	1.4815	1.2998	.88572	.13336	.36358
#1	6.1953	3.0060	.00908	.92865	.06400	2.5869	.24579
#2	6.1015	3.0132	.00936	.95269	.06469	2.5811	.24728
#3	6.1660	3.0326	.00921	.93698	.06514	2.5872	.24567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068722 Acquired: 3/30/2011 1:27:19 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.9484**	F **65.251**	F **-14554.**	**.00531**	**.00918**	**2.2086**	**.00764**
Stddev	15.562	.330	17.	.00177	.00163	.0028	.00018
%RSD	156.43	.50612	.11560	33.334	17.764	.12497	2.3675
#1	11.807	65.103	-14543.	.00333	.00899	2.2114	.00766
#2	24.498	65.020	-14544.	.00674	.01091	2.2085	.00745
#3	-6.4596	65.629	-14573.	.00585	.00766	2.2059	.00781
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11212**	**.28000**	**.00852**	**.39448**	**.35349**	**.05411**
Stddev	.00051	.00006	.00051	.00037	.00075	.00013
%RSD	.45243	.02270	5.9886	.09484	.21134	.24578
#1	.11154	.27992	.00875	.39440	.35290	.05423
#2	.11246	.28004	.00887	.39415	.35323	.05397
#3	.11237	.28002	.00793	.39489	.35433	.05413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47581.**	**47238.**
Stddev	61.	303.
%RSD	.12817	.64153
#1	47511.	47037.
#2	47625.	47586.
#3	47607.	47090.

Approved: March 30, 2011

Sample Name: L1103068723 Acquired: 3/30/2011 1:30:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00429**	**86.001**	**.10127**	**.10542**	**1.5605**	**.01031**	**26.435**
Stddev	.00106	.515	.00208	.00013	.0006	.00004	.041
%RSD	24.673	.59836	2.0497	.12283	.04043	.36778	.15572
#1	.00536	85.555	.10271	.10528	1.5611	.01029	26.410
#2	.00429	85.884	.09889	.10553	1.5599	.01029	26.482
#3	.00324	86.564	.10221	.10546	1.5605	.01036	26.412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00515**	**.06816**	**.24601**	**.08334**	**203.72**	**6.1427**	**.03009**
Stddev	.00005	.00014	.00098	.00032	.12	.0114	.00070
%RSD	.88659	.20804	.39897	.38399	.05725	.18607	2.3425
#1	.00512	.06801	.24512	.08301	203.71	6.1414	.02929
#2	.00512	.06819	.24585	.08336	203.62	6.1547	.03060
#3	.00520	.06829	.24706	.08365	203.85	6.1320	.03039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6958**	**4.1685**	**.01162**	**.89552**	**.06834**	**4.8835**	**.26795**
Stddev	.0256	.0055	.00028	.00527	.00063	.0109	.00218
%RSD	.26453	.13166	2.4333	.58819	.92795	.22395	.81458
#1	9.6721	4.1656	.01186	.90157	.06761	4.8719	.26571
#2	9.6923	4.1749	.01169	.89199	.06876	4.8850	.26805
#3	9.7231	4.1652	.01131	.89299	.06865	4.8936	.27007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068723 Acquired: 3/30/2011 1:30:56 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **25.154**	F **151.10**	F **-36392.**	**.00433**	**.01521**	**2.4735**	**.00809**
Stddev	58.683	.62	58.	.00188	.00065	.0042	.00052
%RSD	233.30	.40900	.15868	43.394	4.2826	.16780	6.4691
#1	-39.348	150.88	-36342.	.00229	.01595	2.4776	.00757
#2	39.421	150.63	-36378.	.00474	.01493	2.4734	.00808
#3	75.387	151.80	-36455.	.00598	.01474	2.4693	.00862
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19571**	**.27374**	**.01226**	**.50076**	**.49779**	**.08309**
Stddev	.00034	.00097	.00116	.00117	.00223	.00043
%RSD	.17174	.35604	9.4774	.23296	.44746	.51697
#1	.19580	.27262	.01336	.50160	.49533	.08282
#2	.19599	.27443	.01236	.49943	.49969	.08287
#3	.19534	.27416	.01105	.50125	.49834	.08359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47702.**	**47301.**
Stddev	97.	205.
%RSD	.20409	.43435
#1	47653.	47133.
#2	47814.	47240.
#3	47638.	47530.

Approved: March 30, 2011

Sample Name: L1103068724 Acquired: 3/30/2011 1:34:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01194**	**100.38**	**.10669**	**.10556**	**2.7725**	**.01180**	**25.330**
Stddev	.00018	.15	.00219	.00097	.0104	.00002	.075
%RSD	1.4936	.14766	2.0483	.92342	.37480	.13795	.29760
#1	.01206	100.26	.10603	.10599	2.7845	.01181	25.385
#2	.01173	100.55	.10913	.10625	2.7660	.01180	25.362
#3	.01203	100.33	.10491	.10445	2.7670	.01178	25.244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00939**	**.30866**	**.23736**	**.08040**	**218.73**	**5.0434**	**.03839**
Stddev	.00007	.00086	.00032	.00014	1.09	.0323	.00077
%RSD	.78955	.27746	.13366	.17593	.49984	.63951	2.0045
#1	.00935	.30919	.23772	.08052	219.72	5.0527	.03891
#2	.00948	.30911	.23711	.08044	218.91	5.0699	.03875
#3	.00935	.30767	.23726	.08024	217.56	5.0075	.03751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9589**	**29.956**	**.01126**	**2.5093**	**.12339**	**2.8514**	**.39999**
Stddev	.0730	.186	.00011	.0141	.00055	.0042	.00194
%RSD	.73343	.61959	.96681	.56016	.44439	.14687	.48473
#1	9.9777	30.082	.01121	2.5128	.12276	2.8468	.39831
#2	10.021	30.044	.01138	2.5213	.12380	2.8549	.40211
#3	9.8783	29.743	.01118	2.4939	.12359	2.8525	.39955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068724 Acquired: 3/30/2011 1:34:32 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **53.244**	F **102.93**	F **-20999.**	**.00692**	**.02994**	**2.2033**	**.00882**
Stddev	82.440	.43	16.	.00155	.00051	.0056	.00010
%RSD	154.83	.41778	.07391	22.418	1.7190	.25483	1.1673
#1	74.808	103.03	-20982.	.00586	.02980	2.1982	.00888
#2	122.76	103.31	-21012.	.00620	.03051	2.2093	.00888
#3	-37.835	102.46	-21002.	.00870	.02951	2.2024	.00870
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21328**	**.24124**	**.00852**	**.52639**	**.45410**	**.08986**
Stddev	.00038	.00065	.00217	.00040	.00063	.00033
%RSD	.17767	.26821	25.511	.07604	.13953	.37188
#1	.21328	.24135	.00626	.52668	.45436	.09008
#2	.21365	.24182	.01059	.52593	.45456	.09003
#3	.21290	.24054	.00872	.52655	.45338	.08948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47531.**	**47750.**
Stddev	112.	667.
%RSD	.23591	1.3970
#1	47427.	47321.
#2	47517.	47411.
#3	47650.	48519.

Approved: March 30, 2011

Sample Name: L1103068725 Acquired: 3/30/2011 1:38:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**79.249**	**.07961**	**.08138**	**.69554**	**.00645**	**15.577**
Stddev	.00014	.251	.00237	.00056	.00238	.00002	.098
%RSD	3.7828	.31641	2.9773	.68559	.34174	.33442	.62673
#1	.00366	79.514	.08231	.08201	.69826	.00647	15.684
#2	.00392	79.015	.07865	.08120	.69455	.00643	15.557
#3	.00391	79.218	.07788	.08094	.69382	.00644	15.491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**.07421**	**.24256**	**.06615**	**158.53**	**4.8171**	**.03637**
Stddev	.00008	.00035	.00091	.00048	.49	.0106	.00012
%RSD	1.5906	.47124	.37578	.72304	.31164	.21960	.33815
#1	.00497	.07444	.24208	.06670	159.03	4.8170	.03648
#2	.00495	.07381	.24199	.06595	158.53	4.8277	.03639
#3	.00510	.07438	.24361	.06581	158.04	4.8065	.03623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.4758**	**3.2351**	**.01051**	**.43683**	**.06596**	**3.4585**	**.27229**
Stddev	.0399	.0236	.00008	.00399	.00033	.0052	.00176
%RSD	.61611	.72977	.73245	.91271	.49539	.14976	.64588
#1	6.5211	3.2594	.01052	.43863	.06589	3.4582	.27403
#2	6.4604	3.2335	.01043	.43226	.06567	3.4535	.27231
#3	6.4458	3.2123	.01058	.43960	.06631	3.4639	.27051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068725 Acquired: 3/30/2011 1:38:08 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **24.684**	F **102.45**	F **-24528.**	**.00533**	**.00981**	**2.2457**	**.00738**
Stddev	34.434	.68	8.	.00009	.00228	.0033	.00021
%RSD	139.50	.66638	.03400	1.6148	23.239	.14679	2.8688
#1	50.610	102.92	-24537.	.00543	.01242	2.2476	.00715
#2	37.828	101.67	-24520.	.00527	.00820	2.2419	.00756
#3	-14.386	102.76	-24528.	.00529	.00881	2.2476	.00744
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11243**	**.32876**	**.00966**	**.39688**	**.37779**	**.05795**
Stddev	.00067	.00084	.00160	.00081	.00111	.00030
%RSD	.59818	.25409	16.537	.20387	.29419	.52032
#1	.11312	.32826	.00876	.39728	.37761	.05784
#2	.11240	.32829	.01150	.39595	.37678	.05772
#3	.11177	.32972	.00871	.39741	.37898	.05829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47751.**	**47190.**
Stddev	85.	539.
%RSD	.17710	1.1414
#1	47715.	46666.
#2	47848.	47161.
#3	47691.	47742.

Approved: March 30, 2011

Sample Name: L1103068726 Acquired: 3/30/2011 1:41:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00399**	**82.951**	**.08617**	**.09770**	**.68120**	**.00763**	**14.961**
Stddev	.00098	.869	.00106	.00115	.00216	.00003	.053
%RSD	24.583	1.0474	1.2275	1.1784	.31709	.35528	.35413
#1	.00469	83.160	.08670	.09639	.67983	.00765	14.927
#2	.00443	81.997	.08686	.09858	.68008	.00760	14.934
#3	.00287	83.697	.08495	.09812	.68369	.00764	15.022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00480**	**.08574**	**.27545**	**.05864**	**196.50**	**4.1638**	**.03430**
Stddev	.00009	.00038	.00093	.00079	.39	.0184	.00035
%RSD	1.8422	.44536	.33810	1.3392	.19600	.44275	1.0152
#1	.00473	.08536	.27614	.05782	196.07	4.1696	.03416
#2	.00490	.08575	.27439	.05870	196.79	4.1786	.03403
#3	.00477	.08612	.27582	.05939	196.66	4.1431	.03469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.3108**	**3.8311**	**.01088**	**1.3357**	**.06330**	**2.2948**	**.26404**
Stddev	.0342	.0162	.00001	.0013	.00060	.0162	.00156
%RSD	.64480	.42153	.09891	.09860	.95374	.70491	.58965
#1	5.2739	3.8137	.01087	1.3346	.06261	2.2769	.26253
#2	5.3416	3.8341	.01089	1.3353	.06352	2.2993	.26397
#3	5.3168	3.8455	.01088	1.3372	.06376	2.3083	.26564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068726 Acquired: 3/30/2011 1:41:45 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **61.494**	F **56.583**	F **-11664.**	**.00621**	**.01012**	**2.2678**	**.00733**
Stddev	14.832	.362	36.	.00044	.00193	.0078	.00034
%RSD	24.120	.63997	.30456	7.0251	19.061	.34257	4.5934
#1	77.482	56.335	-11627.	.00634	.00948	2.2589	.00722
#2	48.181	56.415	-11666.	.00573	.01228	2.2716	.00705
#3	58.818	56.998	-11698.	.00657	.00859	2.2730	.00770
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11401**	**.29656**	**.01050**	**.45791**	**.32323**	**.06807**
Stddev	.00039	.00125	.00147	.00060	.00109	.00008
%RSD	.34340	.42136	14.047	.13027	.33698	.11029
#1	.11391	.29533	.01219	.45850	.32393	.06805
#2	.11368	.29782	.00976	.45730	.32197	.06800
#3	.11445	.29653	.00953	.45794	.32378	.06815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47892.**	**47443.**
Stddev	57.	232.
%RSD	.11929	.49004
#1	47842.	47466.
#2	47954.	47199.
#3	47881.	47663.

Approved: March 30, 2011

Sample Name: L1103068727 Acquired: 3/30/2011 1:45:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00352**	**72.270**	**.06890**	**.07492**	**.99705**	**.00710**	**18.206**
Stddev	.00042	.615	.00088	.00068	.00310	.00003	.039
%RSD	11.926	.85066	1.2704	.90175	.31054	.36737	.21302
#1	.00370	72.341	.06828	.07537	.99348	.00709	18.163
#2	.00304	72.845	.06990	.07415	.99897	.00708	18.237
#3	.00382	71.622	.06852	.07526	.99871	.00713	18.218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00507**	**.07028**	**.20238**	**.07730**	**140.33**	**6.4696**	**.02867**
Stddev	.00007	.00017	.00092	.00130	.62	.0278	.00137
%RSD	1.4446	.24198	.45568	1.6880	.44434	.42949	4.7836
#1	.00508	.07020	.20236	.07785	139.76	6.4379	.02863
#2	.00499	.07047	.20148	.07823	140.24	6.4894	.02733
#3	.00514	.07016	.20332	.07581	141.00	6.4816	.03007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.9815**	**3.7641**	**.00842**	**.48065**	**.06372**	**4.5850**	**.24096**
Stddev	.0599	.0198	.00012	.00298	.00029	.0216	.00182
%RSD	.85742	.52555	1.3766	.62044	.44974	.47196	.75692
#1	6.9698	3.7420	.00854	.48306	.06404	4.5935	.23910
#2	6.9283	3.7698	.00831	.47731	.06359	4.6011	.24274
#3	7.0463	3.7804	.00839	.48157	.06352	4.5604	.24104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068727 Acquired: 3/30/2011 1:45:21 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **54.429**	F **119.27**	F **-29044.**	**.00432**	**.00850**	**2.2936**	**.00728**
Stddev	36.844	.88	75.	.00026	.00100	.0105	.00018
%RSD	67.692	.73900	.25961	6.0148	11.726	.45597	2.5281
#1	14.430	119.91	-29098.	.00455	.00765	2.2948	.00722
#2	61.877	119.64	-29077.	.00437	.00959	2.3034	.00749
#3	86.980	118.27	-28958.	.00403	.00824	2.2826	.00714
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13097**	**.27599**	**.00776**	**.34753**	**.45093**	**.05124**
Stddev	.00024	.00055	.00142	.00005	.00047	.00014
%RSD	.18665	.20039	18.248	.01304	.10334	.26650
#1	.13090	.27612	.00857	.34752	.45116	.05138
#2	.13124	.27646	.00613	.34758	.45124	.05110
#3	.13076	.27538	.00860	.34750	.45040	.05124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47823.**	**48098.**
Stddev	137.	199.
%RSD	.28669	.41455
#1	47681.	48017.
#2	47832.	48326.
#3	47955.	47953.

Approved: March 30, 2011

Sample Name: L1103068728 Acquired: 3/30/2011 1:48:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00254**	**78.317**	**.06720**	**.06846**	**1.1231**	**.00761**	**16.195**
Stddev	.00023	.779	.00043	.00035	.0049	.00004	.035
%RSD	8.9662	.99435	.63929	.50867	.43463	.58817	.21860
#1	.00256	77.884	.06733	.06809	1.1201	.00756	16.155
#2	.00275	79.216	.06755	.06849	1.1205	.00765	16.223
#3	.00230	77.852	.06672	.06879	1.1288	.00761	16.206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00536**	**.05891**	**.18915**	**.07919**	**135.80**	**4.8846**	**.03276**
Stddev	.00008	.00027	.00034	.00058	.24	.0309	.00056
%RSD	1.4939	.46474	.17931	.73872	.17708	.63370	1.7181
#1	.00529	.05916	.18913	.07947	135.64	4.8517	.03331
#2	.00545	.05895	.18949	.07957	135.68	4.9131	.03218
#3	.00534	.05861	.18881	.07851	136.08	4.8891	.03280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.0612**	**3.3087**	**.00742**	**.99969**	**.06616**	**2.9330**	**.24640**
Stddev	.0305	.0149	.00010	.00417	.00057	.0117	.00148
%RSD	.43140	.45111	1.3733	.41695	.86741	.40032	.59998
#1	7.0522	3.2918	.00739	.99605	.06638	2.9382	.24477
#2	7.0952	3.3201	.00734	1.0042	.06658	2.9412	.24766
#3	7.0363	3.3144	.00753	.99878	.06550	2.9195	.24677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068728 Acquired: 3/30/2011 1:48:55 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-30.309**	F **77.029**	F **-16648.**	**.00557**	**.01025**	**2.4736**	**.00698**
Stddev	24.356	.550	33.	.00061	.00252	.0283	.00026
%RSD	80.357	.71367	.20058	11.010	24.597	1.1456	3.6714
#1	-32.465	77.230	-16657.	.00490	.01011	2.4616	.00669
#2	-4.9477	77.450	-16677.	.00611	.00780	2.5059	.00708
#3	-53.516	76.407	-16612.	.00570	.01284	2.4532	.00717
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13429**	**.27287**	**.00619**	**.33786**	**.41048**	**.05302**
Stddev	.00047	.00103	.00103	.00073	.00076	.00017
%RSD	.34988	.37810	16.696	.21556	.18573	.31344
#1	.13388	.27169	.00517	.33767	.41066	.05294
#2	.13481	.27359	.00724	.33867	.41114	.05292
#3	.13419	.27333	.00615	.33725	.40964	.05322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47482.**	**47902.**
Stddev	98.	338.
%RSD	.20681	.70597
#1	47400.	47636.
#2	47456.	47787.
#3	47591.	48282.

Approved: March 30, 2011

Sample Name: L1103068729 Acquired: 3/30/2011 1:52:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00596**	**91.334**	**.13029**	**.13034**	**1.2410**	**.01039**	**33.971**
Stddev	.00041	.477	.00091	.00145	.0023	.00002	.182
%RSD	6.8318	.52208	.70200	1.1110	.18485	.15985	.53703
#1	.00634	91.536	.12944	.13184	1.2394	.01039	33.850
#2	.00553	90.789	.13018	.12895	1.2436	.01038	33.883
#3	.00599	91.677	.13126	.13024	1.2400	.01041	34.181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00597**	**.17040**	**.30507**	**.10012**	**252.43**	**7.8209**	**.03169**
Stddev	.00007	.00085	.00117	.00032	.71	.0493	.00109
%RSD	1.1284	.49911	.38239	.31988	.28043	.63059	3.4462
#1	.00598	.16952	.30472	.09988	253.24	7.8130	.03110
#2	.00590	.17047	.30411	.10049	251.96	7.7760	.03295
#3	.00603	.17121	.30637	.10001	252.08	7.8736	.03102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.8359**	**7.2387**	**.01409**	**1.4344**	**.07643**	**8.6929**	**.34956**
Stddev	.0721	.0372	.00005	.0099	.00034	.0123	.00043
%RSD	.81548	.51337	.36552	.69282	.44862	.14177	.12182
#1	8.8895	7.2330	.01404	1.4277	.07610	8.6855	.34983
#2	8.7540	7.2047	.01409	1.4297	.07679	8.6860	.34979
#3	8.8642	7.2783	.01415	1.4459	.07641	8.7071	.34907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068729 Acquired: 3/30/2011 1:52:31 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **23.242**	F **196.59**	F **-45232.**	**.00504**	**.02321**	**2.0490**	**.00850**
Stddev	61.233	.58	89.	.00055	.00108	.0014	.00045
%RSD	263.45	.29446	.19727	10.926	4.6588	.07076	5.2449
#1	76.252	196.52	-45192.	.00532	.02216	2.0506	.00832
#2	37.259	196.05	-45170.	.00539	.02432	2.0482	.00817
#3	-43.784	197.21	-45334.	.00440	.02316	2.0481	.00900
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19082**	**.31107**	**.01320**	**.60195**	**.75797**	**.07892**
Stddev	.00143	.00096	.00078	.00053	.00094	.00023
%RSD	.75076	.31021	5.9007	.08727	.12344	.29269
#1	.18980	.31217	.01253	.60230	.75743	.07870
#2	.19020	.31040	.01406	.60134	.75743	.07890
#3	.19246	.31063	.01302	.60220	.75905	.07916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47140.**	**48049.**
Stddev	61.	534.
%RSD	.12868	1.1116
#1	47070.	47514.
#2	47175.	48582.
#3	47174.	48052.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 1:56:09 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .45796	10.491	.43489	.53457	.99730	.05416	9.4619
Stddev	.00218	.012	.00101	.00111	.00295	.00006	.0205
%RSD	.47505	.11165	.23121	.20852	.29603	.11182	.21685
#1	.45863	10.504	.43578	.53516	.99392	.05422	9.4405
#2	.45553	10.482	.43380	.53329	.99937	.05410	9.4814
#3	.45972	10.488	.43509	.53527	.99861	.05414	9.4640
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05425	.21898	.53172	.54889	3.8209	50.341	1.0308
Stddev	.00015	.00064	.00080	.00211	.0066	.181	.0015
%RSD	.27764	.29159	.15038	.38378	.17323	.36053	.14643
#1	.05425	.21885	.53248	.54812	3.8137	50.132	1.0291
#2	.05411	.21841	.53089	.54728	3.8266	50.449	1.0319
#3	.05441	.21967	.53179	.55128	3.8226	50.443	1.0313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 8.9820	F .43377	1.0041	50.197	.52742	F 3.6640	.52701
Stddev	.0427	.00215	.0008	.177	.00193	.0078	.00100
%RSD	.47563	.49517	.08399	.35189	.36668	.21428	.18960
#1	8.9495	.43150	1.0046	50.043	.52864	3.6715	.52807
#2	8.9661	.43577	1.0044	50.390	.52519	3.6558	.52609
#3	9.0304	.43402	1.0031	50.158	.52843	3.6646	.52686
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10.000	.50000				10.000	
Range	-10.000%	-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 1:56:09 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **137.85**	**10.637**	F **-.93477**	F **1.3228**	**.41499**	F **1.9074**	**1.0553**
Stddev	52.85	.041	11.964	.0015	.00250	.0010	.0022
%RSD	38.340	.38908	1279.8	.11029	.60192	.05242	.20743
#1	95.774	10.655	-7.9100	1.3243	.41767	1.9068	1.0545
#2	197.17	10.589	-7.7736	1.3214	.41459	1.9068	1.0537
#3	120.61	10.665	12.879	1.3227	.41272	1.9085	1.0578
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000	1.2000		5.0000	
Range	10.000%		-10.000%	10.000%		-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96155**	**.96709**	**.54837**	**1.0854**	**1.0148**	F **.36011**
Stddev	.00388	.00342	.00161	.0022	.0013	.00051
%RSD	.40333	.35413	.29277	.20641	.13174	.14129
#1	.95828	.96324	.54825	1.0861	1.0150	.36048
#2	.96583	.96982	.54683	1.0828	1.0133	.35953
#3	.96053	.96820	.55003	1.0871	1.0160	.36033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						1.0000
Range						-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48679.**	**46480.**
Stddev	77.	282.
%RSD	.15880	.60770
#1	48725.	46693.
#2	48721.	46588.
#3	48589.	46160.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 1:59:31 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.04971**	**.00075**	**.00120**	**-.00006**	**.00000**	**.01240**
Stddev	.00031	.00132	.00099	.00036	.00006	.00002	.00103
%RSD	191.51	2.6483	132.37	30.351	108.84	17936.	8.2758
#1	.00000	.05120	.00114	.00157	-.00001	.00002	.01306
#2	.00004	.04924	.00147	.00120	-.00012	.00001	.01122
#3	-.00052	.04870	-.00038	.00084	-.00003	-.00002	.01293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00009**	**-.00049**	**-.00005**	F **.08331**	**.31417**	**-.01143**
Stddev	.00008	.00014	.00006	.00008	.00509	.03958	.00039
%RSD	54.578	153.26	11.985	157.23	6.1048	12.600	3.3810
#1	-.00021	.00021	-.00056	.00000	.08515	.35784	-.01104
#2	-.00006	.00015	-.00045	-.00001	.08721	.30404	-.01181
#3	-.00017	-.00007	-.00046	-.00015	.07756	.28064	-.01145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit					.06000		
Low Limit					-.06000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01495**	**.00204**	**.00007**	**.02776**	**.00070**	**.00212**	**.00050**
Stddev	.00050	.00034	.00009	.00480	.00050	.00441	.00071
%RSD	3.3498	16.870	119.06	17.276	71.305	207.77	143.47
#1	-.01451	.00222	-.00003	.02379	.00124	-.00293	.00120
#2	-.01550	.00226	.00011	.03309	.00060	.00410	.00051
#3	-.01485	.00164	.00013	.02640	.00026	.00520	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 1:59:31 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **173.39**	F **.08862**	F **3.6588**	**.00059**	**.00033**	**.00134**	**-.00001**
Stddev	42.39	.05977	1.3381	.00098	.00236	.00022	.00028
%RSD	24.448	67.443	36.572	165.48	715.52	16.114	2530.1
#1	212.54	.09149	4.5085	-.00043	.00302	.00131	-.00032
#2	128.37	.14690	2.1164	.00152	-.00136	.00157	.00008
#3	179.26	.02747	4.3516	.00068	-.00068	.00114	.00021
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00154**	**.00091**	**.00012**	**.00401**	**.00035**
Stddev	.00006	.00017	.00088	.00008	.00095	.00011
%RSD	120.54	11.323	96.689	68.954	23.835	31.091
#1	.00012	.00158	.00004	.00020	.00507	.00046
#2	.00001	.00135	.00088	.00013	.00374	.00032
#3	.00003	.00169	.00179	.00003	.00321	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48831.**	**45499.**
Stddev	99.	332.
%RSD	.20193	.72961
#1	48940.	45173.
#2	48749.	45487.
#3	48802.	45837.

Approved: March 30, 2011

Sample Name: L1103068730 Acquired: 3/30/2011 2:03:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00548**	**149.89**	**.16632**	**.16651**	**1.7018**	**.01705**	**32.684**
Stddev	.00097	.04	.00132	.00160	.0080	.00014	.166
%RSD	17.609	.02676	.79554	.96161	.46689	.82617	.50843
#1	.00562	149.94	.16610	.16810	1.7108	.01695	32.876
#2	.00637	149.86	.16512	.16490	1.6956	.01698	32.597
#3	.00445	149.89	.16774	.16652	1.6991	.01721	32.579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00642**	**.20633**	**.38367**	**.11664**	**346.30**	**6.4099**	**.04190**
Stddev	.00003	.00023	.00251	.00049	1.60	.0162	.00101
%RSD	.46421	.11031	.65501	.41866	.46325	.25235	2.3990
#1	.00646	.20607	.38081	.11614	347.38	6.4072	.04102
#2	.00640	.20649	.38468	.11665	344.46	6.4273	.04299
#3	.00642	.20644	.38551	.11712	347.07	6.3953	.04168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.829**	**7.4877**	**.01685**	**9.3124**	**.10762**	**3.3643**	**.45837**
Stddev	.060	.0413	.00009	.0208	.00108	.0193	.00358
%RSD	.43733	.55110	.53551	.22285	1.0031	.57477	.78041
#1	13.851	7.5308	.01679	9.3290	.10823	3.3794	.46088
#2	13.761	7.4485	.01695	9.3190	.10637	3.3425	.45427
#3	13.876	7.4837	.01680	9.2891	.10825	3.3711	.45995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068730 Acquired: 3/30/2011 2:03:14 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **55.048**	F **113.09**	F **-21797.**	**.00817**	**.02244**	**2.2642**	**.01186**
Stddev	67.553	.60	98.	.00119	.00090	.0217	.00017
%RSD	122.72	.52933	.45155	14.537	4.0155	.96017	1.4049
#1	123.30	113.68	-21900.	.00949	.02146	2.2754	.01174
#2	53.619	112.49	-21705.	.00718	.02263	2.2781	.01179
#3	-11.779	113.10	-21785.	.00784	.02323	2.2392	.01205
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26171**	**.24009**	**.01964**	**.79929**	**.40440**	**.12283**
Stddev	.00137	.00041	.00155	.00470	.00025	.00036
%RSD	.52418	.17129	7.9014	.58756	.06247	.29401
#1	.26328	.24037	.01877	.79437	.40412	.12243
#2	.26116	.23962	.01873	.79977	.40459	.12291
#3	.26071	.24029	.02144	.80373	.40450	.12314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47087.**	**48075.**
Stddev	29.	441.
%RSD	.06193	.91701
#1	47060.	47594.
#2	47084.	48460.
#3	47118.	48172.

Approved: March 30, 2011

Sample Name: L1103068731 Acquired: 3/30/2011 2:06:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00302**	**102.48**	**.09788**	**.09422**	**1.9502**	**.01113**	**51.986**
Stddev	.00014	.93	.00118	.00103	.0052	.00003	.082
%RSD	4.4777	.90988	1.2096	1.0955	.26423	.29522	.15783
#1	.00315	102.89	.09849	.09389	1.9453	.01117	52.010
#2	.00302	103.13	.09652	.09339	1.9496	.01112	51.895
#3	.00288	101.41	.09864	.09537	1.9556	.01111	52.054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00537**	**.11802**	**.18851**	**.13093**	**174.54**	**11.315**	**.03811**
Stddev	.00003	.00023	.00032	.00059	.64	.019	.00084
%RSD	.52433	.19089	.17226	.45231	.36551	.16903	2.2054
#1	.00540	.11811	.18856	.13028	174.18	11.297	.03736
#2	.00537	.11819	.18817	.13143	174.17	11.312	.03796
#3	.00534	.11777	.18881	.13109	175.28	11.335	.03902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.233**	**4.3191**	**.01132**	**.72636**	**.09146**	**11.265**	**.29979**
Stddev	.072	.0128	.00006	.00490	.00038	.030	.00136
%RSD	.64240	.29728	.55353	.67445	.41191	.26268	.45262
#1	11.230	4.3157	.01130	.73201	.09188	11.248	.29890
#2	11.163	4.3083	.01126	.72329	.09135	11.249	.30135
#3	11.307	4.3333	.01139	.72377	.09115	11.300	.29911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068731 Acquired: 3/30/2011 2:06:47 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **20.936**	F **294.83**	F **-68192.**	**.00585**	**.01648**	**2.3775**	**.00993**
Stddev	25.306	.99	105.	.00133	.00054	.0066	.00034
%RSD	120.88	.33673	.15416	22.737	3.2511	.27630	3.4023
#1	46.813	293.79	-68268.	.00440	.01587	2.3736	.00963
#2	19.751	294.93	-68072.	.00702	.01666	2.3851	.00986
#3	-3.7574	295.76	-68236.	.00611	.01690	2.3738	.01029
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30841**	**.24044**	**.00701**	**.41568**	**1.0120**	**.09480**
Stddev	.00050	.00018	.00027	.00132	.0051	.00030
%RSD	.16154	.07325	3.7835	.31726	.50722	.32155
#1	.30894	.24025	.00731	.41673	1.0119	.09460
#2	.30795	.24046	.00691	.41420	1.0070	.09466
#3	.30834	.24060	.00681	.41612	1.0172	.09515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47422.**	**48792.**
Stddev	23.	131.
%RSD	.04746	.26828
#1	47396.	48660.
#2	47436.	48922.
#3	47433.	48794.

Approved: March 30, 2011

Sample Name: L1103068732 Acquired: 3/30/2011 2:10:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00508**	**135.70**	**.12874**	**.12736**	**2.7185**	**.01494**	**46.410**
Stddev	.00019	.90	.00071	.00071	.0086	.00002	.172
%RSD	3.7269	.66338	.54943	.55533	.31468	.12754	.37090
#1	.00525	135.02	.12844	.12800	2.7202	.01492	46.512
#2	.00487	136.72	.12955	.12747	2.7261	.01496	46.507
#3	.00511	135.35	.12824	.12660	2.7092	.01494	46.211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00614**	**.15645**	**.32432**	**.11569**	**261.17**	**7.4477**	**.05204**
Stddev	.00016	.00020	.00144	.00051	1.28	.0296	.00039
%RSD	2.5296	.12500	.44420	.44420	.48962	.39730	.74812
#1	.00598	.15635	.32273	.11588	262.28	7.4592	.05173
#2	.00613	.15667	.32468	.11608	261.47	7.4699	.05248
#3	.00629	.15632	.32554	.11511	259.77	7.4141	.05191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.108**	**8.5028**	**.01296**	**.94811**	**.11395**	**4.2800**	**.41224**
Stddev	.092	.0475	.00013	.00710	.00033	.0217	.00102
%RSD	.70281	.55889	.99922	.74935	.29229	.50654	.24783
#1	13.149	8.5452	.01303	.95523	.11408	4.2898	.41267
#2	13.171	8.5117	.01281	.94103	.11420	4.2951	.41298
#3	13.002	8.4514	.01304	.94808	.11357	4.2552	.41108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068732 Acquired: 3/30/2011 2:10:25 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-46.529**	F **151.73**	F **-29390.**	**.00501**	**.01615**	**2.3036**	**.01081**
Stddev	16.610	.63	153.	.00096	.00107	.0243	.00016
%RSD	35.698	.41544	.52186	19.083	6.6363	1.0554	1.4459
#1	-27.521	152.07	-29466.	.00606	.01731	2.3315	.01078
#2	-58.247	152.11	-29491.	.00419	.01594	2.2929	.01098
#3	-53.819	151.00	-29214.	.00478	.01520	2.2865	.01068
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.34715**	**.20110**	**.01233**	**.62032**	**.50334**	**.12057**
Stddev	.00088	.00129	.00147	.00041	.00087	.00024
%RSD	.25427	.64045	11.890	.06683	.17357	.20083
#1	.34730	.20003	.01402	.62062	.50272	.12083
#2	.34795	.20074	.01150	.62049	.50296	.12054
#3	.34621	.20253	.01146	.61985	.50434	.12035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47132.**	**48847.**
Stddev	115.	752.
%RSD	.24386	1.5396
#1	47009.	48097.
#2	47150.	48842.
#3	47236.	49601.

Approved: March 30, 2011

Sample Name: L1103068733 Acquired: 3/30/2011 2:13:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00472**	**100.51**	**.12196**	**.12351**	**1.4181**	**.01101**	**36.270**
Stddev	.00019	.31	.00277	.00043	.0026	.00005	.071
%RSD	3.9999	.30941	2.2734	.34428	.18073	.46006	.19483
#1	.00484	100.84	.11876	.12374	1.4204	.01096	36.276
#2	.00481	100.23	.12366	.12377	1.4187	.01103	36.337
#3	.00450	100.45	.12345	.12302	1.4153	.01105	36.196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00561**	**.15247**	**.31316**	**.11592**	**240.96**	**7.6199**	**.03657**
Stddev	.00006	.00134	.00092	.00207	.65	.0163	.00084
%RSD	1.0090	.87702	.29448	1.7880	.27178	.21388	2.2936
#1	.00567	.15096	.31214	.11387	240.36	7.6074	.03692
#2	.00561	.15295	.31338	.11586	240.87	7.6141	.03717
#3	.00556	.15350	.31395	.11801	241.66	7.6383	.03561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.0503**	**6.5112**	**.01409**	**1.6086**	**.08253**	**11.509**	**.34897**
Stddev	.0533	.0219	.00012	.0064	.00059	.036	.00304
%RSD	.58925	.33592	.85197	.39837	.71687	.30949	.86978
#1	8.9974	6.4860	.01396	1.6100	.08202	11.474	.34547
#2	9.0497	6.5240	.01415	1.6142	.08240	11.508	.35057
#3	9.1040	6.5238	.01417	1.6017	.08318	11.546	.35087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068733 Acquired: 3/30/2011 2:13:59 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.7329**	F **211.64**	F **-48788.**	**.00595**	**.02052**	**2.1029**	**.00912**
Stddev	40.505	1.95	59.	.00037	.00192	.0185	.00048
%RSD	523.80	.92351	.12143	6.2939	9.3489	.87751	5.2179
#1	-33.545	209.73	-48825.	.00634	.02012	2.0816	.00889
#2	47.418	211.56	-48719.	.00591	.02261	2.1148	.00967
#3	9.3253	213.64	-48818.	.00560	.01884	2.1123	.00880
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000	9.0000				
Low Limit		-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21343**	**.29065**	**.01366**	**.57753**	**.87411**	**.07616**
Stddev	.00046	.00037	.00054	.00092	.00212	.00048
%RSD	.21569	.12598	3.9173	.15957	.24214	.62702
#1	.21375	.29031	.01329	.57646	.87184	.07580
#2	.21364	.29060	.01428	.57808	.87447	.07670
#3	.21290	.29103	.01342	.57803	.87602	.07599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47298.**	**48569.**
Stddev	74.	121.
%RSD	.15653	.25009
#1	47378.	48679.
#2	47282.	48589.
#3	47233.	48438.

Approved: March 30, 2011

Sample Name: L1103068734 Acquired: 3/30/2011 2:17:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00364**	**125.14**	**.10810**	**.10642**	**1.7431**	**.01098**	**71.580**
Stddev	.00087	.94	.00115	.00067	.0021	.00003	.237
%RSD	24.020	.75333	1.0643	.62508	.12094	.26601	.33055
#1	.00435	126.16	.10940	.10567	1.7410	.01096	71.311
#2	.00390	124.97	.10769	.10692	1.7430	.01101	71.755
#3	.00266	124.30	.10721	.10668	1.7453	.01097	71.674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00529**	**.08784**	**.24771**	**.17985**	**196.86**	**12.538**	**.05074**
Stddev	.00022	.00032	.00098	.00111	.65	.046	.00015
%RSD	4.0695	.36683	.39507	.61537	.32774	.36831	.29854
#1	.00507	.08785	.24736	.18046	196.13	12.485	.05091
#2	.00531	.08816	.24882	.18052	197.09	12.562	.05061
#3	.00550	.08751	.24696	.17858	197.36	12.567	.05069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.763**	**4.8477**	**.01255**	**1.0453**	**.09464**	**19.887**	**.26996**
Stddev	.061	.0232	.00009	.0073	.00041	.048	.00161
%RSD	.51534	.47942	.71056	.69516	.43050	.24339	.59470
#1	11.697	4.8224	.01257	1.0389	.09511	19.877	.27091
#2	11.775	4.8680	.01263	1.0532	.09438	19.939	.27085
#3	11.817	4.8527	.01245	1.0438	.09443	19.844	.26810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068734 Acquired: 3/30/2011 2:17:35 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.6963**	F **313.45**	F **-65806.**	**.00639**	**.01811**	**2.2346**	**.01016**
Stddev	52.402	1.38	145.	.00148	.00122	.0145	.00026
%RSD	540.43	.44062	.22005	23.128	6.7239	.64858	2.6061
#1	66.916	313.11	-65704.	.00736	.01838	2.2357	.00986
#2	-1.8715	314.97	-65972.	.00469	.01917	2.2485	.01028
#3	-35.955	312.27	-65742.	.00713	.01678	2.2196	.01034
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.34242**	**.28535**	**.01026**	**.49302**	**1.5310**	**.07813**
Stddev	.00082	.00021	.00022	.00166	.0014	.00010
%RSD	.23819	.07433	2.1833	.33723	.09046	.12388
#1	.34154	.28540	.01051	.49130	1.5309	.07804
#2	.34315	.28554	.01012	.49462	1.5324	.07811
#3	.34256	.28512	.01013	.49312	1.5297	.07823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47498.**	**49933.**
Stddev	93.	76.
%RSD	.19666	.15278
#1	47490.	50021.
#2	47410.	49881.
#3	47596.	49898.

Approved: March 30, 2011

Sample Name: L1103068735 Acquired: 3/30/2011 2:21:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00351**	**115.19**	**.10047**	**.11178**	**2.0792**	**.01262**	**58.270**
Stddev	.00020	.89	.00057	.00013	.0101	.00005	.247
%RSD	5.7760	.77103	.56497	.11717	.48447	.42271	.42437
#1	.00336	115.79	.10010	.11166	2.0891	.01257	58.467
#2	.00374	115.60	.10112	.11192	2.0795	.01261	58.351
#3	.00343	114.17	.10018	.11176	2.0690	.01267	57.993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00576**	**.08067**	**.23667**	**.14130**	**196.12**	**8.3436**	**.04562**
Stddev	.00005	.00020	.00151	.00166	.30	.0229	.00035
%RSD	.82621	.25083	.63609	1.1748	.15297	.27452	.76850
#1	.00578	.08086	.23503	.14068	196.43	8.3701	.04527
#2	.00571	.08070	.23702	.14319	196.10	8.3312	.04561
#3	.00580	.08046	.23798	.14005	195.83	8.3296	.04597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.599**	**4.3260**	**.01151**	**1.4157**	**.10169**	**8.4095**	**.26525**
Stddev	.047	.0173	.00011	.0107	.00045	.0243	.00089
%RSD	.31993	.39959	.91700	.75584	.43817	.28879	.33712
#1	14.562	4.3395	.01140	1.4250	.10135	8.4236	.26443
#2	14.582	4.3320	.01161	1.4181	.10219	8.4235	.26621
#3	14.651	4.3065	.01151	1.4040	.10152	8.3815	.26512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068735 Acquired: 3/30/2011 2:21:12 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-13.307**	F **292.34**	F **-63936.**	**.00690**	**.01409**	**2.4128**	**.01029**
Stddev	24.581	1.60	131.	.00192	.00120	.0248	.00017
%RSD	184.72	.54893	.20456	27.821	8.5245	1.0283	1.6056
#1	1.0342	292.14	-64002.	.00548	.01270	2.4096	.01048
#2	.7345	294.03	-64021.	.00614	.01482	2.4390	.01019
#3	-41.690	290.84	-63785.	.00909	.01474	2.3897	.01020
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38087**	**.24076**	**.00973**	**.46723**	**.66648**	**.09851**
Stddev	.00122	.00051	.00052	.00068	.00471	.00059
%RSD	.32097	.21317	5.3920	.14491	.70615	.60308
#1	.38167	.24090	.00990	.46669	.66172	.09782
#2	.38148	.24119	.00915	.46702	.67113	.09882
#3	.37947	.24019	.01016	.46799	.66658	.09889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47599.**	**49278.**
Stddev	71.	89.
%RSD	.14848	.17996
#1	47620.	49184.
#2	47520.	49291.
#3	47656.	49360.

Approved: March 30, 2011

Sample Name: L1103068736 Acquired: 3/30/2011 2:24:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00365**	**67.000**	**.07250**	**.07274**	**.64740**	**.00618**	**16.086**
Stddev	.00013	.237	.00128	.00026	.00150	.00001	.016
%RSD	3.6699	.35353	1.7696	.35549	.23226	.11457	.09679
#1	.00380	66.945	.07394	.07245	.64567	.00618	16.095
#2	.00360	67.260	.07149	.07294	.64808	.00617	16.094
#3	.00355	66.796	.07206	.07283	.64843	.00619	16.068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00456**	**.06709**	**.19432**	**.06322**	**144.06**	**3.9350**	**.01969**
Stddev	.00002	.00033	.00070	.00059	.40	.0204	.00052
%RSD	.36527	.48628	.36059	.93537	.28061	.51891	2.6208
#1	.00454	.06735	.19469	.06386	143.61	3.9464	.02006
#2	.00456	.06720	.19476	.06269	144.19	3.9471	.01910
#3	.00457	.06672	.19351	.06313	144.39	3.9114	.01990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.6033**	**2.7653**	**.00959**	**.35669**	**.05165**	**3.3282**	**.25370**
Stddev	.0227	.0038	.00010	.00424	.00038	.0074	.00210
%RSD	.40549	.13894	.99224	1.1893	.74273	.22122	.82943
#1	5.5788	2.7609	.00948	.35929	.05202	3.3222	.25384
#2	5.6077	2.7669	.00962	.35899	.05126	3.3364	.25152
#3	5.6236	2.7680	.00966	.35180	.05166	3.3261	.25572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: L1103068736 Acquired: 3/30/2011 2:24:48 Type: Unk
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **39.748**	F **108.25**	F **-25432.**	**.00662**	**.00967**	**2.1887**	**.00736**
Stddev	31.543	.60	85.	.00132	.00278	.0067	.00015
%RSD	79.357	.55858	.33520	19.904	28.757	.30776	2.0483
#1	3.5321	108.39	-25447.	.00809	.01016	2.1934	.00741
#2	54.503	108.77	-25508.	.00552	.01218	2.1917	.00747
#3	61.210	107.59	-25340.	.00627	.00668	2.1810	.00719
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000	9.0000	9.0000				
Low Limit	-.00400	-.00400	-.00400				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10853**	**.26311**	**.00869**	**.36362**	**.33303**	**.05244**
Stddev	.00012	.00063	.00040	.00003	.00095	.00022
%RSD	.11046	.24042	4.6575	.00773	.28547	.41236
#1	.10867	.26238	.00838	.36362	.33412	.05229
#2	.10850	.26345	.00855	.36365	.33237	.05269
#3	.10844	.26349	.00915	.36359	.33261	.05234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**47769.**	**47137.**
Stddev	90.	325.
%RSD	.18937	.68891
#1	47702.	46772.
#2	47732.	47247.
#3	47872.	47393.

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 2:28:21 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .45620	10.385	.43678	.53210	.98760	.05394	9.4374
Stddev	.00184	.054	.00019	.00248	.00770	.00020	.0973
%RSD	.40363	.52022	.04263	.46624	.78009	.37666	1.0307
#1	.45598	10.401	.43686	.53175	.98585	.05386	9.3855
#2	.45448	10.324	.43691	.52981	.98093	.05379	9.3771
#3	.45815	10.428	.43657	.53473	.99604	.05417	9.5496
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.40000						
Range	10.000%						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05433	F .22035	.52836	F .55110	3.6201	50.467	1.0237
Stddev	.00026	.00094	.00297	.00226	.0374	.470	.0068
%RSD	.47714	.42535	.56225	.41049	1.0322	.93138	.66243
#1	.05431	.21999	.52827	.54966	3.6102	50.224	1.0210
#2	.05409	.21965	.52544	.54994	3.5887	50.169	1.0186
#3	.05461	.22141	.53137	.55371	3.6615	51.009	1.0314
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.20000		.50000			
Range		10.000%		10.000%			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.0564	F .42835	1.0009	50.432	.52989	F 3.6750	.52620
Stddev	.1002	.00465	.0038	.595	.00260	.0123	.00326
%RSD	1.1063	1.0845	.37828	1.1804	.49011	.33539	.61934
#1	8.9892	.42597	1.0002	50.008	.52951	3.6721	.52432
#2	9.0085	.42537	.99749	50.176	.52750	3.6644	.52432
#3	9.1716	.43370	1.0050	51.112	.53265	3.6885	.52997
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value		.50000				10.000	
Range		-10.000%				-10.000%	

Approved: March 30, 2011

Sample Name: CCV Acquired: 3/30/2011 2:28:21 Type: QC
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **182.18**	**10.642**	F **20.205**	F **1.3244**	**.40879**	F **1.9092**	**1.0600**
Stddev	57.45	.048	8.926	.0073	.00204	.0076	.0045
%RSD	31.536	.44996	44.177	.55435	.49953	.40095	.42050
#1	248.13	10.696	27.694	1.3189	.40652	1.9034	1.0589
#2	142.98	10.606	22.594	1.3215	.40937	1.9062	1.0562
#3	155.43	10.624	10.328	1.3327	.41049	1.9179	1.0649
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value	10.000		10.000	1.2000		5.0000	
Range	10.000%		10.000%	10.000%		-10.000%	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96087**	**.96297**	F **.55267**	**1.0853**	**1.0209**	F **.35939**
Stddev	.01135	.01099	.00063	.0061	.0043	.00177
%RSD	1.1814	1.1415	.11382	.55843	.42647	.49365
#1	.95321	.95596	.55328	1.0872	1.0169	.35963
#2	.95548	.95731	.55202	1.0785	1.0203	.35751
#3	.97391	.97564	.55271	1.0902	1.0256	.36104
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value			.50000			1.0000
Range			10.000%			-10.000%

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48511.**	**45445.**
Stddev	233.	379.
%RSD	.48054	.83419
#1	48569.	45605.
#2	48709.	45719.
#3	48254.	45013.

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 2:31:44 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.01946**	**.00128**	**.00147**	**-.00053**	**.00001**	**.00462**
Stddev	.00032	.00146	.00081	.00079	.00018	.00002	.00216
%RSD	120.05	7.5198	62.941	54.050	33.453	153.75	46.680
#1	-.00012	.02057	.00035	.00149	-.00040	.00003	.00263
#2	-.00004	.02002	.00175	.00066	-.00073	.00003	.00691
#3	-.00064	.01780	.00176	.00225	-.00046	-.00001	.00431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00000**	**-.00032**	**-.00010**	**.00069**	**.30791**	**-.01047**
Stddev	.00002	.0001	.00023	.00002	.00054	.02243	.00101
%RSD	42.924	5092.6	71.952	20.980	77.924	7.2858	9.6397
#1	-.00004	.00011	-.00053	-.00010	.00131	.29537	-.01070
#2	-.00002	.00002	-.00038	-.00012	.00045	.33381	-.01135
#3	-.00005	-.00013	-.00007	-.00008	.00031	.29455	-.00937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2149	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02141**	**-.00040**	**.00011**	**.02416**	**.00039**	**-.00012**	**.00035**
Stddev	.01060	.00035	.00015	.00194	.00033	.00330	.00107
%RSD	49.523	85.863	134.73	8.0496	84.611	2769.4	303.68
#1	-.01991	-.00016	.00018	.02194	.00022	.00337	.00031
#2	-.01164	-.00080	.00021	.02556	.00018	-.00054	.00144
#3	-.03269	-.00025	-.00006	.02498	.00077	-.00319	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: March 30, 2011

Sample Name: CCB Acquired: 3/30/2011 2:31:44 Type: Blank
Method: ICP-THERMO2_6010_200.7(v1307) Mode: CONC Corr. Factor: 1.000000
User: JYH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Rb7800	S_1807	S_1820	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **159.88**	F **.07086**	F **4.5303**	**-.00065**	**.00010**	**.00154**	**-.00006**
Stddev	18.33	.01779	8.4634	.00092	.00046	.00136	.00016
%RSD	11.464	25.105	186.82	140.98	471.25	88.326	259.79
#1	178.78	.09038	-4.4395	-.00014	.00061	.00295	-.00006
#2	158.66	.06664	12.375	-.00010	-.00026	.00142	.00010
#3	142.19	.05556	5.6556	-.00172	-.00006	.00024	-.00022
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	.01000	.01000				
Low Limit	-.01000	-.01000	-.01000				

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00124**	**.00159**	**-.00004**	**.00170**	**.00019**
Stddev	.00003	.00046	.00164	.00025	.00133	.00026
%RSD	32.570	37.552	103.28	603.92	78.555	132.92
#1	-.00006	.00169	.00158	-.00024	.00069	.00048
#2	-.00011	.00077	-.00005	.00024	.00120	.00014
#3	-.00012	.00125	.00324	-.00012	.00321	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**48588.**	**45341.**
Stddev	39.	102.
%RSD	.08022	.22552
#1	48546.	45225.
#2	48624.	45381.
#3	48594.	45418.

Approved: March 30, 2011

2.1.2 Metals ICP-MS Data

2.1.2.1 Summary Data

Login Number: L11030926

Department: Metals

Analyst: Erin Long

METHOD

Preparation: SW-846 3051

Analysis: SW-846 6020

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

Low Level Check: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG360123 - Due to a suspected spiking error, the initial analysis of the post digestion spike performed on a nonclient sample yielded a recovery for cadmium that was greater than the upper acceptance limit. An additional post digestion spike was performed on a later calibration and met all acceptance criteria.

Matrix Spikes: WG360123 - Sample 02 was chosen by the client for MS/MSD analysis. Samples 03(MS) and 04(MSD) yielded noncompliant recoveries for chromium.

SAMPLES

Samples: WG360123 - Due to the high levels of nontarget analytes, client samples 01 through 06 were analyzed initially at dilutions for all analytes.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 24406
Approved By: Sheri Pfalzgraf

LABORATORY REPORT

L11030926

04/06/11 14:15

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SWMU-57-32511-SS-FC-2'-NUM1	L11030926-01	6020	5	28-MAR-11
SWMU-57-32511-SS-DUP	L11030926-02	6020	5	28-MAR-11
SWMU-57-32511-SS-MS	L11030926-03	6020	5	28-MAR-11
SWMU-57-32511-SS-MSD	L11030926-04	6020	5	28-MAR-11
SWMU-57-32511-SS-FC-B3-2.5'	L11030926-05	6020	5	28-MAR-11
SWMU-57-32611-SS-2.5' SW-4	L11030926-06	6020	5	28-MAR-11

Microbac Laboratories Inc.

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	**L11030926-01**	PrePrep Method:	**NONE**	Instrument:	**ELAN-ICP**
Client ID:	**SWMU-57-32511-SS-FC-2'-NUI**	Prep Method:	**3051A**	Prep Date:	**03/28/2011 12:10**
Matrix:	**Soil**	Analytical Method:	**6020**	Cal Date:	**03/28/2011 11:38**
Workgroup Number:	**WG360123**	Analyst:	**EDL**	Run Date:	**03/28/2011 17:04**
Collect Date:	**03/25/2011 08:15**	Dilution:	**5**	File ID:	**EL.032811.170431**
Sample Tag:	**DL01**	Units:	**mg/kg**	Percent Solid:	**75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	**7440-43-9**	**0.563**	**J**	**0.657**	**0.329**
Chromium, Total	**7440-47-3**	**15.6**		**2.63**	**1.31**

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	L11030926-02	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-32511-SS-DUP	Prep Method:	3051A	Prep Date:	03/28/2011 12:11
Matrix:	Soil	Analytical Method:	6020	Cal Date:	03/28/2011 11:38
Workgroup Number:	WG360123	Analyst:	EDL	Run Date:	03/28/2011 17:11
Collect Date:	03/25/2011 08:15	Dilution:	5	File ID:	EL.032811.171119
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	75.1

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	0.603	J	0.642	0.321
Chromium, Total	7440-47-3	27.0		2.57	1.28

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	**L11030926-03**	PrePrep Method:	**NONE**	Instrument:	**ELAN-ICP**
Client ID:	**SWMU-57-32511-SS-MS**	Prep Method:	**3051A**	Prep Date:	**03/28/2011 12:05**
Matrix:	**Soil**	Analytical Method:	**6020**	Cal Date:	**03/28/2011 11:38**
Workgroup Number:	**WG360123**	Analyst:	**EDL**	Run Date:	**03/28/2011 17:18**
Collect Date:	**03/25/2011 08:15**	Dilution:	**5**	File ID:	**EL.032811.171807**
Sample Tag:	**DL01**	Units:	**mg/kg**	Percent Solid:	**75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	**7440-43-9**	**15.8**		**0.657**	**0.329**
Chromium, Total	**7440-47-3**	**37.1**		**2.63**	**1.31**

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	**L11030926-04**	PrePrep Method:	**NONE**	Instrument:	**ELAN-ICP**
Client ID:	**SWMU-57-32511-SS-MSD**	Prep Method:	**3051A**	Prep Date:	**03/28/2011 12:05**
Matrix:	**Soil**	Analytical Method:	**6020**	Cal Date:	**03/28/2011 11:38**
Workgroup Number:	**WG360123**	Analyst:	**EDL**	Run Date:	**03/28/2011 17:24**
Collect Date:	**03/25/2011 08:15**	Dilution:	**5**	File ID:	**EL.032811.172455**
Sample Tag:	**DL01**	Units:	**mg/kg**	Percent Solid:	**75.2**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	**7440-43-9**	**15.0**		**0.657**	**0.329**
Chromium, Total	**7440-47-3**	**35.6**		**2.63**	**1.31**

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	L11030926-05	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-32511-SS-FC-B3-2.5	Prep Method:	3051A	Prep Date:	03/28/2011 12:14
Matrix:	Soil	Analytical Method:	6020	Cal Date:	03/28/2011 11:38
Workgroup Number:	WG360123	Analyst:	EDL	Run Date:	03/28/2011 17:31
Collect Date:	03/25/2011 11:00	Dilution:	5	File ID:	EL.032811.173144
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	74.0

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9	0.460	J	0.645	0.323
Chromium, Total	7440-47-3	30.7		2.58	1.29

J Estimated value ; the analyte concentration was less than the low standard (LOQ)

Report Number: **L11030926**
Report Date : **April 6, 2011**

Sample Number:	L11030926-06	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SWMU-57-32611-SS-2.5' SW-4	Prep Method:	3051A	Prep Date:	03/28/2011 12:15
Matrix:	Soil	Analytical Method:	6020	Cal Date:	03/28/2011 11:38
Workgroup Number:	WG360123	Analyst:	EDL	Run Date:	03/28/2011 17:38
Collect Date:	03/26/2011 08:15	Dilution:	5	File ID:	EL.032811.173831
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	77.4

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Cadmium, Total	7440-43-9		U	0.632	0.316
Chromium, Total	7440-47-3	17.6		2.53	1.26

U Analyte was not detected. The concentration is below the reported LOD.

2.1.2.2 QC Summary Data

Example 6020 Calculations
Perkin Elmer ELAN 6100

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	100
Vi = Initial volume	40
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/L)	0.25

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	200
Vi = Initial volume	0.5
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/kg)	40

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	40
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	50

50 ug/kg = 0.050 mg/kg

Perkin Elmer ELAN ICP/MS

STANDARDS KEY

QC Std 1 - ICV
QC Std 2 - ICB
QC Std 3 - LLICV
QC Std 4 - ICSA
QC Std 5 - ICSAB
QC Std 6 - CCV
QC Std 7 - CCB
QC Std 8 - LLCCV

Calibration Solutions

Analyte	Stock Conc. (mg/L)	S1 (mg/L)	S2 (mg/L)	S3 (mg/L)	S4 (mg/L)
Al	10	0	0.0004	0.05	0.1
Sb	10	0	0.0004	0.05	0.1
As	10	0	0.0004	0.05	0.1
Ba	10	0	0.0004	0.05	0.1
Be	10	0	0.0004	0.05	0.1
Ca	1000	0	0.04	5	10
Cd	10	0	0.0004	0.05	0.1
Cr	10	0	0.0004	0.05	0.1
Co	10	0	0.0004	0.05	0.1
Cu	10	0	0.0004	0.05	0.1
Fe	1000	0	0.04	5	10
Pb	10	0	0.0004	0.05	0.1
Mg	1000	0	0.04	5	10
Mn	10	0	0.0004	0.05	0.1
Ni	10	0	0.0004	0.05	0.1
K	1000	0	0.04	5	10
Se	10	0	0.0004	0.05	0.1
Ag	10	0	0.0004	0.05	0.1
Na	1000	0	0.04	5	10
Tl	10	0	0.0004	0.05	0.1
V	10	0	0.0004	0.05	0.1
U	1000	0	0.0004	0.05	0.1
Zn	10	0	0.0004	0.05	0.1

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG360101
Analyst: BRG
Spike Analyst: VC
Run Date: 03/28/2011 12:15
Method: 3051A
Balance: BAL013
Instrument: MW-2

SOP: ME406 Revison 12
Spike Solution: STD41894
Spike Witness: ERP
HNO3 Lot #: COA15168
Digestion Tubes Lot #: COA15251

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG360101-02	BLANK	7	.5 g	200 mL	174.899 g	174.89 g		
2	WG360101-03	LCS	7	.5 g	200 mL	175.314 g	175.309 g	.5 mL	
3	L11030925-01	SAMP	7	.515 g	200 mL	177.657 g	177.665 g		03/29/11
4	L11030925-02	SAMP	7	.512 g	200 mL	173.977 g	173.968 g		03/29/11
5	L11030925-03	SAMP	7	.503 g	200 mL	175.22 g	175.204 g		03/29/11
6	L11030925-04	SAMP	7	.505 g	200 mL	176.094 g	176.08 g		03/29/11
7	L11030925-05	SAMP	7	.506 g	200 mL	176.132 g	176.127 g		03/29/11
8	L11030925-06	SAMP	7	.505 g	200 mL	173.77 g	173.756 g		03/29/11
9	WG360101-01	REF	7	.506 g	200 mL	174.196 g	174.193 g		
10	L11030926-01	RS01	7	.506 g	200 mL	174.196 g	174.193 g		03/31/11
11	L11030926-02	SAMP	7	.518 g	200 mL	174.223 g	174.203 g		03/31/11
12	WG360101-04	MS	7	.506 g	200 mL	175.103 g	175.084 g	.5 mL	
13	L11030926-03	MS01	7	.506 g	200 mL	175.103 g	175.084 g	.5 mL	03/31/11
14	WG360101-05	MSD	7	.506 g	200 mL	174.492 g	174.487 g	.5 mL	
15	L11030926-04	SD01	7	.506 g	200 mL	174.492 g	174.487 g	.5 mL	03/31/11
16	L11030926-05	SAMP	7	.524 g	200 mL	172.192 g	172.183 g		03/31/11
17	L11030926-06	SAMP	7	.511 g	200 mL	175.104 g	175.089 g		03/31/11

Analyst: Brenda Gregory

Reviewer: Erin Potter

MW_DIG - Modified 09/30/2009
PDF ID: 1955218
Report generated: 03/28/2011 13:10

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 032811B.REP
Analyst1: EDL Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 7
Maintenance Log ID: 36856

Calibration Std: STD44462 ICV Std: STD44275 Post Spike: STD42704
ICSA: STD44532 ICSAB: STD44533 Int. Std: STD44465
CCV: STD44343 LLCCV: STD44536

Workgroups: 359254, 359640, 359899, 360123

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.032811.111108	Blank	Blank		1		03/28/11 11:11
2	EL.032811.111752	WG360145-01	Calibration Point		1		03/28/11 11:17
3	EL.032811.112437	WG360145-02	Calibration Point		1		03/28/11 11:24
4	EL.032811.113122	WG360145-03	Calibration Point		1		03/28/11 11:31
5	EL.032811.113809	WG360145-04	Calibration Point		1		03/28/11 11:38
6	EL.032811.114454	WG360145-05	Initial Calibration Verification		1		03/28/11 11:44
7	EL.032811.115138	WG360145-06	Initial Calib Blank		1		03/28/11 11:51
8	EL.032811.115825	WG360145-07	Low Level Initial Calibration V		1		03/28/11 11:58
9	EL.032811.120514	WG360145-08	Interference Check		1		03/28/11 12:05
10	EL.032811.121202	WG360145-09	Interference Check		1		03/28/11 12:12
11	EL.032811.121850	WG360145-10	CCV		1		03/28/11 12:18
12	EL.032811.122606	WG360145-11	CCB		1		03/28/11 12:26
13	EL.032811.123250	L11030530-01	201MW02-110315	40/100	50		03/28/11 12:32
14	EL.032811.123935	WG359563-04	Method/Prep Blank	40/100	1		03/28/11 12:39
15	EL.032811.124620	WG359563-05	Laboratory Control S	40/100	1		03/28/11 12:46
16	EL.032811.125306	WG359563-01	Reference Sample		5	L11030578-01	03/28/11 12:53
17	EL.032811.125952	WG359563-06	Matrix Spike	40/100	5	L11030578-01	03/28/11 12:59
18	EL.032811.130638	WG359563-07	Matrix Spike Duplica	40/100	5	L11030578-01	03/28/11 13:06
19	EL.032811.131324	WG359563-01	Reference Sample		200	L11030578-01	03/28/11 13:13
20	EL.032811.132011	WG359563-06	Matrix Spike	40/100	200	L11030578-01	03/28/11 13:20
21	EL.032811.132658	WG359563-07	Matrix Spike Duplica	40/100	200	L11030578-01	03/28/11 13:26
22	EL.032811.133346	WG360145-12	CCV		1		03/28/11 13:33
23	EL.032811.134101	WG360145-13	CCB		1		03/28/11 13:41
24	EL.032811.134747	WG359640-03	Post Digestion Spike		5	L11030578-01	03/28/11 13:47
25	EL.032811.135435	WG359640-04	Serial Dilution		25	L11030578-01	03/28/11 13:54
26	EL.032811.140122	WG359640-03	Post Digestion Spike		200	L11030578-01	03/28/11 14:01
27	EL.032811.140808	WG360145-14	CCV		1		03/28/11 14:08
28	EL.032811.141524	WG360145-15	CCB		1		03/28/11 14:15
29	EL.032811.142444	WG359793-04	Method/Prep Blank	40/100	1		03/28/11 14:24
30	EL.032811.143129	WG359793-05	Laboratory Control S	40/100	1		03/28/11 14:31
31	EL.032811.143815	L11030744-01	OUTFALL 003	40/100	1		03/28/11 14:38
32	EL.032811.144501	WG359793-02	Reference Sample		1	L11030744-02	03/28/11 14:45
33	EL.032811.145147	WG359793-08	Matrix Spike	40/100	1	L11030744-02	03/28/11 14:51
34	EL.032811.145834	L11030790-17	RINE PAD\#1-B		1		03/28/11 14:58

Page: 1 Approved: March 29, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 032811B.REP
Analyst1: EDL Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 7
Maintenance Log ID: 36856

Calibration Std: STD44462 ICV Std: STD44275 Post Spike: STD42704
ICSA: STD44532 ICSAB: STD44533 Int. Std: STD44465
CCV: STD44343 LLCCV: STD44536

Workgroups: 359254, 359640, 359899, 360123

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	EL.032811.150521	WG359899-05	Post Digestion Spike		1	L11030744-01	03/28/11 15:05
36	EL.032811.151208	WG359899-06	Serial Dilution		5	L11030744-01	03/28/11 15:12
37	EL.032811.151855	WG360145-16	CCV		1		03/28/11 15:18
38	EL.032811.152611	WG360145-17	CCB		1		03/28/11 15:26
39	EL.032811.153258	WG360145-18	Low Level Continuing Calibra		1		03/28/11 15:32
40	EL.032811.153947	WG360101-02	Method/Prep Blank	.5/200	1		03/28/11 15:39
41	EL.032811.154635	WG360101-03	Laboratory Control S	.5/200	1		03/28/11 15:46
42	EL.032811.155324	L11030925-01	SWMU-57-32511-SS-FC-8'-N	.515/200	5		03/28/11 15:53
43	EL.032811.160010	L11030925-02	SWMU-57-32511-SS-4'SW-1	.512/200	5		03/28/11 16:00
44	EL.032811.160907	L11030925-03	SWMU-57-32511-SS-7.5'SW	.503/200	5		03/28/11 16:09
45	EL.032811.161552	L11030925-04	SWMU-57-32511-SS-7.5'SW	.505/200	5		03/28/11 16:15
46	EL.032811.162323	L11030925-05	SWMU-57-32611-FC-15'-NU	.506/200	5		03/28/11 16:23
47	EL.032811.163009	L11030925-06	SWMU-57-32611-FC-13'-NU	.505/200	5		03/28/11 16:30
48	EL.032811.163656	WG360123-01	Post Digestion Spike		5	L11030925-06	03/28/11 16:36
49	EL.032811.164343	WG360123-02	Serial Dilution		25	L11030925-06	03/28/11 16:43
50	EL.032811.165030	WG360145-19	CCV		1		03/28/11 16:50
51	EL.032811.165746	WG360145-20	CCB		1		03/28/11 16:57
52	EL.032811.170431	L11030926-01	SWMU-57-32511-SS-FC-2'-N		5	WG360101-01	03/28/11 17:04
53	EL.032811.171119	L11030926-02	SWMU-57-32511-SS-DUP	.518/200	5		03/28/11 17:11
54	EL.032811.171807	L11030926-03	SWMU-57-32511-SS-MS	.506/200	5	WG360101-04	03/28/11 17:18
55	EL.032811.172455	L11030926-04	SWMU-57-32511-SS-MSD	.506/200	5	WG360101-05	03/28/11 17:24
56	EL.032811.173144	L11030926-05	SWMU-57-32511-SS-FC-B3-	.524/200	5		03/28/11 17:31
57	EL.032811.173831	L11030926-06	SWMU-57-32611-SS-2.5' SW	.511/200	5		03/28/11 17:38
58	EL.032811.174518	WG360145-21	CCV		1		03/28/11 17:45
59	EL.032811.175233	WG360145-22	CCB		1		03/28/11 17:52

Page: 2 Approved: March 29, 2011

Maren Berry

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 032911A.REP
Analyst1: EDL Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 7
Maintenance Log ID: 36869

Calibration Std: STD44462 ICV Std: STD44275 Post Spike: STD42704
ICSA: STD44532 ICSAB: STD44533 Int. Std: STD44465
CCV: STD44343 LLCCV: STD44536

Workgroups: 360149, 360220, 360123, 359174, 359899

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.032911.084707	Blank	Blank		1		03/29/11 08:47
2	EL.032911.085351	WG360228-01	Calibration Point		1		03/29/11 08:53
3	EL.032911.090036	WG360228-02	Calibration Point		1		03/29/11 09:00
4	EL.032911.090721	WG360228-03	Calibration Point		1		03/29/11 09:07
5	EL.032911.091407	WG360228-04	Calibration Point		1		03/29/11 09:14
6	EL.032911.092053	WG360228-05	Initial Calibration Verification		1		03/29/11 09:20
7	EL.032911.092737	WG360228-06	Initial Calib Blank		1		03/29/11 09:27
8	EL.032911.093424	WG360228-07	Low Level Initial Calibration V		1		03/29/11 09:34
9	EL.032911.094113	WG360228-08	Interference Check		1		03/29/11 09:41
10	EL.032911.094801	WG360228-09	Interference Check		1		03/29/11 09:48
11	EL.032911.095449	WG360228-10	CCV		1		03/29/11 09:54
12	EL.032911.100135	WG360228-11	CCB		1		03/29/11 10:01
13	EL.032911.100820	L11030533-01	C9-110314		5		03/29/11 10:08
14	EL.032911.101547	WG359447-02	Method/Prep Blank	.5/200	1		03/29/11 10:15
15	EL.032911.102232	WG359447-03	Laboratory Control S	.5/200	1		03/29/11 10:22
16	EL.032911.102917	L11030612-09	S-10-0.5-NS	.52/200	5		03/29/11 10:29
17	EL.032911.103602	L11030612-12	S-10-2.5-NS	.505/200	5		03/29/11 10:36
18	EL.032911.104248	L11030612-13	S-11-0.5-NS	.513/200	5		03/29/11 10:42
19	EL.032911.104933	L11030612-14	S-11-2.5-NS	.502/200	5		03/29/11 10:49
20	EL.032911.105620	L11030612-17	S-4-0.5-FD	.516/200	5		03/29/11 10:56
21	EL.032911.110306	L11030612-18	S-4-0.5-NS	.539/200	5		03/29/11 11:03
22	EL.032911.110954	WG360149-01	Post Digestion Spike		5	L11030612-18	03/29/11 11:09
23	EL.032911.111641	WG360228-12	CCV		1		03/29/11 11:16
24	EL.032911.112327	WG360228-13	CCB		1		03/29/11 11:23
25	EL.032911.113013	WG360149-02	Serial Dilution		25	L11030612-18	03/29/11 11:30
26	EL.032911.113701	L11030612-19	S-4-2.5-NS	.522/200	5		03/29/11 11:37
27	EL.032911.114347	L11030612-20	S-5-0.5-NS	.506/200	5		03/29/11 11:43
28	EL.032911.115032	WG359447-01	Reference Sample		5	L11030612-21	03/29/11 11:50
29	EL.032911.115717	WG359447-04	Matrix Spike	.524/200	5	L11030612-21	03/29/11 11:57
30	EL.032911.120403	WG359447-05	Matrix Spike Duplica	.524/200	5	L11030612-21	03/29/11 12:04
31	EL.032911.121049	L11030612-24	S-6-0.5-NS	.508/200	5		03/29/11 12:10
32	EL.032911.121736	L11030612-25	S-6-2.5-NS	.5/200	5		03/29/11 12:17
33	EL.032911.122422	L11030612-26	S-7-0.5-NS	.512/200	5		03/29/11 12:24
34	EL.032911.123109	WG360228-14	CCV		1		03/29/11 12:31

Page: 1 Approved: March 30, 2011

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 032911A.REP
Analyst1: EDL Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 7
Maintenance Log ID: 36869

Calibration Std: STD44462 ICV Std: STD44275 Post Spike: STD42704
ICSA: STD44532 ICSAB: STD44533 Int. Std: STD44465
CCV: STD44343 LLCCV: STD44536

Workgroups: 360149, 360220, 360123, 359174, 359899

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	EL.032911.123755	WG360228-15	CCB		1		03/29/11 12:37
36	EL.032911.124510	WG359922-02	Method/Prep Blank	.5/200	1		03/29/11 12:45
37	EL.032911.125156	WG359922-03	Laboratory Control S	.5/200	1		03/29/11 12:51
38	EL.032911.125843	L11030612-27	S-7-2.5-FD	.515/200	5		03/29/11 12:58
39	EL.032911.130530	L11030612-28	S-7-2.5-NS	.521/200	5		03/29/11 13:05
40	EL.032911.131249	WG360149-01	Post Digestion Spike		5	L11030612-18	03/29/11 13:12
41	EL.032911.131938	L11030612-29	S-8-0.5-NS	.51/200	5		03/29/11 13:19
42	EL.032911.132625	L11030612-30	S-8-2.5-NS	.526/200	5		03/29/11 13:26
43	EL.032911.133313	L11030612-31	S-9-0.5-NS	.501/200	5		03/29/11 13:33
44	EL.032911.134002	L11030612-32	S-9-2.5-NS		5		03/29/11 13:40
45	EL.032911.134650	WG360220-01	Post Digestion Spike		5	L11030612-32	03/29/11 13:46
46	EL.032911.135338	WG360228-16	CCV		1		03/29/11 13:53
47	EL.032911.140024	WG360228-17	CCB		1		03/29/11 14:00
48	EL.032911.140711	WG360220-02	Serial Dilution		25	L11030612-32	03/29/11 14:07
49	EL.032911.141400	WG359922-01	Reference Sample		5	L11030790-18	03/29/11 14:14
50	EL.032911.142050	L11030533-01	C9-110314		1		03/29/11 14:20
51	EL.032911.142803	WG359922-04	Matrix Spike	.502/200	5	L11030790-18	03/29/11 14:28
52	EL.032911.143451	WG359922-05	Matrix Spike Duplica	.502/200	5	L11030790-18	03/29/11 14:34
53	EL.032911.144241	WG360228-18	CCV		1		03/29/11 14:42
54	EL.032911.144927	WG360228-19	CCB		1		03/29/11 14:49
55	EL.032911.145614	L11030925-05	SWMU-57-32611-FC-15'-NU	.506/200	5		03/29/11 14:56
56	EL.032911.150305	WG360123-01	Post Digestion Spike		5	L11030925-05	03/29/11 15:03
57	EL.032911.150956	WG360123-02	Serial Dilution		25	L11030925-05	03/29/11 15:09
58	EL.032911.151644	L11030612-32	S-9-2.5-NS		10		03/29/11 15:16
59	EL.032911.152330	WG360220-01	Post Digestion Spike		10	L11030612-32	03/29/11 15:23
60	EL.032911.153113	L11030612-32	S-9-2.5-NS	.53/200	10		03/29/11 15:31
61	EL.032911.153803	WG360220-01	Post Digestion Spike		10	L11030612-32	03/29/11 15:38
62	EL.032911.154451	WG360228-20	CCV		1		03/29/11 15:44
63	EL.032911.155136	WG360228-21	CCB		1		03/29/11 15:51
64	EL.032911.162744	WG359134-02	Method/Prep Blank	40/100	1		03/29/11 16:27
65	EL.032911.163431	WG359134-03	Laboratory Control S	40/100	1		03/29/11 16:34
66	EL.032911.164118	WG359134-06	Filter Blank		1		03/29/11 16:41
67	EL.032911.164806	L11030436-02	HPH-WW-031011	40/100	4		03/29/11 16:48
68	EL.032911.165454	WG359134-01	Reference Sample		10	L11030464-02	03/29/11 16:54

Page: 2 Approved: March 30, 2011

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 032911A.REP
Analyst1: EDL Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 7
Maintenance Log ID: 36869

Calibration Std: STD44462 ICV Std: STD44275 Post Spike: STD42704
ICSA: STD44532 ICSAB: STD44533 Int. Std: STD44465
CCV: STD44343 LLCCV: STD44536

Workgroups: 360149, 360220, 360123, 359174, 359899

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	EL.032911.170143	WG359134-04	Matrix Spike	40/100	10	L11030464-02	03/29/11 17:01
70	EL.032911.170833	WG359134-05	Matrix Spike Duplica	40/100	10	L11030464-02	03/29/11 17:08
71	EL.032911.171522	L11030475-01	01SYS-EFF-031411	40/100	5		03/29/11 17:15
72	EL.032911.172210	WG359174-03	Post Digestion Spike		5	L11030475-01	03/29/11 17:22
73	EL.032911.172859	WG359174-04	Serial Dilution		25		03/29/11 17:28
74	EL.032911.173547	WG360228-22	CCV		1		03/29/11 17:35
75	EL.032911.174233	WG360228-23	CCB		1		03/29/11 17:42
76	EL.032911.174920	WG359793-04	Method/Prep Blank	40/100	1		03/29/11 17:49
77	EL.032911.175609	WG360228-24	Interference Check		1		03/29/11 17:56
78	EL.032911.180257	WG360228-25	Interference Check		1		03/29/11 18:02
79	EL.032911.180945	WG360228-26	CCV		1		03/29/11 18:09
80	EL.032911.181630	WG360228-27	CCB		1		03/29/11 18:16
81	EL.032911.182317	WG360228-28	Low Level Continuing Calibra		1		03/29/11 18:23
82	EL.032911.183008	WG359793-05	Laboratory Control S	40/100	1		03/29/11 18:30
83	EL.032911.183657	L11030790-17	RINE PAD\#1-B	40/100	1		03/29/11 18:36
84	EL.032911.184344	WG359899-05	Post Digestion Spike		1	L11030790-17	03/29/11 18:43
85	EL.032911.185031	WG359899-06	Serial Dilution		5	L11030790-17	03/29/11 18:50
86	EL.032911.185719	L11030744-02	OUTFALL 009		1	WG359793-02	03/29/11 18:57
87	EL.032911.190408	WG359793-08	Matrix Spike	40/100	1	L11030744-02	03/29/11 19:04
88	EL.032911.191055	WG360228-29	CCV		1		03/29/11 19:10
89	EL.032911.191741	WG360228-30	CCB		1		03/29/11 19:17
90	EL.032911.192428	WG360228-31	Low Level Continuing Calibra		1		03/29/11 19:24
91	EL.032911.193118	L11030762-01	RINE PAD\#5	.517/200	5		03/29/11 19:31
92	EL.032911.193806	L11030762-03	SOIL DUP	.5/200	5		03/29/11 19:38
93	EL.032911.194456	L11030790-03	RINE PAD\#2	.543/200	5		03/29/11 19:44
94	EL.032911.195145	L11030790-05	RINE PAD\#3	.504/200	5		03/29/11 19:51
95	EL.032911.195835	L11030790-07	RINE PAD\#4	.519/200	5		03/29/11 19:58
96	EL.032911.200526	L11030790-09	RINE PAD\#6	.537/200	5		03/29/11 20:05
97	EL.032911.201216	L11030790-11	RINE PAD NB-1	.532/200	5		03/29/11 20:12
98	EL.032911.201906	L11030790-13	RINE PAD NB-2	.514/200	5		03/29/11 20:19
99	EL.032911.202553	L11030790-15	RINE PAD NB-3	.524/200	5		03/29/11 20:25
100	EL.032911.203240	WG360228-32	CCV		1		03/29/11 20:32
101	EL.032911.203926	WG360228-33	CCB		1		03/29/11 20:39
102	EL.032911.204614	WG360228-34	Low Level Continuing Calibra		1		03/29/11 20:46

Page: 3 Approved: March 30, 2011

Sheri L. Babgard

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 032911A.REP
Analyst1: EDL Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 7
Maintenance Log ID: 36869

Calibration Std: STD44462 ICV Std: STD44275 Post Spike: STD42704
ICSA: STD44532 ICSAB: STD44533 Int. Std: STD44465
CCV: STD44343 LLCCV: STD44536

Workgroups: 360149, 360220, 360123, 359174, 359899

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time

Comments

Seq.	Rerun	Dil.	Reason	Analytes
44			Data not used.	
45			Data not used.	
48			Data not used.	
58			Data not used.	
59			Data not used.	

  Approved: March 30, 2011

Esther L. Babgard

Microbac Laboratories Inc.

Data Checklist

Date: 28-MAR-2011
Analyst: EDL
Analyst: NA
Method: 6020
Instrument: ELAN-ICP
Curve Workgroup: 360145
Runlog ID: 39701
Analytical Workgroups: 359254, 359640, 359899, 360123

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	530, 578, 700, 925, 926
Client Forms	X
Level X	
Level 3	
Level 4	530, 578, 925, 926
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	EDL
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
28-MAR-2011
Erin D. Long

Secondary Reviewer:
29-MAR-2011
Maren Beery

CHECKLIST1 - Modified 03/05/2008
Generated: MAR-29-2011 14:25:30

Microbac Laboratories Inc.

Data Checklist

Date: 29-MAR-2011
Analyst: EDL
Analyst: NA
Method: 6020
Instrument: ELAN-ICP
Curve Workgroup: 360228
Runlog ID: 39717
Analytical Workgroups: 360149, 360220, 360123, 359174, 359899

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	612, 925, 926, 762, 790, 436, 464, 475
Client Forms	X
Level X	
Level 3	612
Level 4	925, 926, 762, 790, 790, 436, 464, 475
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	EDL
Secondary Reviewer	SLP
Comments	

Primary Reviewer:
29-MAR-2011

Secondary Reviewer:
30-MAR-2011

CHECKLIST1 - Modified 03/05/2008
Generated: MAR-30-2011 10:32:05

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6020 AAB#: WG360123

Login Number: L11030926

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SWMU-57-32511-SS-FC-2'-N	01	03/25/11					03/28/11	3.2	180		03/28/11	3.4	180	
SWMU-57-32511-SS-DUP	02	03/25/11					03/28/11	3.2	180		03/28/11	3.4	180	
SWMU-57-32511-SS-MS	03	03/25/11					03/28/11	3.2	180		03/28/11	3.4	180	
SWMU-57-32511-SS-MSD	04	03/25/11					03/28/11	3.2	180		03/28/11	3.4	180	
SWMU-57-32511-SS-FC-B3-2	05	03/25/11					03/28/11	3.1	180		03/28/11	3.3	180	
SWMU-57-32611-SS-2.5' SW	06	03/26/11					03/28/11	2.2	180		03/28/11	2.4	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1955907
Report generated 03/29/2011 15:26

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11030926	Work Group:	WG360123
Blank File ID:	EL.032811.153947	Blank Sample ID:	WG360101-02
Prep Date:	03/28/11 12:15	Instrument ID:	ELAN-ICP
Analyzed Date:	03/28/11 15:39	Method:	6020
Analyst:	EDL		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG360101-03	EL.032811.154635	03/28/11 15:46	01
SWMU-57-32511-SS-FC-2'-NUM1	L11030926-01	EL.032811.170431	03/28/11 17:04	DL01
SWMU-57-32511-SS-DUP	L11030926-02	EL.032811.171119	03/28/11 17:11	DL01
SWMU-57-32511-SS-MS	L11030926-03	EL.032811.171807	03/28/11 17:18	DL01
SWMU-57-32511-SS-MSD	L11030926-04	EL.032811.172455	03/28/11 17:24	DL01
SWMU-57-32511-SS-FC-B3-2.5'	L11030926-05	EL.032811.173144	03/28/11 17:31	DL01
SWMU-57-32611-SS-2.5' SW-4	L11030926-06	EL.032811.173831	03/28/11 17:38	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 1955908
Report generated 03/29/2011 15:26

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11030926 Prep Date: 03/28/11 12:15 Sample ID: WG360101-02
Instrument ID: ELAN-ICP Run Date: 03/28/11 15:39 Prep Method: 3051A
File ID: EL.032811.153947 Analyst: EDL Method: 6020
Workgroup (AAB#): WG360123 Matrix: Soil Units: mg/kg
Contract #: Cal ID: ELAN-I-28-MAR-11

Analytes	LOD	LOQ	Concentration	Dilution	Qualifier
Cadmium, Total	0.0500	0.100	0.0500	1	U
Chromium, Total	0.200	0.400	0.200	1	U

LOD Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 1955909
29-MAR-2011 08:40

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360101-03
Instrument ID: ELAN-ICP Run Time: 15:46 Prep Method: 3051A
File ID: EL.032811.154635 Analyst: EDL Method: 6020
Workgroup (AAB#): WG360123 Matrix: Soil Units: mg/kg
QC Key: DOD4 Lot#: STD41894 Cal ID: ELAN-I-28-MAR-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Cadmium, Total	10.0	9.23	92.3	80 - 120	
Chromium, Total	10.0	10.2	102	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1955910
Report generated: 03/29/2011 08:40

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum:L11030926 Cal ID:ELAN-ICP- 28-MAR-11 Worknum:WG360123
Instrument ID:ELAN-ICP Contract #: Prep Method:3051A
Parent ID:L11030926-01 File ID:EL.032811.170431 Dil:5 Method:6020
Sample ID:L11030926-03 MS File ID:EL.032811.171807 Dil:5 Matrix:Soil
Sample ID:L11030926-04 MSD File ID:EL.032811.172455 Dil:5 Units:mg/kg
Percent Solid:75.2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Cadmium, Total	0.563	13.1	15.8	116	13.1	15.0	110	5.16	80 - 120	20	
Chromium, Total	15.6	13.1	37.1	164	13.1	35.6	152	4.25	80 - 120	20	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008
PDF File ID: 1955911
Report generated 04/01/2011 15:48

Microbac Laboratories Inc.
Serial Dilution Report

Login: L11030926 **Worknum:** WG360123
Instrument: ELAN-ICP **Method:** 6020
Serial Dil: WG360123-02 **File ID:** EL.032911.150956 **Dil:** 25 **Units:** ug/L
Sample: L11030925-05 **File ID:** EL.032911.145614 **Dil:** 5

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Cadmium	ND	U	ND	U		
Chromium	9.05	X	ND	U		

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 100 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1955905
03/29/2011 15:26

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L11030926 **Worknum:** WG360123
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG360123-01 **File ID:** EL.032911.150305 **Dil:** 5 **Units:** ug/L
Sample ID: L11030925-05 **File ID:** EL.032911.145614 **Dil:** 5 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
CADMIUM	53.2		0	U	50	106.4	75 - 125	
CHROMIUM	52.8		1.81		50	102.0	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1955906
Report generated: 03/29/2011 15:26

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11030926**	Workgroup (AAB#):	**WG360123**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG360145**	Initial Calibration Date:	**28-MAR-2011 11:38**

	WG360145-01		WG360145-02		WG360145-03		WG360145-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
CADMIUM	0	1.31	.4	437	50	57900	100	117000	.999941	
CHROMIUM	0	7820	.4	10100	50	317000	100	620000	.99999	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 1955915
Report generated: 29-MAR-2011 15:26

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L11030926**	Workgroup (AAB#):	**WG360123**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG360228**	Initial Calibration Date:	**29-MAR-2011 09:14**

	WG360228-01		WG360228-02		WG360228-03		WG360228-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
CADMIUM	0	-5.36	.4	525	50	65200	100	127000	.999984	
CHROMIUM	0	9950	.4	12600	50	362000	100	690000	.999929	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 1955915
Report generated: 29-MAR-2011 15:26

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360145-06
Instrument ID: ELAN-ICP Run Time: 11:51 Method: 6020
File ID: EL.032811.115138 Analyst: EDL Units: ug/L
Workgroup (AAB#): WG360123 Cal ID: ELAN-ICP - 28-MAR-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
CADMIUM	.125	.25	.125	U
CHROMIUM	.5	1	.5	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1955917
Report generated 03/29/2011 15:26

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360228-06
Instrument ID: ELAN-ICP Run Time: 09:27 Method: 6020
File ID: EL.032911.092737 Analyst: EDL Units: ug/L
Workgroup (AAB#): WG360123 Cal ID: ELAN-ICP - 29-MAR-11
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
CADMIUM	.125	.25	.125	U
CHROMIUM	.5	1	.5	U

U = Result is less than 2 x MDL
F = Result is between MDL and 2 x MDL
* = Result is above 2 x MDL

ICB - Modified 07/14/2009
PDF File ID: 1955917
Report generated 03/29/2011 15:26

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11030926	Run Date:	03/28/2011	Sample ID:	WG360145-11
Instrument ID:	ELAN-ICP	Run Time:	12:26	Method:	6020
File ID:	EL.032811.122606	Analyst:	EDL	Units:	ug/L
Workgroup (AAB#):	WG360123	Cal ID:	ELAN-I - 28-MAR-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1955920
Report generated 03/29/2011 15:57

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360145-17

Instrument ID: ELAN-ICP Run Time: 15:26 Method: 6020

File ID: EL.032811.152611 Analyst: EDL Units: ug/L

Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 28-MAR-11

Matrix: SOIL QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1955920
Report generated 03/29/2011 15:57

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11030926	Run Date:	03/28/2011	Sample ID:	WG360145-20
Instrument ID:	ELAN-ICP	Run Time:	16:57	Method:	6020
File ID:	EL.032811.165746	Analyst:	EDL	Units:	ug/L
Workgroup (AAB#):	WG360123	Cal ID:	ELAN-I - 28-MAR-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1955920
Report generated 03/29/2011 15:57

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11030926	Run Date:	03/28/2011	Sample ID:	WG360145-22
Instrument ID:	ELAN-ICP	Run Time:	17:52	Method:	6020
File ID:	EL.032811.175233	Analyst:	EDL	Units:	ug/L
Workgroup (AAB#):	WG360123	Cal ID:	ELAN-I - 28-MAR-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1955920
Report generated 03/29/2011 15:57

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11030926	Run Date:	03/29/2011	Sample ID:	WG360228-11
Instrument ID:	ELAN-ICP	Run Time:	10:01	Method:	6020
File ID:	EL.032911.100135	Analyst:	EDL	Units:	ug/L
Workgroup (AAB#):	WG360123	Cal ID:	ELAN-I - 29-MAR-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1955920
Report generated 03/29/2011 15:57

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11030926	Run Date:	03/29/2011	Sample ID:	WG360228-19
Instrument ID:	ELAN-ICP	Run Time:	14:49	Method:	6020
File ID:	EL.032911.144927	Analyst:	EDL	Units:	ug/L
Workgroup (AAB#):	WG360123	Cal ID:	ELAN-I - 29-MAR-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1955920
Report generated 03/29/2011 15:57

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11030926	Run Date:	03/29/2011	Sample ID:	WG360228-21
Instrument ID:	ELAN-ICP	Run Time:	15:51	Method:	6020
File ID:	EL.032911.155136	Analyst:	EDL	Units:	ug/L
Workgroup (AAB#):	WG360123	Cal ID:	ELAN-I - 29-MAR-11		
Matrix:	SOIL	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.125	0.250	0.125	U
Chromium	0.500	1.00	0.500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1955920
Report generated 03/29/2011 15:57

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360145-05
Instrument ID: ELAN-ICP Run Time: 11:44 Method: 6020
File ID: EL.032811.114454 Analyst: EDL Units: ug/L
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 28-MAR-11
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Cadmium		50	49.9	99.9	90 - 110	
Chromium		50	50.5	101	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1955916
Report generated 03/29/2011 15:26

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360228-05
Instrument ID: ELAN-ICP Run Time: 09:20 Method: 6020
File ID: EL.032911.092053 Analyst: EDL Units: ug/L
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 29-MAR-11
QC Key: DOD4

Analyte		Expected	Found	%REC	LIMITS	Q
Cadmium		50	49.9	99.7	90 - 110	
Chromium		50	51.1	102	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1955916
Report generated 03/29/2011 15:26

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360145-10

Instrument ID: ELAN-ICP Run Time: 12:18 Method: 6020

File ID: EL.032811.121850 Analyst: EDL QC Key: DOD4

Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 28-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	49.9	ug/L	99.9	90 - 110		
Chromium		50.0	49.9	ug/L	99.8	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1955919

Report generated 03/29/2011 15:57

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360145-16

Instrument ID: ELAN-ICP Run Time: 15:18 Method: 6020

File ID: EL.032811.151855 Analyst: EDL QC Key: DOD4

Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 28-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	49.7	ug/L	99.5	90 - 110		
Chromium		50.0	49.2	ug/L	98.4	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1955919

Report generated 03/29/2011 15:57

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360145-19
Instrument ID: ELAN-ICP Run Time: 16:50 Method: 6020
File ID: EL.032811.165030 Analyst: EDL QC Key: DOD4
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 28-MAR-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	52.7	ug/L	105	90 - 110		
Chromium		50.0	54.4	ug/L	109	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1955919
Report generated 03/29/2011 15:57

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360145-21

Instrument ID: ELAN-ICP Run Time: 17:45 Method: 6020

File ID: EL.032811.174518 Analyst: EDL QC Key: DOD4

Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 28-MAR-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	50.8	ug/L	102	90 - 110		
Chromium		50.0	52.8	ug/L	106	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1955919

Report generated 03/29/2011 15:57

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360228-10
Instrument ID: ELAN-ICP Run Time: 09:54 Method: 6020
File ID: EL.032911.095449 Analyst: EDL QC Key: DOD4
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 29-MAR-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	49.7	ug/L	99.3	90 - 110		
Chromium		50.0	49.3	ug/L	98.6	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1955919
Report generated 03/29/2011 15:57

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360228-18
Instrument ID: ELAN-ICP Run Time: 14:42 Method: 6020
File ID: EL.032911.144241 Analyst: EDL QC Key: DOD4
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 29-MAR-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	49.4	ug/L	98.8	90 - 110		
Chromium		50.0	49.3	ug/L	98.5	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1955919
Report generated 03/29/2011 15:57

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360228-20
Instrument ID: ELAN-ICP Run Time: 15:44 Method: 6020
File ID: EL.032911.154451 Analyst: EDL QC Key: DOD4
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 29-MAR-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		50.0	49.7	ug/L	99.4	90 - 110		
Chromium		50.0	50.1	ug/L	100	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1955919
Report generated 03/29/2011 15:57

Microbac Laboratories Inc.
LOW LEVEL CALIBRATION VERIFICATION

Login Number: L11030926 Run Date: 03/28/2011 Sample ID: WG360145-07
Instrument ID: ELAN-ICP Run Time: 11:58 Method: 6020
File ID: EL.032811.115825 Analyst: EDL QC Key: DOD4
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 28-MAR-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		0.200	0.217	ug/L	109	80 - 120		
Chromium		0.800	0.794	ug/L	99.3	80 - 120		

* Exceeds LIMITS Criteria

LLCCV - Modified 1/7/2010
PDF File ID: 1955921
Report generated 03/29/2011 15:26

Microbac Laboratories Inc.
LOW LEVEL CALIBRATION VERIFICATION

Login Number: L11030926 Run Date: 03/29/2011 Sample ID: WG360228-07
Instrument ID: ELAN-ICP Run Time: 09:34 Method: 6020
File ID: EL.032911.093424 Analyst: EDL QC Key: DOD4
Workgroup (AAB#): WG360123 Cal ID: ELAN-I - 29-MAR-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		0.200	0.202	ug/L	101	80 - 120		
Chromium		0.800	0.774	ug/L	96.8	80 - 120		

* Exceeds LIMITS Criteria

LLCCV - Modified 1/7/2010
PDF File ID: 1955921
Report generated 03/29/2011 15:26

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11030926 **Workgroup (AAB#):** WG360123
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG360145-08 **File ID:** EL.032811.120514 **Units:** ug/L
Sol. AB : WG360145-09 **File ID:** EL.032811.121202 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Cadmium	NS	0.0322	NS	100	99.6	99.6	
Chromium	NS	-0.175	NS	100	96.6	96.6	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1955918
Report generated 03/29/2011 15:26

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11030926 **Workgroup (AAB#):** WG360123
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG360228-08 **File ID:** EL.032911.094113 **Units:** ug/L
Sol. AB : WG360228-09 **File ID:** EL.032911.094801 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Cadmium	NS	0.0234	NS	100	100	100	
Chromium	NS	-0.130	NS	100	96.2	96.2	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 1955918
Report generated 03/29/2011 15:26

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L11030926 **Analytical Method:** 6020
Analytical Workgroup: WG360123 **Matrix:** 7
Instrument: ELAN-ICP **Analyst:** EDL
ICAL Date: 28-MAR-2011 11:17

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L11030926-01	SAMP	28-MAR-2011 17:04	104.375	114.597	112.575	109.616
L11030926-02	SAMP	28-MAR-2011 17:11	104.636	115.428	111.352	108.753
L11030926-03	SAMP	28-MAR-2011 17:18	105.114	117.503	110.918	109.614
L11030926-04	SAMP	28-MAR-2011 17:24	105.812	117.775	113.658	109.89
L11030926-05	SAMP	28-MAR-2011 17:31	105.106	116.514	111.235	109.98
L11030926-06	SAMP	28-MAR-2011 17:38	104.809	116.338	111.438	108.569
WG360101-02	BLANK	28-MAR-2011 15:39	102.638	104.732	107.041	108.071
WG360101-03	LCS	28-MAR-2011 15:46	112.565	113.734	116.574	116.791
WG360123-01	PSPK	28-MAR-2011 16:36	103.197	114.412	110.337	110.872
WG360123-02	SERIAL	28-MAR-2011 16:43	102.621	114.08	110.961	109.387
WG360145-05	ICV	28-MAR-2011 11:44	93.909	96.876	99.448	101.419
WG360145-06	ICB	28-MAR-2011 11:51	97.39	100.01	102.519	103.661
WG360145-07	LLICV	28-MAR-2011 11:58	97.539	98.873	102.022	102.815
WG360145-08	ICS	28-MAR-2011 12:05	94.371	99.076	99.197	100.074
WG360145-09	ICS	28-MAR-2011 12:12	94.609	95.507	94.103	96.047
WG360145-10	CCV	28-MAR-2011 12:18	96.591	100.468	101.419	102.395
WG360145-11	CCB	28-MAR-2011 12:26	95.215	97.768	99.118	100.778
WG360145-16	CCV	28-MAR-2011 15:18	105.213	110.945	111.318	111.187
WG360145-17	CCB	28-MAR-2011 15:26	107.396	110.436	112.055	113.157
WG360145-19	CCV	28-MAR-2011 16:50	102.433	113.921	114.589	112.233
WG360145-20	CCB	28-MAR-2011 16:57	104.106	116.997	114.452	114.298
WG360145-21	CCV	28-MAR-2011 17:45	104.721	115.173	114.412	112.634
WG360145-22	CCB	28-MAR-2011 17:52	105.909	117.854	115.806	114.558

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1955914
Report generated: 03/29/2011 15:57

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L11030926 **Analytical Method:** 6020
Analytical Workgroup: WG360123 **Matrix:** 7
Instrument: ELAN-ICP **Analyst:** EDL
ICAL Date: 29-MAR-2011 08:53

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L11030925-05	SAMP	29-MAR-2011 14:56	98.544	95.743	91.865	97.361
WG360123-01	PSPK	29-MAR-2011 15:03	97.685	92.286	90.955	96.476
WG360123-02	SERIAL	29-MAR-2011 15:09	99.75	92.218	91.389	94.854
WG360228-05	ICV	29-MAR-2011 09:20	99.905	98.539	100.628	101.694
WG360228-06	ICB	29-MAR-2011 09:27	104.029	102.926	104.14	104.978
WG360228-07	LLICV	29-MAR-2011 09:34	101.824	101.382	104.172	102.327
WG360228-08	ICS	29-MAR-2011 09:41	99.833	98.703	98.211	99.285
WG360228-09	ICS	29-MAR-2011 09:48	101.632	98.763	97.058	97.861
WG360228-10	CCV	29-MAR-2011 09:54	100.428	99.111	99.866	100.605
WG360228-11	CCB	29-MAR-2011 10:01	103.033	100.09	102.446	102.549
WG360228-18	CCV	29-MAR-2011 14:42	102.49	93.25	92.388	95.66
WG360228-19	CCB	29-MAR-2011 14:49	100.596	94.396	94.164	96.42
WG360228-20	CCV	29-MAR-2011 15:44	97.598	93.349	92.78	94.703
WG360228-21	CCB	29-MAR-2011 15:51	99.612	93.762	94.169	95.864

Acceptance criteria: 30% - 120% Underlined recoveries are out of range
Acceptance criteria for CCVs and CCBs for method SW846-6020: 80% - 120%

INT_STD_ICPMS - Modified 07/28/2010
PDF File ID: 1955914
Report generated: 03/29/2011 15:57

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L11030926 **Date:** 12/07/2010
Insturment ID: ELAN-ICP **Method:** 6020

Analyte	Integration Time (Sec.)	Concentration (ug/L)
Antimony	1.00	100.0
Arsenic	1.00	100.0
Barium	1.00	100.0
Cadmium	1.00	100.0
Chromium	1.00	100.0
Cobalt	1.00	100.0
Copper	1.00	100.0
Lead	1.00	100.0
Manganese	1.00	100.0
Nickel	1.00	100.0
Selenium	1.00	100.0
Silver	1.00	100.0
Thallium	1.00	100.0
Uranium	1.00	100.0
Vanadium	1.00	100.0
Zinc	1.00	100.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1955913
Report generated: 03/29/2011 15:26

2.1.2.3 Raw Data

Instrument Tuning Report

File Name: 06302008.tun
File Path: C:\Elandata\Tuning\06302008.tun

Sample Information

Sample Date/Time: Monday, March 28, 2011 08:10:07

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	619	2060	0.765	
Li	7.016	7.029	1586	2060	0.717	
Co	58.933	58.928	14278	1990	0.671	
Ce	139.905	139.829	33975	2025	0.690	
Tl	204.975	204.976	49689	2255	0.700	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.507
3.000	0.648
4.000	24.732
5.000	19.265
6.000	1.015
7.000	1.701
8.000	15.704
9.000	2.225
58.000	0.443
59.000	0.960
60.000	12.001
139.000	1.896
140.000	0.943
141.000	14.557
204.000	0.960
205.000	1.042
206.000	1.089

Report Date/Time: Monday, March 28, 2011 08:11:19
Page 1

Approved: March 29, 2011

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Monday, March 28, 2011 08:16:04
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\elandata\Dataset\032211\Sample.509
Tuning File: C:\Elandata\Tuning\06302008.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	48496.8	48496.814	162.704	0.3
	Rh	102.9	220611.1	220611.138	783.593	0.4
	In	114.9	488532.0	488531.958	2935.610	0.6
	Pb	208.0	187413.7	187413.694	1626.796	0.9
	U	238.1	22.4	22.400	2.510	11.2
⌈>	Ba	137.9	266874.0	266873.999	2109.812	0.8
⌊	Ba++	69.0	3998.6	0.015	0.000	1.9
⌈>	Ce	139.9	269808.9	269808.920	830.600	0.3
⌊	CeO	155.9	5496.3	0.020	0.000	2.0
	Bkgd	220.0	17.0	17.000	3.518	20.7
	Ar2	79.9	4693270.2	4693270.166	12098.179	0.3

Current Optimization File Data

Current Value	Description
0.97	Nebulizer Gas Flow
6.40	Lens Voltage
1500.00	ICP RF Power
-1862.50	Analog Stage Voltage
1000.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	5.3	3999.5
Co	59	33	6.0	120809.0
Rh	103	33	6.8	174421.7
Pb	208	33	7.8	173459.1

Sample ID: Sample
Report Date/Time: Monday, March 28, 2011 08:18:12
Page 1

Approved: March 29, 2011
Erin D. Long

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, March 28, 2011 11:11:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18249.973					ug/L
|	Be	9	12.000					ug/L
|	Al	27	5034.602					ug/L
|>	Sc	45	144317.686					ug/L
⌈	Ti	49	76.675					ug/L
|	V	51	2441.376					ug/L
|	Cr	52	7971.923					ug/L
|	Cr	53	336.706					ug/L
|	Mn	55	391.012					ug/L
|	Co	59	67.001					ug/L
|	Ni	60	50.334					ug/L
|	Cu	65	146.336					ug/L
|	Zn	66	421.013					ug/L
|>	Ge	72	307883.118					ug/L
|	As	75	-128.972					ug/L
|	Se	77	49.333					ug/L
|	Se	82	8.496					ug/L
⌊	Rb	85	23.667					mg/L
	Y	89	211657.564					ug/L
	Rh	103	12.667					ug/L
⌈	Mo	98	32.877					ug/L
|	Ag	107	27.667					ug/L
|	Cd	114	-1.937					ug/L
|>	In	115	300680.378					ug/L
|	Sn	118	130.001					ug/L
⌊	Sb	123	44.362					ug/L
⌈	Ba	135	28.334					ug/L
|	Ce	140	40.004					ug/L
⌊>	Tb	159	387242.951					ug/L
⌈	Ho	165	20.002					ug/L
|	Tl	203	24.667					ug/L
|	Tl	205	33.337					ug/L
|	Pb	206	288.007					ug/L
|	Pb	207	278.007					ug/L
|	Pb	208	1207.707					ug/L
|	U	238	25.334					ug/L
⌊>	Bi	209	344874.610					ug/L

Sample ID: Blank
Report Date/Time: Monday, March 28, 2011 11:13:19
Page 1

Approved: March 29, 2011

⌈	Na	23	13453.723	mg/L
|	Mg	24	416.717	mg/L
|	K	39	342583.183	mg/L
|	Ca	43	326.705	mg/L
|	Fe	54	32478.349	mg/L
|	Fe	57	5578.783	mg/L
⌊>	Sc-1	45	144317.686	mg/L
	Cl	35	13861.604	mg/L
	Kr	83	58.001	mg/L
	Br	81	4889.862	mg/L
	P	31	5416.801	mg/L
	S	34	147414.873	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Blank
Report Date/Time: Monday, March 28, 2011 11:13:19
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Monday, March 28, 2011 11:13:19
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, March 28, 2011 11:17:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18049.610	0.00				ug/L
|	Be	9	17.333	0.00				ug/L
|	Al	27	5101.308	0.00				ug/L
⌊>	Sc	45	141460.302	141460.30				ug/L
⌈	Ti	49	63.340	-0.00				ug/L
|	V	51	2441.466	0.00				ug/L
|	Cr	52	7819.134	-0.00				ug/L
|	Cr	53	393.381	0.00				ug/L
|	Mn	55	366.010	-0.00				ug/L
|	Co	59	60.001	-0.00				ug/L
|	Ni	60	42.334	-0.00				ug/L
|	Cu	65	150.669	0.00				ug/L
|	Zn	66	452.681	0.00				ug/L
|>	Ge	72	307109.427	307109.43				ug/L
|	As	75	-118.113	0.00				ug/L
|	Se	77	50.667	0.00				ug/L
|	Se	82	3.415	-0.00				ug/L
⌊	Rb	85	30.000	0.00				mg/L
	Y	89	213775.318	2117.75				ug/L
	Rh	103	18.000	5.33				ug/L
⌈	Mo	98	28.648	-0.00				ug/L
|	Ag	107	28.334	0.00				ug/L
|	Cd	114	1.306	0.00				ug/L
|>	In	115	300101.421	300101.42				ug/L
|	Sn	118	126.001	-0.00				ug/L
⌊	Sb	123	43.613	-0.00				ug/L
⌈	Ba	135	20.334	-0.00				ug/L
|	Ce	140	40.004	0.00				ug/L
⌊>	Tb	159	385137.329	385137.33				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	28.334	0.00				ug/L
|	Tl	205	53.339	0.00				ug/L
|	Pb	206	302.008	0.00				ug/L
|	Pb	207	258.339	-0.00				ug/L
|	Pb	208	1196.040	0.00				ug/L
|	U	238	23.667	-0.00				ug/L
⌊>	Bi	209	337474.076	337474.08				ug/L

Sample ID: Standard 1
Report Date/Time: Monday, March 28, 2011 11:20:03
Page 1

Approved: March 29, 2011

⌈	Na	23	12892.928	-0.00		mg/L
|	Mg	24	313.370	-0.00		mg/L
|	K	39	370730.125	0.25		mg/L
|	Ca	43	320.037	-0.00		mg/L
|	Fe	54	30258.728	-0.01		mg/L
|	Fe	57	5735.554	0.00		mg/L
⌊>	Sc-1	45	141460.302	141460.30		mg/L
	Cl	35	14122.636	261.03		mg/L
	Kr	83	67.334	9.33		mg/L
	Br	81	4951.893	62.03		mg/L
	P	31	5449.485	32.68		mg/L
	S	34	154614.140	7199.27		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 1
Report Date/Time: Monday, March 28, 2011 11:20:03
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Monday, March 28, 2011 11:20:03
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, March 28, 2011 11:24:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16313.356	-0.01				ug/L
|	Be	9	132.668	0.00				ug/L
|	Al	27	6285.325	0.01				ug/L
|>	Sc	45	141730.973	141730.97				ug/L
⌈	Ti	49	383.379	0.00				ug/L
|	V	51	5074.194	0.01				ug/L
|	Cr	52	10051.151	0.01				ug/L
|	Cr	53	606.746	0.00				ug/L
|	Mn	55	4385.339	0.01				ug/L
|	Co	59	2964.802	0.01				ug/L
|	Ni	60	711.366	0.00				ug/L
|	Cu	65	803.040	0.00				ug/L
|	Zn	66	2459.994	0.01				ug/L
|>	Ge	72	298726.902	298726.90				ug/L
|	As	75	153.601	0.00				ug/L
|	Se	77	82.667	0.00				ug/L
|	Se	82	9.304	0.00				ug/L
⌊	Rb	85	43.667	0.00				mg/L
	Y	89	206072.153	-5585.41				ug/L
	Rh	103	12.333	-0.33				ug/L
⌈	Mo	98	2078.785	0.01				ug/L
|	Ag	107	2175.592	0.01				ug/L
|	Cd	114	436.743	0.00				ug/L
|>	In	115	294937.023	294937.02				ug/L
|	Sn	118	2239.851	0.01				ug/L
⌊	Sb	123	1482.069	0.00				ug/L
⌈	Ba	135	627.026	0.00				ug/L
|	Ce	140	40.004	0.00				ug/L
|>	Tb	159	380527.353	380527.35				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	2622.370	0.01				ug/L
|	Tl	205	6436.047	0.02				ug/L
|	Pb	206	2414.983	0.01				ug/L
|	Pb	207	2287.285	0.01				ug/L
|	Pb	208	10070.429	0.03				ug/L
|	U	238	12936.158	0.04				ug/L
|>	Bi	209	330935.886	330935.89				ug/L

Sample ID: Standard 2
Report Date/Time: Monday, March 28, 2011 11:26:48
Page 1

Approved: March 29, 2011

⌈	Na	23	211045.496	1.40		mg/L
|	Mg	24	139852.749	0.98		mg/L
|	K	39	581036.787	1.73		mg/L
|	Ca	43	1160.183	0.01		mg/L
|	Fe	54	48975.917	0.12		mg/L
|	Fe	57	13183.336	0.05		mg/L
⌊>	Sc-1	45	141730.973	141730.97		mg/L
	Cl	35	12971.075	-890.53		mg/L
	Kr	83	80.001	22.00		mg/L
	Br	81	4679.762	-210.10		mg/L
	P	31	5242.051	-174.75		mg/L
	S	34	142905.687	-4509.19		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 2
Report Date/Time: Monday, March 28, 2011 11:26:48
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Monday, March 28, 2011 11:26:48
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, March 28, 2011 11:31:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16897.634	-0.01				ug/L
|	Be	9	12936.364	0.09	50.0000	1.686	3.373	ug/L
|	Al	27	243990.745	1.68	50.0000	1.384	2.768	ug/L
|>	Sc	45	142102.874	142102.87				ug/L
⌈	Ti	49	44339.205	0.15	100.0000	2.592	2.592	ug/L
|	V	51	360601.971	1.18	50.0000	0.758	1.516	ug/L
|	Cr	52	316906.091	1.02	50.0000	0.303	0.605	ug/L
|	Cr	53	37176.022	0.12	50.0000	0.297	0.594	ug/L
|	Mn	55	483829.940	1.59	50.0000	0.140	0.280	ug/L
|	Co	59	369016.524	1.21	50.0000	0.306	0.611	ug/L
|	Ni	60	77176.781	0.25	50.0000	0.166	0.331	ug/L
|	Cu	65	79738.457	0.26	50.0000	0.131	0.262	ug/L
|	Zn	66	52087.829	0.17	50.0000	0.140	0.280	ug/L
|>	Ge	72	304260.113	304260.11				ug/L
|	As	75	48574.751	0.16	50.0000	0.456	0.912	ug/L
|	Se	77	3802.723	0.01	50.0000	1.856	3.712	ug/L
|	Se	82	4643.204	0.02	50.0000	0.325	0.650	ug/L
⌊	Rb	85	1914.536	0.01				mg/L
	Y	89	211368.495	-289.07				ug/L
	Rh	103	31.000	18.33				ug/L
⌈	Mo	98	265512.103	0.88	100.0000	0.704	0.704	ug/L
|	Ag	107	278960.989	0.93	50.0000	0.819	1.637	ug/L
|	Cd	114	57903.381	0.19	50.0000	1.410	2.819	ug/L
|>	In	115	301493.034	301493.03				ug/L
|	Sn	118	204604.340	0.68	50.0000	0.171	0.342	ug/L
⌊	Sb	123	184841.598	0.61	50.0000	0.744	1.487	ug/L
⌈	Ba	135	74251.387	0.19	50.0000	0.250	0.499	ug/L
|	Ce	140	63.340	0.00				ug/L
|>	Tb	159	391659.332	391659.33				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	326755.347	0.98	50.0000	0.498	0.995	ug/L
|	Tl	205	800112.290	2.41	50.0000	0.557	1.115	ug/L
|	Pb	206	262886.618	0.79	50.0000	0.826	1.651	ug/L
|	Pb	207	247545.639	0.74	50.0000	0.541	1.081	ug/L
|	Pb	208	1098904.978	3.30	50.0000	0.655	1.310	ug/L
|	U	238	1621007.289	4.87	50.0000	1.071	2.143	ug/L
|>	Bi	209	332642.435	332642.44				ug/L

Sample ID: Standard 3
Report Date/Time: Monday, March 28, 2011 11:33:34
Page 1

Approved: March 29, 2011

⌈	Na	23	19527998.148	137.37	5.0000	0.093	1.870	mg/L
|	Mg	24	13517221.355	95.14	5.0000	0.071	1.425	mg/L
|	K	39	25248032.505	175.35	5.0000	0.127	2.546	mg/L
|	Ca	43	63591.233	0.45	5.0000	0.097	1.945	mg/L
|	Fe	54	2264597.512	15.72	5.0000	0.184	3.685	mg/L
|	Fe	57	953460.556	6.67	5.0000	0.139	2.786	mg/L
⌊>	Sc-1	45	142102.874	142102.87				mg/L
	Cl	35	12914.334	-947.27				mg/L
	Kr	83	71.334	13.33				mg/L
	Br	81	5035.270	145.41				mg/L
	P	31	5503.523	86.72				mg/L
	S	34	138323.939	-9090.93				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 3
Report Date/Time: Monday, March 28, 2011 11:33:34
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Monday, March 28, 2011 11:33:34
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Monday, March 28, 2011 11:38:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

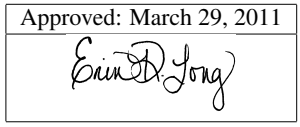
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16697.308	-0.01				ug/L
|	Be	9	25110.154	0.18	98.3495	2.180	2.217	ug/L
|	Al	27	441128.378	3.06	95.1420	2.282	2.399	ug/L
|>	Sc	45	142711.593	142711.59				ug/L
⌈	Ti	49	87984.212	0.29	199.3104	4.286	2.150	ug/L
|	V	51	716362.295	2.35	99.8535	1.348	1.350	ug/L
|	Cr	52	620071.472	2.01	99.5456	1.147	1.152	ug/L
|	Cr	53	73392.330	0.24	99.5982	1.402	1.407	ug/L
|	Mn	55	952231.668	3.13	99.2557	0.988	0.995	ug/L
|	Co	59	728663.427	2.40	99.3979	0.671	0.675	ug/L
|	Ni	60	151328.926	0.50	99.0770	0.432	0.436	ug/L
|	Cu	65	155259.605	0.51	98.7480	0.579	0.587	ug/L
|	Zn	66	99922.408	0.33	98.9476	0.657	0.664	ug/L
|>	Ge	72	304092.436	304092.44				ug/L
|	As	75	95994.490	0.32	99.3122	1.001	1.008	ug/L
|	Se	77	7516.824	0.02	99.7935	0.861	0.863	ug/L
|	Se	82	9235.856	0.03	99.6091	1.452	1.458	ug/L
⌊	Rb	85	3718.729	0.01				mg/L
	Y	89	207086.800	-4570.76				ug/L
	Rh	103	47.334	34.67				ug/L
⌈	Mo	98	524171.167	1.76	200.1922	1.962	0.980	ug/L
|	Ag	107	544692.733	1.83	99.5436	1.085	1.090	ug/L
|	Cd	114	116619.210	0.39	101.0755	1.412	1.397	ug/L
|>	In	115	297022.439	297022.44				ug/L
|	Sn	118	408979.951	1.38	100.7962	0.072	0.071	ug/L
⌊	Sb	123	371286.167	1.25	100.9591	0.516	0.511	ug/L
⌈	Ba	135	149246.493	0.38	99.8886	0.875	0.876	ug/L
|	Ce	140	66.674	0.00				ug/L
|>	Tb	159	394622.198	394622.20				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	630714.534	1.95	99.6864	1.860	1.866	ug/L
|	Tl	205	1548268.694	4.79	99.8153	2.543	2.547	ug/L
|	Pb	206	513160.960	1.59	100.2694	1.633	1.629	ug/L
|	Pb	207	482421.600	1.49	100.1885	0.642	0.641	ug/L
|	Pb	208	2134797.976	6.60	100.0306	0.865	0.865	ug/L
|	U	238	3034107.037	9.39	98.1439	0.838	0.853	ug/L
|>	Bi	209	323080.798	323080.80				ug/L

Sample ID: Standard 4
Report Date/Time: Monday, March 28, 2011 11:40:21
Page 1

Approved: March 29, 2011



⌈	Na	23	38586333.965	270.44	9.9270	0.329	3.316	mg/L
|	Mg	24	26231355.764	183.87	9.8350	0.248	2.522	mg/L
|	K	39	50789592.318	353.53	10.0447	0.159	1.587	mg/L
|	Ca	43	124279.991	0.87	9.8890	0.179	1.814	mg/L
|	Fe	54	4426764.640	30.81	9.8979	0.232	2.344	mg/L
|	Fe	57	1881095.217	13.15	9.9258	0.222	2.232	mg/L
⌊>	Sc-1	45	142711.593	142711.59				mg/L
	Cl	35	13658.655	-202.95				mg/L
	Kr	83	64.334	6.33				mg/L
	Br	81	5071.953	182.09				mg/L
	P	31	5252.047	-164.75				mg/L
	S	34	142064.441	-5350.43				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 4
Report Date/Time: Monday, March 28, 2011 11:40:21

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 4
Report Date/Time: Monday, March 28, 2011 11:40:21
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, March 28, 2011 11:44:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 11
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

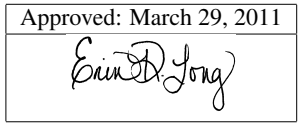
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15011.316	-0.02				ug/L
|	Be	9	12448.412	0.09	49.2447	1.184	2.404	ug/L
|	Al	27	240988.193	1.67	52.1536	2.174	4.168	ug/L
⌊>	Sc	45	141071.442	141071.44				ug/L
⌈	Ti	49	48686.440	0.16	112.4063	2.038	1.813	ug/L
|	V	51	354858.459	1.18	50.2697	0.441	0.878	ug/L
|	Cr	52	312404.308	1.02	50.5176	0.428	0.847	ug/L
|	Cr	53	36456.645	0.12	50.2200	0.482	0.961	ug/L
|	Mn	55	483427.104	1.62	51.3452	0.300	0.584	ug/L
|	Co	59	359538.869	1.21	49.9974	0.306	0.612	ug/L
|	Ni	60	76002.150	0.25	50.6959	0.371	0.732	ug/L
|	Cu	65	78664.653	0.26	50.9539	0.571	1.120	ug/L
|	Zn	66	50505.389	0.17	49.9558	0.208	0.416	ug/L
| >	Ge	72	298263.703	298263.70				ug/L
|	As	75	47817.299	0.16	50.5553	0.668	1.321	ug/L
|	Se	77	3910.098	0.01	52.5859	0.938	1.784	ug/L
|	Se	82	4693.964	0.02	51.7588	1.023	1.977	ug/L
⌊	Rb	85	1888.197	0.01				mg/L
	Y	89	209012.874	-2644.69				ug/L
	Rh	103	34.000	21.33				ug/L
⌈	Mo	98	290695.856	0.97	110.2809	0.956	0.867	ug/L
|	Ag	107	282283.552	0.94	51.2427	0.350	0.683	ug/L
|	Cd	114	57997.798	0.19	49.9384	0.458	0.916	ug/L
| >	In	115	299019.368	299019.37				ug/L
|	Sn	118	228408.538	0.76	55.8484	0.317	0.567	ug/L
⌊	Sb	123	180901.189	0.60	48.8600	0.346	0.708	ug/L
⌈	Ba	135	74243.997	0.19	49.9133	0.325	0.652	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	392738.303	392738.30				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	319772.088	0.99	50.4156	0.554	1.099	ug/L
|	Tl	205	780850.305	2.41	50.2166	1.238	2.466	ug/L
|	Pb	206	265679.845	0.82	51.7576	0.756	1.460	ug/L
|	Pb	207	234529.801	0.72	48.5606	1.097	2.258	ug/L
|	Pb	208	1082250.833	3.34	50.5595	0.867	1.714	ug/L
|	U	238	1520738.243	4.70	49.0654	0.007	0.015	ug/L
⌊>	Bi	209	323868.786	323868.79				ug/L

Sample ID: QC Std 1
Report Date/Time: Monday, March 28, 2011 11:47:05
Page 1

Approved: March 29, 2011



⌈	Na	23	19721989.110	139.72	5.1230	0.141	2.753	mg/L
|	Mg	24	13337297.298	94.54	5.0507	0.009	0.176	mg/L
|	K	39	25541559.813	178.67	5.0719	0.122	2.398	mg/L
|	Ca	43	63306.113	0.45	5.0686	0.095	1.880	mg/L
|	Fe	54	2235192.966	15.62	5.0191	0.055	1.091	mg/L
|	Fe	57	948497.735	6.69	5.0464	0.051	1.008	mg/L
⌊>	Sc-1	45	141071.442	141071.44				mg/L
	Cl	35	12876.285	-985.32				mg/L
	Kr	83	63.001	5.00				mg/L
	Br	81	5021.262	131.40				mg/L
	P	31	5365.463	-51.34				mg/L
	S	34	130400.112	-17014.76				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9	98.489				
|	Al	27	104.307				
⌊>	Sc	45					
⌈	Ti	49	112.406				
|	V	51	100.539				
|	Cr	52	101.035				
|	Cr	53					
|	Mn	55	102.690				
|	Co	59	99.995				
|	Ni	60	101.392				
|	Cu	65	101.908				
|	Zn	66	99.912				
|>	Ge	72		96.876			
|	As	75	101.111				
|	Se	77					
|	Se	82	103.518				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	102.485				
|	Cd	114	99.877				
|>	In	115		99.448			
|	Sn	118					
⌊	Sb	123	97.720				
⌈	Ba	135	99.827				
|	Ce	140					
⌊>	Tb	159		101.419			
⌈	Ho	165					
|	Tl	203	100.831				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	101.119				
|	U	238	98.131				
⌊>	Bi	209		93.909			
⌈	Na	23	102.460				

Sample ID: QC Std 1
Report Date/Time: Monday, March 28, 2011 11:47:05

Approved: March 29, 2011

	Mg	24	101.014
	K	39	101.439
	Ca	43	101.372
	Fe	54	100.382
	Fe	57	100.927
>	Sc-1	45	
	Cl	35	
	Kr	83	
	Br	81	
	P	31	
	S	34	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Monday, March 28, 2011 11:47:05
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, March 28, 2011 11:51:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16680.619	-0.01				ug/L
|	Be	9	16.000	0.00	-0.0611	0.026	42.451	ug/L
|	Al	27	5084.640	0.00	0.1290	0.168	129.904	ug/L
⌊>	Sc	45	143338.771	143338.77				ug/L
⌈	Ti	49	50.005	-0.00	0.0280	0.044	158.476	ug/L
|	V	51	2166.078	-0.00	-0.0231	0.005	23.631	ug/L
|	Cr	52	7202.999	-0.00	-0.1068	0.018	16.868	ug/L
|	Cr	53	270.031	-0.00	-0.0783	0.026	33.479	ug/L
|	Mn	55	425.347	0.00	-0.0219	0.002	10.739	ug/L
|	Co	59	83.335	0.00	-0.0005	0.002	289.501	ug/L
|	Ni	60	53.001	0.00	-0.0402	0.005	11.916	ug/L
|	Cu	65	164.003	0.00	-0.0174	0.007	42.482	ug/L
|	Zn	66	398.679	-0.00	-1.7350	0.013	0.765	ug/L
|>	Ge	72	307912.710	307912.71				ug/L
|	As	75	-162.771	-0.00	0.0726	0.046	63.429	ug/L
|	Se	77	53.333	0.00	-0.0214	0.083	387.750	ug/L
|	Se	82	-4.296	-0.00	0.2521	0.075	29.786	ug/L
⌊	Rb	85	23.667	0.00				mg/L
	Y	89	213499.823	1842.26				ug/L
	Rh	103	15.000	2.33				ug/L
⌈	Mo	98	181.286	0.00	0.0672	0.001	2.097	ug/L
|	Ag	107	46.334	0.00	0.0077	0.001	19.392	ug/L
|	Cd	114	2.837	0.00	0.0213	0.004	17.446	ug/L
|>	In	115	308253.824	308253.82				ug/L
|	Sn	118	329.872	0.00	-0.0783	0.002	2.869	ug/L
⌊	Sb	123	450.166	0.00	0.1121	0.006	5.178	ug/L
⌈	Ba	135	27.667	-0.00	-0.0171	0.000	2.586	ug/L
|	Ce	140	10.001	-0.00				ug/L
⌊>	Tb	159	401419.407	401419.41				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	61.001	0.00	0.0045	0.001	17.245	ug/L
|	Tl	205	116.679	0.00	0.0022	0.003	144.848	ug/L
|	Pb	206	317.342	0.00	-0.0015	0.002	154.031	ug/L
|	Pb	207	279.007	0.00	-0.0085	0.005	61.004	ug/L
|	Pb	208	1272.045	0.00	-0.0037	0.002	51.885	ug/L
|	U	238	152.336	0.00	-0.0039	0.001	25.644	ug/L
⌊>	Bi	209	335874.756	335874.76				ug/L

Sample ID: QC Std 2
Report Date/Time: Monday, March 28, 2011 11:53:49
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	18021.368	0.03	-0.0101	0.000	3.550	mg/L
|	Mg	24	856.789	0.00	-0.0126	0.000	0.183	mg/L
|	K	39	355159.164	0.11	-0.0060	0.003	49.643	mg/L
|	Ca	43	340.040	0.00	-0.0262	0.005	18.018	mg/L
|	Fe	54	30931.650	-0.01	-0.0018	0.003	169.402	mg/L
|	Fe	57	4841.656	-0.00	-0.0047	0.002	37.023	mg/L
⌊>	Sc-1	45	143338.771	143338.77				mg/L
	Cl	35	12226.136	-1635.47				mg/L
	Kr	83	72.334	14.33				mg/L
	Br	81	5223.367	333.50				mg/L
	P	31	5612.915	196.11				mg/L
	S	34	127917.687	-19497.19				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.010			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.519			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.661			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.390			
⌈	Na	23					

Sample ID: QC Std 2
Report Date/Time: Monday, March 28, 2011 11:53:49
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Monday, March 28, 2011 11:53:49
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Monday, March 28, 2011 11:58:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15996.144	-0.01				ug/L
|	Be	9	18.000	0.00	-0.0525	0.027	51.307	ug/L
|	Al	27	2767.052	-0.02	-0.3644	0.066	18.109	ug/L
|>	Sc	45	140277.309	140277.31				ug/L
⌈	Ti	49	43.338	-0.00	0.0143	0.035	242.595	ug/L
|	V	51	5166.724	0.01	0.3995	0.023	5.848	ug/L
|	Cr	52	12669.816	0.02	0.7943	0.042	5.271	ug/L
|	Cr	53	823.450	0.00	0.6797	0.109	16.080	ug/L
|	Mn	55	5291.119	0.02	0.4856	0.005	0.962	ug/L
|	Co	59	3126.187	0.01	0.4143	0.005	1.180	ug/L
|	Ni	60	2626.705	0.01	1.6447	0.012	0.732	ug/L
|	Cu	65	1418.782	0.00	0.7819	0.015	1.883	ug/L
|	Zn	66	6723.994	0.02	4.6614	0.024	0.521	ug/L
|>	Ge	72	304412.595	304412.60				ug/L
|	As	75	268.260	0.00	0.5151	0.033	6.488	ug/L
|	Se	77	95.334	0.00	0.5485	0.261	47.570	ug/L
|	Se	82	43.050	0.00	0.7601	0.077	10.075	ug/L
⌊	Rb	85	24.667	0.00				mg/L
	Y	89	216309.970	4652.41				ug/L
	Rh	103	14.667	2.00				ug/L
⌈	Mo	98	121.508	0.00	0.0454	0.002	5.422	ug/L
|	Ag	107	2389.643	0.01	0.4223	0.009	2.198	ug/L
|	Cd	114	236.354	0.00	0.2173	0.008	3.728	ug/L
|>	In	115	306759.023	306759.02				ug/L
|	Sn	118	258.937	0.00	-0.0949	0.002	2.483	ug/L
⌊	Sb	123	1680.643	0.01	0.4366	0.009	2.094	ug/L
⌈	Ba	135	1179.081	0.00	0.7472	0.011	1.521	ug/L
|	Ce	140	20.002	-0.00				ug/L
|>	Tb	159	398142.968	398142.97				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	600.691	0.00	0.0864	0.003	4.043	ug/L
|	Tl	205	1390.236	0.00	0.0810	0.007	8.616	ug/L
|	Pb	206	2423.651	0.01	0.3940	0.013	3.424	ug/L
|	Pb	207	2255.944	0.01	0.3860	0.008	2.197	ug/L
|	Pb	208	10112.458	0.03	0.3943	0.007	1.651	ug/L
|	U	238	12713.871	0.04	0.3864	0.004	1.120	ug/L
|>	Bi	209	336388.023	336388.02				ug/L

Sample ID: QC Std 3
Report Date/Time: Monday, March 28, 2011 12:00:39
Page 1

Approved: March 29, 2011

Erin D. Long

Na	23	12529.101	-0.00	-0.0115	0.000	0.843	mg/L
Mg	24	410.050	0.00	-0.0127	0.000	0.461	mg/L
K	39	364159.051	0.22	-0.0028	0.001	37.934	mg/L
Ca	43	353.375	0.00	-0.0246	0.006	25.747	mg/L
Fe	54	30198.740	-0.01	-0.0020	0.002	83.104	mg/L
Fe	57	5085.138	-0.00	-0.0029	0.002	54.927	mg/L
> Sc-1	45	140277.309	140277.31				mg/L
Cl	35	12797.520	-1064.08				mg/L
Kr	83	71.001	13.00				mg/L
Br	81	5252.713	362.85				mg/L
P	31	5229.377	-187.42				mg/L
S	34	135120.893	-12293.98				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	99.874				
Cr	52	99.292				
Cr	53					
Mn	55	97.127				
Co	59	103.569				
Ni	60	102.793				
Cu	65	97.743				
Zn	66	74.582				
> Ge	72		98.873			
As	75	128.767				
Se	77					
Se	82	190.032				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	105.584				
Cd	114	108.645				
> In	115		102.022			
Sn	118					
Sb	123	109.162				
Ba	135	99.624				
Ce	140					
> Tb	159		102.815			
Ho	165					
Tl	203	108.033				
Tl	205					
Pb	206					
Pb	207					
Pb	208	98.585				
U	238	96.599				
> Bi	209		97.539			
Na	23					

Sample ID: QC Std 3
Report Date/Time: Monday, March 28, 2011 12:00:39

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Se	82	LLICV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 3
Report Date/Time: Monday, March 28, 2011 12:00:39
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, March 28, 2011 12:05:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16931.001	0.00				ug/L
|	Be	9	14.667	0.00	-0.0624	0.006	9.056	ug/L
|	Al	27	13102838.528	98.31	3057.4556	103.199	3.375	ug/L
⌊>	Sc	45	133265.531	133265.53				ug/L
⌈	Ti	49	28653.875	0.09	64.6765	2.767	4.278	ug/L
|	V	51	1926.919	-0.00	-0.0538	0.028	52.170	ug/L
|	Cr	52	6713.320	-0.00	-0.1752	0.007	4.080	ug/L
|	Cr	53	693.427	0.00	0.5025	0.191	38.070	ug/L
|	Mn	55	1697.161	0.00	0.1109	0.006	5.755	ug/L
|	Co	59	952.388	0.00	0.1178	0.008	6.750	ug/L
|	Ni	60	386.011	0.00	0.1776	0.009	5.001	ug/L
|	Cu	65	459.015	0.00	0.1709	0.010	5.956	ug/L
|	Zn	66	599.357	0.00	-1.5290	0.021	1.400	ug/L
|>	Ge	72	305039.688	305039.69				ug/L
|	As	75	-111.513	0.00	0.1238	0.068	55.321	ug/L
|	Se	77	104.667	0.00	0.6681	0.182	27.287	ug/L
|	Se	82	0.374	-0.00	0.3022	0.028	9.424	ug/L
⌊	Rb	85	1181.748	0.00				mg/L
	Y	89	203003.974	-8653.59				ug/L
	Rh	103	20.334	7.67				ug/L
⌈	Mo	98	178475.578	0.60	67.9100	1.855	2.731	ug/L
|	Ag	107	72.334	0.00	0.0127	0.001	5.201	ug/L
|	Cd	114	15.182	0.00	0.0322	0.006	19.866	ug/L
|>	In	115	298265.614	298265.61				ug/L
|	Sn	118	174.535	0.00	-0.1139	0.001	0.888	ug/L
⌊	Sb	123	168.614	0.00	0.0398	0.008	19.638	ug/L
⌈	Ba	135	51.334	0.00	-0.0003	0.000	130.957	ug/L
|	Ce	140	193.355	0.00				ug/L
⌊>	Tb	159	387529.294	387529.29				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	31.000	0.00	0.0001	0.000	327.455	ug/L
|	Tl	205	86.676	0.00	0.0004	0.002	355.328	ug/L
|	Pb	206	344.676	0.00	0.0057	0.002	42.494	ug/L
|	Pb	207	282.340	0.00	-0.0060	0.001	15.540	ug/L
|	Pb	208	1331.715	0.00	0.0009	0.001	119.631	ug/L
|	U	238	49.001	0.00	-0.0071	0.000	0.728	ug/L
⌊>	Bi	209	325460.167	325460.17				ug/L

Sample ID: QC Std 4
Report Date/Time: Monday, March 28, 2011 12:07:27
Page 1

Approved: March 29, 2011

Erin D. Long

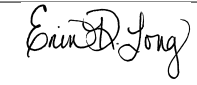
Na	23	31383143.223	235.37	8.6381	0.163	1.889	mg/L	
Mg	24	8749046.707	65.65	3.5035	0.050	1.438	mg/L	
K	39	16688901.085	122.88	3.4856	0.098	2.821	mg/L	
Ca	43	118719.215	0.89	10.1154	0.219	2.168	mg/L	
Fe	54	3717810.532	27.68	8.8921	0.119	1.343	mg/L	
Fe	57	1571230.541	11.75	8.8733	0.185	2.082	mg/L	
> Sc-1	45	133265.531	133265.53				mg/L	
Cl	35	947599.813	933738.21				mg/L	
Kr	83	72.001	14.00				mg/L	
Br	81	5020.595	130.73				mg/L	
P	31	865091.144	859674.34				mg/L	
S	34	205467.413	58052.54				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		99.076			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		99.197			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		100.074			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		94.371			
Na	23					

Sample ID: QC Std 4
Report Date/Time: Monday, March 28, 2011 12:07:27
Page 2

Approved: March 29, 2011



|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	Se	82	ICSA IS OUT OF LIMITS (+/-RL)

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, March 28, 2011 12:12:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16947.708	0.00				ug/L
|	Be	9	24560.125	0.19	104.7482	4.035	3.852	ug/L
|	Al	27	18044289.231	137.72	4282.7860	210.032	4.904	ug/L
⌊>	Sc	45	131121.261	131121.26				ug/L
⌈	Ti	49	40629.790	0.14	95.1474	2.903	3.051	ug/L
|	V	51	651064.582	2.21	93.8297	0.549	0.586	ug/L
|	Cr	52	582237.403	1.95	96.6234	0.303	0.313	ug/L
|	Cr	53	81945.890	0.28	115.0696	0.829	0.720	ug/L
|	Mn	55	915761.697	3.11	98.7217	1.150	1.165	ug/L
|	Co	59	697209.023	2.37	98.3557	0.594	0.604	ug/L
|	Ni	60	148526.162	0.50	100.5629	1.232	1.225	ug/L
|	Cu	65	154024.755	0.52	101.3137	1.079	1.065	ug/L
|	Zn	66	97326.978	0.33	99.6847	0.468	0.469	ug/L
| >	Ge	72	294050.048	294050.05				ug/L
|	As	75	92710.260	0.32	99.1938	0.726	0.732	ug/L
|	Se	77	8420.210	0.03	115.7248	1.494	1.291	ug/L
|	Se	82	8979.173	0.03	100.1457	0.978	0.976	ug/L
⌊	Rb	85	1695.161	0.01				mg/L
	Y	89	198187.696	-13469.87				ug/L
	Rh	103	55.334	42.67				ug/L
⌈	Mo	98	256838.110	0.91	102.9687	0.428	0.415	ug/L
|	Ag	107	510817.306	1.81	97.9942	0.639	0.652	ug/L
|	Cd	114	109437.871	0.39	99.5639	0.052	0.052	ug/L
| >	In	115	282949.255	282949.25				ug/L
|	Sn	118	495.879	0.00	-0.0283	0.007	26.267	ug/L
⌊	Sb	123	348167.733	1.23	99.3811	1.291	1.299	ug/L
⌈	Ba	135	137730.432	0.37	97.8183	1.175	1.201	ug/L
|	Ce	140	186.687	0.00				ug/L
⌊>	Tb	159	371933.625	371933.62				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	625994.087	1.92	97.9724	1.687	1.722	ug/L
|	Tl	205	1559392.000	4.78	99.5416	1.415	1.422	ug/L
|	Pb	206	534098.398	1.64	103.3414	1.476	1.428	ug/L
|	Pb	207	469104.661	1.44	96.4766	2.159	2.238	ug/L
|	Pb	208	2155068.040	6.60	99.9931	1.293	1.293	ug/L
|	U	238	3094745.762	9.49	99.1327	1.984	2.001	ug/L
⌊>	Bi	209	326283.894	326283.89				ug/L

Sample ID: QC Std 5
Report Date/Time: Monday, March 28, 2011 12:14:15
Page 1

Approved: March 29, 2011

Erin D. Long

Na	23	44534964.732	339.83	12.4769	0.492	3.944	mg/L
Mg	24	12070674.200	92.14	4.9220	0.214	4.355	mg/L
K	39	23956824.609	180.40	5.1211	0.127	2.483	mg/L
Ca	43	168789.591	1.29	14.6514	0.618	4.219	mg/L
Fe	54	5303083.277	40.25	12.9301	0.452	3.499	mg/L
Fe	57	2273276.856	17.31	13.0669	0.336	2.574	mg/L
> Sc-1	45	131121.261	131121.26				mg/L
Cl	35	21098593.708	21084732.10				mg/L
Kr	83	78.668	20.67				mg/L
Br	81	6497.445	1607.58				mg/L
P	31	1185077.073	1179660.27				mg/L
S	34	223615.793	76200.92				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	93.830				
Cr	52	96.623				
Cr	53					
Mn	55	98.722				
Co	59	98.356				
Ni	60	100.563				
Cu	65	101.314				
Zn	66	99.685				
> Ge	72		95.507			
As	75	99.194				
Se	77					
Se	82	100.146				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	97.994				
Cd	114	99.564				
> In	115		94.103			
Sn	118					
Sb	123	99.381				
Ba	135	97.818				
Ce	140					
> Tb	159		96.047			
Ho	165					
Tl	203	97.972				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.993				
U	238	99.133				
> Bi	209		94.609			
Na	23					

Sample ID: QC Std 5
Report Date/Time: Monday, March 28, 2011 12:14:15

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Monday, March 28, 2011 12:14:15
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 28, 2011 12:18:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16012.827	-0.01				ug/L
|	Be	9	12890.305	0.09	50.5987	2.421	4.784	ug/L
|	Al	27	230254.650	1.59	49.3982	2.724	5.515	ug/L
|>	Sc	45	142323.156	142323.16				ug/L
⌈	Ti	49	44925.191	0.14	100.0063	0.406	0.406	ug/L
|	V	51	367174.864	1.18	50.1556	0.314	0.625	ug/L
|	Cr	52	319993.675	1.01	49.8892	0.876	1.756	ug/L
|	Cr	53	39682.542	0.13	52.7525	1.479	2.805	ug/L
|	Mn	55	486912.782	1.57	49.8639	0.498	0.998	ug/L
|	Co	59	375469.419	1.21	50.3463	0.169	0.336	ug/L
|	Ni	60	78229.276	0.25	50.3205	0.441	0.876	ug/L
|	Cu	65	82321.612	0.27	51.4323	1.214	2.361	ug/L
|	Zn	66	51755.111	0.17	49.3452	0.788	1.596	ug/L
|>	Ge	72	309322.553	309322.55				ug/L
|	As	75	49486.002	0.16	50.4649	1.215	2.408	ug/L
|	Se	77	4158.866	0.01	53.9892	3.155	5.844	ug/L
|	Se	82	4953.675	0.02	52.6715	0.772	1.465	ug/L
⌊	Rb	85	1945.875	0.01				mg/L
	Y	89	213541.072	1883.51				ug/L
	Rh	103	30.000	17.33				ug/L
⌈	Mo	98	271378.215	0.89	100.9563	1.158	1.147	ug/L
|	Ag	107	282545.865	0.93	50.2980	0.808	1.607	ug/L
|	Cd	114	59150.657	0.19	49.9454	0.720	1.442	ug/L
|>	In	115	304947.897	304947.90				ug/L
|	Sn	118	207306.869	0.68	49.6877	0.513	1.033	ug/L
⌊	Sb	123	188351.128	0.62	49.8820	0.174	0.349	ug/L
⌈	Ba	135	75639.792	0.19	50.3714	0.851	1.689	ug/L
|	Ce	140	43.338	0.00				ug/L
|>	Tb	159	396515.562	396515.56				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	326644.125	0.98	50.0697	0.607	1.212	ug/L
|	Tl	205	797467.529	2.39	49.8540	0.677	1.357	ug/L
|	Pb	206	266563.771	0.80	50.4876	0.668	1.323	ug/L
|	Pb	207	250720.633	0.75	50.4728	0.574	1.138	ug/L
|	Pb	208	1116265.060	3.35	50.6993	0.389	0.767	ug/L
|	U	238	1704652.110	5.12	53.4770	0.598	1.118	ug/L
|>	Bi	209	333118.596	333118.60				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 12:21:02
Page 1

Approved: March 29, 2011

Erin D. Long

Na	23	19540760.711	137.34	5.0355	0.264	5.245	mg/L
Mg	24	13425465.149	94.43	5.0450	0.245	4.860	mg/L
K	39	26201996.258	181.89	5.1636	0.201	3.890	mg/L
Ca	43	64409.862	0.45	5.1158	0.158	3.086	mg/L
Fe	54	2281385.570	15.82	5.0845	0.283	5.569	mg/L
Fe	57	979907.158	6.86	5.1762	0.337	6.509	mg/L
> Sc-1	45	142323.156	142323.16				mg/L
Cl	35	27949.842	14088.24				mg/L
Kr	83	73.334	15.33				mg/L
Br	81	5194.016	304.15				mg/L
P	31	4978.576	-438.22				mg/L
S	34	126346.542	-21068.33				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	100.311				
Cr	52	99.778				
Cr	53					
Mn	55	99.728				
Co	59	100.693				
Ni	60	100.641				
Cu	65	102.865				
Zn	66	98.690				
> Ge	72		100.468			
As	75	100.930				
Se	77					
Se	82	105.343				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.596				
Cd	114	99.891				
> In	115		101.419			
Sn	118					
Sb	123	99.764				
Ba	135	100.743				
Ce	140					
> Tb	159		102.395			
Ho	165					
Tl	203	100.139				
Tl	205					
Pb	206					
Pb	207					
Pb	208	101.399				
U	238	106.954				
> Bi	209		96.591			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 12:21:02

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 12:21:02
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 28, 2011 12:26:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15979.424	-0.01				ug/L
|	Be	9	12.000	0.00	-0.0754	0.016	20.674	ug/L
|	Al	27	5084.647	0.00	0.1593	0.152	95.173	ug/L
⌊>	Sc	45	138773.527	138773.53				ug/L
⌈	Ti	49	56.673	-0.00	0.0462	0.074	160.500	ug/L
|	V	51	2252.380	-0.00	-0.0040	0.021	521.769	ug/L
|	Cr	52	7550.592	-0.00	-0.0232	0.013	54.345	ug/L
|	Cr	53	1383.568	0.00	1.4634	0.197	13.489	ug/L
|	Mn	55	440.014	0.00	-0.0193	0.001	6.766	ug/L
|	Co	59	70.668	0.00	-0.0020	0.001	57.323	ug/L
|	Ni	60	49.001	-0.00	-0.0420	0.004	8.581	ug/L
|	Cu	65	152.669	0.00	-0.0223	0.010	43.715	ug/L
|	Zn	66	392.678	-0.00	-1.7320	0.022	1.280	ug/L
|>	Ge	72	301010.228	301010.23				ug/L
|	As	75	-156.624	-0.00	0.0754	0.093	122.760	ug/L
|	Se	77	63.334	0.00	0.1296	0.203	156.872	ug/L
|	Se	82	-7.368	-0.00	0.2181	0.364	166.702	ug/L
⌊	Rb	85	35.667	0.00				mg/L
	Y	89	213807.584	2150.02				ug/L
	Rh	103	14.667	2.00				ug/L
⌈	Mo	98	126.878	0.00	0.0487	0.003	6.083	ug/L
|	Ag	107	45.334	0.00	0.0078	0.001	12.380	ug/L
|	Cd	114	1.980	0.00	0.0207	0.004	20.251	ug/L
|>	In	115	298028.640	298028.64				ug/L
|	Sn	118	261.470	0.00	-0.0925	0.004	4.272	ug/L
⌊	Sb	123	212.864	0.00	0.0518	0.007	13.214	ug/L
⌈	Ba	135	27.334	-0.00	-0.0168	0.002	11.040	ug/L
|	Ce	140	40.004	-0.00				ug/L
⌊>	Tb	159	390253.787	390253.79				ug/L
⌈	Ho	165	20.002	0.00				ug/L
|	Tl	203	96.335	0.00	0.0102	0.001	11.022	ug/L
|	Tl	205	250.028	0.00	0.0107	0.002	15.319	ug/L
|	Pb	206	302.008	0.00	-0.0031	0.004	118.736	ug/L
|	Pb	207	280.673	0.00	-0.0068	0.002	26.470	ug/L
|	Pb	208	1251.043	0.00	-0.0033	0.003	83.254	ug/L
|	U	238	134.669	0.00	-0.0043	0.001	18.912	ug/L
⌊>	Bi	209	328373.559	328373.56				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 12:28:17
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	14969.368	0.01	-0.0108	0.000	0.806	mg/L
|	Mg	24	773.441	0.00	-0.0126	0.000	0.253	mg/L
|	K	39	359586.778	0.22	-0.0029	0.001	49.844	mg/L
|	Ca	43	336.706	0.00	-0.0258	0.006	24.130	mg/L
|	Fe	54	32209.268	0.01	0.0035	0.002	69.531	mg/L
|	Fe	57	5055.124	-0.00	-0.0028	0.002	74.360	mg/L
⌊>	Sc-1	45	138773.527	138773.53				mg/L
	Cl	35	18831.048	4969.44				mg/L
	Kr	83	80.668	22.67				mg/L
	Br	81	5407.462	517.60				mg/L
	P	31	5426.147	9.35				mg/L
	S	34	133349.536	-14065.34				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.768			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.118			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.778			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.215			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 12:28:17
Page 2

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 12:28:17

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103053001

Sample Date/Time: Monday, March 28, 2011 12:32:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: ~~10~~ 50

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16547.048	-0.01				ug/L
|	Be	9	12.667	0.00	-0.0731	0.027	36.965	ug/L
|	Al	27	17899.697	0.09	2.9857	0.655	21.924	ug/L
⌊>	Sc	45	140159.014	140159.01				ug/L
⌈	Ti	49	170.019	0.00	0.3008	0.093	30.966	ug/L
|	V	51	2390.860	-0.00	0.0112	0.021	191.195	ug/L
|	Cr	52	8111.038	0.00	0.0517	0.045	87.449	ug/L
|	Cr	53	873.460	0.00	0.7439	0.251	33.779	ug/L
|	Mn	55	160698.948	0.53	16.6486	0.200	1.204	ug/L
|	Co	59	155.669	0.00	0.0094	0.002	26.299	ug/L
|	Ni	60	336.009	0.00	0.1451	0.017	11.461	ug/L
|	Cu	65	236.672	0.00	0.0297	0.010	32.431	ug/L
|	Zn	66	2536.014	0.01	0.4247	0.017	4.023	ug/L
|>	Ge	72	304968.325	304968.32				ug/L
|	As	75	-154.350	-0.00	0.0793	0.069	86.428	ug/L
|	Se	77	54.667	0.00	0.0043	0.193	4431.206	ug/L
|	Se	82	-2.951	-0.00	0.2659	0.076	28.567	ug/L
⌊	Rb	85	703.032	0.00				mg/L
	Y	89	211790.394	132.83				ug/L
	Rh	103	30.334	17.67				ug/L
⌈	Mo	98	87.581	0.00	0.0338	0.004	12.531	ug/L
|	Ag	107	44.334	0.00	0.0076	0.001	19.295	ug/L
|	Cd	114	-5.834	-0.00	0.0139	0.005	39.119	ug/L
|>	In	115	297756.909	297756.91				ug/L
|	Sn	118	204.002	0.00	-0.1065	0.005	4.377	ug/L
⌊	Sb	123	122.857	0.00	0.0274	0.006	22.219	ug/L
⌈	Ba	135	185.004	0.00	0.0915	0.005	5.468	ug/L
|	Ce	140	480.060	0.00				ug/L
⌊>	Tb	159	385391.473	385391.47				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	71.668	0.00	0.0065	0.002	27.094	ug/L
|	Tl	205	163.351	0.00	0.0054	0.002	28.368	ug/L
|	Pb	206	320.008	0.00	0.0011	0.002	181.326	ug/L
|	Pb	207	307.008	0.00	-0.0007	0.002	324.742	ug/L
|	Pb	208	1287.045	0.00	-0.0009	0.002	201.285	ug/L
|	U	238	12618.416	0.04	0.3980	0.005	1.325	ug/L
⌊>	Bi	209	324295.734	324295.73				ug/L

Sample ID: L1103053001
Report Date/Time: Monday, March 28, 2011 12:35:01
Page 1

Approved: March 29, 2011

⌈	Na	23	20856580.990	148.78	5.4562	0.196	3.592	mg/L
|	Mg	24	5453044.027	38.91	2.0715	0.053	2.553	mg/L
|	K	39	1321339.009	7.06	0.1916	0.007	3.416	mg/L
|	Ca	43	46716.866	0.33	3.7521	0.078	2.092	mg/L
|	Fe	54	31384.109	-0.00	0.0008	0.002	219.117	mg/L
|	Fe	57	7039.850	0.01	0.0077	0.001	15.710	mg/L
⌊>	Sc-1	45	140159.014	140159.01				mg/L
	Cl	35	24933.049	11071.44				mg/L
	Kr	83	71.001	13.00				mg/L
	Br	81	6116.537	1226.67				mg/L
	P	31	4953.896	-462.91				mg/L
	S	34	329324.584	181909.71				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.053			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.028			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.522			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.033			
⌈	Na	23					

Sample ID: L1103053001
Report Date/Time: Monday, March 28, 2011 12:35:01
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: PBW 44 WG359563-04

Sample Date/Time: Monday, March 28, 2011 12:39:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17331.679	-0.01				ug/L
|	Be	9	14.667	0.00	-0.0712	0.015	20.879	ug/L
|	Al	27	24647.117	0.12	3.9628	0.359	9.066	ug/L
⌊>	Sc	45	155213.814	155213.81				ug/L
⌈	Ti	49	43.338	-0.00	0.0113	0.012	108.842	ug/L
|	V	51	2551.893	0.00	0.0234	0.017	73.935	ug/L
|	Cr	52	9354.802	0.00	0.2098	0.034	16.060	ug/L
|	Cr	53	783.443	0.00	0.5933	0.155	26.101	ug/L
|	Mn	55	2779.414	0.01	0.2152	0.004	1.685	ug/L
|	Co	59	112.668	0.00	0.0031	0.000	3.083	ug/L
|	Ni	60	164.336	0.00	0.0298	0.007	22.260	ug/L
|	Cu	65	296.674	0.00	0.0625	0.012	19.216	ug/L
|	Zn	66	2837.098	0.01	0.6468	0.097	14.971	ug/L
|>	Ge	72	313923.892	313923.89				ug/L
|	As	75	-79.590	0.00	0.1589	0.059	37.206	ug/L
|	Se	77	66.000	0.00	0.1296	0.188	144.902	ug/L
|	Se	82	23.734	0.00	0.5448	0.089	16.423	ug/L
⌊	Rb	85	96.335	0.00				mg/L
	Y	89	221372.200	9714.64				ug/L
	Rh	103	22.334	9.67				ug/L
⌈	Mo	98	82.288	0.00	0.0307	0.003	10.807	ug/L
|	Ag	107	71.334	0.00	0.0121	0.003	24.973	ug/L
|	Cd	114	-1.813	0.00	0.0174	0.002	9.659	ug/L
|>	In	115	308428.168	308428.17				ug/L
|	Sn	118	272.004	0.00	-0.0921	0.002	2.674	ug/L
⌊	Sb	123	195.074	0.00	0.0452	0.003	7.255	ug/L
⌈	Ba	135	309.341	0.00	0.1679	0.019	11.435	ug/L
|	Ce	140	146.682	0.00				ug/L
⌊>	Tb	159	402316.116	402316.12				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	57.001	0.00	0.0039	0.000	12.516	ug/L
|	Tl	205	100.011	0.00	0.0011	0.002	207.444	ug/L
|	Pb	206	397.345	0.00	0.0134	0.005	34.003	ug/L
|	Pb	207	325.342	0.00	0.0006	0.001	206.235	ug/L
|	Pb	208	1552.397	0.00	0.0088	0.001	16.591	ug/L
|	U	238	91.001	0.00	-0.0058	0.000	3.428	ug/L
⌊>	Bi	209	336739.311	336739.31				ug/L

Sample ID: PBW 44 WG359563-04
Report Date/Time: Monday, March 28, 2011 12:41:46
Page 1

Approved: March 29, 2011

⌈	Na	23	173028.548	1.02	0.0262	0.001	3.720	mg/L
|	Mg	24	80053.916	0.51	0.0148	0.001	7.261	mg/L
|	K	39	407715.975	0.26	-0.0018	0.003	157.521	mg/L
|	Ca	43	1103.505	0.00	0.0277	0.003	9.865	mg/L
|	Fe	54	72349.220	0.24	0.0789	0.008	10.690	mg/L
|	Fe	57	9422.046	0.02	0.0156	0.001	9.592	mg/L
⌊>	Sc-1	45	155213.814	155213.81				mg/L
	Cl	35	54610.745	40749.14				mg/L
	Kr	83	69.001	11.00				mg/L
	Br	81	17290.272	12400.41				mg/L
	P	31	11250.997	5834.20				mg/L
	S	34	132162.322	-15252.55				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.962			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.577			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.892			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.641			
⌈	Na	23					

Sample ID: PBW 44 WG359563-04
Report Date/Time: Monday, March 28, 2011 12:41:46
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 44 WG359563-04
Report Date/Time: Monday, March 28, 2011 12:41:46

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: LCSW 44 WG359563-05

Sample Date/Time: Monday, March 28, 2011 12:46:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17682.375	-0.01				ug/L
|	Be	9	6261.294	0.04	23.6293	0.396	1.677	ug/L
|	Al	27	123744.390	0.81	25.1538	1.595	6.342	ug/L
⌊>	Sc	45	147531.769	147531.77				ug/L
⌈	Ti	49	93.343	0.00	0.1219	0.056	46.181	ug/L
|	V	51	187859.101	0.59	25.2124	0.260	1.029	ug/L
|	Cr	52	173082.419	0.53	26.0878	0.244	0.934	ug/L
|	Cr	53	19437.492	0.06	25.3110	0.802	3.169	ug/L
|	Mn	55	261241.068	0.83	26.4207	0.171	0.646	ug/L
|	Co	59	196976.532	0.63	26.1078	0.199	0.763	ug/L
|	Ni	60	41504.033	0.13	26.3578	0.161	0.611	ug/L
|	Cu	65	42881.511	0.14	26.4218	0.181	0.686	ug/L
|	Zn	66	38646.933	0.12	35.8649	0.367	1.023	ug/L
|>	Ge	72	312853.035	312853.04				ug/L
|	As	75	23063.703	0.07	23.3743	0.279	1.193	ug/L
|	Se	77	1755.487	0.01	22.0943	0.468	2.117	ug/L
|	Se	82	2055.355	0.01	21.7762	0.641	2.945	ug/L
⌊	Rb	85	67.334	0.00				mg/L
	Y	89	221048.569	9391.01				ug/L
	Rh	103	23.667	11.00				ug/L
⌈	Mo	98	76.325	0.00	0.0286	0.001	4.432	ug/L
|	Ag	107	133421.447	0.43	23.5378	0.480	2.039	ug/L
|	Cd	114	28504.384	0.09	23.8638	0.223	0.937	ug/L
|>	In	115	307665.783	307665.78				ug/L
|	Sn	118	1870.309	0.01	0.2889	0.035	12.124	ug/L
⌊	Sb	123	91066.914	0.30	23.9015	0.312	1.307	ug/L
⌈	Ba	135	39751.935	0.10	26.2265	0.302	1.150	ug/L
|	Ce	140	186.687	0.00				ug/L
⌊>	Tb	159	399920.801	399920.80				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	169051.981	0.49	25.1719	0.128	0.510	ug/L
|	Tl	205	421928.470	1.23	25.6225	0.489	1.909	ug/L
|	Pb	206	143149.744	0.42	26.3100	0.139	0.530	ug/L
|	Pb	207	126383.900	0.37	24.6839	0.108	0.440	ug/L
|	Pb	208	578480.765	1.68	25.4949	0.134	0.526	ug/L
|	U	238	844567.484	2.46	25.7336	0.257	1.000	ug/L
⌊>	Bi	209	342876.394	342876.39				ug/L

Sample ID: LCSW 44 WG359563-05
Report Date/Time: Monday, March 28, 2011 12:48:32
Page 1

Approved: March 29, 2011

⌈	Na	23	134306.279	0.82	0.0187	0.001	4.014	mg/L
|	Mg	24	70840.672	0.48	0.0128	0.001	5.186	mg/L
|	K	39	409531.141	0.41	0.0024	0.004	157.261	mg/L
|	Ca	43	1260.206	0.01	0.0446	0.018	39.282	mg/L
|	Fe	54	66203.495	0.22	0.0733	0.009	12.371	mg/L
|	Fe	57	6065.781	0.00	0.0009	0.002	288.778	mg/L
⌊>	Sc-1	45	147531.769	147531.77				mg/L
	Cl	35	48789.416	34927.81				mg/L
	Kr	83	64.001	6.00				mg/L
	Br	81	7268.643	2378.78				mg/L
	P	31	12107.342	6690.54				mg/L
	S	34	126015.874	-21399.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.614			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.323			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.274			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.421			
⌈	Na	23					

Sample ID: LCSW 44 WG359563-05
Report Date/Time: Monday, March 28, 2011 12:48:32
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 44 WG359563-05
Report Date/Time: Monday, March 28, 2011 12:48:32
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057801 WG359563-01

Sample Date/Time: Monday, March 28, 2011 12:53:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21924.012	0.04				ug/L
|	Be	9	9.333	-0.00	-0.0848	0.022	25.838	ug/L
|	Al	27	21055.574	0.12	3.9218	0.408	10.411	ug/L
⌊>	Sc	45	133688.158	133688.16				ug/L
⌈	Ti	49	2583.926	0.01	6.0053	0.312	5.197	ug/L
|	V	51	2705.944	0.00	0.0712	0.014	20.080	ug/L
|	Cr	52	8678.184	0.00	0.2037	0.013	6.525	ug/L
|	Cr	53	536.735	0.00	0.3191	0.120	37.528	ug/L
|	Mn	55	9723884.573	33.25	1054.5753	23.548	2.233	ug/L
|	Co	59	1714.831	0.01	0.2315	0.010	4.377	ug/L
|	Ni	60	3113.516	0.01	2.0467	0.028	1.386	ug/L
|	Cu	65	1431.117	0.00	0.8271	0.031	3.755	ug/L
|	Zn	66	3943.151	0.01	2.0146	0.161	7.974	ug/L
|>	Ge	72	292445.831	292445.83				ug/L
|	As	75	164.910	0.00	0.4156	0.039	9.355	ug/L
|	Se	77	74.667	0.00	0.3126	0.069	22.125	ug/L
|	Se	82	103.405	0.00	1.4541	0.041	2.816	ug/L
⌊	Rb	85	3960.157	0.01				mg/L
	Y	89	201323.049	-10334.52				ug/L
	Rh	103	203.337	190.67				ug/L
⌈	Mo	98	994.977	0.00	0.4056	0.026	6.337	ug/L
|	Ag	107	51.334	0.00	0.0095	0.002	21.874	ug/L
|	Cd	114	-3.322	-0.00	0.0159	0.003	16.057	ug/L
|>	In	115	278445.796	278445.80				ug/L
|	Sn	118	346.406	0.00	-0.0656	0.003	4.143	ug/L
⌊	Sb	123	129.319	0.00	0.0316	0.000	1.295	ug/L
⌈	Ba	135	1751.171	0.00	1.2181	0.022	1.795	ug/L
|	Ce	140	546.736	0.00				ug/L
⌊>	Tb	159	369106.448	369106.45				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	100.002	0.00	0.0121	0.004	30.776	ug/L
|	Tl	205	146.682	0.00	0.0050	0.003	59.221	ug/L
|	Pb	206	328.009	0.00	0.0072	0.003	46.718	ug/L
|	Pb	207	302.674	0.00	0.0027	0.004	153.364	ug/L
|	Pb	208	1335.715	0.00	0.0057	0.001	20.798	ug/L
|	U	238	173325.323	0.57	5.9668	0.163	2.728	ug/L
⌊>	Bi	209	303253.476	303253.48				ug/L

Sample ID: L1103057801 WG359563-01
Report Date/Time: Monday, March 28, 2011 12:55:17
Page 1

Approved: March 29, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	107524888.699	805.01	43.1023	2.063	4.786	mg/L
|	K	39	7437033.506	53.29	1.5065	0.057	3.767	mg/L
|	Ca	43	398179.291	2.98	33.9660	1.598	4.705	mg/L
|	Fe	54	37469.820	0.06	0.0190	0.004	23.281	mg/L
|	Fe	57	20115.571	0.11	0.0834	0.004	4.439	mg/L
⌊>	Sc-1	45	133688.158	133688.16				mg/L
	Cl	35	213882.608	200021.00				mg/L
	Kr	83	68.668	10.67				mg/L
	Br	81	46363.232	41473.37				mg/L
	P	31	6626.887	1210.09				mg/L
	S	34	3703104.871	3555690.00				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.986			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.605			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.317			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		87.932			
⌈	Na	23					

Sample ID: L1103057801 WG359563-01
Report Date/Time: Monday, March 28, 2011 12:55:17
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057802S WG359563-06

Sample Date/Time: Monday, March 28, 2011 12:59:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

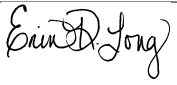
User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23043.203	0.03				ug/L
|	Be	9	1492.779	0.01	5.5229	0.569	10.305	ug/L
|	Al	27	65899.812	0.41	12.8763	0.635	4.931	ug/L
⌊>	Sc	45	148055.349	148055.35				ug/L
⌈	Ti	49	2750.654	0.01	6.0246	0.240	3.978	ug/L
|	V	51	43100.991	0.13	5.5879	0.199	3.560	ug/L
|	Cr	52	44007.079	0.12	5.7532	0.234	4.072	ug/L
|	Cr	53	4644.878	0.01	5.7719	0.475	8.237	ug/L
|	Mn	55	11287108.570	36.40	1154.5931	38.827	3.363	ug/L
|	Co	59	43729.534	0.14	5.8394	0.213	3.650	ug/L
|	Ni	60	12936.499	0.04	8.2357	0.278	3.373	ug/L
|	Cu	65	11205.726	0.04	6.8776	0.314	4.566	ug/L
|	Zn	66	51291.420	0.16	48.7460	1.435	2.943	ug/L
| >	Ge	72	310193.789	310193.79				ug/L
|	As	75	5616.319	0.02	5.9227	0.115	1.936	ug/L
|	Se	77	529.347	0.00	6.2251	0.808	12.975	ug/L
|	Se	82	656.792	0.00	7.2192	0.269	3.724	ug/L
⌊	Rb	85	4274.290	0.01				mg/L
	Y	89	212039.581	382.02				ug/L
	Rh	103	206.004	193.34				ug/L
⌈	Mo	98	1938.043	0.01	0.7546	0.048	6.422	ug/L
|	Ag	107	21502.645	0.07	4.0034	0.109	2.734	ug/L
|	Cd	114	6024.309	0.02	5.3379	0.278	5.208	ug/L
| >	In	115	291585.228	291585.23				ug/L
|	Sn	118	374.407	0.00	-0.0626	0.004	5.615	ug/L
⌊	Sb	123	19489.332	0.07	5.3935	0.164	3.034	ug/L
⌈	Ba	135	10574.701	0.03	7.2162	0.324	4.487	ug/L
|	Ce	140	710.097	0.00				ug/L
⌊>	Tb	159	385367.301	385367.30				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	34536.893	0.11	5.5426	0.018	0.332	ug/L
|	Tl	205	86087.630	0.27	5.6346	0.026	0.455	ug/L
|	Pb	206	29717.771	0.09	5.8424	0.182	3.112	ug/L
|	Pb	207	26332.240	0.08	5.4970	0.142	2.583	ug/L
|	Pb	208	120932.317	0.38	5.7010	0.182	3.194	ug/L
|	U	238	376382.821	1.18	12.3674	0.388	3.139	ug/L
⌊>	Bi	209	317921.306	317921.31				ug/L

Sample ID: L1103057802S WG359563-06
Report Date/Time: Monday, March 28, 2011 13:02:03
Page 1

Approved: March 29, 2011



⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	105171984.836	710.62	38.0471	0.893	2.348	mg/L
|	K	39	7808065.491	50.37	1.4235	0.034	2.371	mg/L
|	Ca	43	455971.743	3.08	35.1154	1.094	3.116	mg/L
|	Fe	54	39672.153	0.04	0.0150	0.004	26.845	mg/L
|	Fe	57	23239.438	0.12	0.0881	0.007	8.058	mg/L
⌊>	Sc-1	45	148055.349	148055.35				mg/L
	Cl	35	343151.553	329289.95				mg/L
	Kr	83	66.001	8.00				mg/L
	Br	81	69112.679	64222.82				mg/L
	P	31	7670.960	2254.16				mg/L
	S	34	3716130.167	3568715.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.751			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.975			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.516			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.185			
⌈	Na	23					

Sample ID: L1103057802S WG359563-06
Report Date/Time: Monday, March 28, 2011 13:02:03
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103057802S WG359563-06
Report Date/Time: Monday, March 28, 2011 13:02:03
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057803SD WG359563-07

Sample Date/Time: Monday, March 28, 2011 13:06:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 17
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	22759.222	0.03				ug/L
|	Be	9	1395.431	0.01	5.3091	0.277	5.222	ug/L
|	Al	27	45554.085	0.28	8.8858	1.038	11.685	ug/L
⌊>	Sc	45	143776.459	143776.46				ug/L
⌈	Ti	49	3280.869	0.01	7.1886	0.731	10.166	ug/L
|	V	51	41545.706	0.13	5.3575	0.190	3.541	ug/L
|	Cr	52	42012.173	0.11	5.4140	0.206	3.814	ug/L
|	Cr	53	4344.713	0.01	5.3486	0.351	6.554	ug/L
|	Mn	55	10589442.789	34.04	1079.7413	25.630	2.374	ug/L
|	Co	59	41619.517	0.13	5.5390	0.128	2.310	ug/L
|	Ni	60	11641.889	0.04	7.3819	0.126	1.708	ug/L
|	Cu	65	10181.617	0.03	6.2181	0.181	2.918	ug/L
|	Zn	66	9252.371	0.03	7.0165	0.197	2.809	ug/L
| >	Ge	72	311121.966	311121.97				ug/L
|	As	75	5437.842	0.02	5.7260	0.250	4.368	ug/L
|	Se	77	492.679	0.00	5.7168	0.348	6.081	ug/L
|	Se	82	619.085	0.00	6.8070	0.350	5.147	ug/L
⌊	Rb	85	4248.612	0.01				mg/L
	Y	89	212829.195	1171.63				ug/L
	Rh	103	225.005	212.34				ug/L
⌈	Mo	98	1019.528	0.00	0.3910	0.017	4.370	ug/L
|	Ag	107	24794.951	0.08	4.5444	0.096	2.103	ug/L
|	Cd	114	5801.755	0.02	5.0609	0.127	2.507	ug/L
| >	In	115	296182.092	296182.09				ug/L
|	Sn	118	202.269	0.00	-0.1067	0.002	1.641	ug/L
⌊	Sb	123	19256.290	0.06	5.2465	0.135	2.571	ug/L
⌈	Ba	135	9389.502	0.02	6.3397	0.227	3.585	ug/L
|	Ce	140	620.082	0.00				ug/L
⌊>	Tb	159	389214.004	389214.00				ug/L
⌈	Ho	165	53.339	0.00				ug/L
|	Tl	203	33388.985	0.10	5.3150	0.111	2.089	ug/L
|	Tl	205	82867.007	0.26	5.3812	0.224	4.172	ug/L
|	Pb	206	28758.582	0.09	5.6063	0.084	1.495	ug/L
|	Pb	207	25100.069	0.08	5.1954	0.252	4.844	ug/L
|	Pb	208	116068.872	0.36	5.4252	0.162	2.988	ug/L
|	U	238	358909.199	1.12	11.6954	0.250	2.135	ug/L
⌊>	Bi	209	320556.448	320556.45				ug/L

Sample ID: L1103057803SD WG359563-07
Report Date/Time: Monday, March 28, 2011 13:08:50
Page 1

Approved: March 29, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	118770923.811	826.38	44.2467	1.469	3.321	mg/L
|	K	39	8252967.214	55.05	1.5563	0.040	2.551	mg/L
|	Ca	43	435131.068	3.03	34.5128	1.797	5.208	mg/L
|	Fe	54	40421.396	0.06	0.0192	0.001	4.156	mg/L
|	Fe	57	21909.536	0.11	0.0849	0.008	9.458	mg/L
⌊>	Sc-1	45	143776.459	143776.46				mg/L
	Cl	35	231133.332	217271.73				mg/L
	Kr	83	70.334	12.33				mg/L
	Br	81	53246.724	48356.86				mg/L
	P	31	6676.234	1259.43				mg/L
	S	34	4091555.519	3944140.65				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.052			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.504			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.509			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.949			
⌈	Na	23					

Sample ID: L1103057803SD WG359563-07
Report Date/Time: Monday, March 28, 2011 13:08:50
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103057803SD WG359563-07
Report Date/Time: Monday, March 28, 2011 13:08:50
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057801 WG359563-01

Sample Date/Time: Monday, March 28, 2011 13:13:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 200

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18316.880	0.01				ug/L
|	Be	9	15.333	0.00	-0.0604	0.011	18.995	ug/L
|	Al	27	5601.572	0.01	0.3169	0.036	11.216	ug/L
⌊>	Sc	45	134448.282	134448.28				ug/L
⌈	Ti	49	136.681	0.00	0.2281	0.058	25.486	ug/L
|	V	51	2713.847	0.00	0.0598	0.013	21.907	ug/L
|	Cr	52	8913.060	0.00	0.1955	0.019	9.602	ug/L
|	Cr	53	396.715	0.00	0.1032	0.139	135.098	ug/L
|	Mn	55	253109.969	0.84	26.5129	0.239	0.902	ug/L
|	Co	59	103.668	0.00	0.0025	0.002	76.608	ug/L
|	Ni	60	129.335	0.00	0.0108	0.012	108.018	ug/L
|	Cu	65	248.006	0.00	0.0384	0.008	21.370	ug/L
|	Zn	66	2712.728	0.01	0.6294	0.049	7.864	ug/L
| >	Ge	72	302061.291	302061.29				ug/L
|	As	75	-138.302	-0.00	0.0948	0.012	12.688	ug/L
|	Se	77	55.333	0.00	0.0188	0.123	651.105	ug/L
|	Se	82	1.693	-0.00	0.3159	0.104	32.815	ug/L
⌊	Rb	85	141.002	0.00				mg/L
	Y	89	206191.124	-5466.44				ug/L
	Rh	103	26.334	13.67				ug/L
⌈	Mo	98	52.060	0.00	0.0208	0.002	10.152	ug/L
|	Ag	107	51.334	0.00	0.0091	0.001	8.859	ug/L
|	Cd	114	-1.378	0.00	0.0177	0.004	24.142	ug/L
| >	In	115	290443.020	290443.02				ug/L
|	Sn	118	187.468	0.00	-0.1095	0.002	1.811	ug/L
⌊	Sb	123	45.446	0.00	0.0067	0.003	45.846	ug/L
⌈	Ba	135	75.001	0.00	0.0185	0.004	22.333	ug/L
|	Ce	140	70.007	0.00				ug/L
⌊>	Tb	159	368001.380	368001.38				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	34.334	0.00	0.0007	0.000	50.988	ug/L
|	Tl	205	56.673	0.00	-0.0014	0.001	93.125	ug/L
|	Pb	206	310.675	0.00	-0.0002	0.001	614.356	ug/L
|	Pb	207	265.673	0.00	-0.0088	0.003	31.684	ug/L
|	Pb	208	1226.708	0.00	-0.0033	0.001	39.555	ug/L
|	U	238	4176.580	0.01	0.1271	0.000	0.234	ug/L
⌊>	Bi	209	321696.027	321696.03				ug/L

Sample ID: L1103057801 WG359563-01
Report Date/Time: Monday, March 28, 2011 13:15:36
Page 1

Approved: March 29, 2011

⌈	Na	23	16639830.067	123.79	4.5376	0.236	5.204	mg/L
|	Mg	24	2884200.475	21.46	1.1368	0.038	3.307	mg/L
|	K	39	561385.797	1.80	0.0422	0.003	7.107	mg/L
|	Ca	43	10443.164	0.08	0.8337	0.039	4.647	mg/L
|	Fe	54	31063.919	0.01	0.0032	0.006	182.709	mg/L
|	Fe	57	8087.418	0.02	0.0152	0.003	22.685	mg/L
⌊>	Sc-1	45	134448.282	134448.28				mg/L
	Cl	35	18700.140	4838.54				mg/L
	Kr	83	73.668	15.67				mg/L
	Br	81	9106.146	4216.28				mg/L
	P	31	4521.690	-895.11				mg/L
	S	34	257949.555	110534.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.109			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.595			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.031			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		93.279			
⌈	Na	23					

Sample ID: L1103057801 WG359563-01
Report Date/Time: Monday, March 28, 2011 13:15:36
Page 2

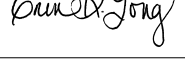
Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 29, 2011



Method 6020 - Summary Report

Sample ID: L1103057802S WG359563-06

Sample Date/Time: Monday, March 28, 2011 13:20:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 19
Method File: C:\elandata\Method\6020a.mth
Sample Description: 200

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18183.188	-0.01				ug/L
|	Be	9	53.333	0.00	0.0680	0.009	13.739	ug/L
|	Al	27	6869.026	0.01	0.4037	0.113	27.938	ug/L
⌊>	Sc	45	155079.369	155079.37				ug/L
⌈	Ti	49	180.020	0.00	0.3000	0.067	22.271	ug/L
|	V	51	3705.888	0.00	0.1648	0.008	4.970	ug/L
|	Cr	52	9721.489	0.00	0.2223	0.031	13.807	ug/L
|	Cr	53	450.055	0.00	0.1353	0.101	74.350	ug/L
|	Mn	55	280656.718	0.87	27.4535	0.207	0.756	ug/L
|	Co	59	1127.075	0.00	0.1328	0.003	2.075	ug/L
|	Ni	60	382.344	0.00	0.1610	0.015	9.464	ug/L
|	Cu	65	481.683	0.00	0.1678	0.010	6.203	ug/L
|	Zn	66	3897.465	0.01	1.5728	0.059	3.722	ug/L
| >	Ge	72	323500.812	323500.81				ug/L
|	As	75	-0.281	0.00	0.2380	0.042	17.475	ug/L
|	Se	77	71.334	0.00	0.1708	0.067	39.201	ug/L
|	Se	82	19.479	0.00	0.4944	0.148	29.983	ug/L
⌊	Rb	85	131.669	0.00				mg/L
	Y	89	222725.435	11067.87				ug/L
	Rh	103	20.667	8.00				ug/L
⌈	Mo	98	69.950	0.00	0.0257	0.000	0.664	ug/L
|	Ag	107	652.028	0.00	0.1120	0.006	5.233	ug/L
|	Cd	114	148.167	0.00	0.1402	0.008	5.446	ug/L
| >	In	115	314486.939	314486.94				ug/L
|	Sn	118	183.335	0.00	-0.1140	0.004	3.687	ug/L
⌊	Sb	123	545.051	0.00	0.1340	0.007	5.243	ug/L
⌈	Ba	135	288.674	0.00	0.1520	0.003	1.843	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	407085.823	407085.82				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	859.046	0.00	0.1183	0.009	7.278	ug/L
|	Tl	205	2013.737	0.01	0.1125	0.001	0.689	ug/L
|	Pb	206	1072.068	0.00	0.1287	0.009	7.218	ug/L
|	Pb	207	881.048	0.00	0.1016	0.004	3.962	ug/L
|	Pb	208	4240.067	0.01	0.1190	0.003	2.770	ug/L
|	U	238	8790.285	0.02	0.2489	0.002	0.861	ug/L
⌊>	Bi	209	356706.725	356706.73				ug/L

Sample ID: L1103057802S WG359563-06
Report Date/Time: Monday, March 28, 2011 13:22:23
Page 1

Approved: March 29, 2011

Na	23	16336081.059	105.42	3.8627	0.162	4.198	mg/L	
Mg	24	2768492.553	17.87	0.9445	0.032	3.375	mg/L	
K	39	569335.440	1.31	0.0280	0.006	22.937	mg/L	
Ca	43	11431.011	0.07	0.7903	0.065	8.283	mg/L	
Fe	54	32632.943	-0.01	-0.0034	0.004	123.755	mg/L	
Fe	57	7530.257	0.01	0.0065	0.003	40.467	mg/L	
> Sc-1	45	155079.369	155079.37				mg/L	
Cl	35	21418.249	7556.65				mg/L	
Kr	83	60.001	2.00				mg/L	
Br	81	8023.218	3133.36				mg/L	
P	31	5458.828	42.03				mg/L	
S	34	257559.447	110144.57				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		105.073			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		104.592			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		105.124			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.431			
Na	23					

Sample ID: L1103057802S WG359563-06
Report Date/Time: Monday, March 28, 2011 13:22:23
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103057802S WG359563-06
Report Date/Time: Monday, March 28, 2011 13:22:23
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057803SD WG359563-07

Sample Date/Time: Monday, March 28, 2011 13:26:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 20
Method File: C:\elandata\Method\6020a.mth
Sample Description: 200

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17565.436	-0.01				ug/L
|	Be	9	43.333	0.00	0.0407	0.031	75.821	ug/L
|	Al	27	6735.603	0.01	0.4459	0.072	16.201	ug/L
⌊>	Sc	45	147226.837	147226.84				ug/L
⌈	Ti	49	170.019	0.00	0.2937	0.188	63.958	ug/L
|	V	51	3533.166	0.00	0.1596	0.020	12.523	ug/L
|	Cr	52	9504.277	0.00	0.2436	0.063	26.037	ug/L
|	Cr	53	423.385	0.00	0.1223	0.108	88.697	ug/L
|	Mn	55	265945.743	0.85	26.9820	0.813	3.014	ug/L
|	Co	59	1075.735	0.00	0.1313	0.005	3.960	ug/L
|	Ni	60	348.343	0.00	0.1481	0.011	7.678	ug/L
|	Cu	65	435.014	0.00	0.1499	0.030	20.306	ug/L
|	Zn	66	2683.387	0.01	0.5129	0.054	10.619	ug/L
| >	Ge	72	312032.265	312032.26				ug/L
|	As	75	-24.630	0.00	0.2143	0.031	14.691	ug/L
|	Se	77	69.334	0.00	0.1767	0.181	102.610	ug/L
|	Se	82	14.038	0.00	0.4444	0.084	18.879	ug/L
⌊	Rb	85	126.002	0.00				mg/L
	Y	89	212516.312	858.75				ug/L
	Rh	103	24.667	12.00				ug/L
⌈	Mo	98	57.877	0.00	0.0221	0.002	7.771	ug/L
|	Ag	107	672.363	0.00	0.1198	0.003	2.380	ug/L
|	Cd	114	166.074	0.00	0.1601	0.019	12.074	ug/L
| >	In	115	303303.394	303303.39				ug/L
|	Sn	118	205.735	0.00	-0.1070	0.003	3.144	ug/L
⌊	Sb	123	525.756	0.00	0.1342	0.005	3.952	ug/L
⌈	Ba	135	253.006	0.00	0.1364	0.009	6.664	ug/L
|	Ce	140	46.671	0.00				ug/L
⌊>	Tb	159	389216.958	389216.96				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	880.048	0.00	0.1270	0.004	3.286	ug/L
|	Tl	205	2147.113	0.01	0.1262	0.014	11.019	ug/L
|	Pb	206	989.726	0.00	0.1221	0.003	2.457	ug/L
|	Pb	207	911.384	0.00	0.1152	0.007	6.404	ug/L
|	Pb	208	4112.043	0.01	0.1216	0.007	5.657	ug/L
|	U	238	8480.014	0.02	0.2513	0.011	4.243	ug/L
⌊>	Bi	209	341057.203	341057.20				ug/L

Sample ID: L1103057803SD WG359563-07
Report Date/Time: Monday, March 28, 2011 13:29:11
Page 1

Approved: March 29, 2011

⌈	Na	23	17562563.395	119.34	4.3741	0.211	4.829	mg/L
|	Mg	24	3096837.997	21.05	1.1149	0.057	5.096	mg/L
|	K	39	588769.173	1.63	0.0372	0.003	7.372	mg/L
|	Ca	43	10953.769	0.07	0.7961	0.043	5.427	mg/L
|	Fe	54	32572.264	-0.00	-0.0001	0.003	3670.350	mg/L
|	Fe	57	7670.376	0.01	0.0092	0.003	29.404	mg/L
⌊>	Sc-1	45	147226.837	147226.84				mg/L
	Cl	35	18533.826	4672.22				mg/L
	Kr	83	72.334	14.33				mg/L
	Br	81	7110.528	2220.67				mg/L
	P	31	5098.635	-318.17				mg/L
	S	34	272134.521	124719.65				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.348			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.872			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.510			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.893			
⌈	Na	23					

Sample ID: L1103057803SD WG359563-07
Report Date/Time: Monday, March 28, 2011 13:29:11
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103057803SD WG359563-07
Report Date/Time: Monday, March 28, 2011 13:29:11
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 28, 2011 13:33:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16847.534	-0.00				ug/L
|	Be	9	13046.507	0.09	52.9948	1.708	3.223	ug/L
|	Al	27	234878.989	1.67	52.1559	1.448	2.776	ug/L
|>	Sc	45	137523.738	137523.74				ug/L
⌈	Ti	49	45276.786	0.15	102.8970	0.411	0.399	ug/L
|	V	51	363120.802	1.19	50.6404	0.496	0.980	ug/L
|	Cr	52	319936.047	1.03	50.9393	0.562	1.102	ug/L
|	Cr	53	36710.938	0.12	49.7804	0.859	1.726	ug/L
|	Mn	55	489033.966	1.61	51.1318	0.690	1.349	ug/L
|	Co	59	374829.096	1.24	51.3123	0.320	0.623	ug/L
|	Ni	60	78993.622	0.26	51.8712	0.828	1.597	ug/L
|	Cu	65	81289.595	0.27	51.8342	0.743	1.432	ug/L
|	Zn	66	52101.907	0.17	50.7654	0.500	0.986	ug/L
|>	Ge	72	302978.296	302978.30				ug/L
|	As	75	49476.659	0.16	51.4899	0.149	0.290	ug/L
|	Se	77	3983.461	0.01	52.7362	2.108	3.998	ug/L
|	Se	82	4842.999	0.02	52.5647	1.365	2.597	ug/L
⌊	Rb	85	1894.198	0.01				mg/L
	Y	89	209955.461	-1702.10				ug/L
	Rh	103	26.667	14.00				ug/L
⌈	Mo	98	267740.506	0.89	101.1534	1.110	1.098	ug/L
|	Ag	107	279712.367	0.93	50.5615	0.232	0.458	ug/L
|	Cd	114	59367.174	0.20	50.9073	0.428	0.841	ug/L
|>	In	115	300274.904	300274.90				ug/L
|	Sn	118	207147.192	0.69	50.4232	0.446	0.885	ug/L
⌊	Sb	123	187592.411	0.62	50.4602	0.644	1.276	ug/L
⌈	Ba	135	75850.037	0.19	51.3104	0.143	0.278	ug/L
|	Ce	140	60.006	0.00				ug/L
|>	Tb	159	390309.797	390309.80				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	325234.606	0.99	50.5046	0.906	1.794	ug/L
|	Tl	205	798795.249	2.43	50.5894	0.360	0.712	ug/L
|	Pb	206	265798.317	0.81	50.9980	0.467	0.916	ug/L
|	Pb	207	249336.054	0.76	50.8503	0.657	1.291	ug/L
|	Pb	208	1107461.875	3.36	50.9583	0.648	1.271	ug/L
|	U	238	1743894.977	5.30	55.4229	0.596	1.075	ug/L
|>	Bi	209	328812.870	328812.87				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 13:35:58
Page 1

Approved: March 29, 2011

Na	23	20092103.447	146.18	5.3606	0.253	4.710	mg/L	
Mg	24	13701966.576	99.76	5.3302	0.232	4.345	mg/L	
K	39	25974044.199	186.82	5.3038	0.311	5.868	mg/L	
Ca	43	64752.109	0.47	5.3285	0.268	5.036	mg/L	
Fe	54	2263818.900	16.26	5.2259	0.302	5.771	mg/L	
Fe	57	961949.393	6.97	5.2581	0.237	4.514	mg/L	
> Sc-1	45	137523.738	137523.74				mg/L	
Cl	35	12998.444	-863.16				mg/L	
Kr	83	67.668	9.67				mg/L	
Br	81	5825.030	935.17				mg/L	
P	31	5200.021	-216.78				mg/L	
S	34	139377.628	-8037.24				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	101.281				
Cr	52	101.879				
Cr	53					
Mn	55	102.264				
Co	59	102.625				
Ni	60	103.742				
Cu	65	103.668				
Zn	66	101.531				
> Ge	72		98.407			
As	75	102.980				
Se	77					
Se	82	105.129				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.123				
Cd	114	101.815				
> In	115		99.865			
Sn	118					
Sb	123	100.920				
Ba	135	102.621				
Ce	140					
> Tb	159		100.792			
Ho	165					
Tl	203	101.009				
Tl	205					
Pb	206					
Pb	207					
Pb	208	101.917				
U	238	110.846				
> Bi	209		95.343			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 13:35:58

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 13:35:58
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 28, 2011 13:41:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15895.989	-0.01				ug/L
|	Be	9	14.000	0.00	-0.0671	0.016	23.412	ug/L
|	Al	27	4867.851	0.00	0.1232	0.054	44.163	ug/L
|>	Sc	45	137607.716	137607.72				ug/L
⌈	Ti	49	56.673	-0.00	0.0460	0.073	159.745	ug/L
|	V	51	2199.021	-0.00	-0.0108	0.009	83.921	ug/L
|	Cr	52	7359.781	-0.00	-0.0513	0.021	41.830	ug/L
|	Cr	53	266.697	-0.00	-0.0737	0.012	16.284	ug/L
|	Mn	55	334.009	-0.00	-0.0304	0.001	4.756	ug/L
|	Co	59	57.001	-0.00	-0.0039	0.001	19.203	ug/L
|	Ni	60	40.000	-0.00	-0.0479	0.001	1.402	ug/L
|	Cu	65	151.336	0.00	-0.0229	0.006	27.419	ug/L
|	Zn	66	346.343	-0.00	-1.7784	0.013	0.738	ug/L
|>	Ge	72	300246.353	300246.35				ug/L
|	As	75	-91.725	0.00	0.1433	0.086	59.973	ug/L
|	Se	77	61.334	0.00	0.1062	0.171	161.293	ug/L
|	Se	82	21.166	0.00	0.5301	0.237	44.746	ug/L
⌊	Rb	85	31.667	0.00				mg/L
	Y	89	210085.235	-1572.33				ug/L
	Rh	103	14.000	1.33				ug/L
⌈	Mo	98	96.764	0.00	0.0375	0.002	6.465	ug/L
|	Ag	107	36.000	0.00	0.0061	0.001	14.484	ug/L
|	Cd	114	-8.134	-0.00	0.0119	0.002	14.225	ug/L
|>	In	115	296167.907	296167.91				ug/L
|	Sn	118	258.670	0.00	-0.0927	0.004	4.121	ug/L
⌊	Sb	123	52.026	0.00	0.0083	0.001	10.748	ug/L
⌈	Ba	135	22.334	-0.00	-0.0200	0.007	34.061	ug/L
|	Ce	140	13.335	-0.00				ug/L
|>	Tb	159	384785.106	384785.11				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	42.334	0.00	0.0019	0.002	128.085	ug/L
|	Tl	205	50.005	0.00	-0.0019	0.001	32.019	ug/L
|	Pb	206	296.341	0.00	-0.0041	0.005	127.845	ug/L
|	Pb	207	256.006	-0.00	-0.0119	0.002	16.816	ug/L
|	Pb	208	1178.706	0.00	-0.0066	0.001	18.212	ug/L
|	U	238	100.335	0.00	-0.0054	0.001	11.110	ug/L
|>	Bi	209	328172.383	328172.38				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 13:43:12
Page 1

Approved: March 29, 2011

Erin D. Long

Na	23	20830.422	0.06	-0.0092	0.000	1.731	mg/L
Mg	24	533.402	0.00	-0.0127	0.000	0.435	mg/L
K	39	351243.692	0.18	-0.0040	0.003	66.898	mg/L
Ca	43	323.371	0.00	-0.0266	0.002	7.646	mg/L
Fe	54	31101.027	0.00	0.0015	0.001	44.670	mg/L
Fe	57	5178.526	-0.00	-0.0018	0.001	49.533	mg/L
> Sc-1	45	137607.716	137607.72				mg/L
Cl	35	12095.978	-1765.63				mg/L
Kr	83	57.667	-0.33				mg/L
Br	81	5682.281	792.42				mg/L
P	31	4735.791	-681.01				mg/L
S	34	131048.514	-16366.36				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		97.520			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		98.499			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		99.365			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		95.157			
Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 13:43:12
Page 2

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 7	Se	82	CCB IS OUT OF LIMITS (+/-1/2RL)

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 13:43:12
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057801PS WG359640-03

Sample Date/Time: Monday, March 28, 2011 13:47:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21389.525	0.03				ug/L
|	Be	9	12756.283	0.09	52.6128	8.761	16.652	ug/L
|	Al	27	233054.231	1.69	52.5633	9.145	17.398	ug/L
⌊>	Sc	45	135309.987	135309.99				ug/L
⌈	Ti	49	2507.233	0.01	5.8030	0.472	8.139	ug/L
|	V	51	374213.472	1.27	53.8994	9.828	18.234	ug/L
|	Cr	52	323942.912	1.08	53.3125	9.638	18.079	ug/L
|	Cr	53	37094.234	0.13	51.9477	10.532	20.275	ug/L
|	Mn	55	9783247.911	33.35	1057.6894	11.607	1.097	ug/L
|	Co	59	375719.276	1.28	53.1099	9.579	18.036	ug/L
|	Ni	60	81581.771	0.28	55.3178	9.279	16.775	ug/L
|	Cu	65	80856.796	0.28	53.2343	8.647	16.243	ug/L
|	Zn	66	52024.421	0.18	52.4026	9.239	17.631	ug/L
| >	Ge	72	293399.018	293399.02				ug/L
|	As	75	49555.949	0.17	53.2400	8.738	16.413	ug/L
|	Se	77	4003.479	0.01	54.7577	8.132	14.851	ug/L
|	Se	82	4862.669	0.02	54.4846	8.747	16.054	ug/L
⌊	Rb	85	3822.102	0.01				mg/L
	Y	89	204156.506	-7501.06				ug/L
	Rh	103	197.337	184.67				ug/L
⌈	Mo	98	1003.425	0.00	0.4019	0.028	6.943	ug/L
|	Ag	107	249973.534	0.88	47.7958	6.801	14.230	ug/L
|	Cd	114	54784.971	0.19	49.7294	9.826	19.758	ug/L
| >	In	115	283912.949	283912.95				ug/L
|	Sn	118	242.136	0.00	-0.0942	0.002	1.879	ug/L
⌊	Sb	123	185439.490	0.65	52.7692	9.355	17.728	ug/L
⌈	Ba	135	74166.677	0.20	52.6890	9.658	18.330	ug/L
|	Ce	140	546.736	0.00				ug/L
⌊>	Tb	159	371764.171	371764.17				ug/L
⌈	Ho	165	73.341	0.00				ug/L
|	Tl	203	311895.823	1.06	54.0267	8.087	14.968	ug/L
|	Tl	205	773114.295	2.62	54.6146	7.799	14.281	ug/L
|	Pb	206	261175.273	0.89	55.9027	9.962	17.820	ug/L
|	Pb	207	231139.396	0.78	52.5832	9.604	18.264	ug/L
|	Pb	208	1067479.813	3.62	54.7935	9.687	17.680	ug/L
|	U	238	1720659.486	5.84	61.0055	10.018	16.422	ug/L
⌊>	Bi	209	294723.822	294723.82				ug/L

Sample ID: L1103057801PS WG359640-03
Report Date/Time: Monday, March 28, 2011 13:50:00
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	104034982.790	769.27	41.1881	0.972	2.359	mg/L
|	K	39	7137065.771	50.40	1.4243	0.042	2.956	mg/L
|	Ca	43	376643.794	2.78	31.7326	0.753	2.374	mg/L
|	Fe	54	36806.605	0.05	0.0163	0.004	21.893	mg/L
|	Fe	57	18048.079	0.09	0.0706	0.005	7.290	mg/L
⌊>	Sc-1	45	135309.987	135309.99				mg/L
	Cl	35	201744.761	187883.16				mg/L
	Kr	83	71.001	13.00				mg/L
	Br	81	41190.731	36300.87				mg/L
	P	31	5978.464	561.66				mg/L
	S	34	3502980.505	3355565.63				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.296			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.424			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.003			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		85.458			
⌈	Na	23					

Sample ID: L1103057801PS WG359640-03
Report Date/Time: Monday, March 28, 2011 13:50:00
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103057801PS WG359640-03
Report Date/Time: Monday, March 28, 2011 13:50:00
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057801SDL WG359640-04

Sample Date/Time: Monday, March 28, 2011 13:54:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 22
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20771.567	0.01				ug/L
|	Be	9	14.000	0.00	-0.0723	0.031	43.109	ug/L
|	Al	27	24179.389	0.13	4.0301	0.625	15.505	ug/L
⌊>	Sc	45	150474.526	150474.53				ug/L
⌈	Ti	49	550.070	0.00	1.0753	0.157	14.554	ug/L
|	V	51	2909.650	0.00	0.0558	0.007	12.277	ug/L
|	Cr	52	9410.521	0.00	0.1583	0.015	9.550	ug/L
|	Cr	53	346.708	-0.00	-0.0034	0.112	3279.289	ug/L
|	Mn	55	2090417.843	6.39	202.5591	1.443	0.712	ug/L
|	Co	59	433.347	0.00	0.0432	0.004	8.687	ug/L
|	Ni	60	824.709	0.00	0.4275	0.029	6.693	ug/L
|	Cu	65	585.023	0.00	0.2257	0.007	3.087	ug/L
|	Zn	66	4289.630	0.01	1.8989	0.037	1.975	ug/L
|>	Ge	72	327250.068	327250.07				ug/L
|	As	75	-43.947	0.00	0.1960	0.061	31.115	ug/L
|	Se	77	69.334	0.00	0.1345	0.192	142.542	ug/L
|	Se	82	28.424	0.00	0.5807	0.170	29.263	ug/L
⌊	Rb	85	894.716	0.00				mg/L
	Y	89	221743.861	10086.30				ug/L
	Rh	103	54.667	42.00				ug/L
⌈	Mo	98	248.658	0.00	0.0909	0.008	9.190	ug/L
|	Ag	107	65.334	0.00	0.0109	0.001	13.003	ug/L
|	Cd	114	-3.086	-0.00	0.0164	0.003	16.381	ug/L
|>	In	115	311980.162	311980.16				ug/L
|	Sn	118	450.677	0.00	-0.0509	0.002	3.152	ug/L
⌊	Sb	123	402.704	0.00	0.0986	0.014	14.359	ug/L
⌈	Ba	135	404.346	0.00	0.2299	0.015	6.691	ug/L
|	Ce	140	166.685	0.00				ug/L
⌊>	Tb	159	402709.365	402709.36				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	52.334	0.00	0.0030	0.002	81.975	ug/L
|	Tl	205	123.346	0.00	0.0024	0.002	95.154	ug/L
|	Pb	206	362.344	0.00	0.0054	0.004	71.078	ug/L
|	Pb	207	326.675	0.00	-0.0004	0.002	419.284	ug/L
|	Pb	208	1466.390	0.00	0.0036	0.001	20.897	ug/L
|	U	238	35365.803	0.10	1.0668	0.015	1.365	ug/L
⌊>	Bi	209	343695.918	343695.92				ug/L

Sample ID: L1103057801SDL WG359640-04
Report Date/Time: Monday, March 28, 2011 13:56:48
Page 1

Approved: March 29, 2011

⌈	Na	23	135941719.541	903.59	33.1941	0.597	1.798	mg/L
|	Mg	24	23985530.160	159.48	8.5289	0.206	2.415	mg/L
|	K	39	1855159.923	9.96	0.2742	0.010	3.806	mg/L
|	Ca	43	83613.124	0.55	6.2940	0.235	3.732	mg/L
|	Fe	54	35485.119	0.01	0.0047	0.004	91.134	mg/L
|	Fe	57	9635.606	0.03	0.0181	0.002	12.198	mg/L
⌊>	Sc-1	45	150474.526	150474.53				mg/L
	Cl	35	55132.919	41271.32				mg/L
	Kr	83	66.334	8.33				mg/L
	Br	81	14489.160	9599.30				mg/L
	P	31	5481.503	64.70				mg/L
	S	34	1090356.264	942941.39				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.290			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.758			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.994			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.658			
⌈	Na	23					

Sample ID: L1103057801SDL WG359640-04
Report Date/Time: Monday, March 28, 2011 13:56:48
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103057801PS WG359640-03

Sample Date/Time: Monday, March 28, 2011 14:01:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 23
Method File: C:\elandata\Method\6020a.mth
Sample Description: 200

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19786.263	-0.00				ug/L
|	Be	9	14315.578	0.09	50.7601	2.287	4.506	ug/L
|	Al	27	247953.950	1.54	47.9889	0.870	1.812	ug/L
⌊>	Sc	45	157497.785	157497.79				ug/L
⌈	Ti	49	183.353	0.00	0.2945	0.114	38.610	ug/L
|	V	51	389499.221	1.16	49.2769	0.263	0.533	ug/L
|	Cr	52	351141.460	1.03	50.7210	0.406	0.801	ug/L
|	Cr	53	41125.197	0.12	50.5989	0.893	1.764	ug/L
|	Mn	55	822432.173	2.46	78.0473	1.233	1.580	ug/L
|	Co	59	409537.761	1.23	50.8641	0.884	1.739	ug/L
|	Ni	60	86465.466	0.26	51.5134	0.586	1.138	ug/L
|	Cu	65	90224.889	0.27	52.1971	0.762	1.461	ug/L
|	Zn	66	58240.395	0.17	51.5134	0.630	1.223	ug/L
|>	Ge	72	333933.515	333933.52				ug/L
|	As	75	52296.063	0.16	49.3884	0.227	0.460	ug/L
|	Se	77	4244.901	0.01	50.9658	1.187	2.328	ug/L
|	Se	82	5156.148	0.02	50.7816	1.168	2.301	ug/L
⌊	Rb	85	131.336	0.00				mg/L
	Y	89	232269.787	20612.22				ug/L
	Rh	103	46.334	33.67				ug/L
⌈	Mo	98	83.763	0.00	0.0300	0.007	24.549	ug/L
|	Ag	107	301306.179	0.93	50.7273	0.299	0.588	ug/L
|	Cd	114	62852.509	0.19	50.1868	0.665	1.326	ug/L
|>	In	115	322416.894	322416.89				ug/L
|	Sn	118	224.936	0.00	-0.1056	0.003	2.817	ug/L
⌊	Sb	123	197354.625	0.61	49.4336	0.218	0.442	ug/L
⌈	Ba	135	79353.094	0.19	50.0770	0.311	0.621	ug/L
|	Ce	140	76.675	0.00				ug/L
⌊>	Tb	159	418372.486	418372.49				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	346282.845	0.96	49.0837	0.526	1.072	ug/L
|	Tl	205	855434.362	2.37	49.4536	0.648	1.310	ug/L
|	Pb	206	291471.397	0.81	51.0471	0.539	1.057	ug/L
|	Pb	207	258705.384	0.72	48.1550	0.353	0.732	ug/L
|	Pb	208	1188996.176	3.30	49.9366	0.360	0.721	ug/L
|	U	238	1729985.762	4.80	50.1826	0.680	1.356	ug/L
⌊>	Bi	209	360224.025	360224.03				ug/L

Sample ID: L1103057801PS WG359640-03
Report Date/Time: Monday, March 28, 2011 14:03:33
Page 1

Approved: March 29, 2011

⌈	Na	23	18171337.666	115.32	4.2266	0.155	3.675	mg/L
|	Mg	24	3210718.720	20.39	1.0793	0.032	2.979	mg/L
|	K	39	601825.866	1.45	0.0321	0.003	9.263	mg/L
|	Ca	43	11728.054	0.07	0.7965	0.028	3.509	mg/L
|	Fe	54	35998.509	0.00	0.0023	0.005	194.923	mg/L
|	Fe	57	7220.005	0.01	0.0044	0.003	62.854	mg/L
⌊>	Sc-1	45	157497.785	157497.79				mg/L
	Cl	35	18204.555	4342.95				mg/L
	Kr	83	69.334	11.33				mg/L
	Br	81	7532.837	2642.97				mg/L
	P	31	5792.348	375.55				mg/L
	S	34	270733.512	123318.64				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		108.461			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.229			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.039			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.451			
⌈	Na	23					

Sample ID: L1103057801PS WG359640-03
Report Date/Time: Monday, March 28, 2011 14:03:33
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103057801PS WG359640-03
Report Date/Time: Monday, March 28, 2011 14:03:33
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 28, 2011 14:08:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19001.373	-0.00				ug/L
|	Be	9	14206.751	0.09	51.1445	1.019	1.993	ug/L
|	Al	27	254190.458	1.60	50.0031	0.196	0.392	ug/L
|>	Sc	45	155059.822	155059.82				ug/L
⌈	Ti	49	49668.058	0.15	101.4805	1.613	1.590	ug/L
|	V	51	397757.474	1.17	49.8798	0.839	1.682	ug/L
|	Cr	52	350716.752	1.01	50.1940	0.705	1.405	ug/L
|	Cr	53	39876.691	0.12	48.6168	1.414	2.909	ug/L
|	Mn	55	534653.390	1.59	50.2661	0.380	0.756	ug/L
|	Co	59	407646.971	1.21	50.1831	0.749	1.492	ug/L
|	Ni	60	86426.067	0.26	51.0353	0.832	1.630	ug/L
|	Cu	65	88947.155	0.26	51.0091	1.598	3.132	ug/L
|	Zn	66	56804.789	0.17	49.7266	0.219	0.441	ug/L
|>	Ge	72	336955.390	336955.39				ug/L
|	As	75	53853.040	0.16	50.3999	0.746	1.480	ug/L
|	Se	77	4292.921	0.01	51.0933	1.353	2.648	ug/L
|	Se	82	5209.184	0.02	50.8492	0.343	0.675	ug/L
⌊	Rb	85	2111.577	0.01				mg/L
	Y	89	228853.106	17195.54				ug/L
	Rh	103	28.000	15.33				ug/L
⌈	Mo	98	288194.196	0.87	99.1677	1.607	1.620	ug/L
|	Ag	107	304141.562	0.92	50.0747	0.276	0.550	ug/L
|	Cd	114	63958.182	0.19	49.9467	0.244	0.489	ug/L
|>	In	115	329691.056	329691.06				ug/L
|	Sn	118	221005.905	0.67	48.9908	0.008	0.017	ug/L
⌊	Sb	123	200512.241	0.61	49.1201	0.410	0.835	ug/L
⌈	Ba	135	80773.047	0.19	50.2248	0.369	0.736	ug/L
|	Ce	140	46.672	0.00				ug/L
|>	Tb	159	424622.637	424622.64				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	351390.687	0.97	49.6697	0.387	0.779	ug/L
|	Tl	205	860917.845	2.38	49.6319	0.622	1.254	ug/L
|	Pb	206	285530.273	0.79	49.8697	0.673	1.349	ug/L
|	Pb	207	269568.451	0.75	50.0403	0.084	0.167	ug/L
|	Pb	208	1197216.293	3.31	50.1437	0.397	0.792	ug/L
|	U	238	1906215.395	5.28	55.1436	0.025	0.046	ug/L
|>	Bi	209	361222.744	361222.74				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 14:10:20
Page 1

Approved: March 29, 2011

Na	23	22020526.766	141.96	5.2054	0.129	2.485	mg/L	
Mg	24	14914874.429	96.19	5.1393	0.046	0.895	mg/L	
K	39	28517427.104	181.56	5.1541	0.061	1.182	mg/L	
Ca	43	69984.364	0.45	5.0987	0.059	1.165	mg/L	
Fe	54	2552209.226	16.24	5.2185	0.173	3.307	mg/L	
Fe	57	1063703.226	6.82	5.1507	0.132	2.568	mg/L	
> Sc-1	45	155059.822	155059.82				mg/L	
Cl	35	12352.293	-1509.31				mg/L	
Kr	83	68.334	10.33				mg/L	
Br	81	6111.202	1221.34				mg/L	
P	31	6378.045	961.24				mg/L	
S	34	142643.771	-4771.10				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	99.760				
Cr	52	100.388				
Cr	53					
Mn	55	100.532				
Co	59	100.366				
Ni	60	102.071				
Cu	65	102.018				
Zn	66	99.453				
> Ge	72		109.443			
As	75	100.800				
Se	77					
Se	82	101.698				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.149				
Cd	114	99.893				
> In	115		109.648			
Sn	118					
Sb	123	98.240				
Ba	135	100.450				
Ce	140					
> Tb	159		109.653			
Ho	165					
Tl	203	99.339				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.287				
U	238	110.287				
> Bi	209		104.740			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 14:10:20

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 14:10:20
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 28, 2011 14:15:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17565.446	-0.01				ug/L
|	Be	9	8.667	-0.00	-0.0927	0.003	3.694	ug/L
|	Al	27	5168.009	-0.00	0.0637	0.129	201.919	ug/L
⌊>	Sc	45	154705.254	154705.25				ug/L
⌈	Ti	49	60.006	-0.00	0.0400	0.042	104.762	ug/L
|	V	51	2366.326	-0.00	-0.0214	0.003	12.307	ug/L
|	Cr	52	7906.204	-0.00	-0.0945	0.008	8.494	ug/L
|	Cr	53	263.363	-0.00	-0.1158	0.080	68.798	ug/L
|	Mn	55	369.344	-0.00	-0.0307	0.002	6.982	ug/L
|	Co	59	62.667	-0.00	-0.0040	0.001	26.593	ug/L
|	Ni	60	42.667	-0.00	-0.0491	0.001	1.219	ug/L
|	Cu	65	169.003	0.00	-0.0227	0.005	24.172	ug/L
|	Zn	66	412.679	-0.00	-1.7537	0.007	0.391	ug/L
|>	Ge	72	334405.396	334405.40				ug/L
|	As	75	-107.800	0.00	0.1375	0.015	10.878	ug/L
|	Se	77	59.334	0.00	-0.0030	0.165	5526.145	ug/L
|	Se	82	7.751	-0.00	0.3735	0.029	7.812	ug/L
⌊	Rb	85	28.667	0.00				mg/L
	Y	89	231844.079	20186.52				ug/L
	Rh	103	17.000	4.33				ug/L
⌈	Mo	98	108.947	0.00	0.0378	0.004	11.519	ug/L
|	Ag	107	41.667	0.00	0.0063	0.001	14.275	ug/L
|	Cd	114	1.355	0.00	0.0200	0.000	1.187	ug/L
|>	In	115	331169.816	331169.82				ug/L
|	Sn	118	278.937	0.00	-0.0950	0.005	5.181	ug/L
⌊	Sb	123	203.368	0.00	0.0437	0.003	7.553	ug/L
⌈	Ba	135	26.667	-0.00	-0.0186	0.002	9.547	ug/L
|	Ce	140	33.337	-0.00				ug/L
⌊>	Tb	159	422106.737	422106.74				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	43.334	0.00	0.0014	0.000	35.828	ug/L
|	Tl	205	70.007	0.00	-0.0011	0.001	104.767	ug/L
|	Pb	206	334.342	0.00	-0.0029	0.001	30.363	ug/L
|	Pb	207	290.007	-0.00	-0.0105	0.005	47.854	ug/L
|	Pb	208	1344.049	0.00	-0.0049	0.001	29.598	ug/L
|	U	238	112.335	0.00	-0.0054	0.001	9.907	ug/L
⌊>	Bi	209	362347.555	362347.55				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 14:17:34
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	26557.893	0.08	-0.0084	0.000	4.556	mg/L
|	Mg	24	450.055	0.00	-0.0127	0.000	0.193	mg/L
|	K	39	368223.112	0.01	-0.0089	0.003	32.816	mg/L
|	Ca	43	323.371	-0.00	-0.0294	0.008	25.844	mg/L
|	Fe	54	33684.331	-0.01	-0.0012	0.003	215.282	mg/L
|	Fe	57	5668.852	-0.00	-0.0026	0.002	79.422	mg/L
⌊>	Sc-1	45	154705.254	154705.25				mg/L
	Cl	35	12250.834	-1610.77				mg/L
	Kr	83	67.001	9.00				mg/L
	Br	81	6243.282	1353.42				mg/L
	P	31	6476.764	1059.96				mg/L
	S	34	145022.721	-2392.15				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		108.614			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.140			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.003			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.066			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 14:17:34
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 14:17:34
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: PBW 81 WG359793-04

Sample Date/Time: Monday, March 28, 2011 14:24:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 24
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20103.585	-0.01				ug/L
|	Be	9	11.333	-0.00	-0.0855	0.021	24.895	ug/L
|	Al	27	17264.931	0.07	2.2578	0.249	11.024	ug/L
⌊>	Sc	45	166120.250	166120.25				ug/L
⌈	Ti	49	96.677	0.00	0.1057	0.047	44.384	ug/L
|	V	51	2518.692	-0.00	-0.0169	0.016	95.559	ug/L
|	Cr	52	9486.927	0.00	0.0738	0.004	6.019	ug/L
|	Cr	53	400.048	0.00	0.0318	0.129	404.686	ug/L
|	Mn	55	1856.191	0.00	0.1022	0.004	4.005	ug/L
|	Co	59	95.668	0.00	-0.0005	0.001	139.888	ug/L
|	Ni	60	146.003	0.00	0.0085	0.016	193.745	ug/L
|	Cu	65	357.343	0.00	0.0767	0.003	3.602	ug/L
|	Zn	66	5004.969	0.01	2.2561	0.008	0.339	ug/L
|>	Ge	72	350749.867	350749.87				ug/L
|	As	75	-156.723	-0.00	0.0983	0.014	14.683	ug/L
|	Se	77	54.000	-0.00	-0.0987	0.092	93.471	ug/L
|	Se	82	-4.278	-0.00	0.2581	0.038	14.552	ug/L
⌊	Rb	85	63.668	0.00				mg/L
	Y	89	243022.605	31365.04				ug/L
	Rh	103	17.334	4.67				ug/L
⌈	Mo	98	70.284	0.00	0.0235	0.001	5.733	ug/L
|	Ag	107	43.667	0.00	0.0064	0.000	6.173	ug/L
|	Cd	114	-1.123	0.00	0.0182	0.007	40.159	ug/L
|>	In	115	346115.653	346115.65				ug/L
|	Sn	118	637.620	0.00	-0.0217	0.004	16.896	ug/L
⌊	Sb	123	184.824	0.00	0.0371	0.006	15.478	ug/L
⌈	Ba	135	202.004	0.00	0.0853	0.022	25.421	ug/L
|	Ce	140	116.679	0.00				ug/L
⌊>	Tb	159	441885.312	441885.31				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	38.000	0.00	0.0004	0.001	163.588	ug/L
|	Tl	205	63.340	0.00	-0.0016	0.001	53.159	ug/L
|	Pb	206	402.345	0.00	0.0066	0.004	61.028	ug/L
|	Pb	207	348.676	0.00	-0.0018	0.003	159.399	ug/L
|	Pb	208	1615.734	0.00	0.0042	0.001	31.714	ug/L
|	U	238	88.001	0.00	-0.0062	0.000	3.938	ug/L
⌊>	Bi	209	374896.311	374896.31				ug/L

Sample ID: PBW 81 WG359793-04
Report Date/Time: Monday, March 28, 2011 14:26:55
Page 1

Approved: March 29, 2011

⌈	Na	23	141042.539	0.76	0.0165	0.001	8.218	mg/L
|	Mg	24	94830.324	0.57	0.0177	0.001	5.946	mg/L
|	K	39	448462.877	0.33	0.0003	0.003	1345.687	mg/L
|	Ca	43	1270.208	0.01	0.0338	0.002	7.097	mg/L
|	Fe	54	73564.574	0.22	0.0714	0.008	11.884	mg/L
|	Fe	57	7099.897	0.00	0.0020	0.001	47.642	mg/L
⌊>	Sc-1	45	166120.250	166120.25				mg/L
	Cl	35	26862.700	13001.10				mg/L
	Kr	83	70.334	12.33				mg/L
	Br	81	8404.867	3515.00				mg/L
	P	31	13326.281	7909.48				mg/L
	S	34	154109.238	6694.37				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.923			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		115.111			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		114.111			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		108.705			
⌈	Na	23					

Sample ID: PBW 81 WG359793-04
Report Date/Time: Monday, March 28, 2011 14:26:55
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 81 WG359793-04
Report Date/Time: Monday, March 28, 2011 14:26:55

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: LCSW 81 WG359793-05

Sample Date/Time: Monday, March 28, 2011 14:31:29
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 25
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18767.631	-0.01				ug/L
|	Be	9	6544.142	0.04	22.9580	0.588	2.561	ug/L
|	Al	27	133672.219	0.81	25.2391	1.510	5.983	ug/L
⌊>	Sc	45	158683.612	158683.61				ug/L
⌈	Ti	49	113.345	0.00	0.1534	0.064	41.644	ug/L
|	V	51	202091.618	0.61	25.7747	0.232	0.900	ug/L
|	Cr	52	185102.692	0.54	26.5264	0.261	0.982	ug/L
|	Cr	53	21104.369	0.06	26.1228	0.821	3.141	ug/L
|	Mn	55	293825.165	0.89	28.2371	0.168	0.593	ug/L
|	Co	59	208039.597	0.63	26.1980	0.455	1.735	ug/L
|	Ni	60	43841.682	0.13	26.4525	0.432	1.633	ug/L
|	Cu	65	45426.409	0.14	26.5935	0.340	1.280	ug/L
|	Zn	66	40044.092	0.12	35.2750	0.516	1.463	ug/L
| >	Ge	72	329288.643	329288.64				ug/L
|	As	75	24516.348	0.07	23.6051	0.226	0.957	ug/L
|	Se	77	1860.840	0.01	22.2541	0.485	2.180	ug/L
|	Se	82	2214.104	0.01	22.2834	0.433	1.941	ug/L
⌊	Rb	85	47.001	0.00				mg/L
	Y	89	232819.164	21161.60				ug/L
	Rh	103	26.334	13.67				ug/L
⌈	Mo	98	63.909	0.00	0.0223	0.002	8.392	ug/L
|	Ag	107	141482.730	0.43	23.1739	0.324	1.397	ug/L
|	Cd	114	30414.532	0.09	23.6404	0.303	1.281	ug/L
| >	In	115	331382.964	331382.96				ug/L
|	Sn	118	211.869	0.00	-0.1099	0.001	1.187	ug/L
⌊	Sb	123	96787.646	0.29	23.5849	0.255	1.082	ug/L
⌈	Ba	135	41170.322	0.10	25.4652	0.065	0.257	ug/L
|	Ce	140	100.011	0.00				ug/L
⌊>	Tb	159	426575.149	426575.15				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	176236.196	0.49	25.0537	0.565	2.255	ug/L
|	Tl	205	432750.959	1.21	25.0964	0.990	3.946	ug/L
|	Pb	206	149812.620	0.42	26.2931	0.986	3.749	ug/L
|	Pb	207	132673.661	0.37	24.7373	0.368	1.489	ug/L
|	Pb	208	608323.661	1.69	25.5969	0.561	2.193	ug/L
|	U	238	880215.267	2.45	25.6064	0.730	2.850	ug/L
⌊>	Bi	209	359219.624	359219.62				ug/L

Sample ID: LCSW 81 WG359793-05
Report Date/Time: Monday, March 28, 2011 14:33:41
Page 1

Approved: March 29, 2011

⌈	Na	23	87937.417	0.46	0.0056	0.001	19.255	mg/L
|	Mg	24	23596.847	0.15	-0.0049	0.000	7.017	mg/L
|	K	39	396699.032	0.13	-0.0055	0.002	29.522	mg/L
|	Ca	43	740.101	0.00	-0.0001	0.004	6213.099	mg/L
|	Fe	54	69534.763	0.21	0.0697	0.007	9.979	mg/L
|	Fe	57	5755.567	-0.00	-0.0028	0.002	77.621	mg/L
⌊>	Sc-1	45	158683.612	158683.61				mg/L
	Cl	35	22383.024	8521.42				mg/L
	Kr	83	58.667	0.67				mg/L
	Br	81	6800.317	1910.45				mg/L
	P	31	11738.931	6322.13				mg/L
	S	34	140503.990	-6910.88				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.952			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.211			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.157			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.159			
⌈	Na	23					

Sample ID: LCSW 81 WG359793-05
Report Date/Time: Monday, March 28, 2011 14:33:41
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 81 WG359793-05
Report Date/Time: Monday, March 28, 2011 14:33:41
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103074401

Sample Date/Time: Monday, March 28, 2011 14:38:15
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19168.391	-0.01				ug/L
|	Be	9	16.667	0.00	-0.0649	0.023	34.921	ug/L
|	Al	27	1764113.330	11.06	344.0469	1.736	0.505	ug/L
⌊>	Sc	45	159022.436	159022.44				ug/L
⌈	Ti	49	3094.122	0.01	6.3993	0.258	4.032	ug/L
|	V	51	20483.358	0.05	2.3261	0.096	4.125	ug/L
|	Cr	52	33081.314	0.07	3.7090	0.132	3.571	ug/L
|	Cr	53	3240.851	0.01	3.6431	0.321	8.803	ug/L
|	Mn	55	504340.443	1.53	48.5722	1.020	2.100	ug/L
|	Co	59	5008.971	0.02	0.6200	0.008	1.290	ug/L
|	Ni	60	27200.571	0.08	16.4035	0.564	3.437	ug/L
|	Cu	65	17188.599	0.05	9.9994	0.150	1.501	ug/L
|	Zn	66	72317.275	0.22	65.5006	0.595	0.909	ug/L
|>	Ge	72	328919.868	328919.87				ug/L
|	As	75	318.920	0.00	0.5429	0.023	4.277	ug/L
|	Se	77	88.667	0.00	0.3705	0.070	18.872	ug/L
|	Se	82	41.833	0.00	0.7139	0.052	7.291	ug/L
⌊	Rb	85	17571.602	0.05				mg/L
	Y	89	233248.721	21591.16				ug/L
	Rh	103	51.334	38.67				ug/L
⌈	Mo	98	1331.353	0.00	0.4692	0.008	1.649	ug/L
|	Ag	107	210.671	0.00	0.0350	0.002	6.683	ug/L
|	Cd	114	348.315	0.00	0.2974	0.030	10.175	ug/L
|>	In	115	322194.131	322194.13				ug/L
|	Sn	118	1368.894	0.00	0.1547	0.003	2.044	ug/L
⌊	Sb	123	545.466	0.00	0.1309	0.007	5.652	ug/L
⌈	Ba	135	34658.318	0.08	21.5799	0.488	2.262	ug/L
|	Ce	140	13507.138	0.03				ug/L
⌊>	Tb	159	423667.957	423667.96				ug/L
⌈	Ho	165	270.031	0.00				ug/L
|	Tl	203	219.671	0.00	0.0263	0.005	17.926	ug/L
|	Tl	205	573.407	0.00	0.0280	0.005	17.508	ug/L
|	Pb	206	17991.350	0.05	3.0886	0.033	1.054	ug/L
|	Pb	207	15092.866	0.04	2.7444	0.034	1.254	ug/L
|	Pb	208	70359.606	0.19	2.8929	0.036	1.227	ug/L
|	U	238	3162.532	0.01	0.0830	0.001	1.139	ug/L
⌊>	Bi	209	360808.949	360808.95				ug/L

Sample ID: L1103074401
Report Date/Time: Monday, March 28, 2011 14:40:26
Page 1

Approved: March 29, 2011

⌈	Na	23	44934432.964	282.61	10.3741	0.192	1.849	mg/L
|	Mg	24	12285821.370	77.29	4.1271	0.082	1.982	mg/L
|	K	39	6242944.312	36.91	1.0405	0.025	2.437	mg/L
|	Ca	43	326244.394	2.05	23.3709	0.293	1.254	mg/L
|	Fe	54	449008.419	2.60	0.8365	0.022	2.670	mg/L
|	Fe	57	164597.408	1.00	0.7515	0.014	1.839	mg/L
⌊>	Sc-1	45	159022.436	159022.44				mg/L
	Cl	35	275265.247	261403.64				mg/L
	Kr	83	57.667	-0.33				mg/L
	Br	81	14626.023	9736.16				mg/L
	P	31	21888.649	16471.85				mg/L
	S	34	439828.320	292413.45				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		106.833			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.155			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.406			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.620			
⌈	Na	23					

Sample ID: L1103074401
Report Date/Time: Monday, March 28, 2011 14:40:26
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103074401
Report Date/Time: Monday, March 28, 2011 14:40:26
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103074402 WG359793-02

Sample Date/Time: Monday, March 28, 2011 14:45:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 27
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18567.281	-0.01				ug/L
|	Be	9	12.667	-0.00	-0.0783	0.016	20.862	ug/L
|	Al	27	746641.780	4.79	149.1145	3.820	2.562	ug/L
⌊>	Sc	45	154721.138	154721.14				ug/L
⌈	Ti	49	1310.219	0.00	2.7607	0.598	21.644	ug/L
|	V	51	21678.300	0.06	2.5837	0.044	1.707	ug/L
|	Cr	52	20929.760	0.04	1.9983	0.055	2.743	ug/L
|	Cr	53	2417.201	0.01	2.7168	0.132	4.873	ug/L
|	Mn	55	334956.460	1.05	33.4263	0.343	1.025	ug/L
|	Co	59	3560.670	0.01	0.4539	0.012	2.647	ug/L
|	Ni	60	11360.231	0.04	7.0609	0.175	2.472	ug/L
|	Cu	65	49679.628	0.16	30.2035	0.489	1.620	ug/L
|	Zn	66	119162.329	0.37	113.4198	1.508	1.329	ug/L
|>	Ge	72	317233.479	317233.48				ug/L
|	As	75	319.503	0.00	0.5547	0.083	15.047	ug/L
|	Se	77	132.668	0.00	0.9759	0.281	28.826	ug/L
|	Se	82	27.479	0.00	0.5813	0.060	10.242	ug/L
⌊	Rb	85	7836.481	0.02				mg/L
	Y	89	222619.579	10962.01				ug/L
	Rh	103	34.334	21.67				ug/L
⌈	Mo	98	1868.257	0.01	0.6806	0.005	0.719	ug/L
|	Ag	107	143.669	0.00	0.0246	0.001	3.378	ug/L
|	Cd	114	718.295	0.00	0.6123	0.016	2.583	ug/L
|>	In	115	311582.596	311582.60				ug/L
|	Sn	118	428.543	0.00	-0.0559	0.004	7.324	ug/L
⌊	Sb	123	1135.022	0.00	0.2884	0.008	2.797	ug/L
⌈	Ba	135	27354.976	0.07	17.5610	0.216	1.229	ug/L
|	Ce	140	4131.267	0.01				ug/L
⌊>	Tb	159	410755.058	410755.06				ug/L
⌈	Ho	165	80.008	0.00				ug/L
|	Tl	203	118.335	0.00	0.0128	0.001	9.379	ug/L
|	Tl	205	263.363	0.00	0.0108	0.001	13.572	ug/L
|	Pb	206	27050.478	0.08	4.8984	0.049	0.992	ug/L
|	Pb	207	22687.267	0.07	4.3578	0.085	1.961	ug/L
|	Pb	208	106303.175	0.31	4.6133	0.065	1.414	ug/L
|	U	238	5331.474	0.02	0.1531	0.003	2.205	ug/L
⌊>	Bi	209	344520.661	344520.66				ug/L

Sample ID: L1103074402 WG359793-02
Report Date/Time: Monday, March 28, 2011 14:47:12
Page 1

Approved: March 29, 2011

⌈	Na	23	137468122.115	888.43	32.6368	0.282	0.864	mg/L
|	Mg	24	10046930.316	64.94	3.4652	0.043	1.253	mg/L
|	K	39	5163806.969	31.00	0.8726	0.021	2.367	mg/L
|	Ca	43	240205.145	1.55	17.6666	0.290	1.643	mg/L
|	Fe	54	232678.806	1.28	0.4120	0.005	1.145	mg/L
|	Fe	57	79643.972	0.48	0.3584	0.011	2.990	mg/L
⌊>	Sc-1	45	154721.138	154721.14				mg/L
	Cl	35	757362.185	743500.58				mg/L
	Kr	83	60.001	2.00				mg/L
	Br	81	18326.782	13436.92				mg/L
	P	31	13601.383	8184.58				mg/L
	S	34	361854.569	214439.70				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.037			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.626			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.072			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.897			
⌈	Na	23					

Sample ID: L1103074402 WG359793-02
Report Date/Time: Monday, March 28, 2011 14:47:12
Page 2

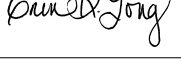
Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: March 29, 2011



Method 6020 - Summary Report

Sample ID: L1103074402S WG359793-08

Sample Date/Time: Monday, March 28, 2011 14:51:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 28
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18851.085	-0.01				ug/L
|	Be	9	6700.245	0.04	23.7818	0.533	2.241	ug/L
|	Al	27	695867.522	4.40	137.0396	9.777	7.134	ug/L
⌊>	Sc	45	156803.133	156803.13				ug/L
⌈	Ti	49	1020.155	0.00	2.0994	0.390	18.578	ug/L
|	V	51	212744.374	0.65	27.7584	0.216	0.779	ug/L
|	Cr	52	186807.752	0.55	27.4033	0.303	1.107	ug/L
|	Cr	53	21842.688	0.07	27.6643	0.857	3.099	ug/L
|	Mn	55	594135.120	1.84	58.4344	0.521	0.892	ug/L
|	Co	59	202112.049	0.63	26.0158	0.093	0.358	ug/L
|	Ni	60	53006.984	0.16	32.7101	0.447	1.368	ug/L
|	Cu	65	92561.728	0.29	55.5239	1.227	2.209	ug/L
|	Zn	66	145355.952	0.45	136.6633	1.084	0.793	ug/L
| >	Ge	72	322154.589	322154.59				ug/L
|	As	75	24547.718	0.08	24.1546	0.346	1.432	ug/L
|	Se	77	1880.844	0.01	23.0162	0.121	0.527	ug/L
|	Se	82	2144.093	0.01	22.0626	0.702	3.181	ug/L
⌊	Rb	85	7395.141	0.02				mg/L
	Y	89	220108.349	8450.78				ug/L
	Rh	103	50.334	37.67				ug/L
⌈	Mo	98	1930.375	0.01	0.7053	0.032	4.520	ug/L
|	Ag	107	126478.791	0.41	22.0937	0.315	1.427	ug/L
|	Cd	114	28945.346	0.09	23.9921	0.347	1.447	ug/L
| >	In	115	310743.381	310743.38				ug/L
|	Sn	118	369.207	0.00	-0.0697	0.003	4.023	ug/L
⌊	Sb	123	90989.619	0.29	23.6459	0.230	0.971	ug/L
⌈	Ba	135	66714.140	0.16	42.7898	0.506	1.182	ug/L
|	Ce	140	3847.793	0.01				ug/L
⌊>	Tb	159	411623.707	411623.71				ug/L
⌈	Ho	165	110.012	0.00				ug/L
|	Tl	203	171666.220	0.50	25.4405	0.264	1.036	ug/L
|	Tl	205	427670.169	1.24	25.8528	0.484	1.871	ug/L
|	Pb	206	172687.695	0.50	31.6037	0.313	0.990	ug/L
|	Pb	207	151145.219	0.44	29.3943	0.134	0.457	ug/L
|	Pb	208	696537.190	2.02	30.5674	0.275	0.900	ug/L
|	U	238	899523.030	2.61	27.2830	0.264	0.969	ug/L
⌊>	Bi	209	344482.155	344482.16				ug/L

Sample ID: L1103074402S WG359793-08
Report Date/Time: Monday, March 28, 2011 14:53:59
Page 1

Approved: March 29, 2011

⌈	Na	23	147024729.534	937.57	34.4429	1.211	3.517	mg/L
|	Mg	24	10436365.845	66.55	3.5518	0.011	0.313	mg/L
|	K	39	5276831.572	31.28	0.8804	0.011	1.225	mg/L
|	Ca	43	248658.494	1.58	18.0472	0.269	1.492	mg/L
|	Fe	54	220370.460	1.18	0.3803	0.006	1.673	mg/L
|	Fe	57	73147.220	0.43	0.3220	0.006	1.979	mg/L
⌊>	Sc-1	45	156803.133	156803.13				mg/L
	Cl	35	753512.124	739650.52				mg/L
	Kr	83	58.001	0.00				mg/L
	Br	81	18104.377	13214.51				mg/L
	P	31	14654.165	9237.36				mg/L
	S	34	364767.404	217352.53				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.635			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.347			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.296			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.886			
⌈	Na	23					

Sample ID: L1103074402S WG359793-08
Report Date/Time: Monday, March 28, 2011 14:53:59
Page 2

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Sample ID: L1103074402S WG359793-08
Report Date/Time: Monday, March 28, 2011 14:53:59
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103079017

Sample Date/Time: Monday, March 28, 2011 14:58:34
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18416.987	-0.01				ug/L
|	Be	9	23.333	0.00	-0.0406	0.026	64.374	ug/L
|	Al	27	1933785.175	12.27	381.6075	16.111	4.222	ug/L
⌊>	Sc	45	157397.652	157397.65				ug/L
⌈	Ti	49	2700.638	0.01	5.7498	0.589	10.251	ug/L
|	V	51	8867.738	0.02	0.8607	0.041	4.720	ug/L
|	Cr	52	14373.136	0.02	0.9658	0.053	5.491	ug/L
|	Cr	53	1877.031	0.00	1.9995	0.110	5.518	ug/L
|	Mn	55	8235225.213	25.84	819.5785	37.955	4.631	ug/L
|	Co	59	5977.180	0.02	0.7663	0.034	4.495	ug/L
|	Ni	60	3084.507	0.01	1.8542	0.125	6.744	ug/L
|	Cu	65	2614.368	0.01	1.4681	0.082	5.556	ug/L
|	Zn	66	29518.481	0.09	26.3563	0.925	3.511	ug/L
|>	Ge	72	318786.061	318786.06				ug/L
|	As	75	937.635	0.00	1.1622	0.079	6.760	ug/L
|	Se	77	144.001	0.00	1.1113	0.016	1.418	ug/L
|	Se	82	118.069	0.00	1.5097	0.124	8.232	ug/L
⌊	Rb	85	10430.880	0.03				mg/L
	Y	89	227849.550	16191.99				ug/L
	Rh	103	47.667	35.00				ug/L
⌈	Mo	98	1237.815	0.00	0.4513	0.010	2.274	ug/L
|	Ag	107	93.668	0.00	0.0158	0.002	11.892	ug/L
|	Cd	114	25.293	0.00	0.0398	0.005	13.280	ug/L
|>	In	115	311500.808	311500.81				ug/L
|	Sn	118	948.045	0.00	0.0663	0.006	8.876	ug/L
⌊	Sb	123	377.288	0.00	0.0919	0.004	4.090	ug/L
⌈	Ba	135	77060.610	0.19	49.2454	0.845	1.716	ug/L
|	Ce	140	26731.717	0.06				ug/L
⌊>	Tb	159	413148.929	413148.93				ug/L
⌈	Ho	165	590.077	0.00				ug/L
|	Tl	203	153.336	0.00	0.0182	0.002	9.187	ug/L
|	Tl	205	333.372	0.00	0.0152	0.005	32.172	ug/L
|	Pb	206	2801.087	0.01	0.4567	0.018	3.902	ug/L
|	Pb	207	2438.655	0.01	0.4150	0.006	1.544	ug/L
|	Pb	208	11122.198	0.03	0.4321	0.008	1.834	ug/L
|	U	238	5718.360	0.02	0.1663	0.005	3.160	ug/L
⌊>	Bi	209	341647.169	341647.17				ug/L

Sample ID: L1103079017
Report Date/Time: Monday, March 28, 2011 15:00:46
Page 1

Approved: March 29, 2011

⌈	Na	23	157430047.415	1001.62	36.7966	1.919	5.215	mg/L
|	Mg	24	22120114.163	140.61	7.5183	0.232	3.084	mg/L
|	K	39	10584669.894	64.99	1.8390	0.114	6.215	mg/L
|	Ca	43	366043.535	2.33	26.5196	1.198	4.516	mg/L
|	Fe	54	399131.355	2.31	0.7442	0.048	6.430	mg/L
|	Fe	57	152271.445	0.93	0.7012	0.050	7.199	mg/L
⌊>	Sc-1	45	157397.652	157397.65				mg/L
	Cl	35	1239461.851	1225600.25				mg/L
	Kr	83	69.001	11.00				mg/L
	Br	81	125789.746	120899.88				mg/L
	P	31	22832.745	17415.94				mg/L
	S	34	364650.454	217235.58				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.541			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.599			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.690			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.064			
⌈	Na	23					

Sample ID: L1103079017
Report Date/Time: Monday, March 28, 2011 15:00:46
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103074401PS WG359899-05

Sample Date/Time: Monday, March 28, 2011 15:05:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 30
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19702.769	0.00				ug/L
|	Be	9	13161.323	0.08	47.1679	0.347	0.737	ug/L
|	Al	27	1928161.058	12.35	384.1704	6.449	1.679	ug/L
⌊>	Sc	45	155702.983	155702.98				ug/L
⌈	Ti	49	3007.422	0.01	6.4564	0.531	8.232	ug/L
|	V	51	394419.573	1.24	52.6153	0.086	0.163	ug/L
|	Cr	52	356290.964	1.10	54.3335	0.318	0.586	ug/L
|	Cr	53	41068.279	0.13	53.2910	1.319	2.475	ug/L
|	Mn	55	998372.155	3.15	99.8811	1.282	1.283	ug/L
|	Co	59	394104.574	1.24	51.5936	0.671	1.301	ug/L
|	Ni	60	107470.178	0.34	67.5139	0.907	1.344	ug/L
|	Cu	65	99428.596	0.31	60.6525	0.890	1.467	ug/L
|	Zn	66	119244.105	0.38	113.6424	1.790	1.575	ug/L
| >	Ge	72	316821.555	316821.55				ug/L
|	As	75	47949.164	0.15	47.7406	0.621	1.300	ug/L
|	Se	77	3609.985	0.01	45.6072	0.690	1.514	ug/L
|	Se	82	4324.447	0.01	44.9294	0.991	2.206	ug/L
⌊	Rb	85	17179.252	0.05				mg/L
	Y	89	220830.678	9173.11				ug/L
	Rh	103	60.334	47.67				ug/L
⌈	Mo	98	1321.192	0.00	0.4836	0.024	4.932	ug/L
|	Ag	107	278302.607	0.90	48.6967	0.479	0.984	ug/L
|	Cd	114	57349.487	0.18	47.6019	0.552	1.159	ug/L
| >	In	115	310203.210	310203.21				ug/L
|	Sn	118	1349.158	0.00	0.1621	0.008	5.213	ug/L
⌊	Sb	123	185261.347	0.60	48.2330	0.245	0.509	ug/L
⌈	Ba	135	109361.508	0.27	70.1222	0.571	0.814	ug/L
|	Ce	140	14087.997	0.03				ug/L
⌊>	Tb	159	411873.606	411873.61				ug/L
⌈	Ho	165	256.696	0.00				ug/L
|	Tl	203	338695.380	0.98	50.1365	0.337	0.673	ug/L
|	Tl	205	853387.801	2.47	51.5224	0.201	0.391	ug/L
|	Pb	206	305441.580	0.88	55.8744	0.538	0.964	ug/L
|	Pb	207	271382.932	0.79	52.7644	0.781	1.481	ug/L
|	Pb	208	1244989.069	3.61	54.6141	0.441	0.807	ug/L
|	U	238	1788694.608	5.19	54.1866	0.352	0.650	ug/L
⌊>	Bi	209	344927.863	344927.86				ug/L

Sample ID: L1103074401PS WG359899-05
Report Date/Time: Monday, March 28, 2011 15:07:33
Page 1

Approved: March 29, 2011

⌈	Na	23	44658761.596	286.77	10.5271	0.178	1.686	mg/L
|	Mg	24	12066227.282	77.49	4.1376	0.014	0.335	mg/L
|	K	39	6197446.603	37.44	1.0556	0.029	2.704	mg/L
|	Ca	43	326386.632	2.09	23.8743	0.193	0.806	mg/L
|	Fe	54	432586.069	2.55	0.8218	0.039	4.716	mg/L
|	Fe	57	160595.588	0.99	0.7486	0.021	2.742	mg/L
⌊>	Sc-1	45	155702.983	155702.98				mg/L
	Cl	35	266814.065	252952.46				mg/L
	Kr	83	64.334	6.33				mg/L
	Br	81	17956.784	13066.92				mg/L
	P	31	19901.812	14485.01				mg/L
	S	34	425065.530	277650.66				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.903			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		103.167			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.361			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.015			
⌈	Na	23					

Sample ID: L1103074401PS WG359899-05
Report Date/Time: Monday, March 28, 2011 15:07:33
Page 2

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Sample ID: L1103074401PS WG359899-05
Report Date/Time: Monday, March 28, 2011 15:07:33
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103074401SDL WG359899-06

Sample Date/Time: Monday, March 28, 2011 15:12:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 31
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19919.845	-0.00				ug/L
|	Be	9	9.333	-0.00	-0.0915	0.010	11.032	ug/L
|	Al	27	389699.161	2.40	74.8278	1.681	2.246	ug/L
⌊>	Sc	45	159919.147	159919.15				ug/L
⌈	Ti	49	753.437	0.00	1.4384	0.116	8.051	ug/L
|	V	51	5980.424	0.01	0.4233	0.021	4.988	ug/L
|	Cr	52	12777.286	0.01	0.5887	0.006	1.027	ug/L
|	Cr	53	1030.157	0.00	0.8098	0.143	17.713	ug/L
|	Mn	55	105247.672	0.31	9.7223	0.048	0.497	ug/L
|	Co	59	1134.076	0.00	0.1262	0.005	4.262	ug/L
|	Ni	60	5727.364	0.02	3.2713	0.010	0.300	ug/L
|	Cu	65	3735.068	0.01	2.0001	0.031	1.538	ug/L
|	Zn	66	18872.316	0.05	14.8875	0.201	1.347	ug/L
| >	Ge	72	341066.178	341066.18				ug/L
|	As	75	-33.530	0.00	0.2077	0.013	6.399	ug/L
|	Se	77	71.334	0.00	0.1246	0.260	208.753	ug/L
|	Se	82	10.826	0.00	0.4016	0.072	17.931	ug/L
⌊	Rb	85	3725.064	0.01				mg/L
	Y	89	231154.516	19496.95				ug/L
	Rh	103	19.000	6.33				ug/L
⌈	Mo	98	302.249	0.00	0.1038	0.004	3.604	ug/L
|	Ag	107	71.001	0.00	0.0111	0.001	11.746	ug/L
|	Cd	114	70.512	0.00	0.0737	0.000	0.322	ug/L
| >	In	115	331742.789	331742.79				ug/L
|	Sn	118	384.674	0.00	-0.0718	0.001	1.851	ug/L
⌊	Sb	123	428.125	0.00	0.0983	0.006	6.331	ug/L
⌈	Ba	135	7336.764	0.02	4.4312	0.044	1.003	ug/L
|	Ce	140	3007.420	0.01				ug/L
⌊>	Tb	159	434014.242	434014.24				ug/L
⌈	Ho	165	46.671	0.00				ug/L
|	Tl	203	68.334	0.00	0.0045	0.001	11.975	ug/L
|	Tl	205	156.684	0.00	0.0036	0.001	39.570	ug/L
|	Pb	206	4008.177	0.01	0.6114	0.007	1.211	ug/L
|	Pb	207	3422.287	0.01	0.5461	0.013	2.343	ug/L
|	Pb	208	16012.897	0.04	0.5833	0.001	0.133	ug/L
|	U	238	726.700	0.00	0.0116	0.000	1.186	ug/L
⌊>	Bi	209	376427.403	376427.40				ug/L

Sample ID: L1103074401SDL WG359899-06
Report Date/Time: Monday, March 28, 2011 15:14:21
Page 1

Approved: March 29, 2011

⌈	Na	23	9166092.923	57.26	2.0928	0.071	3.402	mg/L
|	Mg	24	2596119.450	16.24	0.8569	0.020	2.352	mg/L
|	K	39	1823161.085	9.03	0.2478	0.012	4.732	mg/L
|	Ca	43	68957.312	0.43	4.8735	0.295	6.058	mg/L
|	Fe	54	118469.790	0.52	0.1669	0.003	1.800	mg/L
|	Fe	57	38728.728	0.20	0.1527	0.007	4.690	mg/L
⌊>	Sc-1	45	159919.147	159919.15				mg/L
	Cl	35	67463.473	53601.87				mg/L
	Kr	83	58.334	0.33				mg/L
	Br	81	9391.074	4501.21				mg/L
	P	31	10087.753	4670.95				mg/L
	S	34	210076.689	62661.82				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		110.778			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.331			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		112.078			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.149			
⌈	Na	23					

Sample ID: L1103074401SDL WG359899-06
Report Date/Time: Monday, March 28, 2011 15:14:21

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103074401SDL WG359899-06
Report Date/Time: Monday, March 28, 2011 15:14:21

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 28, 2011 15:18:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18383.653	-0.00				ug/L
|	Be	9	14239.466	0.10	53.3301	0.706	1.324	ug/L
|	Al	27	253175.279	1.66	51.8714	4.140	7.981	ug/L
⌊>	Sc	45	149035.825	149035.82				ug/L
⌈	Ti	49	49721.637	0.15	100.2915	4.371	4.358	ug/L
|	V	51	396464.367	1.15	49.0408	0.713	1.455	ug/L
|	Cr	52	348599.024	0.99	49.2001	0.927	1.884	ug/L
|	Cr	53	40656.556	0.12	48.8955	0.322	0.658	ug/L
|	Mn	55	531144.275	1.55	49.2728	1.167	2.369	ug/L
|	Co	59	406612.621	1.19	49.3939	1.461	2.957	ug/L
|	Ni	60	85351.883	0.25	49.7268	1.106	2.225	ug/L
|	Cu	65	87837.324	0.26	49.6949	1.399	2.815	ug/L
|	Zn	66	56708.918	0.16	48.9454	0.603	1.232	ug/L
| >	Ge	72	341580.094	341580.09				ug/L
|	As	75	54227.485	0.16	50.0762	0.890	1.778	ug/L
|	Se	77	4272.246	0.01	50.1527	1.244	2.481	ug/L
|	Se	82	5345.277	0.02	51.4812	1.133	2.201	ug/L
⌊	Rb	85	2115.578	0.01				mg/L
	Y	89	231618.446	19960.88				ug/L
	Rh	103	33.334	20.67				ug/L
⌈	Mo	98	289184.703	0.86	98.0084	0.439	0.448	ug/L
|	Ag	107	304300.196	0.91	49.3527	0.859	1.741	ug/L
|	Cd	114	64641.927	0.19	49.7302	1.106	2.223	ug/L
| >	In	115	334710.988	334710.99				ug/L
|	Sn	118	226728.772	0.68	49.5084	0.171	0.345	ug/L
⌊	Sb	123	204734.246	0.61	49.4006	0.129	0.261	ug/L
⌈	Ba	135	83222.696	0.19	51.0363	0.412	0.807	ug/L
|	Ce	140	56.672	0.00				ug/L
⌊>	Tb	159	430565.683	430565.68				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	356726.207	0.98	50.1966	0.439	0.875	ug/L
|	Tl	205	876749.534	2.42	50.3201	1.512	3.006	ug/L
|	Pb	206	288869.686	0.80	50.2258	0.738	1.469	ug/L
|	Pb	207	272532.509	0.75	50.3638	0.254	0.505	ug/L
|	Pb	208	1207124.847	3.32	50.3311	0.559	1.110	ug/L
|	U	238	1876626.067	5.17	54.0444	0.505	0.935	ug/L
⌊>	Bi	209	362854.172	362854.17				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 15:21:08
Page 1

Approved: March 29, 2011

⌈	Na	23	22187716.345	148.80	5.4568	0.102	1.864	mg/L
|	Mg	24	14975458.181	100.49	5.3692	0.058	1.077	mg/L
|	K	39	28294158.991	187.49	5.3228	0.059	1.104	mg/L
|	Ca	43	68339.583	0.46	5.1803	0.053	1.022	mg/L
|	Fe	54	2506073.120	16.59	5.3313	0.073	1.366	mg/L
|	Fe	57	1052890.654	7.03	5.3035	0.111	2.087	mg/L
⌊>	Sc-1	45	149035.825	149035.82				mg/L
	Cl	35	13513.124	-348.48				mg/L
	Kr	83	66.001	8.00				mg/L
	Br	81	6872.364	1982.50				mg/L
	P	31	6376.699	959.90				mg/L
	S	34	153709.022	6294.15				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	98.082				
|	Cr	52	98.400				
|	Cr	53					
|	Mn	55	98.546				
|	Co	59	98.788				
|	Ni	60	99.454				
|	Cu	65	99.390				
|	Zn	66	97.891				
|>	Ge	72		110.945			
|	As	75	100.152				
|	Se	77					
|	Se	82	102.962				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	98.705				
|	Cd	114	99.460				
|>	In	115		111.318			
|	Sn	118					
⌊	Sb	123	98.801				
⌈	Ba	135	102.073				
|	Ce	140					
⌊>	Tb	159		111.187			
⌈	Ho	165					
|	Tl	203	100.393				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	100.662				
|	U	238	108.089				
⌊>	Bi	209		105.213			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 15:21:08

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 15:21:08

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 28, 2011 15:26:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17949.434	-0.01				ug/L
|	Be	9	6.000	-0.00	-0.1022	0.008	7.537	ug/L
|	Al	27	5051.278	-0.00	0.0391	0.080	204.487	ug/L
⌊>	Sc	45	154620.221	154620.22				ug/L
⌈	Ti	49	43.338	-0.00	0.0042	0.051	1216.275	ug/L
|	V	51	2298.454	-0.00	-0.0348	0.006	15.917	ug/L
|	Cr	52	7669.016	-0.00	-0.1481	0.009	6.052	ug/L
|	Cr	53	313.370	-0.00	-0.0603	0.049	80.601	ug/L
|	Mn	55	348.010	-0.00	-0.0332	0.001	3.507	ug/L
|	Co	59	47.001	-0.00	-0.0060	0.001	9.665	ug/L
|	Ni	60	41.667	-0.00	-0.0501	0.002	4.079	ug/L
|	Cu	65	162.670	0.00	-0.0280	0.005	19.102	ug/L
|	Zn	66	402.012	-0.00	-1.7696	0.002	0.132	ug/L
|>	Ge	72	340012.522	340012.52				ug/L
|	As	75	-90.970	0.00	0.1546	0.040	25.576	ug/L
|	Se	77	54.000	-0.00	-0.0797	0.063	79.326	ug/L
|	Se	82	16.841	0.00	0.4599	0.104	22.598	ug/L
⌊	Rb	85	27.000	0.00				mg/L
	Y	89	236763.570	25106.01				ug/L
	Rh	103	17.000	4.33				ug/L
⌈	Mo	98	113.467	0.00	0.0386	0.004	10.614	ug/L
|	Ag	107	32.000	0.00	0.0047	0.001	22.700	ug/L
|	Cd	114	-6.317	-0.00	0.0141	0.008	54.164	ug/L
|>	In	115	336926.178	336926.18				ug/L
|	Sn	118	279.604	0.00	-0.0960	0.004	4.376	ug/L
⌊	Sb	123	85.780	0.00	0.0146	0.001	10.060	ug/L
⌈	Ba	135	24.334	-0.00	-0.0207	0.003	14.617	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	438191.339	438191.34				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	53.334	0.00	0.0026	0.001	27.227	ug/L
|	Tl	205	93.343	0.00	0.0002	0.003	2135.817	ug/L
|	Pb	206	330.009	0.00	-0.0049	0.003	64.824	ug/L
|	Pb	207	292.674	-0.00	-0.0112	0.002	15.206	ug/L
|	Pb	208	1316.380	0.00	-0.0072	0.000	5.031	ug/L
|	U	238	92.335	0.00	-0.0060	0.000	5.998	ug/L
⌊>	Bi	209	370380.746	370380.75				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 15:28:22
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	15289.902	0.01	-0.0111	0.000	2.103	mg/L
|	Mg	24	493.395	0.00	-0.0127	0.000	0.211	mg/L
|	K	39	362777.703	-0.03	-0.0098	0.003	32.437	mg/L
|	Ca	43	273.364	-0.00	-0.0333	0.003	9.426	mg/L
|	Fe	54	34309.822	-0.00	0.0002	0.003	1545.893	mg/L
|	Fe	57	5375.315	-0.00	-0.0040	0.001	30.188	mg/L
⌊>	Sc-1	45	154620.221	154620.22				mg/L
	Cl	35	12883.631	-977.97				mg/L
	Kr	83	56.667	-1.33				mg/L
	Br	81	6693.573	1803.71				mg/L
	P	31	6548.147	1131.35				mg/L
	S	34	153630.375	6215.50				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		110.436			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		112.055			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		113.157			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		107.396			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 15:28:22
Page 2

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 7	Se	82	CCB IS OUT OF LIMITS (+/-1/2RL)

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 15:28:22
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, March 28, 2011 15:32:58
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18233.345	-0.01				ug/L
|	Be	9	20.000	0.00	-0.0541	0.015	28.064	ug/L
|	Al	27	3300.551	-0.01	-0.3374	0.113	33.510	ug/L
⌊>	Sc	45	161072.407	161072.41				ug/L
⌈	Ti	49	50.005	-0.00	0.0171	0.034	198.716	ug/L
|	V	51	5565.747	0.01	0.3732	0.025	6.624	ug/L
|	Cr	52	13349.372	0.01	0.6758	0.061	9.035	ug/L
|	Cr	53	940.138	0.00	0.7038	0.080	11.296	ug/L
|	Mn	55	5746.041	0.02	0.4698	0.013	2.759	ug/L
|	Co	59	3444.294	0.01	0.4079	0.005	1.253	ug/L
|	Ni	60	2871.775	0.01	1.6058	0.027	1.699	ug/L
|	Cu	65	1562.138	0.00	0.7679	0.005	0.663	ug/L
|	Zn	66	7353.109	0.02	4.5118	0.122	2.696	ug/L
|>	Ge	72	340483.755	340483.76				ug/L
|	As	75	256.940	0.00	0.4754	0.007	1.468	ug/L
|	Se	77	93.334	0.00	0.3920	0.193	49.316	ug/L
|	Se	82	47.462	0.00	0.7540	0.071	9.438	ug/L
⌊	Rb	85	22.000	-0.00				mg/L
	Y	89	242746.858	31089.29				ug/L
	Rh	103	13.333	0.67				ug/L
⌈	Mo	98	65.621	0.00	0.0222	0.003	13.624	ug/L
|	Ag	107	2565.688	0.01	0.4073	0.018	4.429	ug/L
|	Cd	114	271.672	0.00	0.2236	0.004	1.595	ug/L
|>	In	115	341612.995	341612.99				ug/L
|	Sn	118	186.135	0.00	-0.1168	0.004	3.319	ug/L
⌊	Sb	123	1631.551	0.00	0.3799	0.006	1.675	ug/L
⌈	Ba	135	1293.097	0.00	0.7442	0.039	5.283	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	438252.675	438252.67				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	611.692	0.00	0.0787	0.003	4.409	ug/L
|	Tl	205	1586.952	0.00	0.0832	0.009	10.312	ug/L
|	Pb	206	2650.378	0.01	0.3863	0.007	1.880	ug/L
|	Pb	207	2462.995	0.01	0.3778	0.020	5.201	ug/L
|	Pb	208	11108.563	0.03	0.3887	0.012	3.194	ug/L
|	U	238	14330.074	0.04	0.3916	0.007	1.855	ug/L
⌊>	Bi	209	374188.103	374188.10				ug/L

Sample ID: QC Std 8
Report Date/Time: Monday, March 28, 2011 15:35:12
Page 1

Approved: March 29, 2011

⌈	Na	23	11778.114	-0.02	-0.0121	0.000	1.714	mg/L
|	Mg	24	246.695	-0.00	-0.0128	0.000	0.194	mg/L
|	K	39	354799.444	-0.17	-0.0139	0.003	22.343	mg/L
|	Ca	43	316.704	-0.00	-0.0310	0.007	21.132	mg/L
|	Fe	54	32296.467	-0.02	-0.0067	0.001	14.841	mg/L
|	Fe	57	5161.852	-0.01	-0.0060	0.001	23.374	mg/L
⌊>	Sc-1	45	161072.407	161072.41				mg/L
	Cl	35	12788.175	-1073.43				mg/L
	Kr	83	62.001	4.00				mg/L
	Br	81	6618.858	1729.00				mg/L
	P	31	5770.336	353.54				mg/L
	S	34	153085.023	5670.15				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	93.301				
|	Cr	52	84.477				
|	Cr	53					
|	Mn	55	93.951				
|	Co	59	101.978				
|	Ni	60	100.362				
|	Cu	65	95.991				
|	Zn	66	72.189				
| >	Ge	72		110.589			
|	As	75	118.859				
|	Se	77					
|	Se	82	188.511				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	101.835				
|	Cd	114	111.797				
| >	In	115		113.613			
|	Sn	118					
⌊	Sb	123	94.965				
⌈	Ba	135	99.222				
|	Ce	140					
⌊>	Tb	159		113.173			
⌈	Ho	165					
|	Tl	203	98.357				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	97.170				
|	U	238	97.901				
⌊>	Bi	209		108.500			
⌈	Na	23					

Sample ID: QC Std 8
Report Date/Time: Monday, March 28, 2011 15:35:12

Approved: March 29, 2011

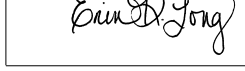
Erin D. Long

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Zn	66	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Se	82	LLCCV IS OUT OF LIMITS (+/-20%)

Approved: March 29, 2011



Method 6020 - Summary Report

Sample ID: PBS 3B WG360101-02

Sample Date/Time: Monday, March 28, 2011 15:39:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 32
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18350.223	-0.01				ug/L
|	Be	9	11.333	-0.00	-0.0822	0.004	5.251	ug/L
|	Al	27	21022.172	0.10	3.3315	0.340	10.214	ug/L
⌊>	Sc	45	151675.070	151675.07				ug/L
⌈	Ti	49	180.020	0.00	0.3010	0.057	18.961	ug/L
|	V	51	2387.344	-0.00	-0.0074	0.009	123.156	ug/L
|	Cr	52	8517.045	0.00	0.0425	0.032	75.037	ug/L
|	Cr	53	383.379	0.00	0.0510	0.045	87.726	ug/L
|	Mn	55	2616.035	0.01	0.1916	0.006	2.954	ug/L
|	Co	59	96.001	0.00	0.0006	0.001	150.748	ug/L
|	Ni	60	106.002	0.00	-0.0090	0.004	44.083	ug/L
|	Cu	65	339.676	0.00	0.0834	0.013	15.774	ug/L
|	Zn	66	2931.792	0.01	0.6636	0.017	2.615	ug/L
|>	Ge	72	322450.797	322450.80				ug/L
|	As	75	-119.052	0.00	0.1227	0.021	16.991	ug/L
|	Se	77	55.333	0.00	-0.0280	0.214	764.033	ug/L
|	Se	82	4.794	-0.00	0.3465	0.069	19.892	ug/L
⌊	Rb	85	73.668	0.00				mg/L
	Y	89	223955.916	12298.35				ug/L
	Rh	103	17.667	5.00				ug/L
⌈	Mo	98	97.471	0.00	0.0348	0.002	7.148	ug/L
|	Ag	107	51.667	0.00	0.0082	0.001	13.451	ug/L
|	Cd	114	-164.637	-0.00	-0.1130	0.209	185.241	ug/L
|>	In	115	321851.553	321851.55				ug/L
|	Sn	118	9930.405	0.03	2.1088	2.107	99.935	ug/L
⌊	Sb	123	122.030	0.00	0.0247	0.001	4.924	ug/L
⌈	Ba	135	519.685	0.00	0.2928	0.006	1.902	ug/L
|	Ce	140	90.009	0.00				ug/L
⌊>	Tb	159	418499.022	418499.02				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	36.000	0.00	0.0004	0.001	289.582	ug/L
|	Tl	205	70.007	0.00	-0.0010	0.002	211.987	ug/L
|	Pb	206	435.014	0.00	0.0164	0.002	10.067	ug/L
|	Pb	207	400.345	0.00	0.0117	0.001	6.849	ug/L
|	Pb	208	1757.411	0.00	0.0142	0.002	16.175	ug/L
|	U	238	62.334	0.00	-0.0068	0.000	5.692	ug/L
⌊>	Bi	209	353970.949	353970.95				ug/L

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	65413.182	0.34	0.0011	0.001	50.841	mg/L
|	Mg	24	24997.062	0.16	-0.0041	0.000	10.128	mg/L
|	K	39	392912.218	0.22	-0.0029	0.001	40.691	mg/L
|	Ca	43	646.753	0.00	-0.0047	0.010	224.353	mg/L
|	Fe	54	56754.053	0.15	0.0491	0.005	10.279	mg/L
|	Fe	57	6025.751	0.00	-0.0002	0.001	346.019	mg/L
⌊>	Sc-1	45	151675.070	151675.07				mg/L
	Cl	35	14766.228	904.62				mg/L
	Kr	83	62.001	4.00				mg/L
	Br	81	6361.357	1471.49				mg/L
	P	31	9419.117	4002.32				mg/L
	S	34	143778.939	-3635.93				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.732			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		107.041			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.071			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.638			
⌈	Na	23					

Sample ID: PBS 3B WG360101-02
Report Date/Time: Monday, March 28, 2011 15:42:00
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 3B WG360101-02
Report Date/Time: Monday, March 28, 2011 15:42:00
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: LCSS 3B WG360101-03

Sample Date/Time: Monday, March 28, 2011 15:46:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 33
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21005.417	-0.00				ug/L
|	Be	9	6837.003	0.04	22.1745	0.384	1.732	ug/L
|	Al	27	142457.798	0.80	24.8500	0.644	2.593	ug/L
⌊>	Sc	45	171542.249	171542.25				ug/L
⌈	Ti	49	70.007	-0.00	0.0540	0.039	72.720	ug/L
|	V	51	205377.812	0.58	24.6184	0.215	0.872	ug/L
|	Cr	52	188749.205	0.51	25.3844	0.085	0.335	ug/L
|	Cr	53	21562.047	0.06	25.0814	0.526	2.096	ug/L
|	Mn	55	287987.502	0.82	26.0216	0.225	0.863	ug/L
|	Co	59	213137.900	0.61	25.2402	0.221	0.874	ug/L
|	Ni	60	45311.896	0.13	25.7080	0.464	1.805	ug/L
|	Cu	65	47248.166	0.13	26.0086	0.238	0.913	ug/L
|	Zn	66	31206.265	0.09	25.2799	0.157	0.622	ug/L
|>	Ge	72	350169.002	350169.00				ug/L
|	As	75	25434.558	0.07	23.0348	0.194	0.843	ug/L
|	Se	77	1975.529	0.01	22.2136	0.736	3.315	ug/L
|	Se	82	2308.081	0.01	21.8480	0.702	3.215	ug/L
⌊	Rb	85	51.334	0.00				mg/L
	Y	89	245477.536	33819.97				ug/L
	Rh	103	25.667	13.00				ug/L
⌈	Mo	98	66.092	0.00	0.0219	0.002	8.893	ug/L
|	Ag	107	144867.247	0.41	22.4358	0.319	1.424	ug/L
|	Cd	114	31381.022	0.09	23.0652	0.525	2.278	ug/L
|>	In	115	350514.098	350514.10				ug/L
|	Sn	118	235.469	0.00	-0.1075	0.002	1.551	ug/L
⌊	Sb	123	99441.220	0.28	22.9115	0.387	1.690	ug/L
⌈	Ba	135	42380.708	0.09	24.7257	0.295	1.191	ug/L
|	Ce	140	413.383	0.00				ug/L
⌊>	Tb	159	452263.989	452263.99				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	181992.979	0.47	23.9347	0.276	1.152	ug/L
|	Tl	205	450365.676	1.16	24.1568	0.057	0.238	ug/L
|	Pb	206	155631.928	0.40	25.2614	0.107	0.425	ug/L
|	Pb	207	137263.696	0.35	23.6759	0.200	0.845	ug/L
|	Pb	208	631709.104	1.62	24.5881	0.256	1.041	ug/L
|	U	238	920586.138	2.37	24.7756	0.372	1.502	ug/L
⌊>	Bi	209	388207.404	388207.40				ug/L

Sample ID: LCSS 3B WG360101-03
Report Date/Time: Monday, March 28, 2011 15:48:48
Page 1

Approved: March 29, 2011

⌈	Na	23	55834.398	0.23	-0.0028	0.000	8.609	mg/L
|	Mg	24	9815.804	0.05	-0.0098	0.000	1.333	mg/L
|	K	39	381754.482	-0.15	-0.0133	0.001	4.554	mg/L
|	Ca	43	496.729	0.00	-0.0204	0.006	29.093	mg/L
|	Fe	54	62978.364	0.14	0.0468	0.003	6.457	mg/L
|	Fe	57	5728.884	-0.01	-0.0050	0.002	34.796	mg/L
⌊>	Sc-1	45	171542.249	171542.25				mg/L
	Cl	35	15106.736	1245.13				mg/L
	Kr	83	64.001	6.00				mg/L
	Br	81	6906.385	2016.52				mg/L
	P	31	11186.260	5769.46				mg/L
	S	34	157296.864	9881.99				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.734			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		116.574			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		116.791			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		112.565			
⌈	Na	23					

Sample ID: LCSS 3B WG360101-03
Report Date/Time: Monday, March 28, 2011 15:48:48
Page 2

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 3B WG360101-03
Report Date/Time: Monday, March 28, 2011 15:48:48
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092501

Sample Date/Time: Monday, March 28, 2011 15:53:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 34
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19853.100	-0.01				ug/L
|	Be	9	64.667	0.00	0.0875	0.067	76.164	ug/L
|	Al	27	28221077.244	165.77	5155.2876	95.025	1.843	ug/L
⌊>	Sc	45	170169.625	170169.63				ug/L
⌈	Ti	49	240.027	0.00	0.3916	0.156	39.791	ug/L
|	V	51	15576.175	0.04	1.5805	0.095	5.988	ug/L
|	Cr	52	12093.434	0.01	0.4541	0.062	13.759	ug/L
|	Cr	53	883.461	0.00	0.6106	0.186	30.530	ug/L
|	Mn	55	506557.456	1.45	46.0910	2.045	4.437	ug/L
|	Co	59	4407.683	0.01	0.5135	0.021	4.118	ug/L
|	Ni	60	1128.742	0.00	0.5716	0.026	4.622	ug/L
|	Cu	65	497.351	0.00	0.1561	0.020	12.742	ug/L
|	Zn	66	3508.317	0.01	0.9669	0.111	11.503	ug/L
|>	Ge	72	348161.704	348161.70				ug/L
|	As	75	-106.914	0.00	0.1422	0.029	20.384	ug/L
|	Se	77	106.001	0.00	0.5121	0.157	30.679	ug/L
|	Se	82	16.018	0.00	0.4487	0.161	35.877	ug/L
⌊	Rb	85	9499.946	0.03				mg/L
	Y	89	310214.104	98556.54				ug/L
	Rh	103	11.667	-1.00				ug/L
⌈	Mo	98	26.685	-0.00	0.0094	0.004	43.120	ug/L
|	Ag	107	49.001	0.00	0.0074	0.001	11.807	ug/L
|	Cd	114	12.094	0.00	0.0281	0.003	11.765	ug/L
|>	In	115	339461.011	339461.01				ug/L
|	Sn	118	138.134	-0.00	-0.1270	0.002	1.371	ug/L
⌊	Sb	123	52.322	0.00	0.0065	0.002	25.516	ug/L
⌈	Ba	135	10670.137	0.02	6.4200	0.253	3.935	ug/L
|	Ce	140	447885.762	1.03				ug/L
⌊>	Tb	159	436664.044	436664.04				ug/L
⌈	Ho	165	4968.401	0.01				ug/L
|	Tl	203	175.337	0.00	0.0190	0.002	8.804	ug/L
|	Tl	205	420.051	0.00	0.0181	0.001	5.035	ug/L
|	Pb	206	1832.186	0.00	0.2456	0.005	1.843	ug/L
|	Pb	207	1472.790	0.00	0.1979	0.001	0.378	ug/L
|	Pb	208	7332.161	0.02	0.2333	0.007	3.027	ug/L
|	U	238	3021.821	0.01	0.0751	0.005	6.222	ug/L
⌊>	Bi	209	377266.125	377266.13				ug/L

Sample ID: L1103092501
Report Date/Time: Monday, March 28, 2011 15:55:37
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	222073.755	1.21	0.0332	0.002	6.730	mg/L
|	Mg	24	153143.965	0.90	0.0353	0.001	3.489	mg/L
|	K	39	993090.470	3.47	0.0894	0.007	8.144	mg/L
|	Ca	43	526.733	0.00	-0.0181	0.005	27.585	mg/L
|	Fe	54	2013142.149	11.60	3.7289	0.058	1.548	mg/L
|	Fe	57	841823.431	4.91	3.7050	0.041	1.108	mg/L
⌊>	Sc-1	45	170169.625	170169.63				mg/L
	Cl	35	12778.828	-1082.78				mg/L
	Kr	83	74.668	16.67				mg/L
	Br	81	5945.102	1055.24				mg/L
	P	31	17392.466	11975.66				mg/L
	S	34	124997.633	-22417.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.082			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		112.898			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		112.762			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.392			
⌈	Na	23					

Sample ID: L1103092501
Report Date/Time: Monday, March 28, 2011 15:55:37
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092502

Sample Date/Time: Monday, March 28, 2011 16:00:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 35
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19585.857	-0.02				ug/L
|	Be	9	36.000	0.00	-0.0139	0.022	160.885	ug/L
|	Al	27	23698060.350	129.52	4027.8709	90.464	2.246	ug/L
⌊>	Sc	45	182941.609	182941.61				ug/L
⌈	Ti	49	5101.812	0.01	9.9521	0.227	2.278	ug/L
|	V	51	102128.974	0.28	12.0763	0.524	4.335	ug/L
|	Cr	52	47708.773	0.11	5.4701	0.247	4.517	ug/L
|	Cr	53	5161.852	0.01	5.6670	0.413	7.292	ug/L
|	Mn	55	333935.373	0.95	30.1730	1.007	3.337	ug/L
|	Co	59	3784.421	0.01	0.4364	0.012	2.800	ug/L
|	Ni	60	3079.838	0.01	1.6772	0.015	0.888	ug/L
|	Cu	65	3857.449	0.01	2.0120	0.064	3.184	ug/L
|	Zn	66	6561.218	0.02	3.6285	0.117	3.230	ug/L
|>	Ge	72	350291.119	350291.12				ug/L
|	As	75	37.765	0.00	0.2724	0.016	5.793	ug/L
|	Se	77	77.334	0.00	0.1721	0.132	76.654	ug/L
|	Se	82	4.107	-0.00	0.3363	0.036	10.723	ug/L
⌊	Rb	85	21663.337	0.06				mg/L
	Y	89	259609.114	47951.55				ug/L
	Rh	103	17.667	5.00				ug/L
⌈	Mo	98	98.389	0.00	0.0333	0.007	21.005	ug/L
|	Ag	107	71.668	0.00	0.0109	0.002	18.387	ug/L
|	Cd	114	96.772	0.00	0.0921	0.013	14.574	ug/L
|>	In	115	340255.650	340255.65				ug/L
|	Sn	118	150.268	0.00	-0.1244	0.002	1.383	ug/L
⌊	Sb	123	49.152	-0.00	0.0057	0.001	18.951	ug/L
⌈	Ba	135	23182.082	0.05	14.1134	0.325	2.302	ug/L
|	Ce	140	190524.958	0.44				ug/L
⌊>	Tb	159	432894.054	432894.05				ug/L
⌈	Ho	165	1670.308	0.00				ug/L
|	Tl	203	293.007	0.00	0.0350	0.001	1.493	ug/L
|	Tl	205	710.096	0.00	0.0342	0.004	11.250	ug/L
|	Pb	206	16853.371	0.04	2.7675	0.107	3.883	ug/L
|	Pb	207	14357.783	0.04	2.4972	0.077	3.087	ug/L
|	Pb	208	67336.017	0.18	2.6492	0.080	3.023	ug/L
|	U	238	15934.521	0.04	0.4339	0.016	3.589	ug/L
⌊>	Bi	209	376343.974	376343.97				ug/L

Sample ID: L1103092502
Report Date/Time: Monday, March 28, 2011 16:02:22
Page 1

Approved: March 29, 2011

⌈	Na	23	195512.506	0.98	0.0245	0.001	3.774	mg/L
|	Mg	24	530964.956	2.90	0.1426	0.003	1.967	mg/L
|	K	39	1251808.147	4.47	0.1180	0.007	5.598	mg/L
|	Ca	43	1890.368	0.01	0.0645	0.006	8.977	mg/L
|	Fe	54	3233419.765	17.45	5.6081	0.305	5.432	mg/L
|	Fe	57	1410866.207	7.67	5.7934	0.183	3.152	mg/L
⌊>	Sc-1	45	182941.609	182941.61				mg/L
	Cl	35	12466.433	-1395.17				mg/L
	Kr	83	64.334	6.33				mg/L
	Br	81	6295.316	1405.45				mg/L
	P	31	22136.484	16719.68				mg/L
	S	34	114864.197	-32550.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.774			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		113.162			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.789			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		109.125			
⌈	Na	23					

Sample ID: L1103092502
Report Date/Time: Monday, March 28, 2011 16:02:22
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092502
Report Date/Time: Monday, March 28, 2011 16:02:22
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092503

Sample Date/Time: Monday, March 28, 2011 16:09:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 36
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18083.018	-0.04				ug/L
|	Be	9	69.334	0.00	0.0517	0.019	37.460	ug/L
|	Al	27	30649809.908	138.63	4311.2621	64.645	1.499	ug/L
⌊>	Sc	45	221016.727	221016.73				ug/L
⌈	Ti	49	33643.237	0.10	66.3229	2.202	3.320	ug/L
|	V	51	295446.787	0.84	35.6640	0.327	0.916	ug/L
|	Cr	52	89638.523	0.23	11.4304	0.076	0.662	ug/L
|	Cr	53	9942.605	0.03	11.3623	0.375	3.305	ug/L
|	Mn	55	1695986.264	4.86	154.0282	0.659	0.428	ug/L
|	Co	59	21350.982	0.06	2.5255	0.013	0.512	ug/L
|	Ni	60	5255.433	0.01	2.9249	0.053	1.800	ug/L
|	Cu	65	13754.591	0.04	7.5092	0.072	0.960	ug/L
|	Zn	66	14777.396	0.04	10.8874	0.288	2.649	ug/L
| >	Ge	72	349107.410	349107.41				ug/L
|	As	75	1259.581	0.00	1.3710	0.034	2.469	ug/L
|	Se	77	84.000	0.00	0.2531	0.106	41.682	ug/L
|	Se	82	9.684	0.00	0.3885	0.152	39.117	ug/L
⌊	Rb	85	42759.988	0.12				mg/L
	Y	89	249714.727	38057.16				ug/L
	Rh	103	20.667	8.00				ug/L
⌈	Mo	98	223.137	0.00	0.0762	0.005	6.273	ug/L
|	Ag	107	108.335	0.00	0.0171	0.001	6.983	ug/L
|	Cd	114	2.475	0.00	0.0209	0.016	78.025	ug/L
| >	In	115	334377.786	334377.79				ug/L
|	Sn	118	226.003	0.00	-0.1072	0.002	1.792	ug/L
⌊	Sb	123	47.737	-0.00	0.0056	0.004	66.132	ug/L
⌈	Ba	135	25221.353	0.06	15.6075	0.205	1.310	ug/L
|	Ce	140	247120.572	0.58				ug/L
⌊>	Tb	159	426011.960	426011.96				ug/L
⌈	Ho	165	1486.926	0.00				ug/L
|	Tl	203	477.016	0.00	0.0620	0.002	3.687	ug/L
|	Tl	205	1010.153	0.00	0.0525	0.008	14.791	ug/L
|	Pb	206	33530.459	0.09	5.7414	0.019	0.324	ug/L
|	Pb	207	28755.252	0.08	5.2252	0.103	1.964	ug/L
|	Pb	208	133424.602	0.36	5.4761	0.064	1.176	ug/L
|	U	238	21673.022	0.06	0.6119	0.014	2.326	ug/L
⌊>	Bi	209	364990.103	364990.10				ug/L

Sample ID: L1103092503
Report Date/Time: Monday, March 28, 2011 16:11:18
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	969012.977	4.29	0.1464	0.003	2.210	mg/L
|	Mg	24	1032648.660	4.67	0.2374	0.003	1.260	mg/L
|	K	39	2258345.249	7.85	0.2140	0.003	1.277	mg/L
|	Ca	43	953.474	0.00	-0.0042	0.004	94.594	mg/L
|	Fe	54	12332553.668	55.59	17.8599	0.442	2.474	mg/L
|	Fe	57	5312802.177	24.01	18.1295	0.617	3.405	mg/L
⌊>	Sc-1	45	221016.727	221016.73				mg/L
	Cl	35	13350.914	-510.69				mg/L
	Kr	83	74.668	16.67				mg/L
	Br	81	6806.983	1917.12				mg/L
	P	31	89265.332	83848.53				mg/L
	S	34	131454.740	-15960.13				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.390			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.207			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.012			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.833			
⌈	Na	23					

Sample ID: L1103092503
Report Date/Time: Monday, March 28, 2011 16:11:18
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103092503
Report Date/Time: Monday, March 28, 2011 16:11:18
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092504

Sample Date/Time: Monday, March 28, 2011 16:15:52
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 37
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18316.763	-0.03				ug/L
|	Be	9	74.667	0.00	0.0910	0.026	28.471	ug/L
|	Al	27	42315689.750	217.76	6771.9785	292.481	4.319	ug/L
⌊>	Sc	45	194405.317	194405.32				ug/L
⌈	Ti	49	68249.107	0.19	132.7962	5.701	4.293	ug/L
|	V	51	242159.306	0.68	28.7682	0.853	2.964	ug/L
|	Cr	52	46497.678	0.11	5.2307	0.175	3.350	ug/L
|	Cr	53	4778.288	0.01	5.1553	0.347	6.740	ug/L
|	Mn	55	1012828.826	2.86	90.6952	2.567	2.830	ug/L
|	Co	59	20420.035	0.06	2.3816	0.061	2.567	ug/L
|	Ni	60	6509.518	0.02	3.5903	0.155	4.307	ug/L
|	Cu	65	10967.123	0.03	5.8800	0.222	3.782	ug/L
|	Zn	66	17457.734	0.05	13.0384	0.331	2.540	ug/L
|>	Ge	72	354026.927	354026.93				ug/L
|	As	75	463.736	0.00	0.6498	0.017	2.633	ug/L
|	Se	77	82.667	0.00	0.2236	0.062	27.739	ug/L
|	Se	82	19.670	0.00	0.4802	0.075	15.601	ug/L
⌊	Rb	85	59468.296	0.17				mg/L
	Y	89	274770.953	63113.39				ug/L
	Rh	103	21.000	8.33				ug/L
⌈	Mo	98	176.291	0.00	0.0602	0.004	7.410	ug/L
|	Ag	107	87.001	0.00	0.0136	0.003	20.673	ug/L
|	Cd	114	1.226	0.00	0.0199	0.004	18.844	ug/L
|>	In	115	334769.587	334769.59				ug/L
|	Sn	118	220.269	0.00	-0.1086	0.002	1.684	ug/L
⌊	Sb	123	42.942	-0.00	0.0044	0.001	18.137	ug/L
⌈	Ba	135	35803.713	0.08	22.2882	0.564	2.532	ug/L
|	Ce	140	536319.156	1.27				ug/L
⌊>	Tb	159	423721.147	423721.15				ug/L
⌈	Ho	165	2743.985	0.01				ug/L
|	Tl	203	362.344	0.00	0.0460	0.002	5.351	ug/L
|	Tl	205	870.125	0.00	0.0446	0.006	14.370	ug/L
|	Pb	206	15540.893	0.04	2.6330	0.059	2.251	ug/L
|	Pb	207	13336.027	0.04	2.3932	0.087	3.630	ug/L
|	Pb	208	62641.184	0.17	2.5432	0.066	2.592	ug/L
|	U	238	15845.377	0.04	0.4459	0.014	3.210	ug/L
⌊>	Bi	209	364348.324	364348.32				ug/L

Sample ID: L1103092504
Report Date/Time: Monday, March 28, 2011 16:18:04
Page 1

Approved: March 29, 2011

⌈	Na	23	107168.793	0.46	0.0055	0.001	10.719	mg/L
|	Mg	24	1212273.576	6.24	0.3213	0.015	4.665	mg/L
|	K	39	2624571.309	11.13	0.3075	0.013	4.309	mg/L
|	Ca	43	846.788	0.00	-0.0036	0.012	334.783	mg/L
|	Fe	54	7445957.828	38.10	12.2411	0.617	5.040	mg/L
|	Fe	57	3176410.671	16.31	12.3134	0.525	4.264	mg/L
⌊>	Sc-1	45	194405.317	194405.32				mg/L
	Cl	35	13920.349	58.75				mg/L
	Kr	83	76.334	18.33				mg/L
	Br	81	6696.909	1807.05				mg/L
	P	31	57343.313	51926.51				mg/L
	S	34	122729.377	-24685.50				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		114.987			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.337			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.420			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.647			
⌈	Na	23					

Sample ID: L1103092504
Report Date/Time: Monday, March 28, 2011 16:18:04
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092504
Report Date/Time: Monday, March 28, 2011 16:18:04
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092505

Sample Date/Time: Monday, March 28, 2011 16:23:23
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17515.343	-0.03				ug/L
|	Be	9	136.668	0.00	0.3060	0.074	24.172	ug/L
|	Al	27	25967531.855	145.79	4533.9232	300.486	6.627	ug/L
⌊>	Sc	45	178259.410	178259.41				ug/L
⌈	Ti	49	1596.956	0.00	3.0569	0.566	18.502	ug/L
|	V	51	50789.987	0.14	5.8377	0.374	6.406	ug/L
|	Cr	52	26516.761	0.05	2.4757	0.177	7.166	ug/L
|	Cr	53	2517.236	0.01	2.5349	0.220	8.664	ug/L
|	Mn	55	2890509.386	8.24	261.4509	11.966	4.577	ug/L
|	Co	59	82771.641	0.24	9.7824	0.536	5.476	ug/L
|	Ni	60	6569.229	0.02	3.6585	0.245	6.688	ug/L
|	Cu	65	5108.024	0.01	2.7010	0.147	5.446	ug/L
|	Zn	66	12401.481	0.03	8.7474	0.352	4.029	ug/L
| >	Ge	72	350601.421	350601.42				ug/L
|	As	75	652.889	0.00	0.8231	0.034	4.191	ug/L
|	Se	77	128.001	0.00	0.7589	0.121	15.909	ug/L
|	Se	82	32.183	0.00	0.5986	0.131	21.960	ug/L
⌊	Rb	85	18769.473	0.05				mg/L
	Y	89	433109.727	221452.16				ug/L
	Rh	103	14.333	1.67				ug/L
⌈	Mo	98	59.841	0.00	0.0210	0.001	5.371	ug/L
|	Ag	107	131.669	0.00	0.0212	0.002	8.601	ug/L
|	Cd	114	33.142	0.00	0.0448	0.007	14.825	ug/L
| >	In	115	330201.195	330201.20				ug/L
|	Sn	118	132.934	-0.00	-0.1273	0.001	0.812	ug/L
⌊	Sb	123	39.024	-0.00	0.0036	0.002	41.576	ug/L
⌈	Ba	135	11087.931	0.03	6.7439	0.327	4.847	ug/L
|	Ce	140	860832.219	1.99				ug/L
⌊>	Tb	159	432145.051	432145.05				ug/L
⌈	Ho	165	14154.770	0.04				ug/L
|	Tl	203	465.016	0.00	0.0621	0.005	8.581	ug/L
|	Tl	205	1060.162	0.00	0.0570	0.004	7.233	ug/L
|	Pb	206	6143.616	0.02	1.0313	0.026	2.535	ug/L
|	Pb	207	4488.054	0.01	0.7841	0.045	5.685	ug/L
|	Pb	208	22336.655	0.06	0.8914	0.047	5.263	ug/L
|	U	238	7981.940	0.02	0.2262	0.015	6.431	ug/L
⌊>	Bi	209	355180.632	355180.63				ug/L

Sample ID: L1103092505
Report Date/Time: Monday, March 28, 2011 16:25:35
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	146122.737	0.73	0.0154	0.002	12.309	mg/L
|	Mg	24	360458.124	2.02	0.0955	0.005	5.754	mg/L
|	K	39	1375342.451	5.35	0.1429	0.013	9.047	mg/L
|	Ca	43	1526.937	0.01	0.0447	0.014	31.490	mg/L
|	Fe	54	24702627.147	138.40	44.4640	2.048	4.605	mg/L
|	Fe	57	10605842.056	59.49	44.9151	2.648	5.896	mg/L
⌊>	Sc-1	45	178259.410	178259.41				mg/L
	Cl	35	15134.112	1272.51				mg/L
	Kr	83	94.001	36.00				mg/L
	Br	81	6869.695	1979.83				mg/L
	P	31	37906.455	32489.65				mg/L
	S	34	134791.881	-12622.99				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.875			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		109.818			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		111.595			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.988			
⌈	Na	23					

Sample ID: L1103092505
Report Date/Time: Monday, March 28, 2011 16:25:35
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103092505
Report Date/Time: Monday, March 28, 2011 16:25:35

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092506

Sample Date/Time: Monday, March 28, 2011 16:30:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 39
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18734.213	-0.03				ug/L
|	Be	9	128.667	0.00	0.2653	0.007	2.766	ug/L
|	Al	27	26309943.345	142.28	4424.8508	154.763	3.498	ug/L
⌊>	Sc	45	184876.905	184876.91				ug/L
⌈	Ti	49	4371.450	0.01	8.4944	2.533	29.820	ug/L
|	V	51	74713.451	0.21	8.7361	0.408	4.675	ug/L
|	Cr	52	58177.460	0.14	6.9370	0.347	5.004	ug/L
|	Cr	53	6042.435	0.02	6.6996	0.516	7.701	ug/L
|	Mn	55	1201346.912	3.42	108.5896	6.574	6.054	ug/L
|	Co	59	53574.953	0.15	6.3258	0.391	6.187	ug/L
|	Ni	60	9992.095	0.03	5.6019	0.267	4.767	ug/L
|	Cu	65	12788.977	0.04	6.9408	0.342	4.933	ug/L
|	Zn	66	9984.086	0.03	6.6235	0.386	5.832	ug/L
| >	Ge	72	350798.210	350798.21				ug/L
|	As	75	518.482	0.00	0.7025	0.020	2.806	ug/L
|	Se	77	135.334	0.00	0.8437	0.105	12.399	ug/L
|	Se	82	21.931	0.00	0.5026	0.064	12.804	ug/L
⌊	Rb	85	21232.755	0.06				mg/L
	Y	89	375806.300	164148.74				ug/L
	Rh	103	15.667	3.00				ug/L
⌈	Mo	98	149.509	0.00	0.0509	0.000	0.759	ug/L
|	Ag	107	95.335	0.00	0.0149	0.002	12.814	ug/L
|	Cd	114	12.651	0.00	0.0286	0.004	13.011	ug/L
| >	In	115	336054.068	336054.07				ug/L
|	Sn	118	138.934	-0.00	-0.1265	0.001	0.688	ug/L
⌊	Sb	123	64.611	0.00	0.0096	0.002	17.161	ug/L
⌈	Ba	135	16734.179	0.04	10.1145	0.452	4.472	ug/L
|	Ce	140	820937.588	1.88				ug/L
⌊>	Tb	159	435563.986	435563.99				ug/L
⌈	Ho	165	9462.089	0.03				ug/L
|	Tl	203	179.670	0.00	0.0206	0.002	8.389	ug/L
|	Tl	205	483.394	0.00	0.0228	0.004	18.445	ug/L
|	Pb	206	12435.866	0.03	2.1141	0.131	6.179	ug/L
|	Pb	207	10119.891	0.03	1.8172	0.089	4.906	ug/L
|	Pb	208	48502.338	0.13	1.9734	0.105	5.315	ug/L
|	U	238	11885.199	0.03	0.3354	0.026	7.834	ug/L
⌊>	Bi	209	361221.387	361221.39				ug/L

Sample ID: L1103092506
Report Date/Time: Monday, March 28, 2011 16:32:21
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	310326.259	1.59	0.0469	0.002	3.835	mg/L
|	Mg	24	394234.765	2.13	0.1013	0.005	4.727	mg/L
|	K	39	1381751.224	5.10	0.1359	0.008	5.831	mg/L
|	Ca	43	1146.847	0.00	0.0174	0.004	21.565	mg/L
|	Fe	54	6100191.945	32.77	10.5297	0.391	3.717	mg/L
|	Fe	57	2678968.150	14.45	10.9117	0.629	5.764	mg/L
⌊>	Sc-1	45	184876.905	184876.91				mg/L
	Cl	35	13313.524	-548.08				mg/L
	Kr	83	84.668	26.67				mg/L
	Br	81	6729.598	1839.74				mg/L
	P	31	54762.385	49345.58				mg/L
	S	34	124325.592	-23089.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		113.939			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.765			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		112.478			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.740			
⌈	Na	23					

Sample ID: L1103092506
Report Date/Time: Monday, March 28, 2011 16:32:21
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092506PS WG360123-01

Sample Date/Time: Monday, March 28, 2011 16:36:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 40
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18149.799	-0.03				ug/L
|	Be	9	17642.226	0.09	51.9263	3.268	6.294	ug/L
|	Al	27	29033309.151	153.10	4761.0799	389.708	8.185	ug/L
⌊>	Sc	45	189904.575	189904.57				ug/L
⌈	Ti	49	3967.853	0.01	7.6847	0.655	8.521	ug/L
|	V	51	566115.364	1.60	68.0557	3.979	5.847	ug/L
|	Cr	52	495615.793	1.38	68.3339	4.543	6.649	ug/L
|	Cr	53	58037.513	0.16	67.8985	5.330	7.850	ug/L
|	Mn	55	2013451.696	5.72	181.3495	11.252	6.205	ug/L
|	Co	59	594230.870	1.69	70.0124	3.977	5.680	ug/L
|	Ni	60	123823.618	0.35	70.0022	3.944	5.635	ug/L
|	Cu	65	131821.926	0.37	72.4020	5.789	7.995	ug/L
|	Zn	66	83444.656	0.24	70.7789	4.318	6.101	ug/L
| >	Ge	72	352255.895	352255.90				ug/L
|	As	75	70863.915	0.20	63.4201	4.360	6.875	ug/L
|	Se	77	6039.827	0.02	69.0379	4.735	6.859	ug/L
|	Se	82	7157.496	0.02	66.7861	4.917	7.362	ug/L
⌊	Rb	85	23017.726	0.07				mg/L
	Y	89	387812.198	176154.63				ug/L
	Rh	103	43.334	30.67				ug/L
⌈	Mo	98	185.300	0.00	0.0638	0.005	7.756	ug/L
|	Ag	107	388247.599	1.17	63.5323	3.438	5.411	ug/L
|	Cd	114	81692.494	0.25	63.4059	2.320	3.659	ug/L
| >	In	115	331762.903	331762.90				ug/L
|	Sn	118	199.069	0.00	-0.1128	0.002	1.906	ug/L
⌊	Sb	123	245902.145	0.74	59.8738	2.834	4.733	ug/L
⌈	Ba	135	116560.500	0.27	71.7209	4.465	6.226	ug/L
|	Ce	140	892654.112	2.08				ug/L
⌊>	Tb	159	429343.792	429343.79				ug/L
⌈	Ho	165	10399.812	0.03				ug/L
|	Tl	203	425643.093	1.20	61.0706	3.442	5.635	ug/L
|	Tl	205	1053704.143	2.96	61.6623	3.501	5.677	ug/L
|	Pb	206	369645.110	1.04	65.5494	3.908	5.962	ug/L
|	Pb	207	327491.530	0.92	61.7198	2.202	3.567	ug/L
|	Pb	208	1504202.920	4.22	63.9634	2.780	4.346	ug/L
|	U	238	2044003.068	5.74	60.0181	2.463	4.104	ug/L
⌊>	Bi	209	355900.404	355900.40				ug/L

Sample ID: L1103092506PS WG360123-01
Report Date/Time: Monday, March 28, 2011 16:39:08
Page 1

Approved: March 29, 2011

⌈	Na	23	346916.855	1.74	0.0525	0.006	11.655	mg/L
|	Mg	24	438362.995	2.31	0.1109	0.008	7.087	mg/L
|	K	39	1539511.755	5.74	0.1541	0.013	8.713	mg/L
|	Ca	43	1363.564	0.00	0.0288	0.014	48.654	mg/L
|	Fe	54	6850995.949	35.93	11.5448	1.066	9.236	mg/L
|	Fe	57	2926270.910	15.39	11.6214	0.799	6.877	mg/L
⌊>	Sc-1	45	189904.575	189904.57				mg/L
	Cl	35	13421.669	-439.94				mg/L
	Kr	83	101.335	43.33				mg/L
	Br	81	6857.687	1967.82				mg/L
	P	31	60850.790	55433.99				mg/L
	S	34	122478.833	-24936.04				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		114.412			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.337			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		110.872			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.197			
⌈	Na	23					

Sample ID: L1103092506PS WG360123-01
Report Date/Time: Monday, March 28, 2011 16:39:08
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103092506PS WG360123-01
Report Date/Time: Monday, March 28, 2011 16:39:08
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092506SDL WG360123-02

Sample Date/Time: Monday, March 28, 2011 16:43:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 41
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18517.197	-0.01				ug/L
|	Be	9	31.333	0.00	-0.0132	0.021	161.349	ug/L
|	Al	27	4444132.852	28.09	873.6968	28.295	3.239	ug/L
⌊>	Sc	45	158022.215	158022.22				ug/L
⌈	Ti	49	676.758	0.00	1.2457	0.250	20.075	ug/L
|	V	51	14781.752	0.03	1.4673	0.018	1.217	ug/L
|	Cr	52	16245.682	0.02	1.0234	0.016	1.564	ug/L
|	Cr	53	1210.195	0.00	0.9871	0.196	19.903	ug/L
|	Mn	55	203425.317	0.58	18.3070	0.281	1.535	ug/L
|	Co	59	9142.269	0.03	1.0682	0.015	1.437	ug/L
|	Ni	60	1760.839	0.00	0.9245	0.013	1.384	ug/L
|	Cu	65	2280.950	0.01	1.1371	0.013	1.145	ug/L
|	Zn	66	4232.605	0.01	1.5741	0.064	4.089	ug/L
|>	Ge	72	351231.952	351231.95				ug/L
|	As	75	-14.555	0.00	0.2256	0.010	4.250	ug/L
|	Se	77	68.667	0.00	0.0693	0.030	43.211	ug/L
|	Se	82	13.336	0.00	0.4226	0.093	21.958	ug/L
⌊	Rb	85	3632.363	0.01				mg/L
	Y	89	267110.849	55453.28				ug/L
	Rh	103	17.000	4.33				ug/L
⌈	Mo	98	47.247	0.00	0.0165	0.001	5.120	ug/L
|	Ag	107	52.334	0.00	0.0080	0.001	13.796	ug/L
|	Cd	114	-1.586	0.00	0.0177	0.005	28.564	ug/L
|>	In	115	333637.547	333637.55				ug/L
|	Sn	118	113.867	-0.00	-0.1318	0.001	0.920	ug/L
⌊	Sb	123	353.038	0.00	0.0795	0.006	7.298	ug/L
⌈	Ba	135	2836.097	0.01	1.7336	0.011	0.607	ug/L
|	Ce	140	139378.479	0.33				ug/L
⌊>	Tb	159	423594.679	423594.68				ug/L
⌈	Ho	165	1690.312	0.00				ug/L
|	Tl	203	71.001	0.00	0.0055	0.002	38.340	ug/L
|	Tl	205	156.684	0.00	0.0041	0.001	30.640	ug/L
|	Pb	206	2406.981	0.01	0.3684	0.015	3.990	ug/L
|	Pb	207	1959.545	0.00	0.3075	0.007	2.396	ug/L
|	Pb	208	9224.421	0.02	0.3338	0.002	0.520	ug/L
|	U	238	1970.881	0.01	0.0496	0.000	0.861	ug/L
⌊>	Bi	209	353912.724	353912.72				ug/L

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	75212.624	0.38	0.0027	0.000	12.381	mg/L
|	Mg	24	66231.940	0.42	0.0096	0.000	2.349	mg/L
|	K	39	562182.631	1.18	0.0246	0.002	7.282	mg/L
|	Ca	43	440.054	0.00	-0.0216	0.005	23.536	mg/L
|	Fe	54	1108423.040	6.79	2.1822	0.011	0.519	mg/L
|	Fe	57	452711.978	2.83	2.1331	0.042	1.949	mg/L
⌊>	Sc-1	45	158022.215	158022.22				mg/L
	Cl	35	11499.275	-2362.33				mg/L
	Kr	83	76.334	18.33				mg/L
	Br	81	6800.314	1910.45				mg/L
	P	31	12299.570	6882.77				mg/L
	S	34	125918.538	-21496.34				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		114.080			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.961			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.387			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.621			
⌈	Na	23					

Sample ID: L1103092506SDL WG360123-02
Report Date/Time: Monday, March 28, 2011 16:45:55
Page 2

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092506SDL WG360123-02
Report Date/Time: Monday, March 28, 2011 16:45:55
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 28, 2011 16:50:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17148.027	-0.02				ug/L
|	Be	9	14485.152	0.09	51.2917	0.798	1.557	ug/L
|	Al	27	261613.884	1.63	50.6621	2.559	5.052	ug/L
⌊>	Sc	45	157633.068	157633.07				ug/L
⌈	Ti	49	53920.424	0.15	105.8465	1.757	1.660	ug/L
|	V	51	444432.515	1.26	53.5624	0.445	0.830	ug/L
|	Cr	52	394938.124	1.10	54.4063	0.483	0.888	ug/L
|	Cr	53	44660.640	0.13	52.3471	1.376	2.629	ug/L
|	Mn	55	595385.655	1.70	53.7864	1.173	2.181	ug/L
|	Co	59	469033.202	1.34	55.4731	0.912	1.644	ug/L
|	Ni	60	98872.038	0.28	56.0969	0.851	1.517	ug/L
|	Cu	65	99713.015	0.28	54.9391	0.981	1.786	ug/L
|	Zn	66	61841.623	0.17	52.1014	0.339	0.651	ug/L
| >	Ge	72	350744.567	350744.57				ug/L
|	As	75	60469.730	0.17	54.3525	0.687	1.265	ug/L
|	Se	77	4975.905	0.01	56.9778	1.686	2.959	ug/L
|	Se	82	6001.299	0.02	56.2508	0.857	1.523	ug/L
⌊	Rb	85	2339.964	0.01				mg/L
	Y	89	245316.861	33659.30				ug/L
	Rh	103	35.667	23.00				ug/L
⌈	Mo	98	325785.169	0.95	107.2590	0.292	0.272	ug/L
|	Ag	107	339713.828	0.99	53.5183	0.444	0.829	ug/L
|	Cd	114	70468.084	0.20	52.6582	1.420	2.696	ug/L
| >	In	115	344545.627	344545.63				ug/L
|	Sn	118	246102.284	0.71	52.2122	0.370	0.709	ug/L
⌊	Sb	123	219013.500	0.64	51.3370	0.188	0.367	ug/L
⌈	Ba	135	88521.667	0.20	53.7798	0.033	0.062	ug/L
|	Ce	140	73.341	0.00				ug/L
⌊>	Tb	159	434613.473	434613.47				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	367760.667	1.04	53.1542	0.342	0.644	ug/L
|	Tl	205	911914.647	2.58	53.7578	0.210	0.391	ug/L
|	Pb	206	299571.418	0.85	53.5053	0.451	0.842	ug/L
|	Pb	207	282782.813	0.80	53.6851	0.632	1.176	ug/L
|	Pb	208	1252134.070	3.54	53.6347	0.766	1.428	ug/L
|	U	238	1903076.402	5.39	56.2944	0.412	0.733	ug/L
⌊>	Bi	209	353266.461	353266.46				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 16:52:42
Page 1

Approved: March 29, 2011

Na	23	21613400.995	137.04	5.0247	0.084	1.669	mg/L
Mg	24	14883878.090	94.44	5.0454	0.089	1.769	mg/L
K	39	31051442.115	194.62	5.5257	0.186	3.364	mg/L
Ca	43	74275.564	0.47	5.3264	0.116	2.180	mg/L
Fe	54	2823344.968	17.69	5.6842	0.119	2.101	mg/L
Fe	57	1184757.974	7.48	5.6471	0.205	3.626	mg/L
Sc-1	45	157633.068	157633.07				mg/L
Cl	35	12418.381	-1443.22				mg/L
Kr	83	69.334	11.33				mg/L
Br	81	6924.397	2034.53				mg/L
P	31	7416.083	1999.28				mg/L
S	34	148015.818	600.94				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	107.125				
Cr	52	108.813				
Cr	53					
Mn	55	107.573				
Co	59	110.946				
Ni	60	112.194				
Cu	65	109.878				
Zn	66	104.203				
Ge	72		113.921			
As	75	108.705				
Se	77					
Se	82	112.502				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	107.037				
Cd	114	105.316				
In	115		114.589			
Sn	118					
Sb	123	102.674				
Ba	135	107.560				
Ce	140					
Tb	159		112.233			
Ho	165					
Tl	203	106.308				
Tl	205					
Pb	206					
Pb	207					
Pb	208	107.269				
U	238	112.589				
Bi	209		102.433			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 16:52:42

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Co	59	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	Ni	60	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	Se	82	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 28, 2011 16:57:46
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17849.360	-0.02				ug/L
|	Be	9	16.000	0.00	-0.0683	0.023	33.162	ug/L
|	Al	27	5985.135	0.00	0.1714	0.136	79.305	ug/L
⌊>	Sc	45	162273.740	162273.74				ug/L
⌈	Ti	49	43.338	-0.00	-0.0009	0.029	3226.123	ug/L
|	V	51	2792.742	-0.00	0.0074	0.007	95.097	ug/L
|	Cr	52	9065.199	-0.00	-0.0192	0.023	122.328	ug/L
|	Cr	53	223.358	-0.00	-0.1848	0.028	15.352	ug/L
|	Mn	55	558.021	0.00	-0.0166	0.002	13.233	ug/L
|	Co	59	65.668	-0.00	-0.0042	0.001	17.348	ug/L
|	Ni	60	61.667	0.00	-0.0404	0.007	17.287	ug/L
|	Cu	65	183.004	0.00	-0.0222	0.004	17.694	ug/L
|	Zn	66	659.362	0.00	-1.5702	0.016	1.019	ug/L
| >	Ge	72	360212.820	360212.82				ug/L
|	As	75	-198.677	-0.00	0.0655	0.019	28.287	ug/L
|	Se	77	75.334	0.00	0.1250	0.094	74.795	ug/L
|	Se	82	1.296	-0.00	0.3099	0.095	30.771	ug/L
⌊	Rb	85	34.334	0.00				mg/L
	Y	89	253634.838	41977.27				ug/L
	Rh	103	16.000	3.33				ug/L
⌈	Mo	98	119.362	0.00	0.0398	0.009	22.778	ug/L
|	Ag	107	42.001	0.00	0.0061	0.001	11.176	ug/L
|	Cd	114	0.204	0.00	0.0191	0.002	9.945	ug/L
| >	In	115	344133.433	344133.43				ug/L
|	Sn	118	231.469	0.00	-0.1075	0.003	3.101	ug/L
⌊	Sb	123	137.988	0.00	0.0265	0.004	14.025	ug/L
⌈	Ba	135	34.000	0.00	-0.0150	0.002	14.791	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	442611.803	442611.80				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	48.001	0.00	0.0021	0.001	43.794	ug/L
|	Tl	205	96.677	0.00	0.0005	0.001	267.157	ug/L
|	Pb	206	327.342	0.00	-0.0036	0.002	63.404	ug/L
|	Pb	207	282.007	-0.00	-0.0115	0.002	16.980	ug/L
|	Pb	208	1278.711	0.00	-0.0071	0.001	18.414	ug/L
|	U	238	74.334	0.00	-0.0065	0.000	4.761	ug/L
⌊>	Bi	209	359036.662	359036.66				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 16:59:57
Page 1

Approved: March 29, 2011

⌈	Na	23	16541.993	0.01	-0.0110	0.000	0.552	mg/L
|	Mg	24	403.382	-0.00	-0.0127	0.000	0.112	mg/L
|	K	39	385785.205	0.01	-0.0090	0.002	25.815	mg/L
|	Ca	43	476.726	0.00	-0.0199	0.001	6.201	mg/L
|	Fe	54	37786.824	0.01	0.0037	0.002	44.200	mg/L
|	Fe	57	7223.337	0.01	0.0033	0.001	27.207	mg/L
⌊>	Sc-1	45	162273.740	162273.74				mg/L
	Cl	35	11274.352	-2587.25				mg/L
	Kr	83	81.001	23.00				mg/L
	Br	81	7380.723	2490.86				mg/L
	P	31	6620.219	1203.42				mg/L
	S	34	130395.569	-17019.30				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		116.997			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		114.452			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		114.298			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.106			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 16:59:57
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 16:59:57

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092601 WG360101-01

Sample Date/Time: Monday, March 28, 2011 17:04:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 42
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18767.677	-0.03				ug/L
|	Be	9	43.333	0.00	0.0056	0.012	223.926	ug/L
|	Al	27	21938224.551	117.50	3654.0667	213.000	5.829	ug/L
⌊>	Sc	45	186847.236	186847.24				ug/L
⌈	Ti	49	6619.519	0.02	12.8453	0.131	1.017	ug/L
|	V	51	110761.125	0.31	13.0282	0.455	3.496	ug/L
|	Cr	52	51358.797	0.12	5.9336	0.238	4.006	ug/L
|	Cr	53	5381.988	0.01	5.8818	0.323	5.487	ug/L
|	Mn	55	420085.593	1.19	37.7054	1.634	4.333	ug/L
|	Co	59	3538.995	0.01	0.4044	0.014	3.571	ug/L
|	Ni	60	2420.651	0.01	1.2926	0.048	3.731	ug/L
|	Cu	65	5225.084	0.01	2.7473	0.039	1.419	ug/L
|	Zn	66	10530.647	0.03	7.0484	0.142	2.017	ug/L
|>	Ge	72	352824.945	352824.94				ug/L
|	As	75	124.593	0.00	0.3495	0.063	17.904	ug/L
|	Se	77	79.334	0.00	0.1892	0.121	63.886	ug/L
|	Se	82	12.977	0.00	0.4187	0.177	42.245	ug/L
⌊	Rb	85	30043.075	0.09				mg/L
	Y	89	259859.727	48202.16				ug/L
	Rh	103	17.667	5.00				ug/L
⌈	Mo	98	140.660	0.00	0.0476	0.005	10.328	ug/L
|	Ag	107	105.335	0.00	0.0164	0.001	9.078	ug/L
|	Cd	114	256.595	0.00	0.2141	0.027	12.525	ug/L
|>	In	115	338489.715	338489.72				ug/L
|	Sn	118	193.069	0.00	-0.1150	0.001	1.182	ug/L
⌊	Sb	123	285.035	0.00	0.0621	0.009	14.201	ug/L
⌈	Ba	135	16193.941	0.04	10.0427	0.239	2.381	ug/L
|	Ce	140	166706.454	0.39				ug/L
⌊>	Tb	159	424480.717	424480.72				ug/L
⌈	Ho	165	1230.199	0.00				ug/L
|	Tl	203	268.673	0.00	0.0334	0.003	9.641	ug/L
|	Tl	205	656.754	0.00	0.0329	0.006	19.306	ug/L
|	Pb	206	20884.004	0.06	3.6044	0.138	3.819	ug/L
|	Pb	207	17772.967	0.05	3.2508	0.090	2.767	ug/L
|	Pb	208	82599.102	0.23	3.4151	0.083	2.433	ug/L
|	U	238	15706.150	0.04	0.4475	0.012	2.571	ug/L
⌊>	Bi	209	359961.186	359961.19				ug/L

Sample ID: L1103092601 WG360101-01
Report Date/Time: Monday, March 28, 2011 17:06:44
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	61209.755	0.23	-0.0027	0.001	32.788	mg/L
|	Mg	24	733710.292	3.93	0.1977	0.013	6.525	mg/L
|	K	39	1323833.470	4.72	0.1250	0.010	7.916	mg/L
|	Ca	43	5505.400	0.03	0.2829	0.007	2.635	mg/L
|	Fe	54	4171518.024	22.11	7.1056	0.353	4.962	mg/L
|	Fe	57	1818428.611	9.70	7.3212	0.308	4.206	mg/L
⌊>	Sc-1	45	186847.236	186847.24				mg/L
	Cl	35	13160.655	-700.95				mg/L
	Kr	83	79.334	21.33				mg/L
	Br	81	7661.601	2771.74				mg/L
	P	31	44587.955	39171.15				mg/L
	S	34	121418.071	-25996.80				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		114.597			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		112.575			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.616			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.375			
⌈	Na	23					

Sample ID: L1103092601 WG360101-01
Report Date/Time: Monday, March 28, 2011 17:06:44
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092602

Sample Date/Time: Monday, March 28, 2011 17:11:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 43
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18684.144	-0.03				ug/L
|	Be	9	58.667	0.00	0.0448	0.026	57.877	ug/L
|	Al	27	34718932.501	178.35	5546.5422	196.892	3.550	ug/L
⌊>	Sc	45	194574.888	194574.89				ug/L
⌈	Ti	49	17744.195	0.05	34.3235	1.719	5.009	ug/L
|	V	51	224236.401	0.62	26.5076	0.951	3.589	ug/L
|	Cr	52	84687.425	0.21	10.5169	0.274	2.607	ug/L
|	Cr	53	9552.190	0.03	10.6981	0.555	5.183	ug/L
|	Mn	55	615680.845	1.73	54.8852	1.976	3.601	ug/L
|	Co	59	7728.065	0.02	0.8903	0.030	3.414	ug/L
|	Ni	60	4906.587	0.01	2.6762	0.080	3.006	ug/L
|	Cu	65	10451.566	0.03	5.5741	0.122	2.184	ug/L
|	Zn	66	16800.611	0.05	12.4084	0.399	3.215	ug/L
|>	Ge	72	355382.903	355382.90				ug/L
|	As	75	697.099	0.00	0.8540	0.058	6.772	ug/L
|	Se	77	83.334	0.00	0.2287	0.196	85.756	ug/L
|	Se	82	-8.449	-0.00	0.2194	0.189	86.330	ug/L
⌊	Rb	85	49442.139	0.14				mg/L
	Y	89	257389.470	45731.91				ug/L
	Rh	103	15.667	3.00				ug/L
⌈	Mo	98	214.511	0.00	0.0732	0.011	14.432	ug/L
|	Ag	107	135.002	0.00	0.0214	0.003	14.629	ug/L
|	Cd	114	280.842	0.00	0.2347	0.027	11.413	ug/L
|>	In	115	334812.939	334812.94				ug/L
|	Sn	118	186.802	0.00	-0.1159	0.002	1.418	ug/L
⌊	Sb	123	167.821	0.00	0.0346	0.002	6.195	ug/L
⌈	Ba	135	26572.226	0.06	16.6337	0.580	3.484	ug/L
|	Ce	140	158750.771	0.38				ug/L
⌊>	Tb	159	421139.634	421139.63				ug/L
⌈	Ho	165	1443.583	0.00				ug/L
|	Tl	203	410.013	0.00	0.0532	0.002	4.641	ug/L
|	Tl	205	973.479	0.00	0.0511	0.012	22.745	ug/L
|	Pb	206	23155.036	0.06	3.9929	0.195	4.894	ug/L
|	Pb	207	19559.656	0.05	3.5758	0.162	4.524	ug/L
|	Pb	208	91851.044	0.25	3.7954	0.172	4.541	ug/L
|	U	238	19326.867	0.05	0.5513	0.024	4.409	ug/L
⌊>	Bi	209	360862.182	360862.18				ug/L

Sample ID: L1103092602
Report Date/Time: Monday, March 28, 2011 17:13:32
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	74030.442	0.29	-0.0008	0.000	23.764	mg/L
|	Mg	24	1050215.040	5.39	0.2762	0.002	0.703	mg/L
|	K	39	1849934.897	7.14	0.1939	0.023	11.675	mg/L
|	Ca	43	6325.966	0.03	0.3177	0.010	3.096	mg/L
|	Fe	54	8695483.453	44.46	14.2836	0.459	3.212	mg/L
|	Fe	57	3777629.437	19.37	14.6267	0.239	1.633	mg/L
⌊>	Sc-1	45	194574.888	194574.89				mg/L
	Cl	35	13731.421	-130.18				mg/L
	Kr	83	90.001	32.00				mg/L
	Br	81	7212.601	2322.74				mg/L
	P	31	65609.228	60192.43				mg/L
	S	34	118210.515	-29204.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		115.428			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.352			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.753			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.636			
⌈	Na	23					

Sample ID: L1103092602
Report Date/Time: Monday, March 28, 2011 17:13:32
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092602
Report Date/Time: Monday, March 28, 2011 17:13:32
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092603S WG360101-04

Sample Date/Time: Monday, March 28, 2011 17:18:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 44
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17849.260	-0.04				ug/L
|	Be	9	1648.803	0.01	4.4687	0.176	3.940	ug/L
|	Al	27	29582760.147	147.15	4576.1498	135.158	2.954	ug/L
⌊>	Sc	45	200832.118	200832.12				ug/L
⌈	Ti	49	18325.330	0.05	34.8293	2.625	7.536	ug/L
|	V	51	233632.196	0.64	27.1434	1.755	6.466	ug/L
|	Cr	52	112614.461	0.29	14.1279	0.863	6.109	ug/L
|	Cr	53	12432.340	0.03	13.8057	1.327	9.614	ug/L
|	Mn	55	532900.849	1.47	46.6646	2.720	5.828	ug/L
|	Co	59	55824.478	0.15	6.3907	0.310	4.858	ug/L
|	Ni	60	15119.919	0.04	8.2536	0.374	4.528	ug/L
|	Cu	65	19186.937	0.05	10.1510	0.485	4.777	ug/L
|	Zn	66	20812.536	0.06	15.5657	0.821	5.273	ug/L
| >	Ge	72	361771.972	361771.97				ug/L
|	As	75	4681.141	0.01	4.3002	0.236	5.484	ug/L
|	Se	77	246.670	0.00	2.0467	0.120	5.879	ug/L
|	Se	82	256.643	0.00	2.6183	0.438	16.734	ug/L
⌊	Rb	85	44136.413	0.12				mg/L
	Y	89	255341.232	43683.67				ug/L
	Rh	103	19.667	7.00				ug/L
⌈	Mo	98	166.843	0.00	0.0572	0.003	4.735	ug/L
|	Ag	107	32647.627	0.10	5.3154	0.327	6.149	ug/L
|	Cd	114	7773.425	0.02	6.0196	0.248	4.118	ug/L
| >	In	115	333507.313	333507.31				ug/L
|	Sn	118	223.202	0.00	-0.1077	0.002	1.989	ug/L
⌊	Sb	123	4447.855	0.01	1.0717	0.051	4.758	ug/L
⌈	Ba	135	28108.142	0.07	17.4574	0.844	4.836	ug/L
|	Ce	140	138079.596	0.33				ug/L
⌊>	Tb	159	424471.785	424471.78				ug/L
⌈	Ho	165	1113.507	0.00				ug/L
|	Tl	203	39620.220	0.11	5.5762	0.299	5.354	ug/L
|	Tl	205	97371.724	0.27	5.5897	0.172	3.085	ug/L
|	Pb	206	53009.482	0.15	9.1753	0.358	3.905	ug/L
|	Pb	207	45814.670	0.13	8.4209	0.394	4.678	ug/L
|	Pb	208	212768.457	0.58	8.8292	0.429	4.860	ug/L
|	U	238	211588.071	0.58	6.0914	0.340	5.580	ug/L
⌊>	Bi	209	362511.516	362511.52				ug/L

Sample ID: L1103092603S WG360101-04
Report Date/Time: Monday, March 28, 2011 17:20:20
Page 1

Approved: March 29, 2011

⌈	Na	23	68702.308	0.25	-0.0022	0.000	8.736	mg/L
|	Mg	24	964999.151	4.80	0.2444	0.004	1.496	mg/L
|	K	39	1811244.144	6.66	0.1804	0.022	12.148	mg/L
|	Ca	43	5965.711	0.03	0.2859	0.018	6.388	mg/L
|	Fe	54	7056202.911	34.91	11.2151	0.147	1.307	mg/L
|	Fe	57	2999098.042	14.89	11.2436	0.078	0.697	mg/L
⌊>	Sc-1	45	200832.118	200832.12				mg/L
	Cl	35	13326.876	-534.73				mg/L
	Kr	83	80.334	22.33				mg/L
	Br	81	7570.865	2681.00				mg/L
	P	31	57046.072	51629.27				mg/L
	S	34	122380.391	-25034.48				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		117.503			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		110.918			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.614			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.114			
⌈	Na	23					

Sample ID: L1103092603S WG360101-04
Report Date/Time: Monday, March 28, 2011 17:20:20
Page 2

Approved: March 29, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092603S WG360101-04
Report Date/Time: Monday, March 28, 2011 17:20:20
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092604SD WG360101-05

Sample Date/Time: Monday, March 28, 2011 17:24:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 45
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18266.760	-0.03				ug/L
|	Be	9	1594.794	0.01	4.5049	0.376	8.355	ug/L
|	Al	27	29630538.495	153.59	4776.4206	216.733	4.538	ug/L
⌊>	Sc	45	192995.456	192995.46				ug/L
⌈	Ti	49	23981.144	0.07	45.4900	1.717	3.775	ug/L
|	V	51	242608.393	0.66	28.1279	1.257	4.469	ug/L
|	Cr	52	108579.813	0.27	13.5401	0.667	4.924	ug/L
|	Cr	53	12115.219	0.03	13.4071	0.559	4.171	ug/L
|	Mn	55	611390.950	1.68	53.4153	2.696	5.048	ug/L
|	Co	59	54470.590	0.15	6.2202	0.198	3.188	ug/L
|	Ni	60	14525.705	0.04	7.9069	0.407	5.143	ug/L
|	Cu	65	18982.210	0.05	10.0165	0.428	4.273	ug/L
|	Zn	66	20890.040	0.06	15.5885	0.860	5.516	ug/L
|>	Ge	72	362610.139	362610.14				ug/L
|	As	75	4574.916	0.01	4.1982	0.224	5.326	ug/L
|	Se	77	258.003	0.00	2.1675	0.313	14.428	ug/L
|	Se	82	216.583	0.00	2.2508	0.171	7.605	ug/L
⌊	Rb	85	46901.632	0.13				mg/L
	Y	89	258665.106	47007.54				ug/L
	Rh	103	22.667	10.00				ug/L
⌈	Mo	98	183.697	0.00	0.0615	0.005	7.320	ug/L
|	Ag	107	31202.650	0.09	4.9581	0.288	5.800	ug/L
|	Cd	114	7562.567	0.02	5.7169	0.304	5.323	ug/L
|>	In	115	341747.879	341747.88				ug/L
|	Sn	118	512.413	0.00	-0.0468	0.007	14.389	ug/L
⌊	Sb	123	3329.034	0.01	0.7813	0.050	6.440	ug/L
⌈	Ba	135	28444.741	0.07	17.6275	0.873	4.951	ug/L
|	Ce	140	153184.335	0.36				ug/L
⌊>	Tb	159	425543.134	425543.13				ug/L
⌈	Ho	165	1106.839	0.00				ug/L
|	Tl	203	37924.259	0.10	5.3054	0.330	6.226	ug/L
|	Tl	205	94598.641	0.26	5.3972	0.317	5.868	ug/L
|	Pb	206	52996.045	0.14	9.1169	0.482	5.283	ug/L
|	Pb	207	46255.969	0.13	8.4511	0.463	5.478	ug/L
|	Pb	208	213812.109	0.58	8.8193	0.503	5.699	ug/L
|	U	238	203798.422	0.56	5.8320	0.367	6.290	ug/L
⌊>	Bi	209	364918.249	364918.25				ug/L

Sample ID: L1103092604SD WG360101-05
Report Date/Time: Monday, March 28, 2011 17:27:09
Page 1

Approved: March 29, 2011

⌈	Na	23	70121.991	0.27	-0.0014	0.000	31.040	mg/L
|	Mg	24	1032519.478	5.35	0.2738	0.014	5.162	mg/L
|	K	39	1830081.294	7.11	0.1931	0.012	6.167	mg/L
|	Ca	43	5528.749	0.03	0.2735	0.005	1.978	mg/L
|	Fe	54	7420067.924	38.25	12.2875	0.832	6.770	mg/L
|	Fe	57	3141560.680	16.25	12.2662	0.710	5.790	mg/L
⌊>	Sc-1	45	192995.456	192995.46				mg/L
	Cl	35	12654.670	-1206.93				mg/L
	Kr	83	87.001	29.00				mg/L
	Br	81	7682.954	2793.09				mg/L
	P	31	58462.714	53045.91				mg/L
	S	34	123455.085	-23959.79				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		117.775			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		113.658			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.890			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.812			
⌈	Na	23					

Sample ID: L1103092604SD WG360101-05
Report Date/Time: Monday, March 28, 2011 17:27:09
Page 2

Approved: March 29, 2011

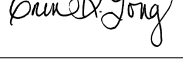
|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092604SD WG360101-05
Report Date/Time: Monday, March 28, 2011 17:27:09
Page 3

Approved: March 29, 2011



Method 6020 - Summary Report

Sample ID: L1103092605

Sample Date/Time: Monday, March 28, 2011 17:31:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 46
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18350.165	-0.03				ug/L
|	Be	9	69.334	0.00	0.0799	0.029	36.501	ug/L
|	Al	27	39377321.381	207.85	6463.9459	408.808	6.324	ug/L
⌊>	Sc	45	189667.035	189667.04				ug/L
⌈	Ti	49	42802.391	0.12	82.1375	2.056	2.503	ug/L
|	V	51	258382.624	0.71	30.3066	0.935	3.086	ug/L
|	Cr	52	95396.018	0.24	11.8831	0.321	2.702	ug/L
|	Cr	53	10399.793	0.03	11.5709	0.689	5.959	ug/L
|	Mn	55	902715.230	2.52	79.7551	2.522	3.163	ug/L
|	Co	59	14754.701	0.04	1.6947	0.066	3.899	ug/L
|	Ni	60	5834.760	0.02	3.1662	0.056	1.764	ug/L
|	Cu	65	13183.153	0.04	6.9965	0.200	2.854	ug/L
|	Zn	66	39571.239	0.11	31.8008	0.952	2.993	ug/L
|>	Ge	72	358727.707	358727.71				ug/L
|	As	75	1189.367	0.00	1.2794	0.047	3.708	ug/L
|	Se	77	76.000	0.00	0.1361	0.064	47.122	ug/L
|	Se	82	20.012	0.00	0.4811	0.166	34.445	ug/L
⌊	Rb	85	63251.856	0.18				mg/L
	Y	89	263424.348	51766.78				ug/L
	Rh	103	24.334	11.67				ug/L
⌈	Mo	98	302.551	0.00	0.1030	0.012	12.090	ug/L
|	Ag	107	121.002	0.00	0.0192	0.002	12.698	ug/L
|	Cd	114	206.769	0.00	0.1782	0.016	9.174	ug/L
|>	In	115	334462.485	334462.48				ug/L
|	Sn	118	194.135	0.00	-0.1142	0.003	2.296	ug/L
⌊	Sb	123	108.360	0.00	0.0203	0.001	5.907	ug/L
⌈	Ba	135	24221.219	0.06	14.9907	0.360	2.404	ug/L
|	Ce	140	413771.334	0.97				ug/L
⌊>	Tb	159	425889.536	425889.54				ug/L
⌈	Ho	165	1533.605	0.00				ug/L
|	Tl	203	506.685	0.00	0.0667	0.007	9.932	ug/L
|	Tl	205	1180.188	0.00	0.0627	0.009	13.704	ug/L
|	Pb	206	27583.282	0.08	4.7461	0.164	3.464	ug/L
|	Pb	207	23311.047	0.06	4.2542	0.132	3.092	ug/L
|	Pb	208	110128.571	0.30	4.5417	0.149	3.280	ug/L
|	U	238	21306.900	0.06	0.6058	0.023	3.719	ug/L
⌊>	Bi	209	362485.328	362485.33				ug/L

Sample ID: L1103092605
Report Date/Time: Monday, March 28, 2011 17:33:57
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	276153.486	1.36	0.0388	0.001	3.510	mg/L
|	Mg	24	883684.104	4.66	0.2369	0.010	4.278	mg/L
|	K	39	1965891.344	8.00	0.2184	0.013	5.733	mg/L
|	Ca	43	1850.357	0.01	0.0582	0.011	18.799	mg/L
|	Fe	54	9342917.963	49.08	15.7669	0.887	5.626	mg/L
|	Fe	57	4049917.157	21.33	16.1047	0.628	3.898	mg/L
⌊>	Sc-1	45	189667.035	189667.04				mg/L
	Cl	35	12921.680	-939.92				mg/L
	Kr	83	75.334	17.33				mg/L
	Br	81	7181.912	2292.05				mg/L
	P	31	53807.093	48390.29				mg/L
	S	34	122768.240	-24646.63				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		116.514			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.235			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		109.980			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.106			
⌈	Na	23					

Sample ID: L1103092605
Report Date/Time: Monday, March 28, 2011 17:33:57
Page 2

Approved: March 29, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092605
Report Date/Time: Monday, March 28, 2011 17:33:57
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: L1103092606

Sample Date/Time: Monday, March 28, 2011 17:38:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 47
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18333.538	-0.03				ug/L
|	Be	9	84.667	0.00	0.1286	0.048	37.011	ug/L
|	Al	27	39687880.639	212.18	6598.5986	108.277	1.641	ug/L
⌊>	Sc	45	187050.656	187050.66				ug/L
⌈	Ti	49	81146.033	0.23	156.0418	2.754	1.765	ug/L
|	V	51	232183.366	0.64	27.2462	0.874	3.207	ug/L
|	Cr	52	59430.343	0.14	6.9399	0.137	1.972	ug/L
|	Cr	53	6486.092	0.02	7.0668	0.596	8.441	ug/L
|	Mn	55	864364.651	2.41	76.4804	0.940	1.229	ug/L
|	Co	59	18455.200	0.05	2.1259	0.041	1.929	ug/L
|	Ni	60	6293.710	0.02	3.4268	0.101	2.954	ug/L
|	Cu	65	11886.179	0.03	6.3054	0.008	0.132	ug/L
|	Zn	66	18447.856	0.05	13.7104	0.338	2.467	ug/L
|>	Ge	72	358185.777	358185.78				ug/L
|	As	75	795.284	0.00	0.9355	0.019	2.037	ug/L
|	Se	77	74.667	0.00	0.1218	0.128	105.163	ug/L
|	Se	82	15.670	0.00	0.4413	0.114	25.791	ug/L
⌊	Rb	85	66855.792	0.19				mg/L
	Y	89	258942.265	47284.70				ug/L
	Rh	103	19.000	6.33				ug/L
⌈	Mo	98	258.362	0.00	0.0879	0.006	6.392	ug/L
|	Ag	107	109.668	0.00	0.0173	0.004	22.580	ug/L
|	Cd	114	2.277	0.00	0.0207	0.005	26.163	ug/L
|>	In	115	335073.662	335073.66				ug/L
|	Sn	118	207.735	0.00	-0.1113	0.001	1.105	ug/L
⌊	Sb	123	46.359	-0.00	0.0053	0.001	17.192	ug/L
⌈	Ba	135	23573.326	0.06	14.7812	0.364	2.462	ug/L
|	Ce	140	317719.849	0.76				ug/L
⌊>	Tb	159	420424.684	420424.68				ug/L
⌈	Ho	165	1650.301	0.00				ug/L
|	Tl	203	497.017	0.00	0.0655	0.003	4.205	ug/L
|	Tl	205	1170.186	0.00	0.0623	0.005	7.645	ug/L
|	Pb	206	30899.309	0.08	5.3383	0.031	0.581	ug/L
|	Pb	207	26276.410	0.07	4.8165	0.043	0.889	ug/L
|	Pb	208	124058.313	0.34	5.1378	0.021	0.407	ug/L
|	U	238	17770.955	0.05	0.5052	0.005	0.953	ug/L
⌊>	Bi	209	361458.932	361458.93				ug/L

Sample ID: L1103092606
Report Date/Time: Monday, March 28, 2011 17:40:43
Page 1

Approved: March 29, 2011

⌈	Na	23	43227.546	0.14	-0.0063	0.000	2.914	mg/L
|	Mg	24	1477190.024	7.90	0.4102	0.008	2.015	mg/L
|	K	39	3036880.572	13.87	0.3852	0.008	1.952	mg/L
|	Ca	43	586.743	0.00	-0.0176	0.002	11.510	mg/L
|	Fe	54	8094986.948	43.07	13.8377	0.357	2.580	mg/L
|	Fe	57	3546800.633	18.93	14.2907	0.243	1.702	mg/L
⌊>	Sc-1	45	187050.656	187050.66				mg/L
	Cl	35	12784.835	-1076.77				mg/L
	Kr	83	76.334	18.33				mg/L
	Br	81	6792.974	1903.11				mg/L
	P	31	42068.326	36651.53				mg/L
	S	34	121044.964	-26369.91				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		116.338			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		111.438			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		108.569			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.809			
⌈	Na	23					

Sample ID: L1103092606
Report Date/Time: Monday, March 28, 2011 17:40:43
Page 2

Approved: March 29, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092606
Report Date/Time: Monday, March 28, 2011 17:40:43
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, March 28, 2011 17:45:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18016.243	-0.01				ug/L
|	Be	9	14369.651	0.09	50.5089	1.528	3.025	ug/L
|	Al	27	272703.874	1.68	52.4067	0.586	1.117	ug/L
⌊>	Sc	45	158835.158	158835.16				ug/L
⌈	Ti	49	52971.925	0.15	102.8551	1.805	1.755	ug/L
|	V	51	436261.510	1.22	51.9926	0.515	0.991	ug/L
|	Cr	52	387781.021	1.07	52.7992	0.496	0.940	ug/L
|	Cr	53	46137.494	0.13	53.4869	1.143	2.138	ug/L
|	Mn	55	589478.019	1.66	52.6634	0.046	0.087	ug/L
|	Co	59	461465.285	1.30	53.9772	0.247	0.457	ug/L
|	Ni	60	98596.673	0.28	55.3244	0.143	0.259	ug/L
|	Cu	65	99741.332	0.28	54.3492	0.780	1.435	ug/L
|	Zn	66	60784.816	0.17	50.5968	0.736	1.455	ug/L
| >	Ge	72	354598.029	354598.03				ug/L
|	As	75	60012.949	0.17	53.3535	0.521	0.976	ug/L
|	Se	77	4850.509	0.01	54.8998	0.304	0.554	ug/L
|	Se	82	5876.242	0.02	54.4836	0.993	1.823	ug/L
⌊	Rb	85	2344.965	0.01				mg/L
	Y	89	244094.026	32436.46				ug/L
	Rh	103	37.000	24.33				ug/L
⌈	Mo	98	323103.158	0.94	106.5473	1.113	1.045	ug/L
|	Ag	107	337621.034	0.98	53.2760	0.865	1.625	ug/L
|	Cd	114	67849.010	0.20	50.7849	0.783	1.542	ug/L
| >	In	115	344013.375	344013.38				ug/L
|	Sn	118	244326.442	0.71	51.9202	0.838	1.615	ug/L
⌊	Sb	123	215683.063	0.63	50.6396	0.773	1.526	ug/L
⌈	Ba	135	88357.249	0.20	53.4876	0.639	1.194	ug/L
|	Ce	140	76.675	0.00				ug/L
⌊>	Tb	159	436165.355	436165.35				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	372874.577	1.03	52.7193	0.834	1.582	ug/L
|	Tl	205	930785.658	2.58	53.6792	1.266	2.359	ug/L
|	Pb	206	300942.942	0.83	52.5754	0.690	1.311	ug/L
|	Pb	207	283456.429	0.78	52.6339	0.994	1.889	ug/L
|	Pb	208	1260761.460	3.49	52.8177	0.632	1.197	ug/L
|	U	238	1980124.013	5.48	57.2940	0.294	0.513	ug/L
⌊>	Bi	209	361157.324	361157.32				ug/L

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 17:47:30
Page 1

Approved: March 29, 2011

Erin D. Long

Na	23	21959266.462	138.19	5.0667	0.079	1.556	mg/L
Mg	24	15161436.211	95.48	5.1010	0.124	2.429	mg/L
K	39	30842225.842	191.89	5.4480	0.181	3.330	mg/L
Ca	43	76166.572	0.48	5.4220	0.154	2.848	mg/L
Fe	54	2687098.875	16.70	5.3659	0.169	3.149	mg/L
Fe	57	1189808.262	7.45	5.6273	0.136	2.416	mg/L
> Sc-1	45	158835.158	158835.16				mg/L
Cl	35	11554.008	-2307.60				mg/L
Kr	83	67.001	9.00				mg/L
Br	81	6838.338	1948.48				mg/L
P	31	7050.492	1633.69				mg/L
S	34	141905.211	-5509.66				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	103.985				
Cr	52	105.598				
Cr	53					
Mn	55	105.327				
Co	59	107.954				
Ni	60	110.649				
Cu	65	108.698				
Zn	66	101.194				
> Ge	72		115.173			
As	75	106.707				
Se	77					
Se	82	108.967				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	106.552				
Cd	114	101.570				
> In	115		114.412			
Sn	118					
Sb	123	101.279				
Ba	135	106.975				
Ce	140					
> Tb	159		112.634			
Ho	165					
Tl	203	105.439				
Tl	205					
Pb	206					
Pb	207					
Pb	208	105.635				
U	238	114.588				
> Bi	209		104.721			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 17:47:30

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Ni	60	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Monday, March 28, 2011 17:47:30
Page 3

Approved: March 29, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, March 28, 2011 17:52:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17264.896	-0.02				ug/L
|	Be	9	18.667	0.00	-0.0600	0.027	45.031	ug/L
|	Al	27	6435.415	0.00	0.2544	0.128	50.418	ug/L
⌊>	Sc	45	162509.999	162510.00				ug/L
⌈	Ti	49	36.670	-0.00	-0.0142	0.022	153.129	ug/L
|	V	51	2727.147	-0.00	-0.0027	0.007	264.170	ug/L
|	Cr	52	9019.156	-0.00	-0.0345	0.017	48.793	ug/L
|	Cr	53	230.026	-0.00	-0.1790	0.057	32.057	ug/L
|	Mn	55	586.023	0.00	-0.0145	0.002	13.684	ug/L
|	Co	59	59.667	-0.00	-0.0050	0.001	18.226	ug/L
|	Ni	60	57.334	-0.00	-0.0430	0.007	16.909	ug/L
|	Cu	65	181.670	0.00	-0.0236	0.009	39.035	ug/L
|	Zn	66	653.028	0.00	-1.5796	0.007	0.430	ug/L
|>	Ge	72	362852.716	362852.72				ug/L
|	As	75	-130.433	0.00	0.1257	0.018	14.710	ug/L
|	Se	77	68.000	0.00	0.0364	0.058	158.652	ug/L
|	Se	82	15.418	0.00	0.4367	0.126	28.797	ug/L
⌊	Rb	85	42.334	0.00				mg/L
	Y	89	253265.608	41608.04				ug/L
	Rh	103	19.000	6.33				ug/L
⌈	Mo	98	126.997	0.00	0.0419	0.009	20.639	ug/L
|	Ag	107	31.667	-0.00	0.0045	0.000	10.969	ug/L
|	Cd	114	-2.766	-0.00	0.0169	0.003	15.308	ug/L
|>	In	115	348205.012	348205.01				ug/L
|	Sn	118	240.670	0.00	-0.1061	0.002	1.537	ug/L
⌊	Sb	123	63.031	0.00	0.0087	0.002	25.177	ug/L
⌈	Ba	135	26.000	-0.00	-0.0198	0.002	11.730	ug/L
|	Ce	140	43.338	-0.00				ug/L
⌊>	Tb	159	443618.087	443618.09				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	46.334	0.00	0.0017	0.002	95.639	ug/L
|	Tl	205	80.008	0.00	-0.0005	0.001	184.949	ug/L
|	Pb	206	292.674	-0.00	-0.0106	0.002	22.585	ug/L
|	Pb	207	273.006	-0.00	-0.0140	0.004	28.355	ug/L
|	Pb	208	1251.044	-0.00	-0.0092	0.002	17.285	ug/L
|	U	238	74.001	0.00	-0.0065	0.000	1.626	ug/L
⌊>	Bi	209	365253.410	365253.41				ug/L

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 17:54:44
Page 1

Approved: March 29, 2011

Erin D. Long

⌈	Na	23	16976.097	0.01	-0.0109	0.000	0.731	mg/L
|	Mg	24	446.722	-0.00	-0.0127	0.000	0.275	mg/L
|	K	39	363121.410	-0.14	-0.0131	0.000	2.182	mg/L
|	Ca	43	343.374	-0.00	-0.0293	0.005	16.423	mg/L
|	Fe	54	39568.564	0.02	0.0071	0.003	39.308	mg/L
|	Fe	57	7233.346	0.01	0.0034	0.003	78.521	mg/L
⌊>	Sc-1	45	162509.999	162510.00				mg/L
	Cl	35	10534.214	-3327.39				mg/L
	Kr	83	67.001	9.00				mg/L
	Br	81	7478.796	2588.93				mg/L
	P	31	6603.522	1186.72				mg/L
	S	34	126867.764	-20547.11				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		117.854			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		115.806			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		114.558			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.909			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 17:54:44

Approved: March 29, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 7	Se	82	CCB IS OUT OF LIMITS (+/-1/2RL)

Sample ID: QC Std 7
Report Date/Time: Monday, March 28, 2011 17:54:44
Page 3

Approved: March 29, 2011

Instrument Tuning Report

File Name: 06302008.tun
File Path: C:\Elandata\Tuning\06302008.tun

Sample Information

Sample Date/Time: Tuesday, March 29, 2011 08:22:20

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.026	621	2060	0.762	
Li	7.016	7.029	1588	2060	0.722	
Co	58.933	58.929	14276	1990	0.677	
Ce	139.905	139.979	33992	2025	0.684	
Tl	204.975	204.976	49689	2255	0.708	

Relative Std. Dev.

Mass	Meas. Intens. RSD
2.000	0.665
3.000	0.750
4.000	28.770
5.000	21.840
6.000	1.916
7.000	1.975
8.000	24.207
9.000	2.952
58.000	1.545
59.000	0.815
60.000	10.047
139.000	8.242
140.000	0.749
141.000	23.541
204.000	2.682
205.000	1.541
206.000	1.366

Report Date/Time: Tuesday, March 29, 2011 08:23:32
Page 1

Approved: March 30, 2011
Erin D. Long

Daily Performance Report

Sample ID: Sample
Sample Date/Time: Tuesday, March 29, 2011 08:27:04
Sample Description:
Method File: C:\Elandata\Method\6020 DAILY.mth
Dataset File: C:\elandata\Dataset\032811\Sample.109
Tuning File: C:\Elandata\Tuning\06302008.tun
Optimization File: C:\elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 50
Current Dead Time (ns): 50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	49661.7	49661.711	229.687	0.5
	Rh	102.9	247696.8	247696.819	1256.509	0.5
	In	114.9	517301.4	517301.353	2691.389	0.5
	Pb	208.0	197300.9	197300.874	386.898	0.2
	U	238.1	21.0	21.000	3.142	15.0
⌈>	Ba	137.9	277017.8	277017.787	1325.308	0.5
⌊	Ba++	69.0	4287.4	0.015	0.000	1.4
⌈>	Ce	139.9	280280.5	280280.520	1949.157	0.7
⌊	CeO	155.9	5821.7	0.021	0.000	0.2
	Bkgd	220.0	19.6	19.600	3.029	15.5
	Ar2	79.9	5354853.8	5354853.761	16659.301	0.3

Current Optimization File Data

Current Value	Description
0.98	Nebulizer Gas Flow
6.40	Lens Voltage
1500.00	ICP RF Power
-1862.50	Analog Stage Voltage
1000.00	Pulse Stage Voltage
20.00	Discriminator Threshold
-10.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	33	5.3	3999.5
Co	59	33	6.0	120809.0
Rh	103	33	6.8	174421.7
Pb	208	33	7.8	173459.1

Sample ID: Sample
Report Date/Time: Tuesday, March 29, 2011 08:29:12
Page 1

Approved: March 30, 2011
Erin D. Long

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, March 29, 2011 08:47:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15428.584					ug/L
|	Be	9	15.333					ug/L
|	Al	27	5935.106					ug/L
|>	Sc	45	136880.546					ug/L
⌈	Ti	49	53.339					ug/L
|	V	51	3096.272					ug/L
|	Cr	52	10239.342					ug/L
|	Cr	53	350.041					ug/L
|	Mn	55	526.019					ug/L
|	Co	59	125.669					ug/L
|	Ni	60	103.335					ug/L
|	Cu	65	163.670					ug/L
|	Zn	66	512.685					ug/L
|>	Ge	72	314884.833					ug/L
|	As	75	-156.915					ug/L
|	Se	77	68.000					ug/L
|	Se	82	2.374					ug/L
⌊	Rb	85	39.334					mg/L
	Y	89	216036.948					ug/L
	Rh	103	24.667					ug/L
⌈	Mo	98	22.096					ug/L
|	Ag	107	31.334					ug/L
|	Cd	114	-4.640					ug/L
|>	In	115	300930.476					ug/L
|	Sn	118	145.334					ug/L
⌊	Sb	123	31.445					ug/L
⌈	Ba	135	66.668					ug/L
|	Ce	140	33.337					ug/L
⌊>	Tb	159	379402.143					ug/L
⌈	Ho	165	23.336					ug/L
|	Tl	203	29.334					ug/L
|	Tl	205	26.669					ug/L
|	Pb	206	277.340					ug/L
|	Pb	207	265.673					ug/L
|	Pb	208	1131.036					ug/L
|	U	238	20.334					ug/L
⌊>	Bi	209	316425.939					ug/L

Sample ID: Blank
Report Date/Time: Tuesday, March 29, 2011 08:49:18
Page 1

Approved: March 30, 2011

Na	23	189042.797		mg/L
Mg	24	313.370		mg/L
K	39	361107.468		mg/L
Ca	43	350.041		mg/L
Fe	54	31638.407		mg/L
Fe	57	6936.442		mg/L
Sc-1	45	136880.546		mg/L
Cl	35	9850.184		mg/L
Kr	83	72.001		mg/L
Br	81	6025.154		mg/L
P	31	5733.005		mg/L
S	34	117919.220		mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209					
Na	23					

Sample ID: Blank
Report Date/Time: Tuesday, March 29, 2011 08:49:18
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Tuesday, March 29, 2011 08:49:18
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, March 29, 2011 08:47:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15428.584					ug/L
|	Be	9	15.333					ug/L
|	Al	27	5935.106					ug/L
|>	Sc	45	136880.546					ug/L
⌈	Ti	49	53.339					ug/L
|	V	51	3096.272					ug/L
|	Cr	52	10239.342					ug/L
|	Cr	53	350.041					ug/L
|	Mn	55	526.019					ug/L
|	Co	59	125.669					ug/L
|	Ni	60	103.335					ug/L
|	Cu	65	163.670					ug/L
|	Zn	66	512.685					ug/L
|>	Ge	72	314884.833					ug/L
|	As	75	-156.915					ug/L
|	Se	77	68.000					ug/L
|	Se	82	2.374					ug/L
⌊	Rb	85	39.334					mg/L
	Y	89	216036.948					ug/L
	Rh	103	24.667					ug/L
⌈	Mo	98	22.096					ug/L
|	Ag	107	31.334					ug/L
|	Cd	114	-4.640					ug/L
|>	In	115	300930.476					ug/L
|	Sn	118	145.334					ug/L
⌊	Sb	123	31.445					ug/L
⌈	Ba	135	66.668					ug/L
|	Ce	140	33.337					ug/L
⌊>	Tb	159	379402.143					ug/L
⌈	Ho	165	23.336					ug/L
|	Tl	203	29.334					ug/L
|	Tl	205	26.669					ug/L
|	Pb	206	277.340					ug/L
|	Pb	207	265.673					ug/L
|	Pb	208	1131.036					ug/L
|	U	238	20.334					ug/L
⌊>	Bi	209	316425.939					ug/L

Sample ID: Blank
Report Date/Time: Tuesday, March 29, 2011 10:45:26
Page 1

Approved: March 30, 2011

⌈	Na	23	189042.797	mg/L
|	Mg	24	313.370	mg/L
|	K	39	361107.468	mg/L
|	Ca	43	350.041	mg/L
|	Fe	54	31638.407	mg/L
|	Fe	57	6936.442	mg/L
⌊>	Sc-1	45	136880.546	mg/L
	Cl	35	9850.184	mg/L
	Kr	83	72.001	mg/L
	Br	81	6025.154	mg/L
	P	31	5733.005	mg/L
	S	34	117919.220	mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Blank
Report Date/Time: Tuesday, March 29, 2011 10:45:26
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Blank
Report Date/Time: Tuesday, March 29, 2011 10:45:26
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, March 29, 2011 08:53:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17097.946	0.01				ug/L
|	Be	9	12.667	-0.00				ug/L
|	Al	27	6685.573	0.00				ug/L
⌊>	Sc	45	140514.179	140514.18				ug/L
⌈	Ti	49	36.670	-0.00				ug/L
|	V	51	2992.530	-0.00				ug/L
|	Cr	52	9946.044	-0.00				ug/L
|	Cr	53	296.701	-0.00				ug/L
|	Mn	55	485.683	-0.00				ug/L
|	Co	59	107.668	-0.00				ug/L
|	Ni	60	91.335	-0.00				ug/L
|	Cu	65	153.336	-0.00				ug/L
|	Zn	66	638.360	0.00				ug/L
|>	Ge	72	322364.555	322364.55				ug/L
|	As	75	-154.254	0.00				ug/L
|	Se	77	61.334	-0.00				ug/L
|	Se	82	-0.710	-0.00				ug/L
⌊	Rb	85	35.334	-0.00				mg/L
	Y	89	221022.145	4985.20				ug/L
	Rh	103	23.000	-1.67				ug/L
⌈	Mo	98	19.173	-0.00				ug/L
|	Ag	107	28.667	-0.00				ug/L
|	Cd	114	-5.355	-0.00				ug/L
|>	In	115	304675.459	304675.46				ug/L
|	Sn	118	133.868	-0.00				ug/L
⌊	Sb	123	21.443	-0.00				ug/L
⌈	Ba	135	63.001	-0.00				ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	386062.262	386062.26				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	25.667	-0.00				ug/L
|	Tl	205	53.339	0.00				ug/L
|	Pb	206	269.340	-0.00				ug/L
|	Pb	207	240.672	-0.00				ug/L
|	Pb	208	1071.366	-0.00				ug/L
|	U	238	21.000	0.00				ug/L
⌊>	Bi	209	320135.621	320135.62				ug/L

Sample ID: Standard 1
Report Date/Time: Tuesday, March 29, 2011 08:56:02
Page 1

Approved: March 30, 2011

⌈	Na	23	186291.473	-0.05		mg/L
|	Mg	24	276.698	-0.00		mg/L
|	K	39	343746.049	-0.19		mg/L
|	Ca	43	303.368	-0.00		mg/L
|	Fe	54	33740.445	0.01		mg/L
|	Fe	57	6539.458	-0.00		mg/L
⌊>	Sc-1	45	140514.179	140514.18		mg/L
	Cl	35	9247.611	-602.57		mg/L
	Kr	83	81.668	9.67		mg/L
	Br	81	6142.554	117.40		mg/L
	P	31	5787.677	54.67		mg/L
	S	34	109480.032	-8439.19		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 1
Report Date/Time: Tuesday, March 29, 2011 08:56:02
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Tuesday, March 29, 2011 08:56:02
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, March 29, 2011 08:53:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17097.946	0.01				ug/L
|	Be	9	12.667	-0.00	0.0146	0.023	155.941	ug/L
|	Al	27	6685.573	0.00	-0.2699	0.114	42.086	ug/L
⌊>	Sc	45	140514.179	140514.18				ug/L
⌈	Ti	49	36.670	-0.00	-0.1223	0.030	24.250	ug/L
|	V	51	2992.530	-0.00	0.0189	0.004	22.263	ug/L
|	Cr	52	9946.044	-0.00	0.0419	0.011	25.711	ug/L
|	Cr	53	296.701	-0.00	0.0643	0.073	114.179	ug/L
|	Mn	55	485.683	-0.00	-0.1239	0.006	4.629	ug/L
|	Co	59	107.668	-0.00	0.0008	0.001	142.264	ug/L
|	Ni	60	91.335	-0.00	-0.0220	0.004	17.053	ug/L
|	Cu	65	153.336	-0.00	-0.0104	0.006	58.046	ug/L
|	Zn	66	638.360	0.00	-2.7746	0.025	0.906	ug/L
| >	Ge	72	322364.555	322364.55				ug/L
|	As	75	-154.254	0.00	0.0030	0.039	1333.192	ug/L
|	Se	77	61.334	-0.00	-0.2475	0.062	24.915	ug/L
|	Se	82	-0.710	-0.00	0.0845	0.149	175.964	ug/L
⌊	Rb	85	35.334	-0.00				mg/L
	Y	89	221022.145	4985.20				ug/L
	Rh	103	23.000	-1.67				ug/L
⌈	Mo	98	19.173	-0.00	-0.0024	0.002	102.940	ug/L
|	Ag	107	28.667	-0.00	0.0012	0.001	52.021	ug/L
|	Cd	114	-5.355	-0.00	-0.0089	0.005	61.301	ug/L
| >	In	115	304675.459	304675.46				ug/L
|	Sn	118	133.868	-0.00	-0.0792	0.002	2.261	ug/L
⌊	Sb	123	21.443	-0.00	0.0153	0.001	5.519	ug/L
⌈	Ba	135	63.001	-0.00	0.0150	0.003	17.473	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	386062.262	386062.26				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	25.667	-0.00	0.0113	0.001	10.489	ug/L
|	Tl	205	53.339	0.00	0.0038	0.002	40.118	ug/L
|	Pb	206	269.340	-0.00	0.0034	0.005	134.972	ug/L
|	Pb	207	240.672	-0.00	0.0053	0.002	43.828	ug/L
|	Pb	208	1071.366	-0.00	0.0020	0.002	97.710	ug/L
|	U	238	21.000	0.00	-0.0019	0.000	5.661	ug/L
⌊>	Bi	209	320135.621	320135.62				ug/L

Sample ID: Standard 1
Report Date/Time: Tuesday, March 29, 2011 10:45:27
Page 1

Approved: March 30, 2011

⌈	Na	23	186291.473	-0.05	0.0103	0.001	12.390	mg/L
|	Mg	24	276.698	-0.00	-0.0046	0.000	0.123	mg/L
|	K	39	343746.049	-0.19	-0.0108	0.003	24.073	mg/L
|	Ca	43	303.368	-0.00	-0.0086	0.003	33.089	mg/L
|	Fe	54	33740.445	0.01	-0.0010	0.003	307.292	mg/L
|	Fe	57	6539.458	-0.00	-0.0056	0.001	19.311	mg/L
⌊>	Sc-1	45	140514.179	140514.18				mg/L
	Cl	35	9247.611	-602.57				mg/L
	Kr	83	81.668	9.67				mg/L
	Br	81	6142.554	117.40				mg/L
	P	31	5787.677	54.67				mg/L
	S	34	109480.032	-8439.19				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 1
Report Date/Time: Tuesday, March 29, 2011 10:45:27
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 1
Report Date/Time: Tuesday, March 29, 2011 10:45:27
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, March 29, 2011 09:00:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16263.263	0.00				ug/L
|	Be	9	111.334	0.00				ug/L
|	Al	27	9904.920	0.03				ug/L
|>	Sc	45	141156.608	141156.61				ug/L
⌈	Ti	49	503.396	0.00				ug/L
|	V	51	6198.546	0.01				ug/L
|	Cr	52	12592.716	0.01				ug/L
|	Cr	53	580.075	0.00				ug/L
|	Mn	55	6169.631	0.02				ug/L
|	Co	59	3471.637	0.01				ug/L
|	Ni	60	841.711	0.00				ug/L
|	Cu	65	896.049	0.00				ug/L
|	Zn	66	4114.554	0.01				ug/L
|>	Ge	72	326018.316	326018.32				ug/L
|	As	75	293.991	0.00				ug/L
|	Se	77	118.667	0.00				ug/L
|	Se	82	33.259	0.00				ug/L
⌊	Rb	85	66.334	0.00				mg/L
	Y	89	222810.827	6773.88				ug/L
	Rh	103	26.000	1.33				ug/L
⌈	Mo	98	2480.173	0.01				ug/L
|	Ag	107	2498.004	0.01				ug/L
|	Cd	114	524.733	0.00				ug/L
|>	In	115	307544.077	307544.08				ug/L
|	Sn	118	2327.471	0.01				ug/L
⌊	Sb	123	1648.927	0.01				ug/L
⌈	Ba	135	683.030	0.00				ug/L
|	Ce	140	46.671	0.00				ug/L
|>	Tb	159	388506.135	388506.13				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	2714.729	0.01				ug/L
|	Tl	205	6759.626	0.02				ug/L
|	Pb	206	2473.997	0.01				ug/L
|	Pb	207	2303.622	0.01				ug/L
|	Pb	208	10342.223	0.03				ug/L
|	U	238	13990.921	0.04				ug/L
|>	Bi	209	325028.207	325028.21				ug/L

Sample ID: Standard 2
Report Date/Time: Tuesday, March 29, 2011 09:02:47
Page 1

Approved: March 30, 2011

⌈	Na	23	307926.716	0.80		mg/L
|	Mg	24	125100.262	0.88		mg/L
|	K	39	621214.110	1.76		mg/L
|	Ca	43	953.474	0.00		mg/L
|	Fe	54	53434.283	0.15		mg/L
|	Fe	57	15737.283	0.06		mg/L
⌊>	Sc-1	45	141156.608	141156.61		mg/L
	Cl	35	9788.789	-61.39		mg/L
	Kr	83	85.335	13.33		mg/L
	Br	81	5952.438	-72.72		mg/L
	P	31	5410.131	-322.87		mg/L
	S	34	119394.042	1474.82		mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 2
Report Date/Time: Tuesday, March 29, 2011 09:02:47
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Tuesday, March 29, 2011 09:02:47
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, March 29, 2011 09:00:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 2
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16263.263	0.00				ug/L
|	Be	9	111.334	0.00	0.4000	0.028	6.937	ug/L
|	Al	27	9904.920	0.03	0.4000	0.094	23.408	ug/L
⌊>	Sc	45	141156.608	141156.61				ug/L
⌈	Ti	49	503.396	0.00	0.8000	0.107	13.389	ug/L
|	V	51	6198.546	0.01	0.4000	0.008	2.003	ug/L
|	Cr	52	12592.716	0.01	0.4000	0.021	5.270	ug/L
|	Cr	53	580.075	0.00	0.4000	0.121	30.235	ug/L
|	Mn	55	6169.631	0.02	0.4000	0.012	3.072	ug/L
|	Co	59	3471.637	0.01	0.4000	0.006	1.496	ug/L
|	Ni	60	841.711	0.00	0.4000	0.017	4.237	ug/L
|	Cu	65	896.049	0.00	0.4000	0.014	3.423	ug/L
|	Zn	66	4114.554	0.01	0.4000	0.065	16.325	ug/L
| >	Ge	72	326018.316	326018.32				ug/L
|	As	75	293.991	0.00	0.4000	0.093	23.243	ug/L
|	Se	77	118.667	0.00	0.4000	0.023	5.736	ug/L
|	Se	82	33.259	0.00	0.4000	0.195	48.648	ug/L
⌊	Rb	85	66.334	0.00				mg/L
	Y	89	222810.827	6773.88				ug/L
	Rh	103	26.000	1.33				ug/L
⌈	Mo	98	2480.173	0.01	0.8000	0.009	1.164	ug/L
|	Ag	107	2498.004	0.01	0.4000	0.013	3.289	ug/L
|	Cd	114	524.733	0.00	0.4000	0.007	1.651	ug/L
| >	In	115	307544.077	307544.08				ug/L
|	Sn	118	2327.471	0.01	0.4000	0.011	2.814	ug/L
⌊	Sb	123	1648.927	0.01	0.4000	0.009	2.314	ug/L
⌈	Ba	135	683.030	0.00	0.4000	0.020	5.076	ug/L
|	Ce	140	46.671	0.00				ug/L
⌊>	Tb	159	388506.135	388506.13				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	2714.729	0.01	0.4000	0.008	2.015	ug/L
|	Tl	205	6759.626	0.02	0.4000	0.008	2.020	ug/L
|	Pb	206	2473.997	0.01	0.4000	0.011	2.688	ug/L
|	Pb	207	2303.622	0.01	0.4000	0.015	3.871	ug/L
|	Pb	208	10342.223	0.03	0.4000	0.007	1.873	ug/L
|	U	238	13990.921	0.04	0.4000	0.006	1.601	ug/L
⌊>	Bi	209	325028.207	325028.21				ug/L

Sample ID: Standard 2
Report Date/Time: Tuesday, March 29, 2011 10:45:29
Page 1

Approved: March 30, 2011

⌈	Na	23	307926.716	0.80	0.0400	0.003	8.193	mg/L
|	Mg	24	125100.262	0.88	0.0400	0.002	4.711	mg/L
|	K	39	621214.110	1.76	0.0400	0.002	5.034	mg/L
|	Ca	43	953.474	0.00	0.0400	0.004	10.834	mg/L
|	Fe	54	53434.283	0.15	0.0400	0.007	16.732	mg/L
|	Fe	57	15737.283	0.06	0.0400	0.004	9.995	mg/L
⌊>	Sc-1	45	141156.608	141156.61				mg/L
	Cl	35	9788.789	-61.39				mg/L
	Kr	83	85.335	13.33				mg/L
	Br	81	5952.438	-72.72				mg/L
	P	31	5410.131	-322.87				mg/L
	S	34	119394.042	1474.82				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 2
Report Date/Time: Tuesday, March 29, 2011 10:45:29
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 2
Report Date/Time: Tuesday, March 29, 2011 10:45:29

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Tuesday, March 29, 2011 09:07:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15295.128	-0.01				ug/L
|	Be	9	13308.851	0.09	50.0000	0.963	1.927	ug/L
|	Al	27	258841.226	1.73	50.0000	1.145	2.290	ug/L
|>	Sc	45	145839.275	145839.28				ug/L
⌈	Ti	49	50207.473	0.16	100.0000	4.612	4.612	ug/L
|	V	51	414326.423	1.28	50.0000	1.616	3.232	ug/L
|	Cr	52	362029.940	1.10	50.0000	1.508	3.017	ug/L
|	Cr	53	41828.141	0.13	50.0000	0.847	1.694	ug/L
|	Mn	55	541690.364	1.69	50.0000	1.645	3.289	ug/L
|	Co	59	422315.993	1.32	50.0000	1.174	2.349	ug/L
|	Ni	60	89310.272	0.28	50.0000	1.128	2.257	ug/L
|	Cu	65	91739.137	0.29	50.0000	1.311	2.622	ug/L
|	Zn	66	58331.555	0.18	50.0000	1.426	2.852	ug/L
|>	Ge	72	320970.318	320970.32				ug/L
|	As	75	55605.207	0.17	50.0000	1.606	3.212	ug/L
|	Se	77	4409.639	0.01	50.0000	1.682	3.363	ug/L
|	Se	82	5278.481	0.02	50.0000	1.613	3.227	ug/L
⌊	Rb	85	2201.264	0.01				mg/L
	Y	89	218578.041	2541.09				ug/L
	Rh	103	48.001	23.33				ug/L
⌈	Mo	98	310201.502	1.01	100.0000	1.436	1.436	ug/L
|	Ag	107	313725.606	1.02	50.0000	1.186	2.371	ug/L
|	Cd	114	65244.377	0.21	50.0000	0.883	1.766	ug/L
|>	In	115	307868.341	307868.34				ug/L
|	Sn	118	230357.305	0.75	50.0000	0.625	1.251	ug/L
⌊	Sb	123	212106.498	0.69	50.0000	0.349	0.699	ug/L
⌈	Ba	135	81662.234	0.21	50.0000	0.772	1.545	ug/L
|	Ce	140	83.342	0.00				ug/L
⌊>	Tb	159	388090.643	388090.64				ug/L
⌈	Ho	165	50.005	0.00				ug/L
|	Tl	203	342182.570	1.06	50.0000	0.640	1.280	ug/L
|	Tl	205	844059.130	2.62	50.0000	1.004	2.007	ug/L
|	Pb	206	273944.690	0.85	50.0000	0.683	1.365	ug/L
|	Pb	207	258244.606	0.80	50.0000	0.562	1.124	ug/L
|	Pb	208	1149356.874	3.57	50.0000	0.689	1.379	ug/L
|	U	238	1735013.924	5.39	50.0000	0.194	0.389	ug/L
⌊>	Bi	209	321633.073	321633.07				ug/L

Sample ID: Standard 3
Report Date/Time: Tuesday, March 29, 2011 09:09:33
Page 1

Approved: March 30, 2011

Na	23	21101622.206	143.33	5.0000	0.081	1.615	mg/L	
Mg	24	14365946.987	98.50	5.0000	0.061	1.225	mg/L	
K	39	28407242.224	192.14	5.0000	0.042	0.850	mg/L	
Ca	43	69128.404	0.47	5.0000	0.025	0.493	mg/L	
Fe	54	2512967.579	17.00	5.0000	0.112	2.236	mg/L	
Fe	57	1070998.660	7.29	5.0000	0.063	1.253	mg/L	
> Sc-1	45	145839.275	145839.28				mg/L	
Cl	35	10974.688	1124.50				mg/L	
Kr	83	77.334	5.33				mg/L	
Br	81	6083.184	58.03				mg/L	
P	31	5446.824	-286.18				mg/L	
S	34	133954.223	16035.00				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209					
Na	23					

Sample ID: Standard 3
Report Date/Time: Tuesday, March 29, 2011 09:09:33
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Tuesday, March 29, 2011 09:09:33
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 3

Sample Date/Time: Tuesday, March 29, 2011 09:07:21
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 3
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15295.128	-0.01				ug/L
|	Be	9	13308.851	0.09	50.2153	0.968	1.927	ug/L
|	Al	27	258841.226	1.73	51.1974	1.173	2.290	ug/L
⌊>	Sc	45	145839.275	145839.28				ug/L
⌈	Ti	49	50207.473	0.16	100.7260	4.646	4.612	ug/L
|	V	51	414326.423	1.28	50.2477	1.624	3.232	ug/L
|	Cr	52	362029.940	1.10	50.5932	1.526	3.017	ug/L
|	Cr	53	41828.141	0.13	50.7881	0.860	1.694	ug/L
|	Mn	55	541690.364	1.69	50.6138	1.665	3.289	ug/L
|	Co	59	422315.993	1.32	50.9137	1.196	2.349	ug/L
|	Ni	60	89310.272	0.28	51.0270	1.152	2.257	ug/L
|	Cu	65	91739.137	0.29	51.5457	1.352	2.622	ug/L
|	Zn	66	58331.555	0.18	50.8719	1.451	2.853	ug/L
⌊>	Ge	72	320970.318	320970.32				ug/L
|	As	75	55605.207	0.17	49.9754	1.605	3.212	ug/L
|	Se	77	4409.639	0.01	50.2409	1.690	3.364	ug/L
|	Se	82	5278.481	0.02	49.9243	1.611	3.227	ug/L
⌊	Rb	85	2201.264	0.01				mg/L
	Y	89	218578.041	2541.09				ug/L
	Rh	103	48.001	23.33				ug/L
⌈	Mo	98	310201.502	1.01	101.0246	1.451	1.436	ug/L
|	Ag	107	313725.606	1.02	50.6102	1.200	2.372	ug/L
|	Cd	114	65244.377	0.21	50.2812	0.888	1.766	ug/L
⌊>	In	115	307868.341	307868.34				ug/L
|	Sn	118	230357.305	0.75	50.1906	0.628	1.251	ug/L
⌊	Sb	123	212106.498	0.69	50.0900	0.350	0.699	ug/L
⌈	Ba	135	81662.234	0.21	50.7448	0.784	1.545	ug/L
|	Ce	140	83.342	0.00				ug/L
⌊>	Tb	159	388090.643	388090.64				ug/L
⌈	Ho	165	50.005	0.00				ug/L
|	Tl	203	342182.570	1.06	50.0097	0.640	1.280	ug/L
|	Tl	205	844059.130	2.62	50.3968	1.012	2.007	ug/L
|	Pb	206	273944.690	0.85	49.8468	0.681	1.365	ug/L
|	Pb	207	258244.606	0.80	49.9851	0.562	1.124	ug/L
|	Pb	208	1149356.874	3.57	49.9106	0.688	1.379	ug/L
|	U	238	1735013.924	5.39	50.4383	0.196	0.389	ug/L
⌊>	Bi	209	321633.073	321633.07				ug/L

Sample ID: Standard 3
Report Date/Time: Tuesday, March 29, 2011 10:45:30
Page 1

Approved: March 30, 2011

Na	23	21101622.206	143.33	4.9763	0.080	1.615	mg/L	
Mg	24	14365946.987	98.50	4.9599	0.061	1.225	mg/L	
K	39	28407242.224	192.14	4.9905	0.042	0.850	mg/L	
Ca	43	69128.404	0.47	4.9944	0.025	0.493	mg/L	
Fe	54	2512967.579	17.00	5.0282	0.112	2.237	mg/L	
Fe	57	1070998.660	7.29	5.1072	0.064	1.253	mg/L	
> Sc-1	45	145839.275	145839.28				mg/L	
Cl	35	10974.688	1124.50				mg/L	
Kr	83	77.334	5.33				mg/L	
Br	81	6083.184	58.03				mg/L	
P	31	5446.824	-286.18				mg/L	
S	34	133954.223	16035.00				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72					
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115					
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159					
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209					
Na	23					

Sample ID: Standard 3
Report Date/Time: Tuesday, March 29, 2011 10:45:30

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 3
Report Date/Time: Tuesday, March 29, 2011 10:45:30
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Tuesday, March 29, 2011 09:14:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15678.963	-0.00				ug/L
|	Be	9	26013.124	0.18	99.5710	1.164	1.169	ug/L
|	Al	27	479181.192	3.29	97.6148	2.518	2.580	ug/L
⌊>	Sc	45	143793.268	143793.27				ug/L
⌈	Ti	49	97697.996	0.31	198.5539	1.950	0.982	ug/L
|	V	51	807906.392	2.54	99.5066	0.502	0.504	ug/L
|	Cr	52	689542.184	2.14	98.8183	2.245	2.272	ug/L
|	Cr	53	79848.822	0.25	98.4302	0.641	0.651	ug/L
|	Mn	55	1042761.682	3.29	98.7772	0.733	0.742	ug/L
|	Co	59	804403.903	2.54	98.1800	1.726	1.758	ug/L
|	Ni	60	169245.199	0.53	97.9543	0.328	0.335	ug/L
|	Cu	65	170263.292	0.54	96.9211	0.305	0.315	ug/L
|	Zn	66	107978.257	0.34	98.2632	0.785	0.799	ug/L
⌊>	Ge	72	316975.791	316975.79				ug/L
|	As	75	110137.052	0.35	100.0490	0.916	0.915	ug/L
|	Se	77	8550.321	0.03	99.5202	0.906	0.910	ug/L
|	Se	82	10470.986	0.03	100.1508	1.030	1.029	ug/L
⌊	Rb	85	4182.250	0.01				mg/L
	Y	89	213666.869	-2370.08				ug/L
	Rh	103	53.001	28.33				ug/L
⌈	Mo	98	597618.481	1.97	197.9589	2.997	1.514	ug/L
|	Ag	107	602126.979	1.99	98.7844	0.405	0.410	ug/L
|	Cd	114	126856.829	0.42	99.4399	1.364	1.372	ug/L
⌊>	In	115	302699.831	302699.83				ug/L
|	Sn	118	449083.133	1.48	99.6203	0.697	0.700	ug/L
⌊	Sb	123	415634.619	1.37	99.8208	1.080	1.082	ug/L
⌈	Ba	135	159477.950	0.41	98.5163	0.591	0.599	ug/L
|	Ce	140	83.342	0.00				ug/L
⌊>	Tb	159	390431.169	390431.17				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	670783.636	2.13	99.9806	1.467	1.467	ug/L
|	Tl	205	1629257.289	5.17	99.2096	0.951	0.958	ug/L
|	Pb	206	540235.713	1.71	100.3052	1.286	1.282	ug/L
|	Pb	207	506473.531	1.61	100.0296	1.675	1.674	ug/L
|	Pb	208	2260916.816	7.17	100.1781	0.986	0.984	ug/L
|	U	238	3342706.684	10.60	99.1268	2.179	2.198	ug/L
⌊>	Bi	209	315334.950	315334.95				ug/L

Sample ID: Standard 4
Report Date/Time: Tuesday, March 29, 2011 09:16:19
Page 1

Approved: March 30, 2011

⌈	Na	23	41858655.202	289.75	10.0472	0.112	1.116	mg/L
|	Mg	24	28771345.378	200.10	10.0800	0.062	0.611	mg/L
|	K	39	55815164.103	385.52	10.0190	0.076	0.758	mg/L
|	Ca	43	136164.603	0.94	10.0112	0.282	2.816	mg/L
|	Fe	54	4865516.433	33.61	9.9438	0.302	3.041	mg/L
|	Fe	57	2016221.219	13.97	9.7864	0.127	1.301	mg/L
⌊>	Sc-1	45	143793.268	143793.27				mg/L
	Cl	35	12059.267	2209.08				mg/L
	Kr	83	78.334	6.33				mg/L
	Br	81	5762.995	-262.16				mg/L
	P	31	5654.267	-78.74				mg/L
	S	34	146324.902	28405.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 4
Report Date/Time: Tuesday, March 29, 2011 09:16:19
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 4
Report Date/Time: Tuesday, March 29, 2011 09:16:19
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: Standard 4

Sample Date/Time: Tuesday, March 29, 2011 09:14:07
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 4
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15678.963	-0.00				ug/L
|	Be	9	26013.124	0.18	99.5710	1.164	1.169	ug/L
|	Al	27	479181.192	3.29	97.6148	2.518	2.580	ug/L
⌊>	Sc	45	143793.268	143793.27				ug/L
⌈	Ti	49	97697.996	0.31	198.5539	1.950	0.982	ug/L
|	V	51	807906.392	2.54	99.5066	0.502	0.504	ug/L
|	Cr	52	689542.184	2.14	98.8183	2.245	2.272	ug/L
|	Cr	53	79848.822	0.25	98.4302	0.641	0.651	ug/L
|	Mn	55	1042761.682	3.29	98.7772	0.733	0.742	ug/L
|	Co	59	804403.903	2.54	98.1800	1.726	1.758	ug/L
|	Ni	60	169245.199	0.53	97.9543	0.328	0.335	ug/L
|	Cu	65	170263.292	0.54	96.9211	0.305	0.315	ug/L
|	Zn	66	107978.257	0.34	98.2632	0.785	0.799	ug/L
|>	Ge	72	316975.791	316975.79				ug/L
|	As	75	110137.052	0.35	100.0490	0.916	0.915	ug/L
|	Se	77	8550.321	0.03	99.5202	0.906	0.910	ug/L
|	Se	82	10470.986	0.03	100.1508	1.030	1.029	ug/L
⌊	Rb	85	4182.250	0.01				mg/L
	Y	89	213666.869	-2370.08				ug/L
	Rh	103	53.001	28.33				ug/L
⌈	Mo	98	597618.481	1.97	197.9589	2.997	1.514	ug/L
|	Ag	107	602126.979	1.99	98.7844	0.405	0.410	ug/L
|	Cd	114	126856.829	0.42	99.4399	1.364	1.372	ug/L
|>	In	115	302699.831	302699.83				ug/L
|	Sn	118	449083.133	1.48	99.6203	0.697	0.700	ug/L
⌊	Sb	123	415634.619	1.37	99.8208	1.080	1.082	ug/L
⌈	Ba	135	159477.950	0.41	98.5163	0.591	0.599	ug/L
|	Ce	140	83.342	0.00				ug/L
⌊>	Tb	159	390431.169	390431.17				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	670783.636	2.13	99.9806	1.467	1.467	ug/L
|	Tl	205	1629257.289	5.17	99.2096	0.951	0.958	ug/L
|	Pb	206	540235.713	1.71	100.3052	1.286	1.282	ug/L
|	Pb	207	506473.531	1.61	100.0296	1.675	1.674	ug/L
|	Pb	208	2260916.816	7.17	100.1781	0.986	0.984	ug/L
|	U	238	3342706.684	10.60	99.1268	2.179	2.198	ug/L
⌊>	Bi	209	315334.950	315334.95				ug/L

Sample ID: Standard 4
Report Date/Time: Tuesday, March 29, 2011 10:45:31
Page 1

Approved: March 30, 2011

⌈	Na	23	41858655.202	289.75	10.0472	0.112	1.116	mg/L
|	Mg	24	28771345.378	200.10	10.0800	0.062	0.611	mg/L
|	K	39	55815164.103	385.52	10.0190	0.076	0.758	mg/L
|	Ca	43	136164.603	0.94	10.0112	0.282	2.816	mg/L
|	Fe	54	4865516.433	33.61	9.9438	0.302	3.041	mg/L
|	Fe	57	2016221.219	13.97	9.7864	0.127	1.301	mg/L
⌊>	Sc-1	45	143793.268	143793.27				mg/L
	Cl	35	12059.267	2209.08				mg/L
	Kr	83	78.334	6.33				mg/L
	Br	81	5762.995	-262.16				mg/L
	P	31	5654.267	-78.74				mg/L
	S	34	146324.902	28405.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: Standard 4
Report Date/Time: Tuesday, March 29, 2011 10:45:31

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: Standard 4
Report Date/Time: Tuesday, March 29, 2011 10:45:31
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, March 29, 2011 09:20:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 11
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15011.272	-0.01				ug/L
|	Be	9	12778.159	0.09	49.4690	0.980	1.981	ug/L
|	Al	27	266266.344	1.83	54.1461	2.111	3.899	ug/L
⌊>	Sc	45	142153.727	142153.73				ug/L
⌈	Ti	49	55814.321	0.18	115.8219	4.384	3.785	ug/L
|	V	51	398441.142	1.27	49.9632	0.679	1.360	ug/L
|	Cr	52	353245.269	1.11	51.0569	0.420	0.823	ug/L
|	Cr	53	40298.425	0.13	50.6199	1.933	3.819	ug/L
|	Mn	55	532981.969	1.72	51.5057	1.284	2.492	ug/L
|	Co	59	402396.134	1.30	50.1719	0.885	1.764	ug/L
|	Ni	60	85649.826	0.28	50.6059	0.759	1.500	ug/L
|	Cu	65	87458.410	0.28	50.8113	0.476	0.937	ug/L
|	Zn	66	55520.592	0.18	50.0204	0.504	1.008	ug/L
|>	Ge	72	310284.515	310284.52				ug/L
|	As	75	54827.733	0.18	50.9484	0.326	0.639	ug/L
|	Se	77	4292.255	0.01	50.5834	1.644	3.251	ug/L
|	Se	82	5257.467	0.02	51.4176	0.478	0.929	ug/L
⌊	Rb	85	2168.924	0.01				mg/L
	Y	89	209237.133	-6799.82				ug/L
	Rh	103	44.334	19.67				ug/L
⌈	Mo	98	329763.546	1.09	109.1957	2.183	1.999	ug/L
|	Ag	107	307043.351	1.01	50.3565	0.592	1.176	ug/L
|	Cd	114	63638.508	0.21	49.8624	0.625	1.254	ug/L
|>	In	115	302818.940	302818.94				ug/L
|	Sn	118	251057.693	0.83	55.6267	0.588	1.057	ug/L
⌊	Sb	123	200946.792	0.66	48.2531	0.894	1.853	ug/L
⌈	Ba	135	80073.789	0.21	50.0489	0.762	1.522	ug/L
|	Ce	140	80.008	0.00				ug/L
⌊>	Tb	159	385828.287	385828.29				ug/L
⌈	Ho	165	6.667	-0.00				ug/L
|	Tl	203	337654.408	1.07	50.2069	0.589	1.173	ug/L
|	Tl	205	814895.168	2.58	49.4982	0.740	1.495	ug/L
|	Pb	206	282860.962	0.89	52.3696	0.921	1.758	ug/L
|	Pb	207	252212.789	0.80	49.6701	0.811	1.632	ug/L
|	Pb	208	1153850.401	3.65	50.9757	0.307	0.602	ug/L
|	U	238	1687411.356	5.34	49.9114	0.396	0.793	ug/L
⌊>	Bi	209	316126.469	316126.47				ug/L

Sample ID: QC Std 1
Report Date/Time: Tuesday, March 29, 2011 09:23:04
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	20637064.901	143.81	4.9928	0.086	1.717	mg/L	
Mg	24	14371670.963	101.12	5.0918	0.117	2.291	mg/L	
K	39	28232361.164	196.07	5.0927	0.162	3.187	mg/L	
Ca	43	69433.826	0.49	5.1502	0.151	2.939	mg/L	
Fe	54	2470629.477	17.16	5.0737	0.149	2.946	mg/L	
Fe	57	1040335.955	7.27	5.0903	0.092	1.805	mg/L	
> Sc-1	45	142153.727	142153.73				mg/L	
Cl	35	11374.467	1524.28				mg/L	
Kr	83	77.668	5.67				mg/L	
Br	81	5511.519	-513.63				mg/L	
P	31	5095.303	-637.70				mg/L	
S	34	134240.737	16321.52				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9	98.938				
Al	27	108.292				
> Sc	45					
Ti	49	115.822				
V	51	99.926				
Cr	52	102.114				
Cr	53					
Mn	55	103.011				
Co	59	100.344				
Ni	60	101.212				
Cu	65	101.623				
Zn	66	100.041				
> Ge	72		98.539			
As	75	101.897				
Se	77					
Se	82	102.835				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.713				
Cd	114	99.725				
> In	115		100.628			
Sn	118					
Sb	123	96.506				
Ba	135	100.098				
Ce	140					
> Tb	159		101.694			
Ho	165					
Tl	203	100.414				
Tl	205					
Pb	206					
Pb	207					
Pb	208	101.951				
U	238	99.823				
> Bi	209		99.905			
Na	23	99.855				

Sample ID: QC Std 1
Report Date/Time: Tuesday, March 29, 2011 09:23:04

Approved: March 30, 2011

|	Mg	24	101.837
|	K	39	101.854
|	Ca	43	103.003
|	Fe	54	101.475
|	Fe	57	101.806
|>	Sc-1	45	
	Cl	35	
	Kr	83	
	Br	81	
	P	31	
	S	34	

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 1
Report Date/Time: Tuesday, March 29, 2011 09:23:04
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, March 29, 2011 09:27:37
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16279.951	-0.01				ug/L
|	Be	9	17.333	0.00	0.0281	0.028	98.596	ug/L
|	Al	27	5734.998	-0.01	-0.5669	0.149	26.286	ug/L
⌊>	Sc	45	152199.507	152199.51				ug/L
⌈	Ti	49	56.673	0.00	-0.0827	0.041	49.429	ug/L
|	V	51	2860.400	-0.00	0.0009	0.007	727.613	ug/L
|	Cr	52	9376.155	-0.00	-0.0467	0.026	55.952	ug/L
|	Cr	53	210.023	-0.00	-0.0432	0.024	56.581	ug/L
|	Mn	55	433.347	-0.00	-0.1291	0.001	0.548	ug/L
|	Co	59	111.335	-0.00	0.0012	0.001	104.334	ug/L
|	Ni	60	86.668	-0.00	-0.0250	0.006	22.213	ug/L
|	Cu	65	170.003	0.00	-0.0017	0.014	864.047	ug/L
|	Zn	66	552.021	0.00	-2.8570	0.010	0.340	ug/L
|>	Ge	72	324098.491	324098.49				ug/L
|	As	75	-108.747	0.00	0.0437	0.012	28.382	ug/L
|	Se	77	64.667	-0.00	-0.2127	0.081	37.957	ug/L
|	Se	82	5.061	0.00	0.1371	0.116	84.453	ug/L
⌊	Rb	85	35.667	-0.00				mg/L
	Y	89	224082.186	8045.24				ug/L
	Rh	103	25.334	0.67				ug/L
⌈	Mo	98	232.772	0.00	0.0658	0.004	5.785	ug/L
|	Ag	107	67.334	0.00	0.0072	0.002	24.788	ug/L
|	Cd	114	2.081	0.00	-0.0032	0.006	176.307	ug/L
|>	In	115	313388.184	313388.18				ug/L
|	Sn	118	412.008	0.00	-0.0204	0.004	18.066	ug/L
⌊	Sb	123	526.670	0.00	0.1324	0.014	10.758	ug/L
⌈	Ba	135	47.667	-0.00	0.0045	0.002	41.709	ug/L
|	Ce	140	20.002	-0.00				ug/L
⌊>	Tb	159	398288.501	398288.50				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	67.668	0.00	0.0171	0.000	1.410	ug/L
|	Tl	205	96.677	0.00	0.0063	0.003	50.768	ug/L
|	Pb	206	312.008	0.00	0.0096	0.002	25.724	ug/L
|	Pb	207	268.340	-0.00	0.0092	0.003	35.549	ug/L
|	Pb	208	1225.708	0.00	0.0073	0.000	6.281	ug/L
|	U	238	153.003	0.00	0.0018	0.000	27.651	ug/L
⌊>	Bi	209	329175.113	329175.11				ug/L

Sample ID: QC Std 2
Report Date/Time: Tuesday, March 29, 2011 09:29:48
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	199793.683	-0.07	0.0099	0.002	15.311	mg/L
|	Mg	24	1083.501	0.00	-0.0043	0.000	1.260	mg/L
|	K	39	386450.437	-0.10	-0.0085	0.001	9.269	mg/L
|	Ca	43	370.044	-0.00	-0.0058	0.002	39.576	mg/L
|	Fe	54	33987.429	-0.01	-0.0061	0.004	60.558	mg/L
|	Fe	57	5635.485	-0.01	-0.0123	0.001	6.140	mg/L
⌊>	Sc-1	45	152199.507	152199.51				mg/L
	Cl	35	10943.319	1093.13				mg/L
	Kr	83	69.668	-2.33				mg/L
	Br	81	6147.222	122.07				mg/L
	P	31	6141.899	408.89				mg/L
	S	34	131790.126	13870.91				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.926			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.140			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.978			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.029			
⌈	Na	23					

Sample ID: QC Std 2
Report Date/Time: Tuesday, March 29, 2011 09:29:48
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 2
Report Date/Time: Tuesday, March 29, 2011 09:29:48
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, March 29, 2011 09:34:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15278.367	-0.01				ug/L
|	Be	9	18.667	0.00	0.0360	0.022	60.503	ug/L
|	Al	27	3667.360	-0.02	-0.9368	0.168	17.923	ug/L
⌊>	Sc	45	145435.157	145435.16				ug/L
⌈	Ti	49	56.673	0.00	-0.0804	0.063	78.968	ug/L
|	V	51	6116.525	0.01	0.4059	0.012	3.051	ug/L
|	Cr	52	14920.606	0.01	0.7742	0.059	7.653	ug/L
|	Cr	53	816.782	0.00	0.7068	0.118	16.648	ug/L
|	Mn	55	5902.467	0.02	0.3870	0.015	3.959	ug/L
|	Co	59	3545.997	0.01	0.4178	0.008	1.830	ug/L
|	Ni	60	2953.466	0.01	1.6249	0.042	2.561	ug/L
|	Cu	65	1589.809	0.00	0.8032	0.018	2.234	ug/L
|	Zn	66	7292.064	0.02	3.4505	0.104	3.022	ug/L
| >	Ge	72	319235.970	319235.97				ug/L
|	As	75	308.852	0.00	0.4181	0.049	11.782	ug/L
|	Se	77	126.001	0.00	0.5143	0.304	59.036	ug/L
|	Se	82	41.670	0.00	0.4842	0.107	22.191	ug/L
⌊	Rb	85	31.000	-0.00				mg/L
	Y	89	219464.659	3427.71				ug/L
	Rh	103	16.000	-8.67				ug/L
⌈	Mo	98	117.997	0.00	0.0290	0.004	12.557	ug/L
|	Ag	107	2574.691	0.01	0.4046	0.017	4.096	ug/L
|	Cd	114	273.054	0.00	0.2018	0.032	15.872	ug/L
| >	In	115	313485.371	313485.37				ug/L
|	Sn	118	274.404	0.00	-0.0499	0.003	6.153	ug/L
⌊	Sb	123	1868.639	0.01	0.4435	0.006	1.416	ug/L
⌈	Ba	135	1268.760	0.00	0.7640	0.005	0.681	ug/L
|	Ce	140	33.337	-0.00				ug/L
⌊>	Tb	159	388232.721	388232.72				ug/L
⌈	Ho	165	36.670	0.00				ug/L
|	Tl	203	616.358	0.00	0.0974	0.002	1.986	ug/L
|	Tl	205	1560.280	0.00	0.0935	0.013	13.982	ug/L
|	Pb	206	2535.013	0.01	0.4150	0.007	1.599	ug/L
|	Pb	207	2329.962	0.01	0.4089	0.012	2.945	ug/L
|	Pb	208	10448.256	0.03	0.4085	0.004	1.024	ug/L
|	U	238	13845.051	0.04	0.3993	0.007	1.711	ug/L
⌊>	Bi	209	322198.623	322198.62				ug/L

Sample ID: QC Std 3
Report Date/Time: Tuesday, March 29, 2011 09:36:38
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	13386.959	-1.29	-0.0324	0.000	0.584	mg/L
Mg	24	570.074	0.00	-0.0045	0.000	0.678	mg/L
K	39	396354.959	0.09	-0.0035	0.003	89.041	mg/L
Ca	43	353.375	-0.00	-0.0057	0.007	118.547	mg/L
Fe	54	32064.781	-0.01	-0.0068	0.003	37.156	mg/L
Fe	57	6122.487	-0.01	-0.0087	0.001	14.118	mg/L
Sc-1	45	145435.157	145435.16				mg/L
Cl	35	11484.595	1634.41				mg/L
Kr	83	76.334	4.33				mg/L
Br	81	5986.458	-38.70				mg/L
P	31	6498.801	765.80				mg/L
S	34	136903.725	18984.51				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	101.470				
Cr	52	96.773				
Cr	53					
Mn	55	77.394				
Co	59	104.439				
Ni	60	101.556				
Cu	65	100.401				
Zn	66	55.209				
Ge	72		101.382			
As	75	104.529				
Se	77					
Se	82	121.053				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	101.140				
Cd	114	100.889				
In	115		104.172			
Sn	118					
Sb	123	110.885				
Ba	135	101.870				
Ce	140					
Tb	159		102.327			
Ho	165					
Tl	203	121.751				
Tl	205					
Pb	206					
Pb	207					
Pb	208	102.122				
U	238	99.820				
Bi	209		101.824			
Na	23					

Sample ID: QC Std 3
Report Date/Time: Tuesday, March 29, 2011 09:36:38
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Zn	66	LLICV IS OUT OF LIMITS (+/-20%)
QC Std 3	Tl	203	LLICV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 3
Report Date/Time: Tuesday, March 29, 2011 09:36:38
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, March 29, 2011 09:41:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16163.127	0.00				ug/L
|	Be	9	11.333	-0.00	0.0100	0.011	110.585	ug/L
|	Al	27	14067881.236	101.15	3013.3680	148.684	4.934	ug/L
⌊>	Sc	45	139145.233	139145.23				ug/L
⌈	Ti	49	31452.568	0.10	65.0712	2.751	4.228	ug/L
|	V	51	2412.622	-0.00	-0.0408	0.021	51.666	ug/L
|	Cr	52	8427.301	-0.01	-0.1303	0.025	19.436	ug/L
|	Cr	53	876.794	0.00	0.8081	0.198	24.560	ug/L
|	Mn	55	1936.207	0.00	0.0181	0.006	33.886	ug/L
|	Co	59	1140.076	0.00	0.1299	0.003	2.450	ug/L
|	Ni	60	471.683	0.00	0.2046	0.014	6.791	ug/L
|	Cu	65	540.353	0.00	0.2177	0.005	2.498	ug/L
|	Zn	66	647.694	0.00	-2.7435	0.020	0.714	ug/L
|>	Ge	72	310801.890	310801.89				ug/L
|	As	75	-154.389	0.00	-0.0029	0.046	1594.740	ug/L
|	Se	77	124.001	0.00	0.5307	0.187	35.186	ug/L
|	Se	82	3.319	0.00	0.1230	0.142	115.492	ug/L
⌊	Rb	85	1349.105	0.00				mg/L
	Y	89	207124.215	-8912.73				ug/L
	Rh	103	23.000	-1.67				ug/L
⌈	Mo	98	200911.468	0.68	68.1614	1.016	1.490	ug/L
|	Ag	107	94.001	0.00	0.0123	0.002	19.849	ug/L
|	Cd	114	35.052	0.00	0.0234	0.005	23.245	ug/L
|>	In	115	295545.791	295545.79				ug/L
|	Sn	118	188.935	0.00	-0.0658	0.001	1.304	ug/L
⌊	Sb	123	197.740	0.00	0.0588	0.003	5.222	ug/L
⌈	Ba	135	55.001	-0.00	0.0109	0.003	23.853	ug/L
|	Ce	140	156.684	0.00				ug/L
⌊>	Tb	159	376689.062	376689.06				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	45.334	0.00	0.0142	0.002	10.590	ug/L
|	Tl	205	66.674	0.00	0.0047	0.001	20.448	ug/L
|	Pb	206	351.010	0.00	0.0192	0.002	11.803	ug/L
|	Pb	207	296.674	0.00	0.0169	0.005	27.820	ug/L
|	Pb	208	1330.381	0.00	0.0141	0.001	6.193	ug/L
|	U	238	41.000	0.00	-0.0013	0.000	12.582	ug/L
⌊>	Bi	209	315898.639	315898.64				ug/L

Sample ID: QC Std 4
Report Date/Time: Tuesday, March 29, 2011 09:43:26
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	33870566.815	242.18	8.3997	0.277	3.302	mg/L
Mg	24	9345931.945	67.22	3.3831	0.145	4.283	mg/L
K	39	18535830.948	130.62	3.3908	0.090	2.642	mg/L
Ca	43	130424.839	0.93	9.9099	0.153	1.543	mg/L
Fe	54	4142122.716	29.56	8.7433	0.335	3.829	mg/L
Fe	57	1756500.540	12.58	8.8132	0.388	4.400	mg/L
> Sc-1	45	139145.233	139145.23				mg/L
Cl	35	1034181.362	1024331.18				mg/L
Kr	83	78.334	6.33				mg/L
Br	81	5720.970	-304.18				mg/L
P	31	937298.172	931565.17				mg/L
S	34	207006.288	89087.07				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		98.703			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		98.211			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		99.285			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		99.833			
Na	23					

Sample ID: QC Std 4
Report Date/Time: Tuesday, March 29, 2011 09:43:26
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Tuesday, March 29, 2011 09:43:26

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, March 29, 2011 09:48:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17515.390	0.02				ug/L
|	Be	9	26352.682	0.19	106.2672	2.204	2.074	ug/L
|	Al	27	20264218.401	148.44	4422.0687	102.007	2.307	ug/L
⌊>	Sc	45	136491.884	136491.88				ug/L
⌈	Ti	49	45779.156	0.15	94.7478	3.027	3.195	ug/L
|	V	51	748425.759	2.40	93.9631	2.499	2.660	ug/L
|	Cr	52	658941.776	2.09	96.2401	2.507	2.605	ug/L
|	Cr	53	94998.760	0.30	119.4308	2.889	2.419	ug/L
|	Mn	55	1026531.894	3.30	99.1311	1.864	1.881	ug/L
|	Co	59	786279.042	2.53	97.8253	1.465	1.498	ug/L
|	Ni	60	167315.910	0.54	98.7077	0.589	0.597	ug/L
|	Cu	65	172477.522	0.55	100.0854	1.172	1.171	ug/L
|	Zn	66	107793.016	0.35	100.0476	1.299	1.299	ug/L
| >	Ge	72	310989.636	310989.64				ug/L
|	As	75	105750.372	0.34	97.9313	1.424	1.454	ug/L
|	Se	77	9682.685	0.03	115.0398	1.980	1.721	ug/L
|	Se	82	10226.395	0.03	99.7048	0.856	0.858	ug/L
⌊	Rb	85	1966.546	0.01				mg/L
	Y	89	208114.090	-7922.86				ug/L
	Rh	103	69.668	45.00				ug/L
⌈	Mo	98	292627.120	1.00	100.4555	2.082	2.073	ug/L
|	Ag	107	573335.029	1.96	97.4807	0.496	0.509	ug/L
|	Cd	114	123125.779	0.42	100.0184	1.053	1.053	ug/L
| >	In	115	292078.280	292078.28				ug/L
|	Sn	118	674.156	0.00	0.0463	0.008	18.320	ug/L
⌊	Sb	123	398221.783	1.36	99.1179	1.176	1.186	ug/L
⌈	Ba	135	149223.101	0.40	96.9327	0.586	0.605	ug/L
|	Ce	140	283.366	0.00				ug/L
⌊>	Tb	159	371287.757	371287.76				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	667049.943	2.07	97.4881	0.559	0.573	ug/L
|	Tl	205	1616414.796	5.03	96.5097	1.254	1.300	ug/L
|	Pb	206	560116.711	1.74	101.9708	0.982	0.963	ug/L
|	Pb	207	498104.356	1.55	96.4591	1.559	1.616	ug/L
|	Pb	208	2281353.814	7.09	99.1124	0.628	0.634	ug/L
|	U	238	3456282.213	10.75	100.4882	1.016	1.011	ug/L
⌊>	Bi	209	321588.532	321588.53				ug/L

Sample ID: QC Std 5
Report Date/Time: Tuesday, March 29, 2011 09:50:14
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	48165913.999	351.52	12.1863	0.146	1.199	mg/L
|	Mg	24	13276410.164	97.28	4.8979	0.103	2.104	mg/L
|	K	39	27059721.197	195.60	5.0804	0.083	1.632	mg/L
|	Ca	43	188135.778	1.38	14.5832	0.225	1.543	mg/L
|	Fe	54	5991098.133	43.66	12.9176	0.163	1.259	mg/L
|	Fe	57	2548362.951	18.62	13.0431	0.194	1.484	mg/L
⌊>	Sc-1	45	136491.884	136491.88				mg/L
	Cl	35	23597742.979	23587892.80				mg/L
	Kr	83	78.334	6.33				mg/L
	Br	81	7520.831	1495.68				mg/L
	P	31	1298104.259	1292371.25				mg/L
	S	34	247921.234	130002.01				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	93.963				
|	Cr	52	96.240				
|	Cr	53					
|	Mn	55	99.131				
|	Co	59	97.825				
|	Ni	60	98.708				
|	Cu	65	100.085				
|	Zn	66	100.048				
|>	Ge	72		98.763			
|	As	75	97.931				
|	Se	77					
|	Se	82	99.705				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	97.481				
|	Cd	114	100.018				
|>	In	115		97.058			
|	Sn	118					
⌊	Sb	123	99.118				
⌈	Ba	135	96.933				
|	Ce	140					
⌊>	Tb	159		97.861			
⌈	Ho	165					
|	Tl	203	97.488				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.112				
|	U	238	100.488				
⌊>	Bi	209		101.632			
⌈	Na	23					

Sample ID: QC Std 5
Report Date/Time: Tuesday, March 29, 2011 09:50:14

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Tuesday, March 29, 2011 09:50:14
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 09:54:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16997.775	0.01				ug/L
|	Be	9	12963.065	0.09	50.7776	0.744	1.466	ug/L
|	Al	27	243601.727	1.69	49.9901	2.336	4.672	ug/L
⌊>	Sc	45	140446.052	140446.05				ug/L
⌈	Ti	49	48451.932	0.16	99.9210	1.228	1.229	ug/L
|	V	51	392552.775	1.25	48.9345	0.458	0.937	ug/L
|	Cr	52	343479.669	1.07	49.3173	0.779	1.580	ug/L
|	Cr	53	42568.009	0.14	53.1575	0.488	0.919	ug/L
|	Mn	55	520189.113	1.67	49.9708	1.150	2.301	ug/L
|	Co	59	397849.646	1.27	49.3150	0.426	0.864	ug/L
|	Ni	60	83746.733	0.27	49.1931	0.226	0.459	ug/L
|	Cu	65	87080.056	0.28	50.3011	0.338	0.672	ug/L
|	Zn	66	54876.718	0.17	49.0946	0.505	1.028	ug/L
|>	Ge	72	312086.440	312086.44				ug/L
|	As	75	54068.334	0.17	49.9577	0.602	1.206	ug/L
|	Se	77	4422.312	0.01	51.8251	2.054	3.964	ug/L
|	Se	82	5242.920	0.02	50.9779	0.183	0.359	ug/L
⌊	Rb	85	2074.570	0.01				mg/L
	Y	89	211201.462	-4835.49				ug/L
	Rh	103	30.000	5.33				ug/L
⌈	Mo	98	293544.938	0.98	97.9272	0.568	0.580	ug/L
|	Ag	107	298721.634	0.99	49.3597	0.519	1.051	ug/L
|	Cd	114	62909.804	0.21	49.6657	0.253	0.509	ug/L
|>	In	115	300527.417	300527.42				ug/L
|	Sn	118	222649.182	0.74	49.6915	0.436	0.877	ug/L
⌊	Sb	123	207610.205	0.69	50.2237	0.399	0.794	ug/L
⌈	Ba	135	78861.191	0.21	49.8205	0.236	0.474	ug/L
|	Ce	140	46.671	0.00				ug/L
⌊>	Tb	159	381699.408	381699.41				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	337377.147	1.06	49.9016	0.315	0.632	ug/L
|	Tl	205	831630.212	2.62	50.2488	1.086	2.162	ug/L
|	Pb	206	271942.060	0.85	50.0764	0.732	1.462	ug/L
|	Pb	207	254219.206	0.80	49.7976	0.373	0.749	ug/L
|	Pb	208	1128464.140	3.55	49.5899	0.367	0.741	ug/L
|	U	238	1853852.942	5.83	54.5491	0.482	0.884	ug/L
⌊>	Bi	209	317779.584	317779.58				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 09:57:01
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	20251635.488	142.81	4.9583	0.034	0.693	mg/L
Mg	24	13848851.798	98.61	4.9650	0.049	0.990	mg/L
K	39	27084704.206	190.21	4.9403	0.096	1.935	mg/L
Ca	43	66399.716	0.47	4.9814	0.073	1.468	mg/L
Fe	54	2414997.735	16.96	5.0166	0.133	2.653	mg/L
Fe	57	1020291.664	7.21	5.0517	0.101	1.993	mg/L
> Sc-1	45	140446.052	140446.05				mg/L
Cl	35	36353.435	26503.25				mg/L
Kr	83	62.001	-10.00				mg/L
Br	81	5582.893	-442.26				mg/L
P	31	5356.105	-376.90				mg/L
S	34	135645.919	17726.70				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	97.869				
Cr	52	98.635				
Cr	53					
Mn	55	99.942				
Co	59	98.630				
Ni	60	98.386				
Cu	65	100.602				
Zn	66	98.189				
> Ge	72		99.111			
As	75	99.915				
Se	77					
Se	82	101.956				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.719				
Cd	114	99.331				
> In	115		99.866			
Sn	118					
Sb	123	100.447				
Ba	135	99.641				
Ce	140					
> Tb	159		100.605			
Ho	165					
Tl	203	99.803				
Tl	205					
Pb	206					
Pb	207					
Pb	208	99.180				
U	238	109.098				
> Bi	209		100.428			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 09:57:01

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 09:57:01
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 10:01:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15261.716	-0.01				ug/L
|	Be	9	18.667	0.00	0.0363	0.024	65.058	ug/L
|	Al	27	5734.989	-0.00	-0.5117	0.124	24.284	ug/L
⌊>	Sc	45	145162.881	145162.88				ug/L
⌈	Ti	49	73.341	0.00	-0.0453	0.031	69.179	ug/L
|	V	51	2674.646	-0.00	-0.0124	0.005	43.550	ug/L
|	Cr	52	8749.914	-0.00	-0.1003	0.024	23.766	ug/L
|	Cr	53	1306.883	0.00	1.3268	0.119	9.001	ug/L
|	Mn	55	534.686	0.00	-0.1182	0.002	1.550	ug/L
|	Co	59	98.668	-0.00	0.0000	0.001	2689.532	ug/L
|	Ni	60	87.001	-0.00	-0.0235	0.005	21.568	ug/L
|	Cu	65	152.336	-0.00	-0.0091	0.001	12.244	ug/L
|	Zn	66	470.349	-0.00	-2.9198	0.027	0.916	ug/L
|>	Ge	72	315167.972	315167.97				ug/L
|	As	75	-159.804	-0.00	-0.0054	0.046	846.346	ug/L
|	Se	77	69.334	0.00	-0.1381	0.192	138.902	ug/L
|	Se	82	2.391	0.00	0.1131	0.153	134.830	ug/L
⌊	Rb	85	27.000	-0.00				mg/L
	Y	89	219975.353	3938.40				ug/L
	Rh	103	20.334	-4.33				ug/L
⌈	Mo	98	163.254	0.00	0.0444	0.001	1.566	ug/L
|	Ag	107	56.334	0.00	0.0056	0.001	22.575	ug/L
|	Cd	114	4.635	0.00	-0.0012	0.001	96.995	ug/L
|>	In	115	308290.833	308290.83				ug/L
|	Sn	118	294.138	0.00	-0.0446	0.003	7.257	ug/L
⌊	Sb	123	213.864	0.00	0.0606	0.001	2.117	ug/L
⌈	Ba	135	47.001	-0.00	0.0048	0.005	106.854	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	389073.318	389073.32				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	101.668	0.00	0.0222	0.003	13.334	ug/L
|	Tl	205	223.358	0.00	0.0138	0.001	6.789	ug/L
|	Pb	206	300.008	0.00	0.0080	0.003	33.192	ug/L
|	Pb	207	283.674	0.00	0.0126	0.005	41.764	ug/L
|	Pb	208	1199.040	0.00	0.0066	0.001	22.158	ug/L
|	U	238	115.669	0.00	0.0008	0.000	60.085	ug/L
⌊>	Bi	209	326023.333	326023.33				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 10:03:46
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	192850.949	-0.05	0.0104	0.001	7.377	mg/L
|	Mg	24	650.086	0.00	-0.0045	0.000	0.424	mg/L
|	K	39	362281.273	-0.14	-0.0096	0.001	9.494	mg/L
|	Ca	43	326.705	-0.00	-0.0077	0.004	51.596	mg/L
|	Fe	54	33172.118	-0.00	-0.0045	0.002	37.833	mg/L
|	Fe	57	5748.897	-0.01	-0.0104	0.002	19.004	mg/L
⌊>	Sc-1	45	145162.881	145162.88				mg/L
	Cl	35	20709.422	10859.24				mg/L
	Kr	83	70.001	-2.00				mg/L
	Br	81	5782.338	-242.82				mg/L
	P	31	5536.867	-196.14				mg/L
	S	34	123190.460	5271.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.090			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		102.446			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		102.549			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.033			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 10:03:46

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 10:03:46

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103053301

Sample Date/Time: Tuesday, March 29, 2011 10:08:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16146.364	-0.01				ug/L
|	Be	9	17.333	0.00	0.0284	0.022	75.621	ug/L
|	Al	27	57733.028	0.34	9.7145	0.474	4.878	ug/L
⌊>	Sc	45	150845.970	150845.97				ug/L
⌈	Ti	49	373.378	0.00	0.5378	0.045	8.383	ug/L
|	V	51	3064.239	-0.00	0.0207	0.017	83.440	ug/L
|	Cr	52	11296.492	0.00	0.2051	0.042	20.380	ug/L
|	Cr	53	1500.263	0.00	1.4933	0.095	6.384	ug/L
|	Mn	55	15167.313	0.04	1.2198	0.021	1.682	ug/L
|	Co	59	356.677	0.00	0.0299	0.004	14.259	ug/L
|	Ni	60	471.683	0.00	0.1896	0.011	6.051	ug/L
|	Cu	65	557.021	0.00	0.2099	0.024	11.600	ug/L
|	Zn	66	6027.210	0.02	2.1100	0.146	6.925	ug/L
| >	Ge	72	328421.843	328421.84				ug/L
|	As	75	60.522	0.00	0.1932	0.025	12.989	ug/L
|	Se	77	122.667	0.00	0.4356	0.174	40.000	ug/L
|	Se	82	52.960	0.00	0.5785	0.078	13.534	ug/L
⌊	Rb	85	1885.197	0.01				mg/L
	Y	89	226860.501	10823.55				ug/L
	Rh	103	41.000	16.33				ug/L
⌈	Mo	98	223.959	0.00	0.0625	0.009	13.647	ug/L
|	Ag	107	102.335	0.00	0.0126	0.001	9.875	ug/L
|	Cd	114	16.574	0.00	0.0077	0.005	60.900	ug/L
| >	In	115	315638.911	315638.91				ug/L
|	Sn	118	631.620	0.00	0.0257	0.005	17.777	ug/L
⌊	Sb	123	278.491	0.00	0.0743	0.001	1.324	ug/L
⌈	Ba	135	12062.061	0.03	7.2622	0.219	3.017	ug/L
|	Ce	140	563.406	0.00				ug/L
⌊>	Tb	159	399393.629	399393.63				ug/L
⌈	Ho	165	60.006	0.00				ug/L
|	Tl	203	78.001	0.00	0.0187	0.002	10.155	ug/L
|	Tl	205	160.017	0.00	0.0100	0.001	13.513	ug/L
|	Pb	206	4087.544	0.01	0.6852	0.031	4.495	ug/L
|	Pb	207	3558.669	0.01	0.6354	0.018	2.761	ug/L
|	Pb	208	16263.015	0.05	0.6492	0.021	3.271	ug/L
|	U	238	252.672	0.00	0.0047	0.001	16.615	ug/L
⌊>	Bi	209	327521.286	327521.29				ug/L

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 10:10:31
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	164371605.609	1088.23	37.7008	0.271	0.720	mg/L
|	Mg	24	8002624.846	53.04	2.6688	0.033	1.246	mg/L
|	K	39	1546632.610	7.62	0.1922	0.002	1.272	mg/L
|	Ca	43	24589.323	0.16	1.6973	0.047	2.750	mg/L
|	Fe	54	97877.455	0.42	0.1198	0.002	1.474	mg/L
|	Fe	57	28356.369	0.14	0.0935	0.007	7.259	mg/L
⌊>	Sc-1	45	150845.970	150845.97				mg/L
	Cl	35	891299.485	881449.30				mg/L
	Kr	83	81.334	9.33				mg/L
	Br	81	60155.069	54129.91				mg/L
	P	31	34774.431	29041.43				mg/L
	S	34	171239.831	53320.61				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.299			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.888			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.269			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.506			
⌈	Na	23					

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 10:10:31
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 10:10:31
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103053301

Sample Date/Time: Tuesday, March 29, 2011 10:08:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 38
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16146.364	-0.01				ug/L
|	Be	9	17.333	0.00	0.0284	0.022	75.621	ug/L
|	Al	27	57733.028	0.34	9.7145	0.474	4.878	ug/L
⌊>	Sc	45	150845.970	150845.97				ug/L
⌈	Ti	49	373.378	0.00	0.5378	0.045	8.383	ug/L
|	V	51	3064.239	-0.00	0.0207	0.017	83.440	ug/L
|	Cr	52	11296.492	0.00	0.2051	0.042	20.380	ug/L
|	Cr	53	1500.263	0.00	1.4933	0.095	6.384	ug/L
|	Mn	55	15167.313	0.04	1.2198	0.021	1.682	ug/L
|	Co	59	356.677	0.00	0.0299	0.004	14.259	ug/L
|	Ni	60	471.683	0.00	0.1896	0.011	6.051	ug/L
|	Cu	65	557.021	0.00	0.2099	0.024	11.600	ug/L
|	Zn	66	6027.210	0.02	2.1100	0.146	6.925	ug/L
| >	Ge	72	328421.843	328421.84				ug/L
|	As	75	60.522	0.00	0.1932	0.025	12.989	ug/L
|	Se	77	122.667	0.00	0.4356	0.174	40.000	ug/L
|	Se	82	52.960	0.00	0.5785	0.078	13.534	ug/L
⌊	Rb	85	1885.197	0.01				mg/L
	Y	89	226860.501	10823.55				ug/L
	Rh	103	41.000	16.33				ug/L
⌈	Mo	98	223.959	0.00	0.0625	0.009	13.647	ug/L
|	Ag	107	102.335	0.00	0.0126	0.001	9.875	ug/L
|	Cd	114	16.574	0.00	0.0077	0.005	60.900	ug/L
| >	In	115	315638.911	315638.91				ug/L
|	Sn	118	631.620	0.00	0.0257	0.005	17.777	ug/L
⌊	Sb	123	278.491	0.00	0.0743	0.001	1.324	ug/L
⌈	Ba	135	12062.061	0.03	7.2622	0.219	3.017	ug/L
|	Ce	140	563.406	0.00				ug/L
⌊>	Tb	159	399393.629	399393.63				ug/L
⌈	Ho	165	60.006	0.00				ug/L
|	Tl	203	78.001	0.00	0.0187	0.002	10.155	ug/L
|	Tl	205	160.017	0.00	0.0100	0.001	13.513	ug/L
|	Pb	206	4087.544	0.01	0.6852	0.031	4.495	ug/L
|	Pb	207	3558.669	0.01	0.6354	0.018	2.761	ug/L
|	Pb	208	16263.015	0.05	0.6492	0.021	3.271	ug/L
|	U	238	252.672	0.00	0.0047	0.001	16.615	ug/L
⌊>	Bi	209	327521.286	327521.29				ug/L

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 10:47:06
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	164371605.609	1088.23	37.7008	0.271	0.720	mg/L
|	Mg	24	8002624.846	53.04	2.6688	0.033	1.246	mg/L
|	K	39	1546632.610	7.62	0.1922	0.002	1.272	mg/L
|	Ca	43	24589.323	0.16	1.6973	0.047	2.750	mg/L
|	Fe	54	97877.455	0.42	0.1198	0.002	1.474	mg/L
|	Fe	57	28356.369	0.14	0.0935	0.007	7.259	mg/L
⌊>	Sc-1	45	150845.970	150845.97				mg/L
	Cl	35	891299.485	881449.30				mg/L
	Kr	83	81.334	9.33				mg/L
	Br	81	60155.069	54129.91				mg/L
	P	31	34774.431	29041.43				mg/L
	S	34	171239.831	53320.61				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.299			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.888			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		105.269			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.506			
⌈	Na	23					

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 10:47:06
Page 2

Approved: March 30, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: PBS 76 WG359447-02

Sample Date/Time: Tuesday, March 29, 2011 10:15:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16747.352	0.12				ug/L
|	Be	9	14.000	0.00	0.0808	0.020	24.473	ug/L
|	Al	27	12040.637	0.08	2.1194	0.364	17.170	ug/L
⌊>	Sc	45	143067.259	143067.26				ug/L
⌈	Ti	49	60.006	0.00	0.0340	0.060	177.082	ug/L
|	V	51	2828.558	0.01	0.3842	0.014	3.654	ug/L
|	Cr	52	10257.027	0.03	1.5841	0.001	0.085	ug/L
|	Cr	53	763.439	0.00	1.0667	0.021	1.961	ug/L
|	Mn	55	807.374	0.00	-0.0437	0.002	4.910	ug/L
|	Co	59	130.002	0.00	0.0190	0.001	6.626	ug/L
|	Ni	60	139.669	0.00	0.0657	0.008	12.518	ug/L
|	Cu	65	237.672	0.00	0.1307	0.004	2.783	ug/L
|	Zn	66	3226.553	0.01	0.1064	0.129	121.542	ug/L
| >	Ge	72	322354.414	322354.41				ug/L
|	As	75	-191.348	-0.00	-0.1738	0.015	8.825	ug/L
|	Se	77	82.667	0.00	0.8031	0.286	35.596	ug/L
|	Se	82	-11.702	-0.00	0.0028	0.018	650.976	ug/L
⌊	Rb	85	74.334	0.00				mg/L
	Y	89	228146.265	228146.26				ug/L
	Rh	103	25.667	25.67				ug/L
⌈	Mo	98	71.430	0.00	0.0215	0.001	6.885	ug/L
|	Ag	107	144.336	0.00	0.0246	0.001	3.874	ug/L
|	Cd	114	-1.922	-0.00	-0.0100	0.006	55.966	ug/L
| >	In	115	313168.853	313168.85				ug/L
|	Sn	118	328.807	0.00	-0.0053	0.049	917.347	ug/L
⌊	Sb	123	153.443	0.00	0.0534	0.004	7.147	ug/L
⌈	Ba	135	79.001	0.00	0.0665	0.003	4.677	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	393444.121	393444.12				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	58.334	0.00	0.0202	0.001	6.241	ug/L
|	Tl	205	120.013	0.00	0.0093	0.003	33.011	ug/L
|	Pb	206	328.675	0.00	0.0644	0.002	2.601	ug/L
|	Pb	207	277.007	0.00	0.0636	0.001	0.903	ug/L
|	Pb	208	1278.711	0.00	0.0599	0.000	0.769	ug/L
|	U	238	58.334	0.00	-0.0003	0.000	43.038	ug/L
⌊>	Bi	209	326498.759	326498.76				ug/L

Sample ID: PBS 76 WG359447-02
Report Date/Time: Tuesday, March 29, 2011 10:17:58
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	99317.336	0.69	0.0363	0.001	2.613	mg/L
|	Mg	24	5855.633	0.04	-0.0025	0.000	3.933	mg/L
|	K	39	400759.648	2.80	0.0670	0.002	3.482	mg/L
|	Ca	43	453.389	0.00	0.0292	0.003	10.575	mg/L
|	Fe	54	60913.335	0.43	0.1224	0.007	5.805	mg/L
|	Fe	57	6526.120	0.05	0.0292	0.001	2.476	mg/L
⌊>	Sc-1	45	143067.259	143067.26				mg/L
	Cl	35	22472.558	22472.56				mg/L
	Kr	83	80.668	80.67				mg/L
	Br	81	9723.392	9723.39				mg/L
	P	31	9951.644	9951.64				mg/L
	S	34	133403.313	133403.31				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: PBS 76 WG359447-02
Report Date/Time: Tuesday, March 29, 2011 10:17:58
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 76 WG359447-02
Report Date/Time: Tuesday, March 29, 2011 10:17:58
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: PBS 76 WG359447-02

Sample Date/Time: Tuesday, March 29, 2011 10:15:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 12
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16747.352	0.00				ug/L
|	Be	9	14.000	-0.00	0.0191	0.020	103.562	ug/L
|	Al	27	12040.637	0.04	0.8275	0.364	43.974	ug/L
⌊>	Sc	45	143067.259	143067.26				ug/L
⌈	Ti	49	60.006	0.00	-0.0753	0.060	79.866	ug/L
|	V	51	2828.558	-0.00	-0.0011	0.014	1333.910	ug/L
|	Cr	52	10257.027	-0.00	0.0863	0.001	1.554	ug/L
|	Cr	53	763.439	0.00	0.6311	0.021	3.315	ug/L
|	Mn	55	807.374	0.00	-0.0939	0.002	2.284	ug/L
|	Co	59	130.002	0.00	0.0035	0.001	35.669	ug/L
|	Ni	60	139.669	0.00	0.0055	0.008	150.679	ug/L
|	Cu	65	237.672	0.00	0.0368	0.004	9.887	ug/L
|	Zn	66	3226.553	0.01	-0.3793	0.129	34.096	ug/L
|>	Ge	72	322354.414	322354.41				ug/L
|	As	75	-191.348	-0.00	-0.0306	0.015	50.200	ug/L
|	Se	77	82.667	0.00	-0.0013	0.286	22481.031	ug/L
|	Se	82	-11.702	-0.00	-0.0200	0.018	92.456	ug/L
⌊	Rb	85	74.334	0.00				mg/L
	Y	89	228146.265	12109.32				ug/L
	Rh	103	25.667	1.00				ug/L
⌈	Mo	98	71.430	0.00	0.0142	0.001	10.465	ug/L
|	Ag	107	144.336	0.00	0.0194	0.001	4.904	ug/L
|	Cd	114	-1.922	0.00	-0.0063	0.006	88.467	ug/L
|>	In	115	313168.853	313168.85				ug/L
|	Sn	118	328.807	0.00	-0.0378	0.049	129.209	ug/L
⌊	Sb	123	153.443	0.00	0.0459	0.004	8.331	ug/L
⌈	Ba	135	79.001	0.00	0.0241	0.003	12.905	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	393444.121	393444.12				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	58.334	0.00	0.0159	0.001	7.952	ug/L
|	Tl	205	120.013	0.00	0.0077	0.003	39.973	ug/L
|	Pb	206	328.675	0.00	0.0131	0.002	12.821	ug/L
|	Pb	207	277.007	0.00	0.0113	0.001	5.092	ug/L
|	Pb	208	1278.711	0.00	0.0100	0.000	4.632	ug/L
|	U	238	58.334	0.00	-0.0009	0.000	13.657	ug/L
⌊>	Bi	209	326498.759	326498.76				ug/L

Sample ID: PBS 76 WG359447-02
Report Date/Time: Tuesday, March 29, 2011 10:47:07
Page 1

Approved: March 30, 2011

⌈	Na	23	99317.336	-0.69	-0.0115	0.001	8.208	mg/L
|	Mg	24	5855.633	0.04	-0.0026	0.000	3.760	mg/L
|	K	39	400759.648	0.17	-0.0016	0.002	147.973	mg/L
|	Ca	43	453.389	0.00	0.0021	0.003	145.339	mg/L
|	Fe	54	60913.335	0.20	0.0540	0.007	13.154	mg/L
|	Fe	57	6526.120	-0.01	-0.0063	0.001	11.573	mg/L
⌊>	Sc-1	45	143067.259	143067.26				mg/L
	Cl	35	22472.558	12622.37				mg/L
	Kr	83	80.668	8.67				mg/L
	Br	81	9723.392	3698.24				mg/L
	P	31	9951.644	4218.64				mg/L
	S	34	133403.313	15484.09				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		102.372			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.067			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		103.701			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.183			
⌈	Na	23					

Sample ID: PBS 76 WG359447-02
Report Date/Time: Tuesday, March 29, 2011 10:47:07
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 76 WG359447-02
Report Date/Time: Tuesday, March 29, 2011 10:47:07
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: LCSS 76 WG359447-03

Sample Date/Time: Tuesday, March 29, 2011 10:22:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16914.296	0.11				ug/L
|	Be	9	6632.199	0.04	24.0862	1.015	4.213	ug/L
|	Al	27	131357.399	0.87	25.4004	1.497	5.895	ug/L
⌊>	Sc	45	151912.808	151912.81				ug/L
⌈	Ti	49	100.011	0.00	0.1105	0.054	49.290	ug/L
|	V	51	208584.350	0.63	24.8907	0.447	1.795	ug/L
|	Cr	52	192213.285	0.58	27.0416	0.427	1.580	ug/L
|	Cr	53	22771.510	0.07	27.2786	0.594	2.178	ug/L
|	Mn	55	288265.412	0.88	26.2481	0.492	1.873	ug/L
|	Co	59	218204.845	0.66	25.6772	0.290	1.129	ug/L
|	Ni	60	46468.180	0.14	25.9300	0.395	1.522	ug/L
|	Cu	65	47878.154	0.15	26.2965	0.534	2.029	ug/L
|	Zn	66	31251.739	0.10	25.4717	0.319	1.253	ug/L
| >	Ge	72	328889.051	328889.05				ug/L
|	As	75	27343.534	0.08	23.9072	0.456	1.907	ug/L
|	Se	77	1989.531	0.01	22.3763	0.753	3.367	ug/L
|	Se	82	2492.716	0.01	23.0765	0.627	2.717	ug/L
⌊	Rb	85	64.334	0.00				mg/L
	Y	89	227600.349	227600.35				ug/L
	Rh	103	35.000	35.00				ug/L
⌈	Mo	98	84.097	0.00	0.0253	0.001	4.264	ug/L
|	Ag	107	143622.200	0.45	22.5475	0.275	1.218	ug/L
|	Cd	114	31835.658	0.10	23.8689	0.158	0.661	ug/L
| >	In	115	316360.334	316360.33				ug/L
|	Sn	118	451.610	0.00	0.0197	0.004	19.783	ug/L
⌊	Sb	123	104472.182	0.33	24.0218	0.159	0.662	ug/L
⌈	Ba	135	41522.108	0.10	24.9081	0.106	0.424	ug/L
|	Ce	140	90.009	0.00				ug/L
⌊>	Tb	159	402470.061	402470.06				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	177130.116	0.53	25.0384	0.503	2.007	ug/L
|	Tl	205	428691.413	1.29	24.7494	0.253	1.021	ug/L
|	Pb	206	150259.415	0.45	26.4655	0.402	1.518	ug/L
|	Pb	207	133156.359	0.40	24.9508	0.106	0.423	ug/L
|	Pb	208	609071.995	1.83	25.6006	0.134	0.524	ug/L
|	U	238	914374.390	2.75	25.7040	0.248	0.964	ug/L
⌊>	Bi	209	332618.997	332619.00				ug/L

Sample ID: LCSS 76 WG359447-03
Report Date/Time: Tuesday, March 29, 2011 10:24:43
Page 1

Approved: March 30, 2011

⌈	Na	23	48438.546	0.32	0.0233	0.001	2.258	mg/L
|	Mg	24	12549.124	0.08	-0.0004	0.000	28.991	mg/L
|	K	39	365028.747	2.40	0.0567	0.002	3.962	mg/L
|	Ca	43	496.729	0.00	0.0303	0.005	16.886	mg/L
|	Fe	54	61276.305	0.40	0.1157	0.003	2.494	mg/L
|	Fe	57	6656.213	0.04	0.0280	0.001	3.971	mg/L
⌊>	Sc-1	45	151912.808	151912.81				mg/L
	Cl	35	23181.507	23181.51				mg/L
	Kr	83	73.334	73.33				mg/L
	Br	81	7263.975	7263.97				mg/L
	P	31	9900.239	9900.24				mg/L
	S	34	123617.877	123617.88				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: LCSS 76 WG359447-03
Report Date/Time: Tuesday, March 29, 2011 10:24:43
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 76 WG359447-03
Report Date/Time: Tuesday, March 29, 2011 10:24:43
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: LCSS 76 WG359447-03

Sample Date/Time: Tuesday, March 29, 2011 10:22:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 13
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16914.296	-0.00				ug/L
|	Be	9	6632.199	0.04	24.0246	1.015	4.223	ug/L
|	Al	27	131357.399	0.82	24.1085	1.497	6.211	ug/L
⌊>	Sc	45	151912.808	151912.81				ug/L
⌈	Ti	49	100.011	0.00	0.0013	0.054	4195.012	ug/L
|	V	51	208584.350	0.62	24.5055	0.447	1.824	ug/L
|	Cr	52	192213.285	0.55	25.5439	0.427	1.672	ug/L
|	Cr	53	22771.510	0.07	26.8429	0.594	2.213	ug/L
|	Mn	55	288265.412	0.87	26.1978	0.492	1.877	ug/L
|	Co	59	218204.845	0.66	25.6618	0.290	1.130	ug/L
|	Ni	60	46468.180	0.14	25.8697	0.395	1.525	ug/L
|	Cu	65	47878.154	0.15	26.2027	0.534	2.036	ug/L
|	Zn	66	31251.739	0.09	24.9860	0.319	1.277	ug/L
| >	Ge	72	328889.051	328889.05				ug/L
|	As	75	27343.534	0.08	24.0505	0.456	1.895	ug/L
|	Se	77	1989.531	0.01	21.5719	0.753	3.492	ug/L
|	Se	82	2492.716	0.01	23.0537	0.627	2.720	ug/L
⌊	Rb	85	64.334	0.00				mg/L
	Y	89	227600.349	11563.40				ug/L
	Rh	103	35.000	10.33				ug/L
⌈	Mo	98	84.097	0.00	0.0180	0.001	6.012	ug/L
|	Ag	107	143622.200	0.45	22.5423	0.275	1.219	ug/L
|	Cd	114	31835.658	0.10	23.8726	0.158	0.661	ug/L
| >	In	115	316360.334	316360.33				ug/L
|	Sn	118	451.610	0.00	-0.0128	0.004	30.392	ug/L
⌊	Sb	123	104472.182	0.33	24.0142	0.159	0.662	ug/L
⌈	Ba	135	41522.108	0.10	24.8657	0.106	0.425	ug/L
|	Ce	140	90.009	0.00				ug/L
⌊>	Tb	159	402470.061	402470.06				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	177130.116	0.53	25.0341	0.503	2.008	ug/L
|	Tl	205	428691.413	1.29	24.7478	0.253	1.021	ug/L
|	Pb	206	150259.415	0.45	26.4142	0.402	1.521	ug/L
|	Pb	207	133156.359	0.40	24.8985	0.106	0.424	ug/L
|	Pb	208	609071.995	1.83	25.5506	0.134	0.525	ug/L
|	U	238	914374.390	2.75	25.7034	0.248	0.964	ug/L
⌊>	Bi	209	332618.997	332619.00				ug/L

Sample ID: LCSS 76 WG359447-03
Report Date/Time: Tuesday, March 29, 2011 10:47:08
Page 1

Approved: March 30, 2011

⌈	Na	23	48438.546	-1.06	-0.0246	0.001	2.139	mg/L
|	Mg	24	12549.124	0.08	-0.0005	0.000	22.723	mg/L
|	K	39	365028.747	-0.23	-0.0119	0.002	18.800	mg/L
|	Ca	43	496.729	0.00	0.0032	0.005	159.963	mg/L
|	Fe	54	61276.305	0.17	0.0473	0.003	6.104	mg/L
|	Fe	57	6656.213	-0.01	-0.0075	0.001	14.896	mg/L
⌊>	Sc-1	45	151912.808	151912.81				mg/L
	Cl	35	23181.507	13331.32				mg/L
	Kr	83	73.334	1.33				mg/L
	Br	81	7263.975	1238.82				mg/L
	P	31	9900.239	4167.23				mg/L
	S	34	123617.877	5698.66				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		104.447			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		105.127			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		106.080			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		105.117			
⌈	Na	23					

Sample ID: LCSS 76 WG359447-03
Report Date/Time: Tuesday, March 29, 2011 10:47:08
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 76 WG359447-03
Report Date/Time: Tuesday, March 29, 2011 10:47:08
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061209

Sample Date/Time: Tuesday, March 29, 2011 10:29:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16764.065	0.10				ug/L
|	Be	9	68.000	0.00	0.2564	0.029	11.401	ug/L
|	Al	27	30153475.475	184.65	5500.9223	331.186	6.021	ug/L
⌊>	Sc	45	163458.986	163458.99				ug/L
⌈	Ti	49	60522.166	0.19	121.8754	4.676	3.836	ug/L
|	V	51	174819.439	0.55	21.4435	0.867	4.045	ug/L
|	Cr	52	74998.218	0.23	10.9137	0.598	5.478	ug/L
|	Cr	53	8210.866	0.03	10.1948	0.605	5.933	ug/L
|	Mn	55	2211663.333	6.91	207.7617	11.235	5.408	ug/L
|	Co	59	44414.686	0.14	5.3739	0.252	4.697	ug/L
|	Ni	60	12014.342	0.04	6.8795	0.288	4.190	ug/L
|	Cu	65	18206.434	0.06	10.2741	0.484	4.708	ug/L
|	Zn	66	25093.715	0.08	20.5168	0.640	3.117	ug/L
| >	Ge	72	319962.368	319962.37				ug/L
|	As	75	5417.372	0.02	4.8651	0.220	4.524	ug/L
|	Se	77	84.667	0.00	0.8342	0.160	19.155	ug/L
|	Se	82	-7.125	-0.00	0.0454	0.212	466.709	ug/L
⌊	Rb	85	39120.820	0.12				mg/L
	Y	89	270983.404	270983.40				ug/L
	Rh	103	25.667	25.67				ug/L
⌈	Mo	98	335.333	0.00	0.1087	0.008	7.028	ug/L
|	Ag	107	254.339	0.00	0.0431	0.001	2.444	ug/L
|	Cd	114	45.402	0.00	0.0268	0.008	28.347	ug/L
| >	In	115	305542.675	305542.68				ug/L
|	Sn	118	212.269	0.00	-0.0296	0.002	7.499	ug/L
⌊	Sb	123	83.649	0.00	0.0377	0.001	3.401	ug/L
⌈	Ba	135	98191.547	0.25	61.2676	2.080	3.395	ug/L
|	Ce	140	192815.194	0.50				ug/L
⌊>	Tb	159	386706.057	386706.06				ug/L
⌈	Ho	165	3377.576	0.01				ug/L
|	Tl	203	395.012	0.00	0.0691	0.002	2.801	ug/L
|	Tl	205	940.138	0.00	0.0579	0.005	8.353	ug/L
|	Pb	206	15944.221	0.05	2.8872	0.156	5.420	ug/L
|	Pb	207	13397.118	0.04	2.5862	0.125	4.823	ug/L
|	Pb	208	62717.663	0.19	2.7104	0.115	4.253	ug/L
|	U	238	11144.655	0.03	0.3196	0.008	2.635	ug/L
⌊>	Bi	209	324040.536	324040.54				ug/L

Sample ID: L1103061209
Report Date/Time: Tuesday, March 29, 2011 10:31:28
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	551028.051	3.37	0.1291	0.008	6.403	mg/L
|	Mg	24	4615902.334	28.27	1.4202	0.097	6.839	mg/L
|	K	39	5094533.163	31.19	0.8052	0.044	5.443	mg/L
|	Ca	43	20199.132	0.12	1.3068	0.104	7.983	mg/L
|	Fe	54	4907757.161	30.06	8.8924	0.669	7.521	mg/L
|	Fe	57	2097861.176	12.85	9.0037	0.891	9.894	mg/L
⌊>	Sc-1	45	163458.986	163458.99				mg/L
	Cl	35	15041.305	15041.30				mg/L
	Kr	83	91.001	91.00				mg/L
	Br	81	6591.506	6591.51				mg/L
	P	31	78599.402	78599.40				mg/L
	S	34	118284.265	118284.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: L1103061209
Report Date/Time: Tuesday, March 29, 2011 10:31:28
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061209

Sample Date/Time: Tuesday, March 29, 2011 10:29:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 14
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16764.065	-0.01				ug/L
|	Be	9	68.000	0.00	0.1948	0.029	15.011	ug/L
|	Al	27	30153475.475	184.60	5499.6305	331.186	6.022	ug/L
⌊>	Sc	45	163458.986	163458.99				ug/L
⌈	Ti	49	60522.166	0.19	121.7661	4.676	3.840	ug/L
|	V	51	174819.439	0.54	21.0583	0.867	4.119	ug/L
|	Cr	52	74998.218	0.20	9.4160	0.598	6.350	ug/L
|	Cr	53	8210.866	0.02	9.7592	0.605	6.198	ug/L
|	Mn	55	2211663.333	6.91	207.7114	11.235	5.409	ug/L
|	Co	59	44414.686	0.14	5.3584	0.252	4.710	ug/L
|	Ni	60	12014.342	0.04	6.8192	0.288	4.227	ug/L
|	Cu	65	18206.434	0.06	10.1802	0.484	4.751	ug/L
|	Zn	66	25093.715	0.08	20.0310	0.640	3.193	ug/L
| >	Ge	72	319962.368	319962.37				ug/L
|	As	75	5417.372	0.02	5.0084	0.220	4.394	ug/L
|	Se	77	84.667	0.00	0.0298	0.160	535.656	ug/L
|	Se	82	-7.125	-0.00	0.0226	0.212	938.252	ug/L
⌊	Rb	85	39120.820	0.12				mg/L
	Y	89	270983.404	54946.46				ug/L
	Rh	103	25.667	1.00				ug/L
⌈	Mo	98	335.333	0.00	0.1014	0.008	7.538	ug/L
|	Ag	107	254.339	0.00	0.0379	0.001	2.778	ug/L
|	Cd	114	45.402	0.00	0.0304	0.008	24.939	ug/L
| >	In	115	305542.675	305542.68				ug/L
|	Sn	118	212.269	0.00	-0.0621	0.002	3.577	ug/L
⌊	Sb	123	83.649	0.00	0.0301	0.001	4.258	ug/L
⌈	Ba	135	98191.547	0.25	61.2252	2.080	3.398	ug/L
|	Ce	140	192815.194	0.50				ug/L
⌊>	Tb	159	386706.057	386706.06				ug/L
⌈	Ho	165	3377.576	0.01				ug/L
|	Tl	203	395.012	0.00	0.0648	0.002	2.989	ug/L
|	Tl	205	940.138	0.00	0.0563	0.005	8.593	ug/L
|	Pb	206	15944.221	0.05	2.8359	0.156	5.518	ug/L
|	Pb	207	13397.118	0.04	2.5339	0.125	4.923	ug/L
|	Pb	208	62717.663	0.19	2.6604	0.115	4.332	ug/L
|	U	238	11144.655	0.03	0.3190	0.008	2.640	ug/L
⌊>	Bi	209	324040.536	324040.54				ug/L

Sample ID: L1103061209
Report Date/Time: Tuesday, March 29, 2011 10:47:10
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	551028.051	1.99	0.0813	0.008	10.172	mg/L	
Mg	24	4615902.334	28.27	1.4201	0.097	6.839	mg/L	
K	39	5094533.163	28.55	0.7366	0.044	5.950	mg/L	
Ca	43	20199.132	0.12	1.2797	0.104	8.153	mg/L	
Fe	54	4907757.161	29.83	8.8240	0.669	7.579	mg/L	
Fe	57	2097861.176	12.80	8.9682	0.891	9.933	mg/L	
> Sc-1	45	163458.986	163458.99				mg/L	
Cl	35	15041.305	5191.12				mg/L	
Kr	83	91.001	19.00				mg/L	
Br	81	6591.506	566.35				mg/L	
P	31	78599.402	72866.40				mg/L	
S	34	118284.265	365.04				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		101.613			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		101.533			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		101.925			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		102.406			
Na	23					

Sample ID: L1103061209
Report Date/Time: Tuesday, March 29, 2011 10:47:10
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061212

Sample Date/Time: Tuesday, March 29, 2011 10:36:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17598.825	0.11				ug/L
|	Be	9	62.667	0.00	0.2473	0.051	20.709	ug/L
|	Al	27	23600449.250	149.77	4461.9353	97.445	2.184	ug/L
⌊>	Sc	45	157668.042	157668.04				ug/L
⌈	Ti	49	62604.986	0.20	130.7657	1.010	0.773	ug/L
|	V	51	198808.745	0.64	25.2876	0.503	1.988	ug/L
|	Cr	52	132067.892	0.43	19.8386	0.399	2.012	ug/L
|	Cr	53	14845.831	0.05	19.0043	0.570	2.999	ug/L
|	Mn	55	2212369.965	7.17	215.5917	1.591	0.738	ug/L
|	Co	59	41804.285	0.14	5.2472	0.072	1.369	ug/L
|	Ni	60	10233.338	0.03	6.0758	0.052	0.855	ug/L
|	Cu	65	15974.243	0.05	9.3503	0.044	0.469	ug/L
|	Zn	66	21581.485	0.07	17.9906	0.207	1.150	ug/L
|>	Ge	72	308496.689	308496.69				ug/L
|	As	75	5566.941	0.02	5.1865	0.092	1.774	ug/L
|	Se	77	76.667	0.00	0.7717	0.249	32.252	ug/L
|	Se	82	-8.823	-0.00	0.0252	0.122	484.957	ug/L
⌊	Rb	85	30537.193	0.10				mg/L
	Y	89	253224.507	253224.51				ug/L
	Rh	103	25.000	25.00				ug/L
⌈	Mo	98	7809.521	0.03	2.6353	0.035	1.330	ug/L
|	Ag	107	254.339	0.00	0.0443	0.001	1.894	ug/L
|	Cd	114	24.278	0.00	0.0109	0.005	43.112	ug/L
|>	In	115	296966.179	296966.18				ug/L
|	Sn	118	166.268	0.00	-0.0386	0.005	12.080	ug/L
⌊	Sb	123	168.026	0.00	0.0590	0.006	10.620	ug/L
⌈	Ba	135	79685.020	0.21	50.8532	0.595	1.170	ug/L
|	Ce	140	190465.675	0.50				ug/L
⌊>	Tb	159	378194.724	378194.72				ug/L
⌈	Ho	165	2874.034	0.01				ug/L
|	Tl	203	263.673	0.00	0.0507	0.002	3.310	ug/L
|	Tl	205	716.764	0.00	0.0454	0.003	5.541	ug/L
|	Pb	206	12711.870	0.04	2.3391	0.056	2.398	ug/L
|	Pb	207	10572.025	0.03	2.0749	0.018	0.877	ug/L
|	Pb	208	50334.373	0.16	2.2101	0.020	0.900	ug/L
|	U	238	10687.482	0.03	0.3113	0.004	1.168	ug/L
⌊>	Bi	209	319084.049	319084.05				ug/L

Sample ID: L1103061212
Report Date/Time: Tuesday, March 29, 2011 10:38:14
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	405081.554	2.57	0.1013	0.004	4.320	mg/L
|	Mg	24	4091872.328	25.98	1.3046	0.042	3.203	mg/L
|	K	39	4700636.021	29.85	0.7703	0.032	4.126	mg/L
|	Ca	43	14532.004	0.09	0.9739	0.037	3.805	mg/L
|	Fe	54	5142072.468	32.65	9.6578	0.377	3.900	mg/L
|	Fe	57	2128654.582	13.51	9.4606	0.161	1.697	mg/L
⌊>	Sc-1	45	157668.042	157668.04				mg/L
	Cl	35	14232.122	14232.12				mg/L
	Kr	83	94.668	94.67				mg/L
	Br	81	5887.734	5887.73				mg/L
	P	31	83946.254	83946.25				mg/L
	S	34	117508.348	117508.35				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: L1103061212
Report Date/Time: Tuesday, March 29, 2011 10:38:14
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061212
Report Date/Time: Tuesday, March 29, 2011 10:38:14

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061212

Sample Date/Time: Tuesday, March 29, 2011 10:36:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 15
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17598.825	-0.00				ug/L
|	Be	9	62.667	0.00	0.1856	0.051	27.589	ug/L
|	Al	27	23600449.250	149.73	4460.6434	97.445	2.185	ug/L
⌊>	Sc	45	157668.042	157668.04				ug/L
⌈	Ti	49	62604.986	0.20	130.6564	1.010	0.773	ug/L
|	V	51	198808.745	0.63	24.9024	0.503	2.019	ug/L
|	Cr	52	132067.892	0.40	18.3408	0.399	2.177	ug/L
|	Cr	53	14845.831	0.05	18.5686	0.570	3.070	ug/L
|	Mn	55	2212369.965	7.17	215.5414	1.591	0.738	ug/L
|	Co	59	41804.285	0.14	5.2317	0.072	1.373	ug/L
|	Ni	60	10233.338	0.03	6.0156	0.052	0.864	ug/L
|	Cu	65	15974.243	0.05	9.2564	0.044	0.473	ug/L
|	Zn	66	21581.485	0.07	17.5049	0.207	1.182	ug/L
|>	Ge	72	308496.689	308496.69				ug/L
|	As	75	5566.941	0.02	5.3298	0.092	1.726	ug/L
|	Se	77	76.667	0.00	-0.0327	0.249	760.449	ug/L
|	Se	82	-8.823	-0.00	0.0023	0.122	5223.515	ug/L
⌊	Rb	85	30537.193	0.10				mg/L
	Y	89	253224.507	37187.56				ug/L
	Rh	103	25.000	0.33				ug/L
⌈	Mo	98	7809.521	0.03	2.6279	0.035	1.334	ug/L
|	Ag	107	254.339	0.00	0.0391	0.001	2.144	ug/L
|	Cd	114	24.278	0.00	0.0146	0.005	32.308	ug/L
|>	In	115	296966.179	296966.18				ug/L
|	Sn	118	166.268	0.00	-0.0711	0.005	6.566	ug/L
⌊	Sb	123	168.026	0.00	0.0514	0.006	12.190	ug/L
⌈	Ba	135	79685.020	0.21	50.8108	0.595	1.171	ug/L
|	Ce	140	190465.675	0.50				ug/L
⌊>	Tb	159	378194.724	378194.72				ug/L
⌈	Ho	165	2874.034	0.01				ug/L
|	Tl	203	263.673	0.00	0.0463	0.002	3.621	ug/L
|	Tl	205	716.764	0.00	0.0438	0.003	5.746	ug/L
|	Pb	206	12711.870	0.04	2.2877	0.056	2.452	ug/L
|	Pb	207	10572.025	0.03	2.0226	0.018	0.900	ug/L
|	Pb	208	50334.373	0.15	2.1602	0.020	0.921	ug/L
|	U	238	10687.482	0.03	0.3107	0.004	1.171	ug/L
⌊>	Bi	209	319084.049	319084.05				ug/L

Sample ID: L1103061212
Report Date/Time: Tuesday, March 29, 2011 10:47:11
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	405081.554	1.19	0.0535	0.004	8.184	mg/L
|	Mg	24	4091872.328	25.97	1.3044	0.042	3.203	mg/L
|	K	39	4700636.021	27.21	0.7017	0.032	4.529	mg/L
|	Ca	43	14532.004	0.09	0.9468	0.037	3.914	mg/L
|	Fe	54	5142072.468	32.42	9.5894	0.377	3.928	mg/L
|	Fe	57	2128654.582	13.46	9.4251	0.161	1.704	mg/L
⌊>	Sc-1	45	157668.042	157668.04				mg/L
	Cl	35	14232.122	4381.94				mg/L
	Kr	83	94.668	22.67				mg/L
	Br	81	5887.734	-137.42				mg/L
	P	31	83946.254	78213.25				mg/L
	S	34	117508.348	-410.87				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.971			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.683			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.682			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.840			
⌈	Na	23					

Sample ID: L1103061212
Report Date/Time: Tuesday, March 29, 2011 10:47:11
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061212
Report Date/Time: Tuesday, March 29, 2011 10:47:11

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061213

Sample Date/Time: Tuesday, March 29, 2011 10:42:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17715.715	0.11				ug/L
|	Be	9	83.334	0.00	0.3118	0.019	6.238	ug/L
|	Al	27	30503819.526	189.29	5639.3674	187.675	3.328	ug/L
⌊>	Sc	45	161240.252	161240.25				ug/L
⌈	Ti	49	73462.845	0.23	149.3584	0.981	0.657	ug/L
|	V	51	196256.350	0.62	24.2963	0.148	0.609	ug/L
|	Cr	52	77868.145	0.25	11.4339	0.202	1.766	ug/L
|	Cr	53	8647.942	0.03	10.8303	0.510	4.706	ug/L
|	Mn	55	2629751.865	8.30	249.4102	1.438	0.577	ug/L
|	Co	59	48412.735	0.15	5.9128	0.051	0.864	ug/L
|	Ni	60	12098.769	0.04	6.9939	0.033	0.475	ug/L
|	Cu	65	20398.656	0.06	11.6210	0.142	1.223	ug/L
|	Zn	66	32728.802	0.10	27.9238	0.219	0.784	ug/L
|>	Ge	72	316977.192	316977.19				ug/L
|	As	75	4688.144	0.01	4.2497	0.086	2.025	ug/L
|	Se	77	70.667	0.00	0.6790	0.052	7.697	ug/L
|	Se	82	-3.423	-0.00	0.0805	0.147	182.383	ug/L
⌊	Rb	85	46754.177	0.15				mg/L
	Y	89	267309.147	267309.15				ug/L
	Rh	103	27.334	27.33				ug/L
⌈	Mo	98	368.668	0.00	0.1215	0.004	2.917	ug/L
|	Ag	107	332.009	0.00	0.0565	0.003	4.794	ug/L
|	Cd	114	65.819	0.00	0.0434	0.014	32.334	ug/L
|>	In	115	300902.703	300902.70				ug/L
|	Sn	118	173.201	0.00	-0.0376	0.000	0.876	ug/L
⌊	Sb	123	131.067	0.00	0.0495	0.005	9.355	ug/L
⌈	Ba	135	114837.809	0.30	72.1075	1.063	1.474	ug/L
|	Ce	140	225271.494	0.59				ug/L
⌊>	Tb	159	384344.636	384344.64				ug/L
⌈	Ho	165	3570.995	0.01				ug/L
|	Tl	203	391.678	0.00	0.0685	0.004	5.288	ug/L
|	Tl	205	1003.485	0.00	0.0616	0.007	10.722	ug/L
|	Pb	206	32246.567	0.10	5.8247	0.093	1.593	ug/L
|	Pb	207	27033.432	0.08	5.1998	0.100	1.931	ug/L
|	Pb	208	126222.652	0.39	5.4410	0.061	1.128	ug/L
|	U	238	12962.527	0.04	0.3715	0.009	2.502	ug/L
⌊>	Bi	209	324588.197	324588.20				ug/L

Sample ID: L1103061213
Report Date/Time: Tuesday, March 29, 2011 10:44:59
Page 1

Approved: March 30, 2011

⌈	Na	23	402784.537	2.50	0.0988	0.002	2.182	mg/L
|	Mg	24	4526432.186	28.09	1.4113	0.056	4.001	mg/L
|	K	39	6489604.858	40.28	1.0416	0.048	4.645	mg/L
|	Ca	43	22804.922	0.14	1.4959	0.037	2.475	mg/L
|	Fe	54	5139111.636	31.88	9.4314	0.163	1.723	mg/L
|	Fe	57	2164957.518	13.44	9.4113	0.381	4.044	mg/L
⌊>	Sc-1	45	161240.252	161240.25				mg/L
	Cl	35	16928.988	16928.99				mg/L
	Kr	83	87.001	87.00				mg/L
	Br	81	6125.876	6125.88				mg/L
	P	31	94123.642	94123.64				mg/L
	S	34	104515.630	104515.63				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72					
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115					
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159					
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209					
⌈	Na	23					

Sample ID: L1103061213
Report Date/Time: Tuesday, March 29, 2011 10:44:59
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061213

Sample Date/Time: Tuesday, March 29, 2011 10:42:48
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 16
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17715.715	-0.00				ug/L
|	Be	9	83.334	0.00	0.2502	0.019	7.776	ug/L
|	Al	27	30503819.526	189.25	5638.0756	187.675	3.329	ug/L
⌊>	Sc	45	161240.252	161240.25				ug/L
⌈	Ti	49	73462.845	0.23	149.2492	0.981	0.657	ug/L
|	V	51	196256.350	0.61	23.9111	0.148	0.618	ug/L
|	Cr	52	77868.145	0.21	9.9361	0.202	2.032	ug/L
|	Cr	53	8647.942	0.03	10.3946	0.510	4.903	ug/L
|	Mn	55	2629751.865	8.29	249.3600	1.438	0.577	ug/L
|	Co	59	48412.735	0.15	5.8973	0.051	0.867	ug/L
|	Ni	60	12098.769	0.04	6.9336	0.033	0.479	ug/L
|	Cu	65	20398.656	0.06	11.5271	0.142	1.233	ug/L
|	Zn	66	32728.802	0.10	27.4380	0.219	0.798	ug/L
|>	Ge	72	316977.192	316977.19				ug/L
|	As	75	4688.144	0.02	4.3930	0.086	1.959	ug/L
|	Se	77	70.667	0.00	-0.1254	0.052	41.683	ug/L
|	Se	82	-3.423	-0.00	0.0576	0.147	254.632	ug/L
⌊	Rb	85	46754.177	0.15				mg/L
	Y	89	267309.147	51272.20				ug/L
	Rh	103	27.334	2.67				ug/L
⌈	Mo	98	368.668	0.00	0.1142	0.004	3.105	ug/L
|	Ag	107	332.009	0.00	0.0514	0.003	5.276	ug/L
|	Cd	114	65.819	0.00	0.0471	0.014	29.821	ug/L
|>	In	115	300902.703	300902.70				ug/L
|	Sn	118	173.201	0.00	-0.0701	0.000	0.470	ug/L
⌊	Sb	123	131.067	0.00	0.0419	0.005	11.051	ug/L
⌈	Ba	135	114837.809	0.30	72.0651	1.063	1.475	ug/L
|	Ce	140	225271.494	0.59				ug/L
⌊>	Tb	159	384344.636	384344.64				ug/L
⌈	Ho	165	3570.995	0.01				ug/L
|	Tl	203	391.678	0.00	0.0642	0.004	5.647	ug/L
|	Tl	205	1003.485	0.00	0.0599	0.007	11.012	ug/L
|	Pb	206	32246.567	0.10	5.7733	0.093	1.607	ug/L
|	Pb	207	27033.432	0.08	5.1475	0.100	1.951	ug/L
|	Pb	208	126222.652	0.39	5.3910	0.061	1.138	ug/L
|	U	238	12962.527	0.04	0.3709	0.009	2.506	ug/L
⌊>	Bi	209	324588.197	324588.20				ug/L

Sample ID: L1103061213
Report Date/Time: Tuesday, March 29, 2011 10:47:12
Page 1

Approved: March 30, 2011

⌈	Na	23	402784.537	1.12	0.0509	0.002	4.231	mg/L
|	Mg	24	4526432.186	28.09	1.4112	0.056	4.001	mg/L
|	K	39	6489604.858	37.65	0.9730	0.048	4.973	mg/L
|	Ca	43	22804.922	0.14	1.4688	0.037	2.520	mg/L
|	Fe	54	5139111.636	31.65	9.3630	0.163	1.736	mg/L
|	Fe	57	2164957.518	13.39	9.3758	0.381	4.060	mg/L
⌊>	Sc-1	45	161240.252	161240.25				mg/L
	Cl	35	16928.988	7078.80				mg/L
	Kr	83	87.001	15.00				mg/L
	Br	81	6125.876	100.72				mg/L
	P	31	94123.642	88390.64				mg/L
	S	34	104515.630	-13403.59				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.664			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		99.991			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.303			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.580			
⌈	Na	23					

Sample ID: L1103061213
Report Date/Time: Tuesday, March 29, 2011 10:47:12
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061213
Report Date/Time: Tuesday, March 29, 2011 10:47:12

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061214

Sample Date/Time: Tuesday, March 29, 2011 10:49:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 17
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16897.643	-0.01				ug/L
|	Be	9	61.334	0.00	0.1800	0.019	10.529	ug/L
|	Al	27	24731105.050	157.53	4692.9416	175.462	3.739	ug/L
⌊>	Sc	45	157057.684	157057.68				ug/L
⌈	Ti	49	44255.499	0.14	89.1514	2.401	2.693	ug/L
|	V	51	160807.629	0.49	19.3787	0.214	1.106	ug/L
|	Cr	52	65044.168	0.17	8.0003	0.004	0.050	ug/L
|	Cr	53	6999.816	0.02	8.2916	0.203	2.448	ug/L
|	Mn	55	2590294.543	8.11	243.7470	1.311	0.538	ug/L
|	Co	59	45006.510	0.14	5.4398	0.054	0.987	ug/L
|	Ni	60	10154.589	0.03	5.7628	0.102	1.769	ug/L
|	Cu	65	17552.571	0.05	9.8296	0.234	2.381	ug/L
|	Zn	66	24823.020	0.08	19.8199	0.122	0.616	ug/L
|>	Ge	72	319408.412	319408.41				ug/L
|	As	75	3712.093	0.01	3.4819	0.013	0.376	ug/L
|	Se	77	76.667	0.00	-0.0622	0.192	308.110	ug/L
|	Se	82	-4.374	-0.00	0.0480	0.230	479.047	ug/L
⌊	Rb	85	35779.587	0.11				mg/L
	Y	89	255074.291	39037.34				ug/L
	Rh	103	25.667	1.00				ug/L
⌈	Mo	98	227.813	0.00	0.0672	0.003	4.591	ug/L
|	Ag	107	287.674	0.00	0.0440	0.002	3.859	ug/L
|	Cd	114	47.707	0.00	0.0328	0.003	9.043	ug/L
|>	In	115	301019.351	301019.35				ug/L
|	Sn	118	228.669	0.00	-0.0577	0.001	1.884	ug/L
⌊	Sb	123	94.941	0.00	0.0331	0.001	3.444	ug/L
⌈	Ba	135	85766.424	0.22	53.8697	0.753	1.398	ug/L
|	Ce	140	194329.491	0.51				ug/L
⌊>	Tb	159	383957.706	383957.71				ug/L
⌈	Ho	165	3027.428	0.01				ug/L
|	Tl	203	282.674	0.00	0.0480	0.004	9.130	ug/L
|	Tl	205	606.746	0.00	0.0362	0.006	17.112	ug/L
|	Pb	206	12793.975	0.04	2.2417	0.041	1.828	ug/L
|	Pb	207	10676.804	0.03	1.9890	0.025	1.248	ug/L
|	Pb	208	50111.488	0.15	2.0935	0.014	0.662	ug/L
|	U	238	9383.495	0.03	0.2653	0.003	1.273	ug/L
⌊>	Bi	209	327579.260	327579.26				ug/L

Sample ID: L1103061214
Report Date/Time: Tuesday, March 29, 2011 10:51:45
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	392021.667	1.12	0.0509	0.002	4.226	mg/L
|	Mg	24	4195696.448	26.72	1.3423	0.038	2.809	mg/L
|	K	39	4864733.400	28.35	0.7313	0.020	2.778	mg/L
|	Ca	43	16742.367	0.10	1.1004	0.089	8.104	mg/L
|	Fe	54	4484407.816	28.34	8.3822	0.275	3.275	mg/L
|	Fe	57	1923222.802	12.20	8.5475	0.372	4.350	mg/L
⌊>	Sc-1	45	157057.684	157057.68				mg/L
	Cl	35	12734.774	2884.59				mg/L
	Kr	83	81.334	9.33				mg/L
	Br	81	6271.968	246.81				mg/L
	P	31	106826.936	101093.93				mg/L
	S	34	113392.274	-4526.95				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.437			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.030			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.201			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.525			
⌈	Na	23					

Sample ID: L1103061214
Report Date/Time: Tuesday, March 29, 2011 10:51:45
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061217

Sample Date/Time: Tuesday, March 29, 2011 10:56:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 18
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17348.428	0.00				ug/L
|	Be	9	58.000	0.00	0.1749	0.032	18.155	ug/L
|	Al	27	21100266.704	139.07	4143.1401	294.558	7.110	ug/L
⌊>	Sc	45	151895.647	151895.65				ug/L
⌈	Ti	49	46351.947	0.15	96.1214	4.359	4.535	ug/L
|	V	51	153041.858	0.48	18.9758	0.068	0.358	ug/L
|	Cr	52	54173.554	0.14	6.6616	0.060	0.897	ug/L
|	Cr	53	5922.348	0.02	7.1820	0.347	4.832	ug/L
|	Mn	55	1814536.839	5.85	175.7036	1.440	0.819	ug/L
|	Co	59	37557.775	0.12	4.6709	0.043	0.919	ug/L
|	Ni	60	9162.621	0.03	5.3467	0.068	1.270	ug/L
|	Cu	65	15420.369	0.05	8.8789	0.138	1.557	ug/L
|	Zn	66	24539.652	0.08	20.2266	0.135	0.668	ug/L
|>	Ge	72	310317.357	310317.36				ug/L
|	As	75	3858.128	0.01	3.7151	0.042	1.144	ug/L
|	Se	77	72.667	0.00	-0.0841	0.245	290.808	ug/L
|	Se	82	-7.067	-0.00	0.0209	0.261	1243.667	ug/L
⌊	Rb	85	41160.279	0.13				mg/L
	Y	89	252592.329	36555.38				ug/L
	Rh	103	19.000	-5.67				ug/L
⌈	Mo	98	254.736	0.00	0.0784	0.004	4.570	ug/L
|	Ag	107	258.673	0.00	0.0404	0.002	4.900	ug/L
|	Cd	114	79.333	0.00	0.0594	0.013	22.717	ug/L
|>	In	115	293231.370	293231.37				ug/L
|	Sn	118	182.135	0.00	-0.0670	0.002	2.677	ug/L
⌊	Sb	123	81.693	0.00	0.0305	0.002	5.004	ug/L
⌈	Ba	135	86002.787	0.23	55.4574	0.372	0.670	ug/L
|	Ce	140	187412.196	0.50				ug/L
⌊>	Tb	159	373973.322	373973.32				ug/L
⌈	Ho	165	3010.754	0.01				ug/L
|	Tl	203	345.676	0.00	0.0583	0.002	3.781	ug/L
|	Tl	205	783.443	0.00	0.0477	0.005	9.632	ug/L
|	Pb	206	20080.008	0.06	3.6342	0.004	0.124	ug/L
|	Pb	207	16957.870	0.05	3.2641	0.006	0.187	ug/L
|	Pb	208	79167.193	0.24	3.4178	0.031	0.917	ug/L
|	U	238	10667.795	0.03	0.3096	0.003	0.876	ug/L
⌊>	Bi	209	319591.326	319591.33				ug/L

Sample ID: L1103061217
Report Date/Time: Tuesday, March 29, 2011 10:58:32
Page 1

Approved: March 30, 2011

⌈	Na	23	1196247.667	6.50	0.2374	0.013	5.364	mg/L
|	Mg	24	3850166.433	25.37	1.2742	0.071	5.549	mg/L
|	K	39	3766261.740	22.18	0.5708	0.025	4.404	mg/L
|	Ca	43	17984.630	0.12	1.2250	0.061	4.950	mg/L
|	Fe	54	3913253.761	25.55	7.5580	0.298	3.941	mg/L
|	Fe	57	1692105.718	11.09	7.7704	0.187	2.408	mg/L
⌊>	Sc-1	45	151895.647	151895.65				mg/L
	Cl	35	14195.403	4345.22				mg/L
	Kr	83	84.335	12.33				mg/L
	Br	81	5606.239	-418.92				mg/L
	P	31	68786.453	63053.45				mg/L
	S	34	107324.886	-10594.33				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.549			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.442			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.569			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.000			
⌈	Na	23					

Sample ID: L1103061217
Report Date/Time: Tuesday, March 29, 2011 10:58:32
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061217
Report Date/Time: Tuesday, March 29, 2011 10:58:32

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061218

Sample Date/Time: Tuesday, March 29, 2011 11:03:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 19
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16864.233	-0.00				ug/L
|	Be	9	46.000	0.00	0.1315	0.039	29.693	ug/L
|	Al	27	22644965.474	148.48	4423.2689	230.538	5.212	ug/L
⌊>	Sc	45	152538.111	152538.11				ug/L
⌈	Ti	49	67070.997	0.22	138.6158	4.223	3.047	ug/L
|	V	51	149303.720	0.47	18.4297	0.432	2.346	ug/L
|	Cr	52	45064.115	0.11	5.2832	0.158	2.999	ug/L
|	Cr	53	4621.531	0.01	5.5172	0.263	4.762	ug/L
|	Mn	55	2043455.717	6.56	197.1128	4.907	2.489	ug/L
|	Co	59	34532.883	0.11	4.2768	0.109	2.556	ug/L
|	Ni	60	7952.241	0.03	4.6123	0.117	2.539	ug/L
|	Cu	65	15045.467	0.05	8.6266	0.314	3.640	ug/L
|	Zn	66	21864.429	0.07	17.5704	0.110	0.624	ug/L
| >	Ge	72	311568.129	311568.13				ug/L
|	As	75	2716.033	0.01	2.6470	0.127	4.790	ug/L
|	Se	77	74.000	0.00	-0.0710	0.091	128.070	ug/L
|	Se	82	-9.389	-0.00	-0.0009	0.130	15132.031	ug/L
⌊	Rb	85	42461.396	0.14				mg/L
	Y	89	252769.844	36732.90				ug/L
	Rh	103	22.667	-2.00				ug/L
⌈	Mo	98	287.550	0.00	0.0886	0.002	2.282	ug/L
|	Ag	107	221.005	0.00	0.0336	0.003	8.162	ug/L
|	Cd	114	30.354	0.00	0.0195	0.007	36.946	ug/L
| >	In	115	296316.620	296316.62				ug/L
|	Sn	118	201.469	0.00	-0.0631	0.004	5.847	ug/L
⌊	Sb	123	43.984	0.00	0.0210	0.001	6.113	ug/L
⌈	Ba	135	87083.806	0.23	55.2179	1.041	1.885	ug/L
|	Ce	140	202724.803	0.53				ug/L
⌊>	Tb	159	380316.841	380316.84				ug/L
⌈	Ho	165	3014.089	0.01				ug/L
|	Tl	203	362.677	0.00	0.0604	0.002	3.592	ug/L
|	Tl	205	840.120	0.00	0.0507	0.006	12.297	ug/L
|	Pb	206	17360.233	0.05	3.1105	0.079	2.532	ug/L
|	Pb	207	14593.122	0.04	2.7806	0.069	2.476	ug/L
|	Pb	208	68630.868	0.21	2.9331	0.064	2.175	ug/L
|	U	238	10928.078	0.03	0.3146	0.006	1.889	ug/L
⌊>	Bi	209	322168.641	322168.64				ug/L

Sample ID: L1103061218
Report Date/Time: Tuesday, March 29, 2011 11:05:19
Page 1

Approved: March 30, 2011

⌈	Na	23	1121961.311	5.98	0.2192	0.010	4.617	mg/L
|	Mg	24	3118862.449	20.45	1.0262	0.050	4.854	mg/L
|	K	39	3776386.690	22.13	0.5695	0.020	3.512	mg/L
|	Ca	43	16902.638	0.11	1.1435	0.036	3.127	mg/L
|	Fe	54	3703745.165	24.06	7.1159	0.253	3.558	mg/L
|	Fe	57	1592342.728	10.39	7.2768	0.125	1.715	mg/L
⌊>	Sc-1	45	152538.111	152538.11				mg/L
	Cl	35	14761.555	4911.37				mg/L
	Kr	83	83.001	11.00				mg/L
	Br	81	5774.334	-250.82				mg/L
	P	31	65336.142	59603.14				mg/L
	S	34	100444.020	-17475.20				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.947			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.467			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		100.241			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.815			
⌈	Na	23					

Sample ID: L1103061218
Report Date/Time: Tuesday, March 29, 2011 11:05:19
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061218
Report Date/Time: Tuesday, March 29, 2011 11:05:19

Approved: March 30, 2011

Data not used.

Method 6020 - Summary Report

Sample ID: L1103061218PS WG360149-01

Sample Date/Time: Tuesday, March 29, 2011 11:09:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 20
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17515.327	0.00				ug/L
|	Be	9	64.667	0.00	0.1984	0.049	24.640	ug/L
|	Al	27	23584524.520	154.27	4595.7972	59.852	1.302	ug/L
⌊>	Sc	45	152825.690	152825.69				ug/L
⌈	Ti	49	70095.456	0.22	143.7855	6.375	4.433	ug/L
|	V	51	155615.101	0.49	19.0757	0.592	3.105	ug/L
|	Cr	52	46840.274	0.12	5.4932	0.122	2.228	ug/L
|	Cr	53	4901.694	0.01	5.8220	0.388	6.656	ug/L
|	Mn	55	2151010.218	6.85	205.9123	6.997	3.398	ug/L
|	Co	59	36281.108	0.12	4.4596	0.141	3.168	ug/L
|	Ni	60	8406.954	0.03	4.8420	0.182	3.767	ug/L
|	Cu	65	15857.726	0.05	9.0272	0.173	1.914	ug/L
|	Zn	66	22007.087	0.07	17.5479	0.449	2.559	ug/L
|>	Ge	72	313921.818	313921.82				ug/L
|	As	75	2958.468	0.01	2.8501	0.036	1.269	ug/L
|	Se	77	76.000	0.00	-0.0541	0.083	153.874	ug/L
|	Se	82	7.287	0.00	0.1605	0.198	123.172	ug/L
⌊	Rb	85	44636.205	0.14				mg/L
	Y	89	258524.790	42487.84				ug/L
	Rh	103	23.334	-1.33				ug/L
⌈	Mo	98	325.520	0.00	0.1003	0.004	4.036	ug/L
|	Ag	107	251.006	0.00	0.0382	0.002	4.028	ug/L
|	Cd	114	31.390	0.00	0.0201	0.009	44.021	ug/L
|>	In	115	299308.749	299308.75				ug/L
|	Sn	118	165.468	0.00	-0.0716	0.002	2.483	ug/L
⌊	Sb	123	52.942	0.00	0.0231	0.001	5.355	ug/L
⌈	Ba	135	90985.440	0.24	57.2178	0.915	1.598	ug/L
|	Ce	140	209789.157	0.55				ug/L
|>	Tb	159	383430.746	383430.75				ug/L
⌈	Ho	165	3354.231	0.01				ug/L
|	Tl	203	375.677	0.00	0.0622	0.004	5.911	ug/L
|	Tl	205	950.140	0.00	0.0572	0.002	2.738	ug/L
|	Pb	206	18126.268	0.06	3.2450	0.060	1.857	ug/L
|	Pb	207	15169.320	0.05	2.8877	0.042	1.452	ug/L
|	Pb	208	71283.993	0.22	3.0440	0.046	1.502	ug/L
|	U	238	11318.851	0.04	0.3256	0.010	3.022	ug/L
⌊>	Bi	209	322604.888	322604.89				ug/L

Approved: March 30, 2011

Na	23	1122988.567	5.97	0.2189	0.001	0.589	mg/L
Mg	24	3223325.011	21.09	1.0583	0.005	0.507	mg/L
K	39	3973713.422	23.36	0.6016	0.012	2.052	mg/L
Ca	43	17390.237	0.11	1.1745	0.079	6.705	mg/L
Fe	54	4005203.113	25.98	7.6831	0.117	1.528	mg/L
Fe	57	1700215.301	11.07	7.7549	0.193	2.485	mg/L
Sc-1	45	152825.690	152825.69				mg/L
Cl	35	15615.517	5765.33				mg/L
Kr	83	82.001	10.00				mg/L
Br	81	5633.586	-391.57				mg/L
P	31	67836.699	62103.69				mg/L
S	34	109213.937	-8705.28				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		99.694			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		99.461			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		101.062			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		101.953			
Na	23					

Sample ID: L1103061218PS WG360149-01
Report Date/Time: Tuesday, March 29, 2011 11:12:06
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061218PS WG360149-01
Report Date/Time: Tuesday, March 29, 2011 11:12:06
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 11:16:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15929.365	0.01				ug/L
|	Be	9	13558.521	0.10	56.7949	2.259	3.977	ug/L
|	Al	27	240713.048	1.79	52.9269	2.533	4.786	ug/L
⌊>	Sc	45	131442.120	131442.12				ug/L
⌈	Ti	49	47269.555	0.15	96.6611	2.475	2.561	ug/L
|	V	51	395668.227	1.25	48.9112	0.534	1.093	ug/L
|	Cr	52	348024.926	1.07	49.5583	0.188	0.379	ug/L
|	Cr	53	40412.216	0.13	50.0311	0.990	1.979	ug/L
|	Mn	55	526686.881	1.67	50.1698	0.734	1.463	ug/L
|	Co	59	410378.314	1.30	50.4448	0.642	1.274	ug/L
|	Ni	60	87147.653	0.28	50.7679	0.511	1.006	ug/L
|	Cu	65	89498.642	0.28	51.2711	0.683	1.332	ug/L
|	Zn	66	56158.487	0.18	49.8742	0.717	1.437	ug/L
| >	Ge	72	314695.744	314695.74				ug/L
|	As	75	55717.662	0.18	51.0491	0.604	1.183	ug/L
|	Se	77	4478.336	0.01	52.0512	0.314	0.603	ug/L
|	Se	82	5434.587	0.02	52.3987	1.003	1.915	ug/L
⌊	Rb	85	2143.918	0.01				mg/L
	Y	89	216799.701	762.75				ug/L
	Rh	103	44.334	19.67				ug/L
⌈	Mo	98	299610.659	0.99	99.2459	1.367	1.377	ug/L
|	Ag	107	303810.295	1.00	49.8488	0.796	1.597	ug/L
|	Cd	114	64049.018	0.21	50.2041	0.808	1.610	ug/L
| >	In	115	302668.910	302668.91				ug/L
|	Sn	118	226799.310	0.75	50.2623	0.687	1.366	ug/L
⌊	Sb	123	211054.933	0.70	50.6960	0.613	1.210	ug/L
⌈	Ba	135	79321.491	0.21	49.7248	0.902	1.813	ug/L
|	Ce	140	80.008	0.00				ug/L
⌊>	Tb	159	384706.009	384706.01				ug/L
⌈	Ho	165	33.337	0.00				ug/L
|	Tl	203	338304.132	1.06	49.9487	0.470	0.941	ug/L
|	Tl	205	846500.523	2.66	51.0571	0.749	1.467	ug/L
|	Pb	206	274183.072	0.86	50.4002	0.405	0.803	ug/L
|	Pb	207	257988.256	0.81	50.4484	0.768	1.522	ug/L
|	Pb	208	1154540.638	3.62	50.6481	0.349	0.690	ug/L
|	U	238	1899264.231	5.97	55.7848	0.642	1.151	ug/L
⌊>	Bi	209	318350.187	318350.19				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 11:18:53
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	20222281.593	152.57	5.2962	0.169	3.185	mg/L
|	Mg	24	13861532.606	105.56	5.3153	0.258	4.860	mg/L
|	K	39	26742749.275	200.98	5.2202	0.213	4.074	mg/L
|	Ca	43	66087.664	0.50	5.3013	0.101	1.898	mg/L
|	Fe	54	2509776.373	18.88	5.5833	0.234	4.191	mg/L
|	Fe	57	1054448.138	7.98	5.5861	0.188	3.367	mg/L
⌊>	Sc-1	45	131442.120	131442.12				mg/L
	Cl	35	12347.621	2497.44				mg/L
	Kr	83	75.001	3.00				mg/L
	Br	81	5767.663	-257.49				mg/L
	P	31	4955.900	-777.10				mg/L
	S	34	132592.209	14672.99				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	97.822				
|	Cr	52	99.117				
|	Cr	53					
|	Mn	55	100.340				
|	Co	59	100.890				
|	Ni	60	101.536				
|	Cu	65	102.542				
|	Zn	66	99.748				
|>	Ge	72		99.940			
|	As	75	102.098				
|	Se	77					
|	Se	82	104.797				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	99.698				
|	Cd	114	100.408				
|>	In	115		100.578			
|	Sn	118					
⌊	Sb	123	101.392				
⌈	Ba	135	99.450				
|	Ce	140					
⌊>	Tb	159		101.398			
⌈	Ho	165					
|	Tl	203	99.897				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	101.296				
|	U	238	111.570				
⌊>	Bi	209		100.608			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 11:18:53
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 11:18:53
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 11:23:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16830.868	0.01				ug/L
|	Be	9	14.000	-0.00	0.0193	0.015	76.929	ug/L
|	Al	27	5468.166	-0.00	-0.5460	0.081	14.927	ug/L
⌊>	Sc	45	142542.199	142542.20				ug/L
⌈	Ti	49	40.004	-0.00	-0.1164	0.052	44.343	ug/L
|	V	51	2452.758	-0.00	-0.0500	0.009	16.996	ug/L
|	Cr	52	8217.791	-0.01	-0.2180	0.020	8.945	ug/L
|	Cr	53	303.368	-0.00	0.0676	0.030	44.879	ug/L
|	Mn	55	539.687	-0.00	-0.1195	0.002	2.054	ug/L
|	Co	59	98.668	-0.00	-0.0004	0.002	451.476	ug/L
|	Ni	60	101.668	-0.00	-0.0168	0.003	17.739	ug/L
|	Cu	65	155.336	-0.00	-0.0103	0.008	78.846	ug/L
|	Zn	66	477.683	-0.00	-2.9279	0.013	0.458	ug/L
|>	Ge	72	325978.947	325978.95				ug/L
|	As	75	-104.449	0.00	0.0479	0.053	110.882	ug/L
|	Se	77	63.334	-0.00	-0.2323	0.034	14.451	ug/L
|	Se	82	10.745	0.00	0.1895	0.161	84.864	ug/L
⌊	Rb	85	41.334	0.00				mg/L
	Y	89	223580.713	7543.76				ug/L
	Rh	103	25.000	0.33				ug/L
⌈	Mo	98	136.545	0.00	0.0349	0.004	10.155	ug/L
|	Ag	107	45.334	0.00	0.0037	0.001	33.182	ug/L
|	Cd	114	-5.410	-0.00	-0.0089	0.000	4.307	ug/L
|>	In	115	313809.714	313809.71				ug/L
|	Sn	118	238.270	0.00	-0.0577	0.006	10.870	ug/L
⌊	Sb	123	60.024	0.00	0.0241	0.001	4.628	ug/L
⌈	Ba	135	46.001	-0.00	0.0035	0.006	163.992	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	398336.589	398336.59				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	54.001	0.00	0.0152	0.001	6.954	ug/L
|	Tl	205	116.679	0.00	0.0075	0.002	24.568	ug/L
|	Pb	206	278.007	-0.00	0.0039	0.003	71.418	ug/L
|	Pb	207	271.006	-0.00	0.0101	0.002	22.701	ug/L
|	Pb	208	1147.037	-0.00	0.0043	0.001	25.629	ug/L
|	U	238	93.001	0.00	0.0001	0.000	217.953	ug/L
⌊>	Bi	209	326923.889	326923.89				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 11:25:38
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	189878.063	-0.05	0.0105	0.001	11.856	mg/L
|	Mg	24	583.409	0.00	-0.0045	0.000	0.193	mg/L
|	K	39	356250.008	-0.14	-0.0095	0.001	11.677	mg/L
|	Ca	43	356.709	-0.00	-0.0050	0.005	98.251	mg/L
|	Fe	54	33361.063	0.00	-0.0029	0.001	49.066	mg/L
|	Fe	57	6235.903	-0.01	-0.0075	0.001	18.538	mg/L
⌊>	Sc-1	45	142542.199	142542.20				mg/L
	Cl	35	10844.544	994.36				mg/L
	Kr	83	67.668	-4.33				mg/L
	Br	81	5829.037	-196.12				mg/L
	P	31	5726.318	-6.69				mg/L
	S	34	112171.775	-5747.45				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		103.523			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		104.280			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		104.991			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.318			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 11:25:38
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
\└>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 11:25:38
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061218SDL WG360149-02

Sample Date/Time: Tuesday, March 29, 2011 11:30:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 21
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17799.232	0.01				ug/L
|	Be	9	18.667	0.00	0.0387	0.024	61.696	ug/L
|	Al	27	4542653.527	32.38	964.2983	14.860	1.541	ug/L
⌊>	Sc	45	140108.024	140108.02				ug/L
⌈	Ti	49	13720.796	0.04	26.9635	1.582	5.867	ug/L
|	V	51	31700.121	0.09	3.4666	0.060	1.722	ug/L
|	Cr	52	15014.415	0.01	0.7438	0.058	7.750	ug/L
|	Cr	53	1173.520	0.00	1.1157	0.172	15.379	ug/L
|	Mn	55	417558.648	1.28	38.3826	0.726	1.890	ug/L
|	Co	59	7003.522	0.02	0.8198	0.021	2.533	ug/L
|	Ni	60	1690.493	0.00	0.8790	0.057	6.497	ug/L
|	Cu	65	3205.546	0.01	1.6811	0.073	4.355	ug/L
|	Zn	66	7357.446	0.02	3.3716	0.101	2.995	ug/L
|>	Ge	72	325833.024	325833.02				ug/L
|	As	75	468.759	0.00	0.5529	0.085	15.385	ug/L
|	Se	77	72.000	0.00	-0.1334	0.092	69.015	ug/L
|	Se	82	-1.675	-0.00	0.0725	0.201	277.182	ug/L
⌊	Rb	85	8431.638	0.03				mg/L
	Y	89	234706.604	18669.66				ug/L
	Rh	103	18.667	-6.00				ug/L
⌈	Mo	98	112.695	0.00	0.0278	0.003	12.139	ug/L
|	Ag	107	68.668	0.00	0.0076	0.001	10.915	ug/L
|	Cd	114	7.075	0.00	0.0006	0.011	1882.016	ug/L
|>	In	115	309492.427	309492.43				ug/L
|	Sn	118	165.868	0.00	-0.0727	0.003	3.449	ug/L
⌊	Sb	123	46.359	0.00	0.0211	0.002	10.600	ug/L
⌈	Ba	135	17237.016	0.04	10.6063	0.017	0.160	ug/L
|	Ce	140	39280.955	0.10				ug/L
⌊>	Tb	159	391172.085	391172.09				ug/L
⌈	Ho	165	653.420	0.00				ug/L
|	Tl	203	129.335	0.00	0.0260	0.001	5.732	ug/L
|	Tl	205	246.694	0.00	0.0151	0.002	16.404	ug/L
|	Pb	206	3602.685	0.01	0.5973	0.011	1.841	ug/L
|	Pb	207	3001.814	0.01	0.5285	0.005	0.975	ug/L
|	Pb	208	14149.087	0.04	0.5581	0.007	1.219	ug/L
|	U	238	2097.574	0.01	0.0572	0.002	2.829	ug/L
⌊>	Bi	209	328057.026	328057.03				ug/L

Sample ID: L1103061218SDL WG360149-02
Report Date/Time: Tuesday, March 29, 2011 11:32:25
Page 1

Approved: March 30, 2011

Na	23	228785.003	0.25	0.0209	0.002	8.192	mg/L	
Mg	24	665833.581	4.75	0.2348	0.003	1.441	mg/L	
K	39	1180996.013	5.79	0.1447	0.002	1.494	mg/L	
Ca	43	3407.588	0.02	0.2263	0.007	3.246	mg/L	
Fe	54	813927.656	5.58	1.6470	0.033	1.981	mg/L	
Fe	57	334464.500	2.34	1.6343	0.019	1.190	mg/L	
> Sc-1	45	140108.024	140108.02				mg/L	
Cl	35	10367.374	517.19				mg/L	
Kr	83	77.668	5.67				mg/L	
Br	81	5703.626	-321.53				mg/L	
P	31	15396.512	9663.51				mg/L	
S	34	106181.507	-11737.71				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		103.477			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		102.845			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		103.102			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.676			
Na	23					

Sample ID: L1103061218SDL WG360149-02
Report Date/Time: Tuesday, March 29, 2011 11:32:25
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103061218SDL WG360149-02
Report Date/Time: Tuesday, March 29, 2011 11:32:25
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061219

Sample Date/Time: Tuesday, March 29, 2011 11:37:01
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 22
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19084.889	0.01				ug/L
|	Be	9	60.000	0.00	0.1834	0.006	3.383	ug/L
|	Al	27	27509970.364	181.71	5413.4674	154.593	2.856	ug/L
|>	Sc	45	151455.896	151455.90				ug/L
⌈	Ti	49	64238.746	0.20	131.3238	1.314	1.001	ug/L
|	V	51	161014.126	0.50	19.6833	0.338	1.717	ug/L
|	Cr	52	63864.595	0.17	7.9604	0.093	1.174	ug/L
|	Cr	53	6672.893	0.02	8.0061	0.049	0.616	ug/L
|	Mn	55	1825154.861	5.79	174.1253	0.710	0.408	ug/L
|	Co	59	43863.098	0.14	5.3764	0.035	0.652	ug/L
|	Ni	60	16645.011	0.05	9.6284	0.158	1.638	ug/L
|	Cu	65	17271.409	0.05	9.8079	0.076	0.775	ug/L
|	Zn	66	20190.564	0.06	15.7596	0.090	0.573	ug/L
|>	Ge	72	314959.894	314959.89				ug/L
|	As	75	3736.462	0.01	3.5512	0.068	1.904	ug/L
|	Se	77	64.667	-0.00	-0.1916	0.196	102.118	ug/L
|	Se	82	-11.771	-0.00	-0.0232	0.100	430.468	ug/L
⌊	Rb	85	24056.143	0.08				mg/L
	Y	89	255012.520	38975.57				ug/L
	Rh	103	22.667	-2.00				ug/L
⌈	Mo	98	457.850	0.00	0.1469	0.006	3.881	ug/L
|	Ag	107	220.671	0.00	0.0337	0.002	6.131	ug/L
|	Cd	114	-0.603	0.00	-0.0052	0.006	119.460	ug/L
|>	In	115	294965.192	294965.19				ug/L
|	Sn	118	174.935	0.00	-0.0689	0.003	3.973	ug/L
⌊	Sb	123	75.110	0.00	0.0288	0.003	9.863	ug/L
⌈	Ba	135	59593.308	0.16	38.3392	0.157	0.410	ug/L
|	Ce	140	165681.016	0.44				ug/L
|>	Tb	159	374761.612	374761.61				ug/L
⌈	Ho	165	2904.046	0.01				ug/L
|	Tl	203	233.338	0.00	0.0415	0.002	4.561	ug/L
|	Tl	205	543.403	0.00	0.0330	0.006	16.726	ug/L
|	Pb	206	9736.503	0.03	1.7245	0.036	2.095	ug/L
|	Pb	207	8119.710	0.02	1.5288	0.012	0.785	ug/L
|	Pb	208	38384.133	0.12	1.6208	0.018	1.091	ug/L
|	U	238	9349.463	0.03	0.2689	0.006	2.289	ug/L
|>	Bi	209	322131.200	322131.20				ug/L

Sample ID: L1103061219
Report Date/Time: Tuesday, March 29, 2011 11:39:13
Page 1

Approved: March 30, 2011

⌈	Na	23	739164.463	3.51	0.1336	0.009	6.557	mg/L
|	Mg	24	5491736.713	36.29	1.8242	0.064	3.515	mg/L
|	K	39	2711266.371	15.28	0.3914	0.018	4.621	mg/L
|	Ca	43	16652.185	0.11	1.1349	0.030	2.676	mg/L
|	Fe	54	4621692.991	30.32	8.9674	0.410	4.575	mg/L
|	Fe	57	1990152.508	13.10	9.1747	0.298	3.245	mg/L
⌊>	Sc-1	45	151455.896	151455.90				mg/L
	Cl	35	12203.442	2353.26				mg/L
	Kr	83	88.668	16.67				mg/L
	Br	81	5519.524	-505.63				mg/L
	P	31	74943.837	69210.83				mg/L
	S	34	113899.200	-4020.02				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.024			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.018			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.777			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.803			
⌈	Na	23					

Sample ID: L1103061219
Report Date/Time: Tuesday, March 29, 2011 11:39:13
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061219
Report Date/Time: Tuesday, March 29, 2011 11:39:13

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061220

Sample Date/Time: Tuesday, March 29, 2011 11:43:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 23
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17482.072	0.00				ug/L
|	Be	9	52.667	0.00	0.1596	0.021	13.229	ug/L
|	Al	27	14978825.533	100.21	2985.3900	51.330	1.719	ug/L
⌊>	Sc	45	149424.908	149424.91				ug/L
⌈	Ti	49	48173.946	0.16	100.5041	1.908	1.898	ug/L
|	V	51	87575.592	0.27	10.7788	0.223	2.068	ug/L
|	Cr	52	22365.541	0.04	1.9605	0.009	0.483	ug/L
|	Cr	53	2043.748	0.01	2.2988	0.258	11.234	ug/L
|	Mn	55	1229140.371	3.98	119.6860	0.627	0.524	ug/L
|	Co	59	18573.084	0.06	2.3178	0.019	0.820	ug/L
|	Ni	60	3616.023	0.01	2.0782	0.028	1.350	ug/L
|	Cu	65	10796.934	0.03	6.2260	0.074	1.188	ug/L
|	Zn	66	11599.840	0.04	7.8545	0.098	1.248	ug/L
|>	Ge	72	308452.060	308452.06				ug/L
|	As	75	800.515	0.00	0.8868	0.091	10.315	ug/L
|	Se	77	66.000	-0.00	-0.1588	0.106	66.714	ug/L
|	Se	82	12.073	0.00	0.2093	0.183	87.248	ug/L
⌊	Rb	85	44870.563	0.15				mg/L
	Y	89	249598.216	33561.27				ug/L
	Rh	103	23.667	-1.00				ug/L
⌈	Mo	98	172.323	0.00	0.0501	0.002	3.681	ug/L
|	Ag	107	153.669	0.00	0.0225	0.002	10.724	ug/L
|	Cd	114	-3.149	0.00	-0.0073	0.004	51.710	ug/L
|>	In	115	293686.775	293686.78				ug/L
|	Sn	118	149.201	0.00	-0.0746	0.001	1.990	ug/L
⌊	Sb	123	64.192	0.00	0.0261	0.003	10.109	ug/L
⌈	Ba	135	66560.446	0.18	42.7351	0.054	0.127	ug/L
|	Ce	140	185048.209	0.49				ug/L
⌊>	Tb	159	375536.168	375536.17				ug/L
⌈	Ho	165	2790.672	0.01				ug/L
|	Tl	203	296.674	0.00	0.0515	0.001	2.443	ug/L
|	Tl	205	646.752	0.00	0.0399	0.005	12.339	ug/L
|	Pb	206	7404.815	0.02	1.3236	0.032	2.455	ug/L
|	Pb	207	6076.907	0.02	1.1539	0.029	2.474	ug/L
|	Pb	208	28814.621	0.09	1.2269	0.020	1.628	ug/L
|	U	238	9967.733	0.03	0.2918	0.010	3.325	ug/L
⌊>	Bi	209	316746.655	316746.65				ug/L

Sample ID: L1103061220
Report Date/Time: Tuesday, March 29, 2011 11:45:58
Page 1

Approved: March 30, 2011

⌈	Na	23	440154.763	1.56	0.0664	0.001	1.695	mg/L
|	Mg	24	1879973.882	12.58	0.6296	0.022	3.508	mg/L
|	K	39	3109335.480	18.17	0.4667	0.006	1.309	mg/L
|	Ca	43	14214.854	0.09	0.9773	0.029	2.968	mg/L
|	Fe	54	2273729.404	14.99	4.4315	0.082	1.849	mg/L
|	Fe	57	967981.056	6.43	4.5018	0.180	3.989	mg/L
⌊>	Sc-1	45	149424.908	149424.91				mg/L
	Cl	35	10215.217	365.03				mg/L
	Kr	83	68.334	-3.67				mg/L
	Br	81	5382.115	-643.04				mg/L
	P	31	43797.720	38064.71				mg/L
	S	34	100363.000	-17556.22				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.957			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.593			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.981			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.101			
⌈	Na	23					

Sample ID: L1103061220
Report Date/Time: Tuesday, March 29, 2011 11:45:58
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061221 WG359447-01

Sample Date/Time: Tuesday, March 29, 2011 11:50:32
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 24
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17765.825	0.00				ug/L
|	Be	9	70.000	0.00	0.2135	0.044	20.576	ug/L
|	Al	27	25391981.328	163.36	4866.5880	48.160	0.990	ug/L
⌊>	Sc	45	155398.228	155398.23				ug/L
⌈	Ti	49	78672.810	0.25	159.1592	1.961	1.232	ug/L
|	V	51	176391.583	0.54	21.3630	0.205	0.960	ug/L
|	Cr	52	71040.164	0.19	8.8998	0.142	1.594	ug/L
|	Cr	53	7927.275	0.02	9.4650	0.664	7.015	ug/L
|	Mn	55	1849470.431	5.81	174.5749	1.100	0.630	ug/L
|	Co	59	43485.112	0.14	5.2735	0.059	1.125	ug/L
|	Ni	60	13999.933	0.04	8.0005	0.117	1.467	ug/L
|	Cu	65	16357.865	0.05	9.1847	0.034	0.367	ug/L
|	Zn	66	21031.637	0.06	16.3446	0.040	0.242	ug/L
| >	Ge	72	318340.245	318340.25				ug/L
|	As	75	4170.252	0.01	3.9072	0.105	2.688	ug/L
|	Se	77	70.000	0.00	-0.1367	0.104	75.755	ug/L
|	Se	82	-3.736	-0.00	0.0537	0.216	401.845	ug/L
⌊	Rb	85	28015.137	0.09				mg/L
	Y	89	264125.978	48089.03				ug/L
	Rh	103	27.000	2.33				ug/L
⌈	Mo	98	858.844	0.00	0.2762	0.007	2.515	ug/L
|	Ag	107	225.671	0.00	0.0336	0.004	13.266	ug/L
|	Cd	114	13.928	0.00	0.0061	0.004	67.258	ug/L
| >	In	115	302286.271	302286.27				ug/L
|	Sn	118	188.668	0.00	-0.0668	0.003	4.340	ug/L
⌊	Sb	123	64.483	0.00	0.0257	0.001	3.822	ug/L
⌈	Ba	135	84982.088	0.22	53.4554	0.517	0.966	ug/L
|	Ce	140	211609.821	0.55				ug/L
⌊>	Tb	159	383371.694	383371.69				ug/L
⌈	Ho	165	3474.284	0.01				ug/L
|	Tl	203	345.009	0.00	0.0566	0.004	6.744	ug/L
|	Tl	205	746.769	0.00	0.0440	0.005	10.678	ug/L
|	Pb	206	10416.527	0.03	1.7999	0.026	1.437	ug/L
|	Pb	207	8621.802	0.03	1.5834	0.011	0.715	ug/L
|	Pb	208	40532.285	0.12	1.6692	0.014	0.856	ug/L
|	U	238	11954.594	0.04	0.3356	0.001	0.428	ug/L
⌊>	Bi	209	330548.641	330548.64				ug/L

Sample ID: L1103061221 WG359447-01
Report Date/Time: Tuesday, March 29, 2011 11:52:44
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	681273.299	3.00	0.1162	0.001	0.603	mg/L
|	Mg	24	6168883.078	39.70	1.9962	0.034	1.719	mg/L
|	K	39	3335963.573	18.83	0.4839	0.016	3.336	mg/L
|	Ca	43	22206.857	0.14	1.4841	0.053	3.579	mg/L
|	Fe	54	4804583.376	30.69	9.0785	0.163	1.794	mg/L
|	Fe	57	2023711.370	12.97	9.0860	0.054	0.595	mg/L
⌊>	Sc-1	45	155398.228	155398.23				mg/L
	Cl	35	10845.212	995.03				mg/L
	Kr	83	84.668	12.67				mg/L
	Br	81	5600.902	-424.25				mg/L
	P	31	108620.097	102887.09				mg/L
	S	34	104724.957	-13194.26				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		101.097			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.451			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.046			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.463			
⌈	Na	23					

Sample ID: L1103061221 WG359447-01
Report Date/Time: Tuesday, March 29, 2011 11:52:44
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061222S WG359447-04

Sample Date/Time: Tuesday, March 29, 2011 11:57:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 25
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16797.438	-0.00				ug/L
|	Be	9	1448.772	0.01	5.2423	0.426	8.121	ug/L
|	Al	27	31029335.603	205.04	6108.4525	140.630	2.302	ug/L
⌊>	Sc	45	151320.003	151320.00				ug/L
⌈	Ti	49	116115.285	0.38	242.6450	3.783	1.559	ug/L
|	V	51	254673.277	0.82	32.0176	0.516	1.613	ug/L
|	Cr	52	107971.205	0.32	14.7528	0.349	2.368	ug/L
|	Cr	53	12362.206	0.04	15.4170	0.071	0.459	ug/L
|	Mn	55	1816824.170	5.89	177.0794	2.288	1.292	ug/L
|	Co	59	79703.555	0.26	9.9922	0.281	2.808	ug/L
|	Ni	60	20735.687	0.07	12.2755	0.336	2.737	ug/L
|	Cu	65	25682.194	0.08	14.9497	0.226	1.511	ug/L
|	Zn	66	31229.333	0.10	26.8552	0.404	1.506	ug/L
|>	Ge	72	308324.822	308324.82				ug/L
|	As	75	8455.874	0.03	8.0251	0.103	1.280	ug/L
|	Se	77	484.012	0.00	4.8925	0.347	7.091	ug/L
|	Se	82	531.317	0.00	5.3100	0.354	6.669	ug/L
⌊	Rb	85	32924.110	0.11				mg/L
	Y	89	261370.988	45334.04				ug/L
	Rh	103	22.667	-2.00				ug/L
⌈	Mo	98	1476.813	0.01	0.5047	0.007	1.374	ug/L
|	Ag	107	25841.942	0.09	4.4471	0.041	0.925	ug/L
|	Cd	114	6426.848	0.02	5.2829	0.114	2.160	ug/L
|>	In	115	288395.056	288395.06				ug/L
|	Sn	118	203.735	0.00	-0.0613	0.001	2.223	ug/L
⌊	Sb	123	624.930	0.00	0.1677	0.005	2.822	ug/L
⌈	Ba	135	72913.247	0.20	47.3747	0.137	0.289	ug/L
|	Ce	140	223066.131	0.60				ug/L
⌊>	Tb	159	371115.693	371115.69				ug/L
⌈	Ho	165	3751.079	0.01				ug/L
|	Tl	203	33316.408	0.10	4.9013	0.043	0.880	ug/L
|	Tl	205	82450.127	0.26	4.9489	0.105	2.125	ug/L
|	Pb	206	38084.098	0.12	6.9262	0.050	0.717	ug/L
|	Pb	207	33166.912	0.10	6.4169	0.059	0.915	ug/L
|	Pb	208	154420.602	0.48	6.7017	0.043	0.644	ug/L
|	U	238	187973.508	0.59	5.4913	0.034	0.616	ug/L
⌊>	Bi	209	319934.499	319934.50				ug/L

Sample ID: L1103061222S WG359447-04
Report Date/Time: Tuesday, March 29, 2011 11:59:29
Page 1

Approved: March 30, 2011

⌈	Na	23	753627.758	3.60	0.1369	0.005	3.571	mg/L
|	Mg	24	5508072.060	36.41	1.8304	0.047	2.554	mg/L
|	K	39	3745255.519	22.12	0.5693	0.014	2.480	mg/L
|	Ca	43	19901.780	0.13	1.3633	0.034	2.492	mg/L
|	Fe	54	5438504.202	35.73	10.5685	0.358	3.390	mg/L
|	Fe	57	2306171.426	15.19	10.6421	0.182	1.710	mg/L
⌊>	Sc-1	45	151320.003	151320.00				mg/L
	Cl	35	11080.136	1229.95				mg/L
	Kr	83	81.334	9.33				mg/L
	Br	81	5827.035	-198.12				mg/L
	P	31	104025.142	98292.14				mg/L
	S	34	106520.570	-11398.65				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.917			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.834			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.816			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.109			
⌈	Na	23					

Sample ID: L1103061222S WG359447-04
Report Date/Time: Tuesday, March 29, 2011 11:59:29
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061222S WG359447-04
Report Date/Time: Tuesday, March 29, 2011 11:59:29
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061223SD WG359447-05

Sample Date/Time: Tuesday, March 29, 2011 12:04:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 26
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17164.782	0.00				ug/L
|	Be	9	1372.761	0.01	5.0895	0.374	7.353	ug/L
|	Al	27	25153110.385	170.50	5079.3411	236.372	4.654	ug/L
⌊>	Sc	45	147615.396	147615.40				ug/L
⌈	Ti	49	99795.417	0.32	209.3374	2.252	1.076	ug/L
|	V	51	245822.789	0.79	31.0141	0.598	1.927	ug/L
|	Cr	52	87860.504	0.25	11.7981	0.207	1.757	ug/L
|	Cr	53	9675.648	0.03	12.0517	0.435	3.610	ug/L
|	Mn	55	1987843.259	6.47	194.4998	0.525	0.270	ug/L
|	Co	59	82182.136	0.27	10.3416	0.084	0.810	ug/L
|	Ni	60	19401.998	0.06	11.5245	0.130	1.125	ug/L
|	Cu	65	24815.335	0.08	14.4981	0.228	1.576	ug/L
|	Zn	66	29905.621	0.10	25.6840	0.293	1.139	ug/L
|>	Ge	72	307133.929	307133.93				ug/L
|	As	75	8631.874	0.03	8.2230	0.244	2.961	ug/L
|	Se	77	482.012	0.00	4.8907	0.194	3.965	ug/L
|	Se	82	494.639	0.00	4.9694	0.254	5.113	ug/L
⌊	Rb	85	30125.277	0.10				mg/L
	Y	89	251679.639	35642.69				ug/L
	Rh	103	34.334	9.67				ug/L
⌈	Mo	98	642.091	0.00	0.2107	0.006	2.910	ug/L
|	Ag	107	25179.914	0.09	4.2582	0.054	1.260	ug/L
|	Cd	114	5969.425	0.02	4.8229	0.174	3.602	ug/L
|>	In	115	293442.703	293442.70				ug/L
|	Sn	118	289.738	0.00	-0.0424	0.003	6.889	ug/L
⌊	Sb	123	802.404	0.00	0.2089	0.009	4.086	ug/L
⌈	Ba	135	109785.456	0.30	71.2561	0.308	0.432	ug/L
|	Ce	140	184776.547	0.50				ug/L
⌊>	Tb	159	371581.072	371581.07				ug/L
⌈	Ho	165	3180.826	0.01				ug/L
|	Tl	203	32372.311	0.10	4.7411	0.102	2.143	ug/L
|	Tl	205	80302.602	0.25	4.7985	0.161	3.361	ug/L
|	Pb	206	42195.928	0.13	7.6440	0.124	1.625	ug/L
|	Pb	207	36697.252	0.11	7.0725	0.173	2.450	ug/L
|	Pb	208	169585.496	0.52	7.3307	0.121	1.651	ug/L
|	U	238	182156.901	0.57	5.2971	0.070	1.328	ug/L
⌊>	Bi	209	321426.293	321426.29				ug/L

Sample ID: L1103061223SD WG359447-05
Report Date/Time: Tuesday, March 29, 2011 12:06:15
Page 1

Approved: March 30, 2011

⌈	Na	23	574084.708	2.51	0.0991	0.003	3.422	mg/L
|	Mg	24	5157544.574	34.95	1.7569	0.041	2.356	mg/L
|	K	39	3618949.820	21.90	0.5635	0.028	4.898	mg/L
|	Ca	43	17099.658	0.11	1.1972	0.043	3.562	mg/L
|	Fe	54	5148293.160	34.65	10.2496	0.146	1.423	mg/L
|	Fe	57	2196811.249	14.84	10.3969	0.499	4.795	mg/L
⌊>	Sc-1	45	147615.396	147615.40				mg/L
	Cl	35	11038.757	1188.57				mg/L
	Kr	83	82.334	10.33				mg/L
	Br	81	5561.546	-463.61				mg/L
	P	31	91422.044	85689.04				mg/L
	S	34	105400.663	-12518.56				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.538			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.512			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.939			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.580			
⌈	Na	23					

Sample ID: L1103061223SD WG359447-05
Report Date/Time: Tuesday, March 29, 2011 12:06:15
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061223SD WG359447-05
Report Date/Time: Tuesday, March 29, 2011 12:06:15
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061224

Sample Date/Time: Tuesday, March 29, 2011 12:10:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 27
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18283.467	0.01				ug/L
|	Be	9	53.333	0.00	0.1631	0.034	20.707	ug/L
|	Al	27	22708664.393	153.19	4563.6660	22.848	0.501	ug/L
⌊>	Sc	45	148190.143	148190.14				ug/L
⌈	Ti	49	86269.133	0.29	184.9641	3.275	1.771	ug/L
|	V	51	142207.916	0.46	18.1979	0.197	1.081	ug/L
|	Cr	52	41716.248	0.11	5.0159	0.040	0.807	ug/L
|	Cr	53	4474.783	0.01	5.5403	0.256	4.623	ug/L
|	Mn	55	1626548.191	5.41	162.6583	1.358	0.835	ug/L
|	Co	59	29265.724	0.10	3.7567	0.042	1.112	ug/L
|	Ni	60	7219.344	0.02	4.3375	0.062	1.424	ug/L
|	Cu	65	14558.068	0.05	8.6551	0.044	0.511	ug/L
|	Zn	66	22670.896	0.07	19.1456	0.096	0.501	ug/L
|>	Ge	72	300461.203	300461.20				ug/L
|	As	75	2127.026	0.01	2.1757	0.012	0.557	ug/L
|	Se	77	68.000	0.00	-0.1122	0.131	116.852	ug/L
|	Se	82	-0.951	-0.00	0.0807	0.075	93.428	ug/L
⌊	Rb	85	44274.906	0.15				mg/L
	Y	89	237804.719	21767.77				ug/L
	Rh	103	22.667	-2.00				ug/L
⌈	Mo	98	279.851	0.00	0.0901	0.002	2.073	ug/L
|	Ag	107	219.338	0.00	0.0349	0.002	6.020	ug/L
|	Cd	114	14.020	0.00	0.0069	0.003	38.348	ug/L
|>	In	115	284155.127	284155.13				ug/L
|	Sn	118	294.404	0.00	-0.0391	0.002	6.109	ug/L
⌊	Sb	123	54.063	0.00	0.0240	0.001	4.569	ug/L
⌈	Ba	135	73464.603	0.20	48.5456	0.527	1.086	ug/L
|	Ce	140	176990.183	0.48				ug/L
⌊>	Tb	159	364928.754	364928.75				ug/L
⌈	Ho	165	2610.602	0.01				ug/L
|	Tl	203	310.341	0.00	0.0537	0.001	1.600	ug/L
|	Tl	205	660.088	0.00	0.0408	0.005	11.661	ug/L
|	Pb	206	22327.789	0.07	4.0990	0.027	0.647	ug/L
|	Pb	207	19004.235	0.06	3.7108	0.050	1.344	ug/L
|	Pb	208	89119.077	0.28	3.9033	0.012	0.298	ug/L
|	U	238	10598.387	0.03	0.3116	0.006	1.984	ug/L
⌊>	Bi	209	315510.557	315510.56				ug/L

Sample ID: L1103061224
Report Date/Time: Tuesday, March 29, 2011 12:13:01
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	530584.756	2.20	0.0884	0.003	3.762	mg/L
|	Mg	24	2877376.706	19.42	0.9741	0.021	2.114	mg/L
|	K	39	4099384.786	25.03	0.6449	0.006	0.983	mg/L
|	Ca	43	18111.535	0.12	1.2645	0.027	2.145	mg/L
|	Fe	54	3570023.600	23.86	7.0578	0.142	2.018	mg/L
|	Fe	57	1517432.088	10.19	7.1372	0.163	2.285	mg/L
⌊>	Sc-1	45	148190.143	148190.14				mg/L
	Cl	35	11686.826	1836.64				mg/L
	Kr	83	71.001	-1.00				mg/L
	Br	81	5500.180	-524.97				mg/L
	P	31	61256.398	55523.39				mg/L
	S	34	99039.538	-18879.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.419			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.426			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.185			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.711			
⌈	Na	23					

Sample ID: L1103061224
Report Date/Time: Tuesday, March 29, 2011 12:13:01
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061224
Report Date/Time: Tuesday, March 29, 2011 12:13:01
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061225

Sample Date/Time: Tuesday, March 29, 2011 12:17:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 28
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16764.066	-0.00				ug/L
|	Be	9	61.334	0.00	0.1878	0.042	22.204	ug/L
|	Al	27	22836062.229	150.43	4481.5119	382.816	8.542	ug/L
⌊>	Sc	45	151963.208	151963.21				ug/L
⌈	Ti	49	43314.804	0.14	91.9269	4.703	5.116	ug/L
|	V	51	158324.919	0.51	20.1161	1.011	5.024	ug/L
|	Cr	52	62800.609	0.17	8.1624	0.495	6.060	ug/L
|	Cr	53	6536.129	0.02	8.1511	0.545	6.683	ug/L
|	Mn	55	1923452.139	6.34	190.6422	11.486	6.025	ug/L
|	Co	59	38923.558	0.13	4.9554	0.310	6.262	ug/L
|	Ni	60	10184.960	0.03	6.0941	0.259	4.255	ug/L
|	Cu	65	15944.544	0.05	9.4030	0.356	3.783	ug/L
|	Zn	66	20429.094	0.07	16.7378	1.009	6.029	ug/L
| >	Ge	72	303115.593	303115.59				ug/L
|	As	75	4965.963	0.02	4.8499	0.298	6.154	ug/L
|	Se	77	67.334	0.00	-0.1295	0.185	142.968	ug/L
|	Se	82	0.006	-0.00	0.0901	0.155	172.021	ug/L
⌊	Rb	85	33715.479	0.11				mg/L
	Y	89	249017.637	32980.69				ug/L
	Rh	103	29.000	4.33				ug/L
⌈	Mo	98	279.372	0.00	0.0876	0.001	1.347	ug/L
|	Ag	107	265.340	0.00	0.0418	0.002	4.371	ug/L
|	Cd	114	13.592	0.00	0.0063	0.008	131.510	ug/L
| >	In	115	290994.237	290994.24				ug/L
|	Sn	118	120.267	-0.00	-0.0810	0.002	1.855	ug/L
⌊	Sb	123	51.073	0.00	0.0230	0.002	6.735	ug/L
⌈	Ba	135	74220.381	0.20	47.8357	3.012	6.296	ug/L
|	Ce	140	171993.526	0.46				ug/L
⌊>	Tb	159	374243.938	374243.94				ug/L
⌈	Ho	165	3187.494	0.01				ug/L
|	Tl	203	253.339	0.00	0.0442	0.001	2.121	ug/L
|	Tl	205	673.423	0.00	0.0404	0.001	3.507	ug/L
|	Pb	206	11779.400	0.04	2.0786	0.124	5.957	ug/L
|	Pb	207	9893.334	0.03	1.8563	0.107	5.788	ug/L
|	Pb	208	46449.694	0.14	1.9545	0.109	5.576	ug/L
|	U	238	12277.341	0.04	0.3510	0.022	6.381	ug/L
⌊>	Bi	209	324751.459	324751.46				ug/L

Sample ID: L1103061225
Report Date/Time: Tuesday, March 29, 2011 12:19:48
Page 1

Approved: March 30, 2011

⌈	Na	23	374986.583	1.09	0.0500	0.008	15.910	mg/L
|	Mg	24	3986683.261	26.27	1.3195	0.120	9.067	mg/L
|	K	39	4595409.735	27.63	0.7126	0.041	5.776	mg/L
|	Ca	43	15019.473	0.10	1.0171	0.080	7.832	mg/L
|	Fe	54	4141703.109	27.07	8.0058	0.735	9.179	mg/L
|	Fe	57	1831697.597	12.02	8.4191	0.877	10.418	mg/L
⌊>	Sc-1	45	151963.208	151963.21				mg/L
	Cl	35	12344.282	2494.10				mg/L
	Kr	83	76.001	4.00				mg/L
	Br	81	6023.150	-2.00				mg/L
	P	31	77457.407	71724.40				mg/L
	S	34	98661.691	-19257.53				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.262			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		96.698			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.640			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.631			
⌈	Na	23					

Sample ID: L1103061225
Report Date/Time: Tuesday, March 29, 2011 12:19:48
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061225
Report Date/Time: Tuesday, March 29, 2011 12:19:48

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061226

Sample Date/Time: Tuesday, March 29, 2011 12:24:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 29
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17315.038	0.00				ug/L
|	Be	9	56.000	0.00	0.1757	0.060	34.353	ug/L
|	Al	27	23329728.847	158.58	4724.1728	219.578	4.648	ug/L
⌊>	Sc	45	147381.662	147381.66				ug/L
⌈	Ti	49	77352.449	0.25	160.2759	2.039	1.272	ug/L
|	V	51	173637.342	0.55	21.5372	0.311	1.446	ug/L
|	Cr	52	59488.404	0.16	7.4352	0.084	1.130	ug/L
|	Cr	53	6369.343	0.02	7.7284	0.642	8.303	ug/L
|	Mn	55	2020565.713	6.50	195.3198	3.509	1.797	ug/L
|	Co	59	44305.750	0.14	5.5026	0.069	1.252	ug/L
|	Ni	60	9993.760	0.03	5.8284	0.107	1.841	ug/L
|	Cu	65	17518.178	0.06	10.0823	0.110	1.087	ug/L
|	Zn	66	29381.417	0.09	24.8324	0.520	2.094	ug/L
|>	Ge	72	310826.986	310826.99				ug/L
|	As	75	3467.320	0.01	3.3474	0.039	1.160	ug/L
|	Se	77	70.667	0.00	-0.1088	0.043	39.232	ug/L
|	Se	82	4.942	0.00	0.1368	0.214	156.599	ug/L
⌊	Rb	85	38184.847	0.12				mg/L
	Y	89	253115.634	37078.69				ug/L
	Rh	103	30.334	5.67				ug/L
⌈	Mo	98	365.407	0.00	0.1165	0.002	1.394	ug/L
|	Ag	107	269.673	0.00	0.0424	0.005	10.989	ug/L
|	Cd	114	60.427	0.00	0.0441	0.005	11.309	ug/L
|>	In	115	292624.740	292624.74				ug/L
|	Sn	118	177.468	0.00	-0.0680	0.003	3.834	ug/L
⌊	Sb	123	42.404	0.00	0.0208	0.001	6.294	ug/L
⌈	Ba	135	87219.832	0.24	56.7125	0.846	1.491	ug/L
|	Ce	140	178946.266	0.48				ug/L
⌊>	Tb	159	370805.967	370805.97				ug/L
⌈	Ho	165	2944.061	0.01				ug/L
|	Tl	203	272.340	0.00	0.0467	0.003	5.758	ug/L
|	Tl	205	726.766	0.00	0.0435	0.002	5.521	ug/L
|	Pb	206	35472.557	0.11	6.3294	0.194	3.063	ug/L
|	Pb	207	30290.120	0.09	5.7496	0.075	1.310	ug/L
|	Pb	208	141092.539	0.43	6.0071	0.093	1.552	ug/L
|	U	238	10943.763	0.03	0.3115	0.005	1.519	ug/L
⌊>	Bi	209	325839.515	325839.51				ug/L

Sample ID: L1103061226
Report Date/Time: Tuesday, March 29, 2011 12:26:35
Page 1

Approved: March 30, 2011

⌈	Na	23	409594.517	1.40	0.0608	0.003	5.499	mg/L
|	Mg	24	3590848.303	24.38	1.2243	0.030	2.412	mg/L
|	K	39	5007068.236	31.44	0.8118	0.063	7.723	mg/L
|	Ca	43	19090.146	0.13	1.3430	0.027	1.984	mg/L
|	Fe	54	4154756.263	28.02	8.2878	0.385	4.650	mg/L
|	Fe	57	1819414.508	12.32	8.6295	0.418	4.842	mg/L
⌊>	Sc-1	45	147381.662	147381.66				mg/L
	Cl	35	17842.575	7992.39				mg/L
	Kr	83	83.335	11.33				mg/L
	Br	81	5837.037	-188.12				mg/L
	P	31	81282.550	75549.55				mg/L
	S	34	114255.206	-3664.01				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.711			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		97.240			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.734			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.975			
⌈	Na	23					

Sample ID: L1103061226
Report Date/Time: Tuesday, March 29, 2011 12:26:35
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 12:31:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16012.812	0.00				ug/L
|	Be	9	13650.645	0.10	54.2165	1.904	3.512	ug/L
|	Al	27	242916.219	1.71	50.5564	2.064	4.082	ug/L
⌊>	Sc	45	138587.289	138587.29				ug/L
⌈	Ti	49	49500.500	0.16	105.7111	1.304	1.234	ug/L
|	V	51	400609.061	1.32	51.7299	0.586	1.133	ug/L
|	Cr	52	350623.979	1.13	52.2050	0.294	0.564	ug/L
|	Cr	53	40097.574	0.13	51.8471	0.800	1.543	ug/L
|	Mn	55	531643.774	1.76	52.8876	0.361	0.683	ug/L
|	Co	59	415256.496	1.38	53.2997	0.682	1.280	ug/L
|	Ni	60	86606.036	0.29	52.6837	0.979	1.858	ug/L
|	Cu	65	89784.206	0.30	53.7105	0.734	1.367	ug/L
|	Zn	66	55810.212	0.18	51.8803	0.700	1.350	ug/L
| >	Ge	72	301382.125	301382.12				ug/L
|	As	75	54812.564	0.18	52.4342	0.833	1.588	ug/L
|	Se	77	4293.588	0.01	52.1108	0.957	1.837	ug/L
|	Se	82	5256.237	0.02	52.9155	1.726	3.262	ug/L
⌊	Rb	85	2057.899	0.01				mg/L
	Y	89	205177.234	-10859.71				ug/L
	Rh	103	46.667	22.00				ug/L
⌈	Mo	98	293549.408	1.02	102.3274	1.758	1.718	ug/L
|	Ag	107	298036.561	1.04	51.4608	1.008	1.960	ug/L
|	Cd	114	63352.740	0.22	52.2640	1.215	2.324	ug/L
| >	In	115	287636.931	287636.93				ug/L
|	Sn	118	223817.923	0.78	52.1976	0.314	0.601	ug/L
⌊	Sb	123	208170.735	0.72	52.6196	0.569	1.081	ug/L
⌈	Ba	135	79389.702	0.22	52.1403	0.194	0.373	ug/L
|	Ce	140	66.674	0.00				ug/L
⌊>	Tb	159	367169.084	367169.08				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	340806.784	1.11	52.3432	0.562	1.073	ug/L
|	Tl	205	841910.542	2.75	52.8236	0.572	1.082	ug/L
|	Pb	206	278597.632	0.91	53.2856	0.702	1.318	ug/L
|	Pb	207	259884.619	0.85	52.8730	1.028	1.944	ug/L
|	Pb	208	1157714.869	3.78	52.8409	0.923	1.746	ug/L
|	U	238	1955143.362	6.39	59.7440	0.458	0.767	ug/L
⌊>	Bi	209	306000.453	306000.45				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 12:33:22
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	20249082.976	144.78	5.0263	0.187	3.727	mg/L
|	Mg	24	13967206.010	100.81	5.0761	0.123	2.423	mg/L
|	K	39	27737385.306	197.57	5.1317	0.135	2.632	mg/L
|	Ca	43	68947.119	0.50	5.2463	0.195	3.725	mg/L
|	Fe	54	2477695.656	17.66	5.2213	0.212	4.068	mg/L
|	Fe	57	1059510.242	7.60	5.3194	0.115	2.155	mg/L
⌊>	Sc-1	45	138587.289	138587.29				mg/L
	Cl	35	10871.240	1021.06				mg/L
	Kr	83	65.001	-7.00				mg/L
	Br	81	5554.879	-470.28				mg/L
	P	31	5188.013	-544.99				mg/L
	S	34	125174.175	7254.96				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	103.460				
|	Cr	52	104.410				
|	Cr	53					
|	Mn	55	105.775				
|	Co	59	106.599				
|	Ni	60	105.367				
|	Cu	65	107.421				
|	Zn	66	103.761				
|>	Ge	72		95.712			
|	As	75	104.868				
|	Se	77					
|	Se	82	105.831				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	102.922				
|	Cd	114	104.528				
|>	In	115		95.583			
|	Sn	118					
⌊	Sb	123	105.239				
⌈	Ba	135	104.281				
|	Ce	140					
⌊>	Tb	159		96.776			
⌈	Ho	165					
|	Tl	203	104.686				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	105.682				
|	U	238	119.488				
⌊>	Bi	209		96.705			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 12:33:22
Page 2

Approved: March 30, 2011

Erin D. Long

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 12:33:22
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 12:37:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16380.083	0.00				ug/L
|	Be	9	17.333	0.00	0.0336	0.029	86.735	ug/L
|	Al	27	5084.632	-0.01	-0.6013	0.098	16.249	ug/L
⌊>	Sc	45	139330.845	139330.85				ug/L
⌈	Ti	49	43.338	-0.00	-0.1064	0.073	68.444	ug/L
|	V	51	2324.212	-0.00	-0.0566	0.002	4.161	ug/L
|	Cr	52	7752.415	-0.01	-0.2489	0.004	1.556	ug/L
|	Cr	53	210.023	-0.00	-0.0364	0.036	98.202	ug/L
|	Mn	55	558.355	0.00	-0.1161	0.002	1.626	ug/L
|	Co	59	106.002	-0.00	0.0009	0.002	234.404	ug/L
|	Ni	60	102.335	-0.00	-0.0146	0.002	10.284	ug/L
|	Cu	65	152.336	-0.00	-0.0093	0.004	44.476	ug/L
|	Zn	66	488.684	-0.00	-2.9037	0.032	1.098	ug/L
|>	Ge	72	315894.787	315894.79				ug/L
|	As	75	-172.494	-0.00	-0.0167	0.017	98.761	ug/L
|	Se	77	67.334	-0.00	-0.1615	0.059	36.348	ug/L
|	Se	82	4.449	0.00	0.1323	0.042	31.523	ug/L
⌊	Rb	85	36.000	-0.00				mg/L
	Y	89	216070.773	33.82				ug/L
	Rh	103	20.334	-4.33				ug/L
⌈	Mo	98	133.874	0.00	0.0359	0.004	10.190	ug/L
|	Ag	107	54.001	0.00	0.0055	0.001	19.204	ug/L
|	Cd	114	-10.810	-0.00	-0.0133	0.005	36.177	ug/L
|>	In	115	301013.903	301013.90				ug/L
|	Sn	118	226.669	0.00	-0.0582	0.004	6.754	ug/L
⌊	Sb	123	59.987	0.00	0.0247	0.001	2.203	ug/L
⌈	Ba	135	50.667	-0.00	0.0073	0.006	85.034	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	386081.400	386081.40				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	52.667	0.00	0.0151	0.001	9.522	ug/L
|	Tl	205	103.344	0.00	0.0068	0.003	48.116	ug/L
|	Pb	206	273.006	-0.00	0.0036	0.001	27.539	ug/L
|	Pb	207	255.339	-0.00	0.0076	0.004	55.644	ug/L
|	Pb	208	1114.035	-0.00	0.0034	0.001	29.212	ug/L
|	U	238	108.668	0.00	0.0006	0.001	95.171	ug/L
⌊>	Bi	209	323165.670	323165.67				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 12:40:06
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	185477.225	-0.05	0.0105	0.002	14.754	mg/L
|	Mg	24	1030.157	0.01	-0.0043	0.000	1.117	mg/L
|	K	39	353507.852	-0.10	-0.0085	0.001	15.855	mg/L
|	Ca	43	253.362	-0.00	-0.0123	0.007	54.024	mg/L
|	Fe	54	32641.712	0.00	-0.0028	0.002	84.145	mg/L
|	Fe	57	6406.026	-0.00	-0.0060	0.002	25.920	mg/L
⌊>	Sc-1	45	139330.845	139330.85				mg/L
	Cl	35	9855.521	5.34				mg/L
	Kr	83	63.334	-8.67				mg/L
	Br	81	5770.998	-254.16				mg/L
	P	31	5285.399	-447.61				mg/L
	S	34	109606.977	-8312.24				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		100.321			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.028			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.760			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.130			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 12:40:06
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 12:40:06

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: PBS 63 WG359922-02

Sample Date/Time: Tuesday, March 29, 2011 12:45:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 71
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16964.519	0.01				ug/L
|	Be	9	14.667	-0.00	0.0245	0.016	64.324	ug/L
|	Al	27	33589.793	0.20	5.6783	0.606	10.675	ug/L
⌊>	Sc	45	136036.504	136036.50				ug/L
⌈	Ti	49	120.013	0.00	0.0508	0.075	146.690	ug/L
|	V	51	2517.154	-0.00	-0.0314	0.011	35.039	ug/L
|	Cr	52	9095.226	-0.00	-0.0477	0.011	23.505	ug/L
|	Cr	53	340.040	-0.00	0.1264	0.050	39.393	ug/L
|	Mn	55	2080.571	0.00	0.0296	0.006	19.384	ug/L
|	Co	59	156.669	0.00	0.0072	0.001	9.344	ug/L
|	Ni	60	173.337	0.00	0.0271	0.007	26.520	ug/L
|	Cu	65	633.026	0.00	0.2670	0.007	2.514	ug/L
|	Zn	66	3579.677	0.01	0.0290	0.142	487.486	ug/L
| >	Ge	72	314606.352	314606.35				ug/L
|	As	75	-95.891	0.00	0.0525	0.023	44.314	ug/L
|	Se	77	50.000	-0.00	-0.3638	0.087	23.953	ug/L
|	Se	82	12.073	0.00	0.2064	0.121	58.434	ug/L
⌊	Rb	85	113.668	0.00				mg/L
	Y	89	219906.945	3870.00				ug/L
	Rh	103	17.000	-7.67				ug/L
⌈	Mo	98	83.325	0.00	0.0190	0.001	5.854	ug/L
|	Ag	107	57.667	0.00	0.0060	0.002	28.403	ug/L
|	Cd	114	11.004	0.00	0.0038	0.003	67.565	ug/L
| >	In	115	301603.937	301603.94				ug/L
|	Sn	118	355.340	0.00	-0.0296	0.004	13.366	ug/L
⌊	Sb	123	78.281	0.00	0.0291	0.001	3.090	ug/L
⌈	Ba	135	489.684	0.00	0.2811	0.004	1.315	ug/L
|	Ce	140	233.359	0.00				ug/L
⌊>	Tb	159	386700.148	386700.15				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	34.667	0.00	0.0125	0.002	13.779	ug/L
|	Tl	205	56.673	0.00	0.0040	0.001	23.847	ug/L
|	Pb	206	991.392	0.00	0.1340	0.007	5.040	ug/L
|	Pb	207	845.711	0.00	0.1217	0.013	10.723	ug/L
|	Pb	208	3980.688	0.01	0.1276	0.005	4.020	ug/L
|	U	238	79.001	0.00	-0.0003	0.000	164.704	ug/L
⌊>	Bi	209	322889.786	322889.79				ug/L

Sample ID: PBS 63 WG359922-02
Report Date/Time: Tuesday, March 29, 2011 12:47:22
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	62816.286	-0.92	-0.0196	0.001	2.849	mg/L
|	Mg	24	29646.853	0.22	0.0063	0.001	9.438	mg/L
|	K	39	374373.130	0.12	-0.0028	0.003	111.557	mg/L
|	Ca	43	750.103	0.00	0.0269	0.001	4.702	mg/L
|	Fe	54	65901.353	0.25	0.0714	0.007	9.522	mg/L
|	Fe	57	8881.497	0.01	0.0076	0.001	17.327	mg/L
⌊>	Sc-1	45	136036.504	136036.50				mg/L
	Cl	35	12397.681	2547.50				mg/L
	Kr	83	68.334	-3.67				mg/L
	Br	81	6221.272	196.12				mg/L
	P	31	9088.823	3355.82				mg/L
	S	34	108701.020	-9218.20				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.912			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		100.224			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		101.924			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.043			
⌈	Na	23					

Sample ID: PBS 63 WG359922-02
Report Date/Time: Tuesday, March 29, 2011 12:47:22
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBS 63 WG359922-02
Report Date/Time: Tuesday, March 29, 2011 12:47:22
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: LCSS 63 WG359922-03

Sample Date/Time: Tuesday, March 29, 2011 12:51:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 72
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17064.653	0.01				ug/L
|	Be	9	6309.323	0.04	24.4681	0.943	3.853	ug/L
|	Al	27	125837.595	0.84	24.7716	1.705	6.882	ug/L
⌊>	Sc	45	141849.432	141849.43				ug/L
⌈	Ti	49	63.340	0.00	-0.0637	0.033	51.081	ug/L
|	V	51	194064.600	0.61	24.1277	0.220	0.911	ug/L
|	Cr	52	176538.119	0.54	24.7946	0.237	0.957	ug/L
|	Cr	53	20225.790	0.06	25.2200	0.477	1.893	ug/L
|	Mn	55	263924.441	0.85	25.3830	0.220	0.866	ug/L
|	Co	59	203864.237	0.66	25.3785	0.281	1.109	ug/L
|	Ni	60	43622.714	0.14	25.7059	0.273	1.060	ug/L
|	Cu	65	44788.873	0.14	25.9423	0.285	1.098	ug/L
|	Zn	66	27899.812	0.09	23.4269	0.083	0.352	ug/L
|>	Ge	72	310669.124	310669.12				ug/L
|	As	75	25172.422	0.08	23.4381	0.279	1.190	ug/L
|	Se	77	1931.520	0.01	22.2039	0.549	2.474	ug/L
|	Se	82	2261.641	0.01	22.1419	0.569	2.571	ug/L
⌊	Rb	85	84.001	0.00				mg/L
	Y	89	210605.752	-5431.20				ug/L
	Rh	103	23.334	-1.33				ug/L
⌈	Mo	98	63.996	0.00	0.0129	0.002	17.646	ug/L
|	Ag	107	129159.741	0.44	21.6058	0.501	2.321	ug/L
|	Cd	114	29409.683	0.10	23.4983	0.156	0.665	ug/L
|>	In	115	296920.558	296920.56				ug/L
|	Sn	118	357.606	0.00	-0.0278	0.003	12.369	ug/L
⌊	Sb	123	98149.178	0.33	24.0424	0.367	1.529	ug/L
⌈	Ba	135	38241.700	0.10	24.3402	0.160	0.658	ug/L
|	Ce	140	120.013	0.00				ug/L
⌊>	Tb	159	378658.704	378658.70				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	163453.364	0.51	24.1563	0.066	0.272	ug/L
|	Tl	205	402363.062	1.26	24.2894	0.512	2.107	ug/L
|	Pb	206	139082.297	0.44	25.5646	0.285	1.116	ug/L
|	Pb	207	123279.482	0.39	24.1049	0.285	1.184	ug/L
|	Pb	208	565912.893	1.78	24.8234	0.128	0.515	ug/L
|	U	238	871742.592	2.74	25.6239	0.319	1.243	ug/L
⌊>	Bi	209	318087.459	318087.46				ug/L

Sample ID: LCSS 63 WG359922-03
Report Date/Time: Tuesday, March 29, 2011 12:54:09
Page 1

Approved: March 30, 2011

⌈	Na	23	34195.124	-1.14	-0.0273	0.000	1.032	mg/L
|	Mg	24	9699.005	0.07	-0.0013	0.000	5.651	mg/L
|	K	39	367659.972	-0.04	-0.0070	0.002	35.032	mg/L
|	Ca	43	503.397	0.00	0.0062	0.010	165.863	mg/L
|	Fe	54	57444.185	0.17	0.0477	0.003	5.676	mg/L
|	Fe	57	7880.561	0.00	0.0007	0.002	227.824	mg/L
⌊>	Sc-1	45	141849.432	141849.43				mg/L
	Cl	35	14745.531	4895.35				mg/L
	Kr	83	75.334	3.33				mg/L
	Br	81	6766.291	741.14				mg/L
	P	31	8929.343	3196.34				mg/L
	S	34	114660.671	-3258.55				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		98.661			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.667			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.804			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.525			
⌈	Na	23					

Sample ID: LCSS 63 WG359922-03
Report Date/Time: Tuesday, March 29, 2011 12:54:09
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSS 63 WG359922-03
Report Date/Time: Tuesday, March 29, 2011 12:54:09
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061227

Sample Date/Time: Tuesday, March 29, 2011 12:58:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 73
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16713.977	0.00				ug/L
|	Be	9	48.667	0.00	0.1490	0.007	4.891	ug/L
|	Al	27	12912343.045	88.44	2634.5518	128.031	4.860	ug/L
⌊>	Sc	45	145974.980	145974.98				ug/L
⌈	Ti	49	12105.227	0.04	25.9891	2.259	8.693	ug/L
|	V	51	97443.543	0.32	12.4590	0.874	7.019	ug/L
|	Cr	52	48128.533	0.13	6.0552	0.417	6.889	ug/L
|	Cr	53	5261.915	0.02	6.6204	0.590	8.917	ug/L
|	Mn	55	2490567.527	8.35	251.0470	14.562	5.801	ug/L
|	Co	59	48472.576	0.16	6.2778	0.386	6.145	ug/L
|	Ni	60	9007.150	0.03	5.4719	0.295	5.390	ug/L
|	Cu	65	17303.813	0.06	10.3847	0.489	4.712	ug/L
|	Zn	66	25409.180	0.08	22.0554	0.975	4.422	ug/L
|>	Ge	72	298264.294	298264.29				ug/L
|	As	75	4023.551	0.01	4.0198	0.144	3.573	ug/L
|	Se	77	83.334	0.00	0.0853	0.158	185.593	ug/L
|	Se	82	9.989	0.00	0.1914	0.065	33.885	ug/L
⌊	Rb	85	35060.148	0.12				mg/L
	Y	89	259667.561	43630.61				ug/L
	Rh	103	25.000	0.33				ug/L
⌈	Mo	98	277.440	0.00	0.0891	0.012	13.810	ug/L
|	Ag	107	262.006	0.00	0.0423	0.003	6.494	ug/L
|	Cd	114	63.763	0.00	0.0484	0.010	20.358	ug/L
|>	In	115	284443.524	284443.52				ug/L
|	Sn	118	244.936	0.00	-0.0509	0.001	2.081	ug/L
⌊	Sb	123	75.024	0.00	0.0294	0.001	4.952	ug/L
⌈	Ba	135	103720.322	0.28	68.2217	2.580	3.781	ug/L
|	Ce	140	225342.056	0.61				ug/L
⌊>	Tb	159	366555.406	366555.41				ug/L
⌈	Ho	165	3801.104	0.01				ug/L
|	Tl	203	295.007	0.00	0.0522	0.001	2.681	ug/L
|	Tl	205	670.090	0.00	0.0421	0.004	10.657	ug/L
|	Pb	206	47170.231	0.15	8.8663	0.271	3.054	ug/L
|	Pb	207	40353.123	0.13	8.0675	0.342	4.245	ug/L
|	Pb	208	187226.703	0.60	8.3966	0.326	3.888	ug/L
|	U	238	11610.523	0.04	0.3477	0.008	2.315	ug/L
⌊>	Bi	209	309958.310	309958.31				ug/L

Sample ID: L1103061227
Report Date/Time: Tuesday, March 29, 2011 13:00:55
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	325590.342	0.85	0.0416	0.005	11.811	mg/L
|	Mg	24	3909365.554	26.77	1.3447	0.064	4.781	mg/L
|	K	39	5294616.809	33.63	0.8687	0.053	6.118	mg/L
|	Ca	43	22781.541	0.15	1.6245	0.074	4.582	mg/L
|	Fe	54	3005042.382	20.37	6.0232	0.350	5.809	mg/L
|	Fe	57	1307362.308	8.91	6.2396	0.329	5.274	mg/L
⌊>	Sc-1	45	145974.980	145974.98				mg/L
	Cl	35	11744.894	1894.71				mg/L
	Kr	83	78.001	6.00				mg/L
	Br	81	5902.409	-122.75				mg/L
	P	31	98433.765	92700.76				mg/L
	S	34	104227.937	-13691.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.722			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.521			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.614			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.956			
⌈	Na	23					

Sample ID: L1103061227
Report Date/Time: Tuesday, March 29, 2011 13:00:55
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061228

Sample Date/Time: Tuesday, March 29, 2011 13:05:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 74
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18049.643	0.00				ug/L
|	Be	9	82.667	0.00	0.2520	0.061	24.221	ug/L
|	Al	27	23632298.709	148.38	4420.3435	357.342	8.084	ug/L
|>	Sc	45	159021.555	159021.56				ug/L
⌈	Ti	49	11631.288	0.04	24.5038	2.069	8.445	ug/L
|	V	51	126816.352	0.41	16.0160	1.584	9.890	ug/L
|	Cr	52	70322.776	0.20	9.2873	0.962	10.358	ug/L
|	Cr	53	7820.524	0.02	9.7960	0.947	9.669	ug/L
|	Mn	55	3248251.393	10.70	321.5723	31.006	9.642	ug/L
|	Co	59	56888.721	0.19	7.2366	0.846	11.688	ug/L
|	Ni	60	11793.782	0.04	7.0565	0.717	10.159	ug/L
|	Cu	65	21605.678	0.07	12.7549	1.251	9.812	ug/L
|	Zn	66	25237.538	0.08	21.4295	2.043	9.535	ug/L
|>	Ge	72	303649.900	303649.90				ug/L
|	As	75	5138.035	0.02	5.0053	0.426	8.508	ug/L
|	Se	77	74.000	0.00	-0.0481	0.027	56.444	ug/L
|	Se	82	-3.458	-0.00	0.0553	0.110	198.237	ug/L
⌊	Rb	85	44769.653	0.15				mg/L
	Y	89	272932.628	56895.68				ug/L
	Rh	103	23.000	-1.67				ug/L
⌈	Mo	98	181.140	0.00	0.0543	0.003	5.592	ug/L
|	Ag	107	310.008	0.00	0.0500	0.011	21.348	ug/L
|	Cd	114	65.911	0.00	0.0494	0.008	15.974	ug/L
|>	In	115	288444.646	288444.65				ug/L
|	Sn	118	135.334	-0.00	-0.0772	0.003	3.686	ug/L
⌊	Sb	123	42.735	0.00	0.0210	0.001	2.425	ug/L
⌈	Ba	135	119400.613	0.32	77.2672	7.742	10.020	ug/L
|	Ce	140	265410.827	0.71				ug/L
|>	Tb	159	372558.518	372558.52				ug/L
⌈	Ho	165	4694.909	0.01				ug/L
|	Tl	203	343.343	0.00	0.0578	0.004	6.155	ug/L
|	Tl	205	876.793	0.00	0.0531	0.004	6.951	ug/L
|	Pb	206	19523.030	0.06	3.5194	0.335	9.532	ug/L
|	Pb	207	16693.164	0.05	3.2009	0.266	8.296	ug/L
|	Pb	208	77172.147	0.24	3.3183	0.294	8.865	ug/L
|	U	238	14875.979	0.05	0.4310	0.048	11.199	ug/L
|>	Bi	209	320601.120	320601.12				ug/L

Sample ID: L1103061228
Report Date/Time: Tuesday, March 29, 2011 13:07:43
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	368016.796	0.93	0.0445	0.006	13.000	mg/L
|	Mg	24	5343815.963	33.56	1.6868	0.138	8.198	mg/L
|	K	39	6581802.894	38.71	1.0008	0.068	6.789	mg/L
|	Ca	43	24699.874	0.15	1.6130	0.153	9.469	mg/L
|	Fe	54	4554873.920	28.38	8.3961	0.589	7.019	mg/L
|	Fe	57	1937096.370	12.12	8.4869	0.625	7.365	mg/L
⌊>	Sc-1	45	159021.555	159021.56				mg/L
	Cl	35	11470.579	1620.40				mg/L
	Kr	83	91.001	19.00				mg/L
	Br	81	6398.050	372.90				mg/L
	P	31	124972.947	119239.94				mg/L
	S	34	98279.544	-19639.68				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.432			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.851			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.196			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.319			
⌈	Na	23					

Sample ID: L1103061228
Report Date/Time: Tuesday, March 29, 2011 13:07:43
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061218PS WG360149-01

Sample Date/Time: Tuesday, March 29, 2011 13:12:49
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 93
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19318.653	0.02				ug/L
|	Be	9	14428.402	0.10	53.4456	0.780	1.459	ug/L
|	Al	27	22063712.844	148.54	4425.1241	159.646	3.608	ug/L
⌊>	Sc	45	148545.291	148545.29				ug/L
⌈	Ti	49	63668.532	0.21	133.4786	5.034	3.771	ug/L
|	V	51	509058.898	1.65	64.5827	0.643	0.996	ug/L
|	Cr	52	369153.153	1.17	53.9789	0.969	1.794	ug/L
|	Cr	53	42604.895	0.14	54.0621	1.852	3.426	ug/L
|	Mn	55	2446258.844	7.96	239.3828	5.275	2.204	ug/L
|	Co	59	425920.690	1.39	53.6426	1.363	2.541	ug/L
|	Ni	60	91587.837	0.30	54.6702	1.025	1.875	ug/L
|	Cu	65	102193.883	0.33	59.9969	0.549	0.914	ug/L
|	Zn	66	76960.147	0.25	71.3856	1.283	1.797	ug/L
|>	Ge	72	307162.533	307162.53				ug/L
|	As	75	56942.392	0.19	53.4442	0.326	0.611	ug/L
|	Se	77	4508.350	0.01	53.7155	0.897	1.670	ug/L
|	Se	82	5501.296	0.02	54.3417	0.851	1.566	ug/L
⌊	Rb	85	39838.598	0.13				mg/L
	Y	89	248904.293	32867.34				ug/L
	Rh	103	42.667	18.00				ug/L
⌈	Mo	98	295.596	0.00	0.0939	0.005	4.889	ug/L
|	Ag	107	293491.490	1.02	50.4723	0.999	1.980	ug/L
|	Cd	114	62433.668	0.22	51.2962	0.434	0.845	ug/L
|>	In	115	288775.052	288775.05				ug/L
|	Sn	118	181.202	0.00	-0.0666	0.004	6.427	ug/L
⌊	Sb	123	199886.595	0.69	50.3232	0.229	0.455	ug/L
⌈	Ba	135	158203.529	0.42	102.0781	0.507	0.497	ug/L
|	Ce	140	193350.495	0.52				ug/L
⌊>	Tb	159	373816.811	373816.81				ug/L
⌈	Ho	165	2777.332	0.01				ug/L
|	Tl	203	341864.350	1.04	49.0004	0.218	0.446	ug/L
|	Tl	205	848958.400	2.59	49.7096	0.244	0.490	ug/L
|	Pb	206	300866.984	0.92	53.6949	0.726	1.351	ug/L
|	Pb	207	264613.783	0.81	50.2323	0.522	1.039	ug/L
|	Pb	208	1220851.072	3.72	51.9953	0.278	0.534	ug/L
|	U	238	1827258.964	5.57	52.1022	0.421	0.807	ug/L
⌊>	Bi	209	327914.981	327914.98				ug/L

Sample ID: L1103061218PS WG360149-01
Report Date/Time: Tuesday, March 29, 2011 13:15:03
Page 1

Approved: March 30, 2011

Na	23	1044395.660	5.65	0.2079	0.003	1.466	mg/L
Mg	24	2952052.578	19.87	0.9970	0.017	1.704	mg/L
K	39	3612899.248	21.69	0.5581	0.020	3.626	mg/L
Ca	43	15967.674	0.10	1.1086	0.045	4.063	mg/L
Fe	54	3508038.549	23.39	6.9189	0.261	3.767	mg/L
Fe	57	1582686.654	10.61	7.4290	0.276	3.709	mg/L
> Sc-1	45	148545.291	148545.29				mg/L
Cl	35	13006.454	3156.27				mg/L
Kr	83	74.334	2.33				mg/L
Br	81	5608.241	-416.91				mg/L
P	31	61823.860	56090.86				mg/L
S	34	97302.071	-20617.15				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		97.548			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		95.961			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		98.528			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		103.631			
Na	23					

Sample ID: L1103061218PS WG360149-01
Report Date/Time: Tuesday, March 29, 2011 13:15:03
Page 2

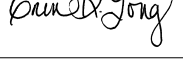
Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: March 30, 2011



Method 6020 - Summary Report

Sample ID: L1103061229

Sample Date/Time: Tuesday, March 29, 2011 13:19:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 75
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16597.106	-0.00				ug/L
|	Be	9	71.334	0.00	0.2257	0.027	11.771	ug/L
|	Al	27	12287048.585	81.44	2425.9503	196.215	8.088	ug/L
⌊>	Sc	45	150727.615	150727.61				ug/L
⌈	Ti	49	7977.326	0.03	16.6764	1.330	7.974	ug/L
|	V	51	85173.636	0.27	10.5996	0.918	8.664	ug/L
|	Cr	52	43433.923	0.11	5.1834	0.486	9.379	ug/L
|	Cr	53	4548.158	0.01	5.5499	0.327	5.896	ug/L
|	Mn	55	2323621.738	7.62	229.0724	16.951	7.400	ug/L
|	Co	59	41687.335	0.14	5.2785	0.490	9.292	ug/L
|	Ni	60	7869.855	0.03	4.6647	0.363	7.789	ug/L
|	Cu	65	16088.840	0.05	9.4353	0.886	9.388	ug/L
|	Zn	66	32448.497	0.10	28.3860	2.679	9.439	ug/L
| >	Ge	72	304823.359	304823.36				ug/L
|	As	75	4281.718	0.01	4.1783	0.361	8.640	ug/L
|	Se	77	87.334	0.00	0.1114	0.093	83.452	ug/L
|	Se	82	14.699	0.00	0.2367	0.103	43.319	ug/L
⌊	Rb	85	25558.027	0.08				mg/L
	Y	89	261689.586	45652.64				ug/L
	Rh	103	28.667	4.00				ug/L
⌈	Mo	98	273.997	0.00	0.0868	0.003	3.327	ug/L
|	Ag	107	395.345	0.00	0.0648	0.005	8.429	ug/L
|	Cd	114	111.604	0.00	0.0872	0.010	10.980	ug/L
| >	In	115	287595.886	287595.89				ug/L
|	Sn	118	314.405	0.00	-0.0353	0.003	7.766	ug/L
⌊	Sb	123	525.334	0.00	0.1430	0.006	4.374	ug/L
⌈	Ba	135	94258.678	0.25	60.8766	5.228	8.588	ug/L
|	Ce	140	215110.521	0.58				ug/L
⌊>	Tb	159	373501.491	373501.49				ug/L
⌈	Ho	165	3797.770	0.01				ug/L
|	Tl	203	321.675	0.00	0.0546	0.004	7.219	ug/L
|	Tl	205	716.765	0.00	0.0435	0.008	18.327	ug/L
|	Pb	206	66593.182	0.21	12.1016	0.928	7.668	ug/L
|	Pb	207	57793.115	0.18	11.1716	0.878	7.856	ug/L
|	Pb	208	268627.104	0.83	11.6489	0.924	7.930	ug/L
|	U	238	11725.029	0.04	0.3389	0.032	9.586	ug/L
⌊>	Bi	209	321088.958	321088.96				ug/L

Sample ID: L1103061229
Report Date/Time: Tuesday, March 29, 2011 13:21:50
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	825740.332	4.10	0.1541	0.016	10.367	mg/L
|	Mg	24	3214320.757	21.32	1.0699	0.098	9.175	mg/L
|	K	39	4304152.746	25.91	0.6678	0.056	8.381	mg/L
|	Ca	43	22878.624	0.15	1.5774	0.162	10.248	mg/L
|	Fe	54	2730158.773	17.88	5.2860	0.397	7.514	mg/L
|	Fe	57	1175204.712	7.74	5.4223	0.406	7.482	mg/L
⌊>	Sc-1	45	150727.615	150727.61				mg/L
	Cl	35	11734.217	1884.03				mg/L
	Kr	83	73.001	1.00				mg/L
	Br	81	6035.822	10.67				mg/L
	P	31	103735.572	98002.57				mg/L
	S	34	106569.643	-11349.58				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.805			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.569			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.445			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.474			
⌈	Na	23					

Sample ID: L1103061229
Report Date/Time: Tuesday, March 29, 2011 13:21:50

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061230

Sample Date/Time: Tuesday, March 29, 2011 13:26:25
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 76
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17749.146	0.01				ug/L
|	Be	9	62.000	0.00	0.2025	0.060	29.863	ug/L
|	Al	27	14430915.306	100.70	2999.7439	145.027	4.835	ug/L
⌊>	Sc	45	143219.498	143219.50				ug/L
⌈	Ti	49	12702.720	0.04	26.9561	2.510	9.312	ug/L
|	V	51	94559.834	0.30	11.9362	0.855	7.165	ug/L
|	Cr	52	41106.008	0.10	4.8978	0.401	8.187	ug/L
|	Cr	53	4274.678	0.01	5.2569	0.381	7.253	ug/L
|	Mn	55	1831204.671	6.07	182.4277	12.693	6.958	ug/L
|	Co	59	40417.022	0.13	5.1721	0.428	8.283	ug/L
|	Ni	60	7926.903	0.03	4.7505	0.392	8.251	ug/L
|	Cu	65	14645.915	0.05	8.6736	0.691	7.965	ug/L
|	Zn	66	21412.542	0.07	17.8127	1.511	8.481	ug/L
| >	Ge	72	301533.109	301533.11				ug/L
|	As	75	3684.115	0.01	3.6525	0.166	4.545	ug/L
|	Se	77	74.667	0.00	-0.0330	0.101	305.799	ug/L
|	Se	82	0.371	-0.00	0.0951	0.247	259.946	ug/L
⌊	Rb	85	24664.039	0.08				mg/L
	Y	89	249429.085	33392.14				ug/L
	Rh	103	21.334	-3.33				ug/L
⌈	Mo	98	225.772	0.00	0.0713	0.007	9.811	ug/L
|	Ag	107	267.673	0.00	0.0435	0.002	5.165	ug/L
|	Cd	114	61.372	0.00	0.0466	0.006	13.133	ug/L
| >	In	115	282882.933	282882.93				ug/L
|	Sn	118	180.535	0.00	-0.0659	0.001	1.886	ug/L
⌊	Sb	123	183.281	0.00	0.0573	0.002	3.328	ug/L
⌈	Ba	135	62211.007	0.17	40.8956	2.731	6.679	ug/L
|	Ce	140	178139.019	0.49				ug/L
⌊>	Tb	159	366569.692	366569.69				ug/L
⌈	Ho	165	3280.871	0.01				ug/L
|	Tl	203	242.672	0.00	0.0429	0.004	9.252	ug/L
|	Tl	205	546.736	0.00	0.0333	0.003	7.824	ug/L
|	Pb	206	38027.739	0.12	6.8788	0.442	6.422	ug/L
|	Pb	207	32584.546	0.10	6.2696	0.499	7.956	ug/L
|	Pb	208	151724.388	0.47	6.5485	0.493	7.534	ug/L
|	U	238	9749.537	0.03	0.2809	0.024	8.493	ug/L
⌊>	Bi	209	321657.832	321657.83				ug/L

Sample ID: L1103061230
Report Date/Time: Tuesday, March 29, 2011 13:28:38
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	304330.944	0.74	0.0380	0.003	9.052	mg/L
|	Mg	24	3799399.168	26.53	1.3327	0.083	6.257	mg/L
|	K	39	3183698.967	19.58	0.5033	0.037	7.311	mg/L
|	Ca	43	17133.155	0.12	1.2366	0.119	9.644	mg/L
|	Fe	54	3105542.368	21.44	6.3398	0.482	7.609	mg/L
|	Fe	57	1335653.611	9.28	6.4966	0.442	6.796	mg/L
⌊>	Sc-1	45	143219.498	143219.50				mg/L
	Cl	35	11261.004	1410.82				mg/L
	Kr	83	72.334	0.33				mg/L
	Br	81	5760.993	-264.16				mg/L
	P	31	90138.307	84405.30				mg/L
	S	34	101229.283	-16689.94				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.760			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.003			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.618			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.653			
⌈	Na	23					

Sample ID: L1103061230
Report Date/Time: Tuesday, March 29, 2011 13:28:38

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061231

Sample Date/Time: Tuesday, March 29, 2011 13:33:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 77
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17715.738	0.01				ug/L
|	Be	9	56.000	0.00	0.1883	0.050	26.777	ug/L
|	Al	27	12204936.698	87.88	2617.9536	155.130	5.926	ug/L
⌊>	Sc	45	138874.793	138874.79				ug/L
⌈	Ti	49	21471.861	0.07	46.0724	1.904	4.133	ug/L
|	V	51	69200.415	0.22	8.7153	0.480	5.513	ug/L
|	Cr	52	22233.920	0.04	2.0428	0.088	4.287	ug/L
|	Cr	53	1933.714	0.01	2.2348	0.063	2.816	ug/L
|	Mn	55	1781750.668	5.95	178.9219	10.571	5.908	ug/L
|	Co	59	20616.138	0.07	2.6535	0.141	5.298	ug/L
|	Ni	60	4724.164	0.02	2.8243	0.120	4.247	ug/L
|	Cu	65	10498.620	0.03	6.2404	0.299	4.784	ug/L
|	Zn	66	16612.967	0.05	13.1972	0.692	5.243	ug/L
|>	Ge	72	299278.781	299278.78				ug/L
|	As	75	1354.738	0.01	1.4419	0.045	3.129	ug/L
|	Se	77	72.667	0.00	-0.0512	0.297	579.479	ug/L
|	Se	82	15.360	0.00	0.2459	0.127	51.763	ug/L
⌊	Rb	85	38672.432	0.13				mg/L
	Y	89	246963.841	30926.89				ug/L
	Rh	103	26.334	1.67				ug/L
⌈	Mo	98	231.402	0.00	0.0744	0.004	5.564	ug/L
|	Ag	107	211.338	0.00	0.0341	0.005	15.039	ug/L
|	Cd	114	21.461	0.00	0.0135	0.013	94.160	ug/L
|>	In	115	279182.793	279182.79				ug/L
|	Sn	118	124.134	-0.00	-0.0789	0.002	2.369	ug/L
⌊	Sb	123	100.323	0.00	0.0363	0.003	9.105	ug/L
⌈	Ba	135	81110.076	0.22	54.2686	2.443	4.502	ug/L
|	Ce	140	185957.435	0.52				ug/L
⌊>	Tb	159	360483.122	360483.12				ug/L
⌈	Ho	165	2947.397	0.01				ug/L
|	Tl	203	316.342	0.00	0.0548	0.006	10.125	ug/L
|	Tl	205	723.433	0.00	0.0448	0.009	19.491	ug/L
|	Pb	206	15532.557	0.05	2.8493	0.153	5.356	ug/L
|	Pb	207	13227.892	0.04	2.5812	0.167	6.474	ug/L
|	Pb	208	61634.134	0.19	2.6969	0.157	5.827	ug/L
|	U	238	10124.905	0.03	0.2988	0.022	7.405	ug/L
⌊>	Bi	209	314338.414	314338.41				ug/L

Sample ID: L1103061231
Report Date/Time: Tuesday, March 29, 2011 13:35:27
Page 1

Approved: March 30, 2011

⌈	Na	23	438427.430	1.78	0.0737	0.002	2.939	mg/L
|	Mg	24	2172909.363	15.65	0.7840	0.029	3.728	mg/L
|	K	39	3059418.258	19.39	0.4983	0.017	3.326	mg/L
|	Ca	43	17600.600	0.12	1.3119	0.052	3.987	mg/L
|	Fe	54	1865676.399	13.21	3.9050	0.120	3.080	mg/L
|	Fe	57	790618.486	5.64	3.9503	0.182	4.608	mg/L
⌊>	Sc-1	45	138874.793	138874.79				mg/L
	Cl	35	11136.868	1286.68				mg/L
	Kr	83	73.668	1.67				mg/L
	Br	81	5282.729	-742.42				mg/L
	P	31	59211.134	53478.13				mg/L
	S	34	99144.943	-18774.28				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.044			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		92.773			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.013			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.340			
⌈	Na	23					

Sample ID: L1103061231
Report Date/Time: Tuesday, March 29, 2011 13:35:27
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061231
Report Date/Time: Tuesday, March 29, 2011 13:35:27
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061232

Sample Date/Time: Tuesday, March 29, 2011 13:40:02
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 78
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17031.266	0.00				ug/L
|	Be	9	79.334	0.00	0.2619	0.032	12.289	ug/L
|	Al	27	19834250.702	135.02	4022.5033	301.472	7.495	ug/L
⌊>	Sc	45	147040.331	147040.33				ug/L
⌈	Ti	49	30797.104	0.10	65.7806	1.395	2.121	ug/L
|	V	51	126346.552	0.41	16.0990	0.665	4.134	ug/L
|	Cr	52	56528.038	0.16	7.2705	0.323	4.437	ug/L
|	Cr	53	5975.716	0.02	7.4835	0.075	1.004	ug/L
|	Mn	55	2288115.853	7.60	228.4606	6.542	2.863	ug/L
|	Co	59	45919.065	0.15	5.8905	0.206	3.494	ug/L
|	Ni	60	10227.337	0.03	6.1637	0.284	4.602	ug/L
|	Cu	65	19462.808	0.06	11.5819	0.507	4.375	ug/L
|	Zn	66	33485.368	0.11	29.8220	1.334	4.472	ug/L
| >	Ge	72	301002.261	301002.26				ug/L
|	As	75	4421.666	0.02	4.3638	0.173	3.957	ug/L
|	Se	77	72.000	0.00	-0.0649	0.268	413.089	ug/L
|	Se	82	5.255	0.00	0.1427	0.105	73.659	ug/L
⌊	Rb	85	36900.411	0.12				mg/L
	Y	89	271373.465	55336.52				ug/L
	Rh	103	24.000	-0.67				ug/L
⌈	Mo	98	295.697	0.00	0.0947	0.011	12.074	ug/L
|	Ag	107	318.675	0.00	0.0517	0.003	6.713	ug/L
|	Cd	114	70.101	0.00	0.0531	0.016	29.999	ug/L
| >	In	115	286806.339	286806.34				ug/L
|	Sn	118	221.202	0.00	-0.0569	0.001	1.706	ug/L
⌊	Sb	123	93.901	0.00	0.0341	0.005	14.754	ug/L
⌈	Ba	135	91165.143	0.25	59.6515	2.266	3.799	ug/L
|	Ce	140	226429.863	0.61				ug/L
⌊>	Tb	159	368640.278	368640.28				ug/L
⌈	Ho	165	4424.755	0.01				ug/L
|	Tl	203	308.341	0.00	0.0523	0.003	6.109	ug/L
|	Tl	205	766.773	0.00	0.0462	0.005	11.016	ug/L
|	Pb	206	44001.435	0.14	7.9280	0.321	4.050	ug/L
|	Pb	207	37115.509	0.11	7.1127	0.302	4.250	ug/L
|	Pb	208	174482.125	0.54	7.5012	0.331	4.414	ug/L
|	U	238	18577.454	0.06	0.5350	0.030	5.683	ug/L
⌊>	Bi	209	323272.568	323272.57				ug/L

Sample ID: L1103061232
Report Date/Time: Tuesday, March 29, 2011 13:42:15
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	345941.269	0.97	0.0460	0.006	12.607	mg/L
|	Mg	24	4621890.494	31.46	1.5811	0.094	5.926	mg/L
|	K	39	4479692.538	27.86	0.7185	0.043	5.954	mg/L
|	Ca	43	20964.084	0.14	1.4823	0.116	7.796	mg/L
|	Fe	54	3994923.600	26.97	7.9760	0.516	6.474	mg/L
|	Fe	57	1714463.973	11.62	8.1385	0.470	5.776	mg/L
⌊>	Sc-1	45	147040.331	147040.33				mg/L
	Cl	35	12015.882	2165.70				mg/L
	Kr	83	85.668	13.67				mg/L
	Br	81	5853.713	-171.44				mg/L
	P	31	106920.242	101187.24				mg/L
	S	34	97709.825	-20209.40				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.591			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.307			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.163			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.164			
⌈	Na	23					

Sample ID: L1103061232
Report Date/Time: Tuesday, March 29, 2011 13:42:15
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061232
Report Date/Time: Tuesday, March 29, 2011 13:42:15

Approved: March 30, 2011
Erin D. Long

Method 6020 - Summary Report

Sample ID: L1103061232PS WG360220-01

Sample Date/Time: Tuesday, March 29, 2011 13:46:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 79
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17064.555	0.00				ug/L
|	Be	9	17250.888	0.11	63.1358	2.336	3.700	ug/L
|	Al	27	20081084.011	133.38	3973.4035	80.363	2.023	ug/L
⌊>	Sc	45	150458.994	150458.99				ug/L
⌈	Ti	49	29824.127	0.10	63.9608	3.193	4.991	ug/L
|	V	51	573491.985	1.90	74.6003	2.834	3.799	ug/L
|	Cr	52	451607.849	1.47	68.0047	2.662	3.914	ug/L
|	Cr	53	51792.617	0.17	67.4080	3.855	5.718	ug/L
|	Mn	55	2865244.133	9.56	287.3095	8.911	3.102	ug/L
|	Co	59	520547.394	1.74	67.1752	2.386	3.552	ug/L
|	Ni	60	111834.258	0.37	68.4175	3.079	4.501	ug/L
|	Cu	65	125179.912	0.42	75.3256	2.534	3.363	ug/L
|	Zn	66	99442.648	0.33	95.6007	2.806	2.936	ug/L
|>	Ge	72	299753.342	299753.34				ug/L
|	As	75	69720.073	0.23	67.0134	2.582	3.853	ug/L
|	Se	77	5403.462	0.02	66.1829	3.412	5.156	ug/L
|	Se	82	6517.192	0.02	65.9365	3.396	5.151	ug/L
⌊	Rb	85	37057.956	0.12				mg/L
	Y	89	264217.942	48180.99				ug/L
	Rh	103	52.001	27.33				ug/L
⌈	Mo	98	316.670	0.00	0.1034	0.006	5.448	ug/L
|	Ag	107	356969.649	1.26	62.5566	1.624	2.597	ug/L
|	Cd	114	76960.539	0.27	64.4359	2.424	3.761	ug/L
|>	In	115	283339.123	283339.12				ug/L
|	Sn	118	274.937	0.00	-0.0435	0.004	8.271	ug/L
⌊	Sb	123	244789.367	0.86	62.7995	1.911	3.043	ug/L
⌈	Ba	135	181182.005	0.49	119.0555	3.424	2.876	ug/L
|	Ce	140	225625.617	0.61				ug/L
⌊>	Tb	159	366996.721	366996.72				ug/L
⌈	Ho	165	4294.686	0.01				ug/L
|	Tl	203	409916.724	1.29	60.5199	1.296	2.142	ug/L
|	Tl	205	1015620.091	3.19	61.2523	2.372	3.873	ug/L
|	Pb	206	388728.900	1.22	71.4698	1.814	2.538	ug/L
|	Pb	207	343635.768	1.08	67.2013	1.342	1.996	ug/L
|	Pb	208	1580302.710	4.96	69.3368	1.609	2.320	ug/L
|	U	238	2182095.896	6.85	64.0868	1.824	2.846	ug/L
⌊>	Bi	209	318293.542	318293.54				ug/L

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 13:49:04
Page 1

Approved: March 30, 2011

Na	23	337401.899	0.86	0.0421	0.001	3.549	mg/L
Mg	24	4514433.851	30.00	1.5075	0.059	3.892	mg/L
K	39	4403035.690	26.65	0.6872	0.033	4.834	mg/L
Ca	43	20082.177	0.13	1.3852	0.064	4.626	mg/L
Fe	54	3851010.872	25.40	7.5118	0.272	3.616	mg/L
Fe	57	1690809.525	11.19	7.8398	0.212	2.701	mg/L
> Sc-1	45	150458.994	150458.99				mg/L
Cl	35	12664.017	2813.83				mg/L
Kr	83	83.001	11.00				mg/L
Br	81	5780.337	-244.82				mg/L
P	31	104345.324	98612.32				mg/L
S	34	107421.028	-10498.19				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		95.195			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		94.154			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		96.730			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		100.590			
Na	23					

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 13:49:04
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 13:53:38
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15979.490	0.01				ug/L
|	Be	9	13551.176	0.11	58.1207	0.547	0.941	ug/L
|	Al	27	239023.292	1.82	53.8261	0.974	1.810	ug/L
⌊>	Sc	45	128284.292	128284.29				ug/L
⌈	Ti	49	47118.805	0.16	102.9107	2.046	1.989	ug/L
|	V	51	388152.396	1.31	51.2573	0.799	1.559	ug/L
|	Cr	52	340000.410	1.12	51.7617	0.328	0.633	ug/L
|	Cr	53	38866.052	0.13	51.3870	2.399	4.669	ug/L
|	Mn	55	519299.164	1.76	52.8363	0.823	1.558	ug/L
|	Co	59	404844.274	1.37	53.1447	0.528	0.994	ug/L
|	Ni	60	85533.802	0.29	53.2192	1.059	1.990	ug/L
|	Cu	65	86816.471	0.29	53.1192	1.141	2.147	ug/L
|	Zn	66	54980.276	0.18	52.2969	0.514	0.983	ug/L
| >	Ge	72	294692.570	294692.57				ug/L
|	As	75	52960.735	0.18	51.8171	0.507	0.978	ug/L
|	Se	77	4387.630	0.01	54.5029	1.468	2.693	ug/L
|	Se	82	5108.507	0.02	52.5961	0.551	1.048	ug/L
⌊	Rb	85	2008.222	0.01				mg/L
	Y	89	200350.481	-15686.47				ug/L
	Rh	103	30.334	5.67				ug/L
⌈	Mo	98	284336.305	1.01	101.1448	2.189	2.164	ug/L
|	Ag	107	286579.307	1.02	50.4903	0.805	1.595	ug/L
|	Cd	114	62465.431	0.22	52.5815	0.744	1.415	ug/L
| >	In	115	281898.500	281898.50				ug/L
|	Sn	118	216731.674	0.77	51.5721	0.343	0.666	ug/L
⌊	Sb	123	201673.000	0.72	52.0179	0.676	1.299	ug/L
⌈	Ba	135	76871.112	0.21	51.2865	1.266	2.469	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	361519.361	361519.36				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	332809.767	1.09	51.4280	0.672	1.308	ug/L
|	Tl	205	817336.098	2.69	51.5930	0.277	0.537	ug/L
|	Pb	206	271070.370	0.89	52.1551	0.763	1.462	ug/L
|	Pb	207	253211.457	0.83	51.8224	0.551	1.064	ug/L
|	Pb	208	1125677.176	3.70	51.6868	0.592	1.146	ug/L
|	U	238	1915918.900	6.30	58.8945	0.128	0.217	ug/L
⌊>	Bi	209	304182.339	304182.34				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 13:55:51
Page 1

Approved: March 30, 2011

Na	23	19603297.271	151.44	5.2570	0.074	1.411	mg/L	
Mg	24	13456649.363	104.90	5.2822	0.056	1.067	mg/L	
K	39	26542885.207	204.28	5.3061	0.079	1.481	mg/L	
Ca	43	65849.392	0.51	5.4115	0.121	2.234	mg/L	
Fe	54	2406837.922	18.53	5.4806	0.131	2.395	mg/L	
Fe	57	1033494.438	8.01	5.6064	0.069	1.230	mg/L	
> Sc-1	45	128284.292	128284.29				mg/L	
Cl	35	10512.190	662.01				mg/L	
Kr	83	63.001	-9.00				mg/L	
Br	81	5436.813	-588.34				mg/L	
P	31	5414.801	-318.20				mg/L	
S	34	122925.037	5005.82				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	102.515				
Cr	52	103.523				
Cr	53					
Mn	55	105.673				
Co	59	106.289				
Ni	60	106.438				
Cu	65	106.238				
Zn	66	104.594				
> Ge	72		93.587			
As	75	103.634				
Se	77					
Se	82	105.192				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	100.981				
Cd	114	105.163				
> In	115		93.676			
Sn	118					
Sb	123	104.036				
Ba	135	102.573				
Ce	140					
> Tb	159		95.287			
Ho	165					
Tl	203	102.856				
Tl	205					
Pb	206					
Pb	207					
Pb	208	103.374				
U	238	117.789				
> Bi	209		96.131			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 13:55:51

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 13:55:51
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 14:00:24
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16062.916	0.01				ug/L
|	Be	9	15.333	0.00	0.0293	0.035	119.025	ug/L
|	Al	27	4701.111	-0.01	-0.6483	0.088	13.580	ug/L
⌊>	Sc	45	134669.927	134669.93				ug/L
⌈	Ti	49	46.671	-0.00	-0.0960	0.043	44.750	ug/L
|	V	51	2271.025	-0.00	-0.0505	0.006	11.065	ug/L
|	Cr	52	7407.483	-0.01	-0.2504	0.029	11.671	ug/L
|	Cr	53	183.353	-0.00	-0.0588	0.065	110.041	ug/L
|	Mn	55	404.012	-0.00	-0.1291	0.001	1.017	ug/L
|	Co	59	94.001	-0.00	-0.0001	0.002	3717.412	ug/L
|	Ni	60	73.334	-0.00	-0.0296	0.004	14.929	ug/L
|	Cu	65	143.336	-0.00	-0.0108	0.002	21.916	ug/L
|	Zn	66	456.015	-0.00	-2.9155	0.044	1.515	ug/L
|>	Ge	72	302339.247	302339.25				ug/L
|	As	75	-147.428	0.00	-0.0004	0.045	10084.008	ug/L
|	Se	77	56.000	-0.00	-0.2643	0.164	62.155	ug/L
|	Se	82	0.780	-0.00	0.0958	0.176	184.017	ug/L
⌊	Rb	85	38.000	0.00				mg/L
	Y	89	206201.645	-9835.30				ug/L
	Rh	103	24.334	-0.33				ug/L
⌈	Mo	98	133.769	0.00	0.0379	0.004	9.869	ug/L
|	Ag	107	82.001	0.00	0.0107	0.001	8.837	ug/L
|	Cd	114	-5.375	-0.00	-0.0092	0.008	82.922	ug/L
|>	In	115	287829.342	287829.34				ug/L
|	Sn	118	232.536	0.00	-0.0545	0.006	10.723	ug/L
⌊	Sb	123	255.952	0.00	0.0748	0.008	10.082	ug/L
⌈	Ba	135	53.334	-0.00	0.0107	0.007	63.162	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	367833.970	367833.97				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	59.667	0.00	0.0165	0.002	9.658	ug/L
|	Tl	205	136.681	0.00	0.0090	0.002	27.599	ug/L
|	Pb	206	299.007	0.00	0.0103	0.001	13.814	ug/L
|	Pb	207	250.339	-0.00	0.0084	0.001	12.967	ug/L
|	Pb	208	1161.038	0.00	0.0073	0.001	14.799	ug/L
|	U	238	141.336	0.00	0.0017	0.001	39.447	ug/L
⌊>	Bi	209	311854.774	311854.77				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 14:02:35
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	181005.296	-0.03	0.0111	0.004	34.478	mg/L
|	Mg	24	850.122	0.00	-0.0044	0.000	1.214	mg/L
|	K	39	344775.282	-0.07	-0.0078	0.003	42.458	mg/L
|	Ca	43	310.036	-0.00	-0.0071	0.006	88.165	mg/L
|	Fe	54	32899.029	0.01	0.0002	0.003	1388.753	mg/L
|	Fe	57	6075.786	-0.01	-0.0065	0.002	34.132	mg/L
⌊>	Sc-1	45	134669.927	134669.93				mg/L
	Cl	35	9742.077	-108.11				mg/L
	Kr	83	63.668	-8.33				mg/L
	Br	81	5676.277	-348.88				mg/L
	P	31	5652.943	-80.06				mg/L
	S	34	113220.308	-4698.91				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.016			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.646			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.951			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.555			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 14:02:35

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 14:02:35

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061232SDL WG360220-02

Sample Date/Time: Tuesday, March 29, 2011 14:07:11
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 80
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18149.857	0.02				ug/L
|	Be	9	27.333	0.00	0.0745	0.043	57.755	ug/L
|	Al	27	3685579.604	26.76	796.9542	8.559	1.074	ug/L
⌊>	Sc	45	137505.806	137505.81				ug/L
⌈	Ti	49	5758.900	0.02	11.6983	0.085	0.729	ug/L
|	V	51	24307.642	0.07	2.7050	0.061	2.269	ug/L
|	Cr	52	15699.473	0.02	0.9367	0.039	4.183	ug/L
|	Cr	53	1223.531	0.00	1.2387	0.139	11.199	ug/L
|	Mn	55	412001.108	1.32	39.5184	0.232	0.587	ug/L
|	Co	59	8331.553	0.03	1.0204	0.004	0.370	ug/L
|	Ni	60	1865.859	0.01	1.0230	0.020	1.964	ug/L
|	Cu	65	3676.379	0.01	2.0303	0.039	1.910	ug/L
|	Zn	66	8556.745	0.03	4.8110	0.087	1.802	ug/L
| >	Ge	72	312228.889	312228.89				ug/L
|	As	75	677.877	0.00	0.7645	0.050	6.532	ug/L
|	Se	77	58.667	-0.00	-0.2562	0.131	51.030	ug/L
|	Se	82	5.371	0.00	0.1423	0.087	61.216	ug/L
⌊	Rb	85	6777.364	0.02				mg/L
	Y	89	224597.463	8560.51				ug/L
	Rh	103	20.667	-4.00				ug/L
⌈	Mo	98	91.174	0.00	0.0222	0.002	6.925	ug/L
|	Ag	107	89.668	0.00	0.0116	0.001	5.582	ug/L
|	Cd	114	14.623	0.00	0.0069	0.008	113.412	ug/L
| >	In	115	295695.707	295695.71				ug/L
|	Sn	118	124.401	-0.00	-0.0805	0.001	1.253	ug/L
⌊	Sb	123	104.195	0.00	0.0358	0.004	12.524	ug/L
⌈	Ba	135	16217.636	0.04	10.3553	0.219	2.115	ug/L
|	Ce	140	40104.276	0.11				ug/L
⌊>	Tb	159	377001.812	377001.81				ug/L
⌈	Ho	165	780.109	0.00				ug/L
|	Tl	203	107.668	0.00	0.0234	0.003	12.345	ug/L
|	Tl	205	220.024	0.00	0.0139	0.001	9.424	ug/L
|	Pb	206	7723.059	0.02	1.3779	0.024	1.729	ug/L
|	Pb	207	6664.620	0.02	1.2656	0.033	2.595	ug/L
|	Pb	208	30672.430	0.09	1.3046	0.011	0.826	ug/L
|	U	238	3093.509	0.01	0.0885	0.003	3.749	ug/L
⌊>	Bi	209	317740.935	317740.93				ug/L

Sample ID: L1103061232SDL WG360220-02
Report Date/Time: Tuesday, March 29, 2011 14:09:24
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	70622.310	-0.87	-0.0178	0.001	4.046	mg/L
|	Mg	24	908506.240	6.61	0.3284	0.010	3.005	mg/L
|	K	39	1202507.519	6.11	0.1530	0.006	3.797	mg/L
|	Ca	43	3691.051	0.02	0.2532	0.013	5.142	mg/L
|	Fe	54	762716.170	5.32	1.5698	0.042	2.661	mg/L
|	Fe	57	312560.811	2.22	1.5549	0.048	3.092	mg/L
⌊>	Sc-1	45	137505.806	137505.81				mg/L
	Cl	35	9680.684	-169.50				mg/L
	Kr	83	72.334	0.33				mg/L
	Br	81	5603.571	-421.58				mg/L
	P	31	21569.906	15836.90				mg/L
	S	34	98203.175	-19716.05				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		99.157			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		98.260			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.367			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.416			
⌈	Na	23					

Sample ID: L1103061232SDL WG360220-02
Report Date/Time: Tuesday, March 29, 2011 14:09:24
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103061232SDL WG360220-02
Report Date/Time: Tuesday, March 29, 2011 14:09:24
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079018 WG359922-01

Sample Date/Time: Tuesday, March 29, 2011 14:14:00
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 81
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16947.735	-0.00				ug/L
|	Be	9	168.668	0.00	0.5693	0.188	32.948	ug/L
|	Al	27	26132481.254	169.91	5061.9865	521.217	10.297	ug/L
⌊>	Sc	45	153773.363	153773.36				ug/L
⌈	Ti	49	4004.545	0.01	8.2322	1.187	14.422	ug/L
|	V	51	72779.802	0.23	8.9575	0.641	7.158	ug/L
|	Cr	52	73298.793	0.21	9.6358	0.746	7.746	ug/L
|	Cr	53	7957.301	0.02	9.8805	0.717	7.256	ug/L
|	Mn	55	3373971.696	11.01	330.9218	22.530	6.808	ug/L
|	Co	59	60580.650	0.20	7.6349	0.464	6.076	ug/L
|	Ni	60	25202.059	0.08	15.0209	1.003	6.677	ug/L
|	Cu	65	23840.706	0.08	13.9527	0.975	6.985	ug/L
|	Zn	66	42721.109	0.14	38.2157	2.956	7.735	ug/L
| >	Ge	72	306546.259	306546.26				ug/L
|	As	75	7881.188	0.03	7.5338	0.672	8.914	ug/L
|	Se	77	99.334	0.00	0.2516	0.088	35.129	ug/L
|	Se	82	24.583	0.00	0.3327	0.058	17.308	ug/L
⌊	Rb	85	57396.919	0.19				mg/L
	Y	89	312671.822	96634.87				ug/L
	Rh	103	24.000	-0.67				ug/L
⌈	Mo	98	1997.133	0.01	0.6874	0.031	4.520	ug/L
|	Ag	107	230.338	0.00	0.0363	0.001	3.208	ug/L
|	Cd	114	80.930	0.00	0.0620	0.005	8.512	ug/L
| >	In	115	287620.798	287620.80				ug/L
|	Sn	118	133.734	-0.00	-0.0775	0.001	0.998	ug/L
⌊	Sb	123	111.817	0.00	0.0385	0.001	2.208	ug/L
⌈	Ba	135	104010.890	0.28	66.6179	3.645	5.471	ug/L
|	Ce	140	380442.588	1.01				ug/L
⌊>	Tb	159	376523.592	376523.59				ug/L
⌈	Ho	165	7490.226	0.02				ug/L
|	Tl	203	693.364	0.00	0.1095	0.007	6.340	ug/L
|	Tl	205	1586.952	0.00	0.0960	0.008	8.340	ug/L
|	Pb	206	43504.914	0.14	7.9318	0.661	8.339	ug/L
|	Pb	207	36444.936	0.11	7.0674	0.607	8.584	ug/L
|	Pb	208	172424.686	0.54	7.5007	0.583	7.778	ug/L
|	U	238	13674.834	0.04	0.3978	0.025	6.241	ug/L
⌊>	Bi	209	319491.082	319491.08				ug/L

Sample ID: L1103079018 WG359922-01
Report Date/Time: Tuesday, March 29, 2011 14:16:14
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	508024.329	1.92	0.0788	0.007	8.282	mg/L
|	Mg	24	6446495.916	41.92	2.1079	0.148	7.005	mg/L
|	K	39	2641489.608	14.54	0.3721	0.024	6.429	mg/L
|	Ca	43	75146.126	0.49	5.1493	0.289	5.608	mg/L
|	Fe	54	7192774.664	46.54	13.7693	0.886	6.436	mg/L
|	Fe	57	3059957.082	19.85	13.9024	0.837	6.018	mg/L
⌊>	Sc-1	45	153773.363	153773.36				mg/L
	Cl	35	16114.978	6264.79				mg/L
	Kr	83	86.335	14.33				mg/L
	Br	81	5846.376	-178.78				mg/L
	P	31	124809.036	119076.03				mg/L
	S	34	111069.724	-6849.50				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		97.352			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.577			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		99.241			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.969			
⌈	Na	23					

Sample ID: L1103079018 WG359922-01
Report Date/Time: Tuesday, March 29, 2011 14:16:14
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103053301

Sample Date/Time: Tuesday, March 29, 2011 14:20:50
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 94
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17782.478	0.03				ug/L
|	Be	9	14.000	-0.00	0.0257	0.010	38.752	ug/L
|	Al	27	32251.935	0.21	5.8242	0.243	4.172	ug/L
⌊>	Sc	45	127963.977	127963.98				ug/L
⌈	Ti	49	1817.014	0.01	4.0947	0.244	5.949	ug/L
|	V	51	6496.539	0.01	0.5867	0.013	2.206	ug/L
|	Cr	52	25738.678	0.06	2.9607	0.111	3.759	ug/L
|	Cr	53	5405.336	0.02	7.4584	0.406	5.442	ug/L
|	Mn	55	41947.223	0.15	4.4493	0.103	2.307	ug/L
|	Co	59	607.358	0.00	0.0739	0.000	0.272	ug/L
|	Ni	60	1323.434	0.00	0.8156	0.055	6.708	ug/L
|	Cu	65	889.715	0.00	0.4920	0.027	5.407	ug/L
|	Zn	66	6732.000	0.02	3.9872	0.201	5.052	ug/L
|>	Ge	72	273203.278	273203.28				ug/L
|	As	75	264.423	0.00	0.4182	0.055	13.074	ug/L
|	Se	77	553.349	0.00	6.5901	0.843	12.798	ug/L
|	Se	82	277.345	0.00	3.1664	0.251	7.931	ug/L
⌊	Rb	85	7807.792	0.03				mg/L
	Y	89	184698.652	-31338.30				ug/L
	Rh	103	72.001	47.33				ug/L
⌈	Mo	98	270.481	0.00	0.0983	0.004	3.854	ug/L
|	Ag	107	55.667	0.00	0.0075	0.001	19.860	ug/L
|	Cd	114	-1.001	0.00	-0.0058	0.006	109.075	ug/L
|>	In	115	253451.376	253451.38				ug/L
|	Sn	118	232.536	0.00	-0.0471	0.004	8.065	ug/L
⌊	Sb	123	247.905	0.00	0.0813	0.003	4.006	ug/L
⌈	Ba	135	51292.723	0.15	36.4552	0.274	0.753	ug/L
|	Ce	140	340.040	0.00				ug/L
⌊>	Tb	159	339223.814	339223.81				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	89.001	0.00	0.0246	0.001	2.215	ug/L
|	Tl	205	176.686	0.00	0.0145	0.002	15.030	ug/L
|	Pb	206	295.341	0.00	0.0250	0.006	22.702	ug/L
|	Pb	207	254.339	0.00	0.0234	0.006	26.643	ug/L
|	Pb	208	1158.704	0.00	0.0216	0.002	7.249	ug/L
|	U	238	553.021	0.00	0.0186	0.001	7.176	ug/L
⌊>	Bi	209	244063.299	244063.30				ug/L

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 14:23:04
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	34448120.624	269.35	13.5704	0.470	3.467	mg/L
|	K	39	4591603.730	33.25	0.8587	0.010	1.118	mg/L
|	Ca	43	105881.590	0.83	8.7442	0.127	1.456	mg/L
|	Fe	54	75436.814	0.36	0.1023	0.001	0.780	mg/L
|	Fe	57	30887.423	0.19	0.1309	0.004	2.877	mg/L
⌊>	Sc-1	45	127963.977	127963.98				mg/L
	Cl	35	4180692.035	4170841.85				mg/L
	Kr	83	76.334	4.33				mg/L
	Br	81	110724.334	104699.18				mg/L
	P	31	124446.247	118713.24				mg/L
	S	34	2834236.992	2716317.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.763			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		84.223			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		89.410			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		77.131			
⌈	Na	23					

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 14:23:04
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103053301
Report Date/Time: Tuesday, March 29, 2011 14:23:04
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079018S WG359922-04

Sample Date/Time: Tuesday, March 29, 2011 14:28:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 82
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17164.730	0.02				ug/L
|	Be	9	1920.185	0.01	7.8415	0.470	5.997	ug/L
|	Al	27	23903019.112	178.00	5303.0252	497.361	9.379	ug/L
⌊>	Sc	45	134194.460	134194.46				ug/L
⌈	Ti	49	3557.658	0.01	8.0146	0.721	8.990	ug/L
|	V	51	110579.083	0.39	15.1568	1.364	9.000	ug/L
|	Cr	52	108192.184	0.35	16.4534	1.598	9.712	ug/L
|	Cr	53	12539.156	0.04	17.2882	1.749	10.118	ug/L
|	Mn	55	3280322.349	11.74	352.8940	31.359	8.886	ug/L
|	Co	59	113047.280	0.40	15.6410	1.313	8.392	ug/L
|	Ni	60	33657.747	0.12	22.0396	1.782	8.086	ug/L
|	Cu	65	36746.698	0.13	23.6559	2.049	8.660	ug/L
|	Zn	66	47789.223	0.17	47.6546	4.485	9.411	ug/L
| >	Ge	72	279555.712	279555.71				ug/L
|	As	75	8953.096	0.03	9.3513	0.597	6.380	ug/L
|	Se	77	522.014	0.00	6.0021	0.795	13.249	ug/L
|	Se	82	533.742	0.00	5.8747	0.415	7.068	ug/L
⌊	Rb	85	59380.632	0.21				mg/L
	Y	89	260106.909	44069.96				ug/L
	Rh	103	28.334	3.67				ug/L
⌈	Mo	98	391.888	0.00	0.1390	0.021	14.923	ug/L
|	Ag	107	7814.896	0.03	1.4622	0.924	63.163	ug/L
|	Cd	114	7257.934	0.03	6.4651	0.621	9.611	ug/L
| >	In	115	266329.215	266329.21				ug/L
|	Sn	118	129.468	0.00	-0.0761	0.002	2.301	ug/L
⌊	Sb	123	384.039	0.00	0.1151	0.004	3.278	ug/L
⌈	Ba	135	335646.026	0.95	229.4675	20.743	9.039	ug/L
|	Ce	140	323129.612	0.92				ug/L
⌊>	Tb	159	352999.386	352999.39				ug/L
⌈	Ho	165	5575.449	0.02				ug/L
|	Tl	203	40548.222	0.13	6.0227	0.573	9.517	ug/L
|	Tl	205	100542.789	0.32	6.0949	0.635	10.411	ug/L
|	Pb	206	82746.742	0.26	15.2532	1.512	9.916	ug/L
|	Pb	207	71381.113	0.22	13.9964	1.271	9.083	ug/L
|	Pb	208	329722.613	1.04	14.5036	1.369	9.439	ug/L
|	U	238	235443.424	0.74	6.9471	0.757	10.896	ug/L
⌊>	Bi	209	316892.508	316892.51				ug/L

Sample ID: L1103079018S WG359922-04
Report Date/Time: Tuesday, March 29, 2011 14:30:17
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	624075.414	3.27	0.1254	0.012	9.667	mg/L
|	Mg	24	8025300.597	59.79	3.0088	0.213	7.068	mg/L
|	K	39	2774285.034	18.03	0.4629	0.042	9.103	mg/L
|	Ca	43	212984.244	1.58	16.7908	1.421	8.466	mg/L
|	Fe	54	6674036.130	49.48	14.6396	1.411	9.639	mg/L
|	Fe	57	2889920.061	21.48	15.0435	1.170	7.780	mg/L
⌊>	Sc-1	45	134194.460	134194.46				mg/L
	Cl	35	21643.426	11793.24				mg/L
	Kr	83	70.668	-1.33				mg/L
	Br	81	6196.588	171.43				mg/L
	P	31	56389.871	50656.87				mg/L
	S	34	127635.688	9716.47				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.780			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.502			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.041			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.147			
⌈	Na	23					

Sample ID: L1103079018S WG359922-04
Report Date/Time: Tuesday, March 29, 2011 14:30:17
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Sample ID: L1103079018S WG359922-04
Report Date/Time: Tuesday, March 29, 2011 14:30:17
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079018SD WG359922-05

Sample Date/Time: Tuesday, March 29, 2011 14:34:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 83
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17481.941	0.02				ug/L
|	Be	9	1734.817	0.01	7.0164	0.296	4.213	ug/L
|	Al	27	23258067.564	171.69	5114.9212	207.740	4.061	ug/L
⌊>	Sc	45	135512.934	135512.93				ug/L
⌈	Ti	49	3084.120	0.01	6.7323	0.596	8.856	ug/L
|	V	51	104683.655	0.35	13.9450	0.809	5.802	ug/L
|	Cr	52	102376.566	0.32	15.0532	0.825	5.478	ug/L
|	Cr	53	11898.280	0.04	15.9521	0.790	4.955	ug/L
|	Mn	55	2735169.963	9.53	286.5494	13.534	4.723	ug/L
|	Co	59	104506.934	0.36	14.0809	0.664	4.716	ug/L
|	Ni	60	31904.930	0.11	20.3416	1.191	5.857	ug/L
|	Cu	65	33827.876	0.12	21.1970	0.852	4.019	ug/L
|	Zn	66	46299.831	0.16	44.7723	1.253	2.799	ug/L
| >	Ge	72	286895.269	286895.27				ug/L
|	As	75	8401.318	0.03	8.5585	0.431	5.035	ug/L
|	Se	77	416.009	0.00	4.4420	0.376	8.465	ug/L
|	Se	82	423.289	0.00	4.5574	0.183	4.005	ug/L
⌊	Rb	85	52241.163	0.18				mg/L
	Y	89	259420.992	43384.04				ug/L
	Rh	103	32.000	7.33				ug/L
⌈	Mo	98	414.926	0.00	0.1445	0.010	6.754	ug/L
|	Ag	107	12531.978	0.05	2.2889	0.082	3.583	ug/L
|	Cd	114	6757.565	0.02	5.9014	0.283	4.804	ug/L
| >	In	115	271520.293	271520.29				ug/L
|	Sn	118	162.268	0.00	-0.0686	0.001	1.013	ug/L
⌊	Sb	123	474.247	0.00	0.1372	0.010	7.452	ug/L
⌈	Ba	135	282990.402	0.80	191.9162	9.973	5.197	ug/L
|	Ce	140	277625.658	0.78				ug/L
⌊>	Tb	159	355707.539	355707.54				ug/L
⌈	Ho	165	4961.730	0.01				ug/L
|	Tl	203	36292.891	0.11	5.1642	0.246	4.762	ug/L
|	Tl	205	90043.198	0.27	5.2277	0.227	4.347	ug/L
|	Pb	206	75317.961	0.23	13.2925	0.461	3.471	ug/L
|	Pb	207	64814.681	0.20	12.1669	0.521	4.285	ug/L
|	Pb	208	300925.558	0.91	12.6728	0.476	3.753	ug/L
|	U	238	213326.914	0.64	6.0284	0.232	3.850	ug/L
⌊>	Bi	209	330690.294	330690.29				ug/L

Sample ID: L1103079018SD WG359922-05
Report Date/Time: Tuesday, March 29, 2011 14:37:03
Page 1

Approved: March 30, 2011

⌈	Na	23	536294.612	2.58	0.1015	0.007	6.737	mg/L
|	Mg	24	6753631.260	49.87	2.5086	0.109	4.362	mg/L
|	K	39	2498642.425	15.81	0.4053	0.018	4.430	mg/L
|	Ca	43	58349.121	0.43	4.5386	0.271	5.967	mg/L
|	Fe	54	6048519.776	44.45	13.1504	0.976	7.422	mg/L
|	Fe	57	2648470.071	19.50	13.6582	0.704	5.157	mg/L
⌊>	Sc-1	45	135512.934	135512.93				mg/L
	Cl	35	16028.169	6177.99				mg/L
	Kr	83	83.668	11.67				mg/L
	Br	81	5321.417	-703.74				mg/L
	P	31	60908.647	55175.64				mg/L
	S	34	111484.155	-6435.07				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.111			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.227			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.755			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		104.508			
⌈	Na	23					

Sample ID: L1103079018SD WG359922-05
Report Date/Time: Tuesday, March 29, 2011 14:37:03
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Sample ID: L1103079018SD WG359922-05
Report Date/Time: Tuesday, March 29, 2011 14:37:03
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 14:42:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16313.427	0.02				ug/L
|	Be	9	13773.480	0.11	59.5802	1.602	2.688	ug/L
|	Al	27	236362.304	1.82	53.7258	3.611	6.721	ug/L
⌊>	Sc	45	127272.091	127272.09				ug/L
⌈	Ti	49	43599.193	0.15	95.5517	1.146	1.199	ug/L
|	V	51	361514.240	1.22	47.8903	1.086	2.267	ug/L
|	Cr	52	322877.528	1.07	49.2706	1.198	2.431	ug/L
|	Cr	53	38015.955	0.13	50.4471	1.553	3.079	ug/L
|	Mn	55	498750.197	1.70	50.9198	0.531	1.043	ug/L
|	Co	59	393971.337	1.34	51.9024	0.135	0.259	ug/L
|	Ni	60	85167.668	0.29	53.1782	0.467	0.877	ug/L
|	Cu	65	86400.178	0.29	53.0501	0.361	0.680	ug/L
|	Zn	66	52877.628	0.18	50.3599	0.312	0.619	ug/L
| >	Ge	72	293630.497	293630.50				ug/L
|	As	75	50224.552	0.17	49.3226	0.379	0.769	ug/L
|	Se	77	4021.476	0.01	50.0550	1.535	3.067	ug/L
|	Se	82	4927.241	0.02	50.9192	0.373	0.732	ug/L
⌊	Rb	85	1922.204	0.01				mg/L
	Y	89	199167.008	-16869.94				ug/L
	Rh	103	40.000	15.33				ug/L
⌈	Mo	98	279486.093	1.01	100.7921	0.907	0.900	ug/L
|	Ag	107	255252.448	0.92	45.5926	0.448	0.982	ug/L
|	Cd	114	57915.747	0.21	49.4213	0.290	0.586	ug/L
| >	In	115	278024.251	278024.25				ug/L
|	Sn	118	211434.619	0.76	51.0150	0.607	1.190	ug/L
⌊	Sb	123	190709.621	0.69	49.8781	0.969	1.942	ug/L
⌈	Ba	135	72474.070	0.20	48.1527	0.556	1.154	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	362937.879	362937.88				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	331580.025	1.02	48.0583	0.682	1.418	ug/L
|	Tl	205	820613.795	2.53	48.5868	0.552	1.137	ug/L
|	Pb	206	268611.806	0.83	48.4692	0.500	1.031	ug/L
|	Pb	207	252396.961	0.78	48.4480	0.829	1.711	ug/L
|	Pb	208	1128503.256	3.48	48.5969	0.646	1.329	ug/L
|	U	238	1859580.480	5.73	53.6186	1.016	1.895	ug/L
⌊>	Bi	209	324303.801	324303.80				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 14:44:54
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	18925605.159	147.40	5.1171	0.128	2.508	mg/L	
Mg	24	13289333.141	104.48	5.2612	0.151	2.878	mg/L	
K	39	25329647.851	196.52	5.1043	0.161	3.153	mg/L	
Ca	43	61380.658	0.48	5.0855	0.176	3.459	mg/L	
Fe	54	2371064.313	18.40	5.4419	0.047	0.871	mg/L	
Fe	57	1002263.907	7.83	5.4847	0.242	4.407	mg/L	
> Sc-1	45	127272.091	127272.09				mg/L	
Cl	35	11363.788	1513.60				mg/L	
Kr	83	84.001	12.00				mg/L	
Br	81	5268.723	-756.43				mg/L	
P	31	5050.612	-682.39				mg/L	
S	34	123102.947	5183.73				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	95.781				
Cr	52	98.541				
Cr	53					
Mn	55	101.840				
Co	59	103.805				
Ni	60	106.356				
Cu	65	106.100				
Zn	66	100.720				
> Ge	72		93.250			
As	75	98.645				
Se	77					
Se	82	101.838				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	91.185				
Cd	114	98.843				
> In	115		92.388			
Sn	118					
Sb	123	99.756				
Ba	135	96.305				
Ce	140					
> Tb	159		95.660			
Ho	165					
Tl	203	96.117				
Tl	205					
Pb	206					
Pb	207					
Pb	208	97.194				
U	238	107.237				
> Bi	209		102.490			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 14:44:54

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 14:44:54

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 14:49:27
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17315.000	0.02				ug/L
|	Be	9	22.000	0.00	0.0584	0.044	75.570	ug/L
|	Al	27	5434.816	-0.00	-0.4529	0.095	20.962	ug/L
⌊>	Sc	45	131002.769	131002.77				ug/L
⌈	Ti	49	30.003	-0.00	-0.1302	0.022	16.763	ug/L
|	V	51	2214.197	-0.00	-0.0530	0.003	5.551	ug/L
|	Cr	52	7156.965	-0.01	-0.2702	0.006	2.253	ug/L
|	Cr	53	353.375	0.00	0.1687	0.045	26.951	ug/L
|	Mn	55	437.014	-0.00	-0.1251	0.001	0.783	ug/L
|	Co	59	83.335	-0.00	-0.0012	0.000	32.398	ug/L
|	Ni	60	69.334	-0.00	-0.0313	0.005	14.769	ug/L
|	Cu	65	163.003	0.00	0.0027	0.006	224.908	ug/L
|	Zn	66	422.680	-0.00	-2.9409	0.016	0.553	ug/L
|>	Ge	72	297239.481	297239.48				ug/L
|	As	75	-95.337	0.00	0.0479	0.029	60.277	ug/L
|	Se	77	74.667	0.00	-0.0205	0.242	1178.203	ug/L
|	Se	82	18.797	0.00	0.2815	0.012	4.133	ug/L
⌊	Rb	85	33.000	-0.00				mg/L
	Y	89	202625.891	-13411.06				ug/L
	Rh	103	15.333	-9.33				ug/L
⌈	Mo	98	127.883	0.00	0.0366	0.010	26.914	ug/L
|	Ag	107	213.338	0.00	0.0339	0.003	8.343	ug/L
|	Cd	114	-0.928	0.00	-0.0056	0.002	36.168	ug/L
|>	In	115	283369.347	283369.35				ug/L
|	Sn	118	219.202	0.00	-0.0568	0.004	6.654	ug/L
⌊	Sb	123	86.777	0.00	0.0325	0.002	5.499	ug/L
⌈	Ba	135	45.334	-0.00	0.0056	0.008	144.077	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	365821.355	365821.35				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	98.001	0.00	0.0220	0.002	11.143	ug/L
|	Tl	205	233.359	0.00	0.0147	0.003	19.055	ug/L
|	Pb	206	288.007	0.00	0.0071	0.003	42.037	ug/L
|	Pb	207	260.339	-0.00	0.0094	0.003	27.482	ug/L
|	Pb	208	1204.041	0.00	0.0081	0.001	17.653	ug/L
|	U	238	174.337	0.00	0.0026	0.001	35.502	ug/L
⌊>	Bi	209	318311.992	318311.99				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 14:51:38
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	110218.701	-0.54	-0.0065	0.000	5.954	mg/L
|	Mg	24	1096.840	0.01	-0.0043	0.000	2.994	mg/L
|	K	39	352041.010	0.05	-0.0046	0.002	46.978	mg/L
|	Ca	43	270.031	-0.00	-0.0097	0.002	19.281	mg/L
|	Fe	54	31598.328	0.01	-0.0007	0.003	394.896	mg/L
|	Fe	57	5865.640	-0.01	-0.0068	0.001	18.054	mg/L
⌊>	Sc-1	45	131002.769	131002.77				mg/L
	Cl	35	10774.469	924.29				mg/L
	Kr	83	61.667	-10.33				mg/L
	Br	81	5620.913	-404.24				mg/L
	P	31	5866.403	133.40				mg/L
	S	34	119188.326	1269.11				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		94.396			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.164			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.420			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.596			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 14:51:38
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 14:51:38
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103092505

Sample Date/Time: Tuesday, March 29, 2011 14:56:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 128
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17248.207	0.00				ug/L
|	Be	9	118.001	0.00	0.4058	0.048	11.747	ug/L
|	Al	27	19802401.243	134.33	4001.9418	60.728	1.517	ug/L
⌊>	Sc	45	147344.466	147344.47				ug/L
⌈	Ti	49	1066.830	0.00	2.0879	0.190	9.116	ug/L
|	V	51	39257.981	0.12	4.7570	0.075	1.576	ug/L
|	Cr	52	20881.321	0.04	1.8111	0.018	0.988	ug/L
|	Cr	53	2033.744	0.01	2.3470	0.122	5.184	ug/L
|	Mn	55	2264191.763	7.51	225.7565	5.596	2.479	ug/L
|	Co	59	65433.724	0.22	8.3873	0.205	2.444	ug/L
|	Ni	60	5243.760	0.02	3.1198	0.078	2.497	ug/L
|	Cu	65	4189.919	0.01	2.4139	0.018	0.726	ug/L
|	Zn	66	9162.954	0.03	5.7033	0.144	2.521	ug/L
| >	Ge	72	301479.725	301479.73				ug/L
|	As	75	484.555	0.00	0.6026	0.064	10.620	ug/L
|	Se	77	119.334	0.00	0.5194	0.190	36.501	ug/L
|	Se	82	11.186	0.00	0.2042	0.238	116.808	ug/L
⌊	Rb	85	13934.508	0.05				mg/L
	Y	89	347588.533	131551.58				ug/L
	Rh	103	21.667	-3.00				ug/L
⌈	Mo	98	72.727	0.00	0.0176	0.006	36.059	ug/L
|	Ag	107	1016.395	0.00	0.1792	0.012	6.762	ug/L
|	Cd	114	24.827	0.00	0.0165	0.002	9.806	ug/L
| >	In	115	276449.491	276449.49				ug/L
|	Sn	118	129.468	-0.00	-0.0773	0.000	0.607	ug/L
⌊	Sb	123	49.651	0.00	0.0233	0.002	7.402	ug/L
⌈	Ba	135	8727.228	0.02	5.6752	0.060	1.059	ug/L
|	Ce	140	668060.323	1.81				ug/L
⌊>	Tb	159	369390.818	369390.82				ug/L
⌈	Ho	165	11217.410	0.04				ug/L
|	Tl	203	375.344	0.00	0.0641	0.001	0.883	ug/L
|	Tl	205	836.785	0.00	0.0521	0.004	7.362	ug/L
|	Pb	206	4946.273	0.01	0.8832	0.016	1.816	ug/L
|	Pb	207	3635.031	0.01	0.6846	0.023	3.338	ug/L
|	Pb	208	18295.784	0.06	0.7753	0.003	0.420	ug/L
|	U	238	7107.931	0.02	0.2106	0.005	2.315	ug/L
⌊>	Bi	209	311817.453	311817.45				ug/L

Sample ID: L1103092505
Report Date/Time: Tuesday, March 29, 2011 14:58:29
Page 1

Approved: March 30, 2011

⌈	Na	23	122501.344	-0.55	-0.0068	0.001	12.277	mg/L
|	Mg	24	275818.379	1.87	0.0896	0.003	2.818	mg/L
|	K	39	1103236.300	4.85	0.1203	0.004	2.942	mg/L
|	Ca	43	1230.201	0.01	0.0568	0.016	28.470	mg/L
|	Fe	54	19116541.985	129.52	38.3244	0.316	0.825	mg/L
|	Fe	57	8239315.689	55.88	39.1446	0.602	1.539	mg/L
⌊>	Sc-1	45	147344.466	147344.47				mg/L
	Cl	35	12887.637	3037.45				mg/L
	Kr	83	93.668	21.67				mg/L
	Br	81	5470.831	-554.32				mg/L
	P	31	29074.876	23341.87				mg/L
	S	34	109644.532	-8274.69				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.743			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.865			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.361			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.544			
⌈	Na	23					

Sample ID: L1103092505
Report Date/Time: Tuesday, March 29, 2011 14:58:29
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103092505PS WG360123-01

Sample Date/Time: Tuesday, March 29, 2011 15:03:05
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 129
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	14927.892	-0.01				ug/L
|	Be	9	13864.939	0.10	53.0004	1.116	2.105	ug/L
|	Al	27	19571492.664	135.96	4050.3263	130.410	3.220	ug/L
⌊>	Sc	45	143979.612	143979.61				ug/L
⌈	Ti	49	1270.208	0.00	2.6236	0.125	4.748	ug/L
|	V	51	402366.238	1.37	53.8885	1.869	3.468	ug/L
|	Cr	52	341815.496	1.14	52.7899	1.719	3.257	ug/L
|	Cr	53	39364.720	0.13	52.7807	2.245	4.253	ug/L
|	Mn	55	2762376.882	9.50	285.7100	6.067	2.123	ug/L
|	Co	59	466912.267	1.61	62.1520	1.157	1.861	ug/L
|	Ni	60	89996.332	0.31	56.7789	1.488	2.621	ug/L
|	Cu	65	92615.669	0.32	57.4635	1.019	1.774	ug/L
|	Zn	66	63704.663	0.22	62.0298	1.193	1.923	ug/L
|>	Ge	72	290593.826	290593.83				ug/L
|	As	75	53179.404	0.18	52.7562	1.338	2.536	ug/L
|	Se	77	4523.690	0.02	57.0256	0.703	1.233	ug/L
|	Se	82	5350.117	0.02	55.8575	1.781	3.188	ug/L
⌊	Rb	85	14125.784	0.05				mg/L
	Y	89	348167.668	132130.72				ug/L
	Rh	103	41.334	16.67				ug/L
⌈	Mo	98	95.398	0.00	0.0263	0.002	9.381	ug/L
|	Ag	107	278449.948	1.02	50.5142	1.702	3.370	ug/L
|	Cd	114	61348.861	0.22	53.1752	1.350	2.538	ug/L
|>	In	115	273711.599	273711.60				ug/L
|	Sn	118	156.935	0.00	-0.0702	0.002	3.114	ug/L
⌊	Sb	123	197040.446	0.72	52.3337	0.848	1.620	ug/L
⌈	Ba	135	82593.595	0.23	54.4181	1.420	2.609	ug/L
|	Ce	140	673156.948	1.84				ug/L
⌊>	Tb	159	366033.711	366033.71				ug/L
⌈	Ho	165	11634.595	0.04				ug/L
|	Tl	203	334714.208	1.08	50.9075	1.652	3.245	ug/L
|	Tl	205	822407.982	2.66	51.0992	1.863	3.646	ug/L
|	Pb	206	286111.007	0.92	54.1787	1.538	2.839	ug/L
|	Pb	207	252164.416	0.82	50.7913	1.300	2.560	ug/L
|	Pb	208	1158450.989	3.74	52.3494	1.380	2.636	ug/L
|	U	238	1800591.260	5.83	54.4729	1.074	1.971	ug/L
⌊>	Bi	209	309099.811	309099.81				ug/L

Sample ID: L1103092505PS WG360123-01
Report Date/Time: Tuesday, March 29, 2011 15:05:19
Page 1

Approved: March 30, 2011

⌈	Na	23	121472.070	-0.54	-0.0064	0.001	11.513	mg/L
|	Mg	24	272973.085	1.89	0.0909	0.001	1.269	mg/L
|	K	39	1090290.164	4.93	0.1224	0.007	5.387	mg/L
|	Ca	43	1110.173	0.01	0.0501	0.004	8.240	mg/L
|	Fe	54	19128610.563	132.64	39.2478	1.176	2.997	mg/L
|	Fe	57	8336779.078	57.87	40.5424	1.519	3.747	mg/L
⌊>	Sc-1	45	143979.612	143979.61				mg/L
	Cl	35	12995.106	3144.92				mg/L
	Kr	83	86.001	14.00				mg/L
	Br	81	5583.559	-441.60				mg/L
	P	31	29598.408	23865.40				mg/L
	S	34	115048.320	-2870.90				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.286			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.955			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.476			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.685			
⌈	Na	23					

Sample ID: L1103092505PS WG360123-01
Report Date/Time: Tuesday, March 29, 2011 15:05:19
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103092505PS WG360123-01
Report Date/Time: Tuesday, March 29, 2011 15:05:19
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103092505SDL WG360123-02

Sample Date/Time: Tuesday, March 29, 2011 15:09:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 130
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15478.702	0.01				ug/L
|	Be	9	35.333	0.00	0.1191	0.024	20.208	ug/L
|	Al	27	3889241.966	30.63	912.2210	55.507	6.085	ug/L
⌊>	Sc	45	127019.314	127019.31				ug/L
⌈	Ti	49	210.023	0.00	0.2717	0.121	44.636	ug/L
|	V	51	8927.652	0.02	0.8595	0.025	2.912	ug/L
|	Cr	52	8679.853	-0.00	-0.0024	0.027	1109.283	ug/L
|	Cr	53	486.727	0.00	0.3600	0.070	19.551	ug/L
|	Mn	55	423779.447	1.46	43.7229	0.500	1.144	ug/L
|	Co	59	12356.089	0.04	1.6343	0.031	1.923	ug/L
|	Ni	60	1060.400	0.00	0.5964	0.007	1.222	ug/L
|	Cu	65	924.052	0.00	0.4784	0.016	3.244	ug/L
|	Zn	66	3807.096	0.01	0.5466	0.074	13.591	ug/L
|>	Ge	72	290381.075	290381.07				ug/L
|	As	75	17.951	0.00	0.1578	0.051	32.403	ug/L
|	Se	77	68.000	0.00	-0.0831	0.109	131.527	ug/L
|	Se	82	8.090	0.00	0.1740	0.207	118.989	ug/L
⌊	Rb	85	2694.057	0.01				mg/L
	Y	89	224102.782	8065.83				ug/L
	Rh	103	12.667	-12.00				ug/L
⌈	Mo	98	35.356	0.00	0.0042	0.002	52.073	ug/L
|	Ag	107	435.014	0.00	0.0751	0.006	7.453	ug/L
|	Cd	114	8.016	0.00	0.0021	0.003	144.127	ug/L
|>	In	115	275016.665	275016.66				ug/L
|	Sn	118	86.934	-0.00	-0.0875	0.002	2.427	ug/L
⌊	Sb	123	323.118	0.00	0.0956	0.002	1.580	ug/L
⌈	Ba	135	1683.825	0.00	1.1045	0.016	1.406	ug/L
|	Ce	140	127878.533	0.36				ug/L
⌊>	Tb	159	359879.192	359879.19				ug/L
⌈	Ho	165	2327.170	0.01				ug/L
|	Tl	203	116.002	0.00	0.0248	0.002	8.357	ug/L
|	Tl	205	323.371	0.00	0.0203	0.004	18.304	ug/L
|	Pb	206	1253.758	0.00	0.1868	0.007	3.881	ug/L
|	Pb	207	930.719	0.00	0.1422	0.007	5.239	ug/L
|	Pb	208	4567.118	0.01	0.1575	0.006	3.623	ug/L
|	U	238	1466.789	0.00	0.0409	0.002	4.553	ug/L
⌊>	Bi	209	315636.001	315636.00				ug/L

Approved: March 30, 2011

⌈	Na	23	34827.367	-1.11	-0.0261	0.000	1.620	mg/L
|	Mg	24	54114.793	0.42	0.0168	0.001	7.764	mg/L
|	K	39	483594.881	1.18	0.0247	0.007	29.015	mg/L
|	Ca	43	460.057	0.00	0.0069	0.004	56.958	mg/L
|	Fe	54	3632409.002	28.40	8.4005	0.345	4.110	mg/L
|	Fe	57	1573950.359	12.36	8.6552	0.414	4.779	mg/L
⌊>	Sc-1	45	127019.314	127019.31				mg/L
	Cl	35	10460.136	609.95				mg/L
	Kr	83	66.334	-5.67				mg/L
	Br	81	5296.070	-729.08				mg/L
	P	31	7961.169	2228.16				mg/L
	S	34	113408.928	-4510.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		92.218			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.389			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.854			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.750			
⌈	Na	23					

Sample ID: L1103092505SDL WG360123-02
Report Date/Time: Tuesday, March 29, 2011 15:12:11
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103092505SDL WG360123-02
Report Date/Time: Tuesday, March 29, 2011 15:12:11

Approved: March 30, 2011

Data not used- autosampler sent to wrong location.

Method 6020 - Summary Report

Sample ID: L1103061232

Sample Date/Time: Tuesday, March 29, 2011 15:16:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 59
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21206.285	0.03				ug/L
|	Be	9	18.667	0.00	0.0373	0.034	92.033	ug/L
|	Al	27	2083.560	-0.03	-1.2863	0.062	4.822	ug/L
⌊>	Sc	45	154668.804	154668.80				ug/L
⌈	Ti	49	30.003	-0.00	-0.1424	0.003	2.227	ug/L
|	V	51	1701.473	-0.01	-0.1624	0.015	9.397	ug/L
|	Cr	52	5364.827	-0.02	-0.7036	0.038	5.355	ug/L
|	Cr	53	133.348	-0.00	-0.1563	0.046	29.475	ug/L
|	Mn	55	952.722	0.00	-0.0911	0.001	1.104	ug/L
|	Co	59	124.669	-0.00	0.0011	0.002	141.496	ug/L
|	Ni	60	58.001	-0.00	-0.0450	0.001	2.690	ug/L
|	Cu	65	116.002	-0.00	-0.0387	0.012	32.072	ug/L
|	Zn	66	208.671	-0.00	-3.1946	0.025	0.792	ug/L
|>	Ge	72	366464.328	366464.33				ug/L
|	As	75	-126.437	0.00	0.0392	0.051	129.224	ug/L
|	Se	77	60.000	-0.00	-0.3406	0.139	40.748	ug/L
|	Se	82	-7.766	-0.00	0.0219	0.204	933.341	ug/L
⌊	Rb	85	37.667	-0.00				mg/L
	Y	89	249984.316	33947.37				ug/L
	Rh	103	20.334	-4.33				ug/L
⌈	Mo	98	21.246	-0.00	-0.0028	0.002	89.808	ug/L
|	Ag	107	404.012	0.00	0.0520	0.010	18.448	ug/L
|	Cd	114	-8.755	-0.00	-0.0106	0.002	20.262	ug/L
|>	In	115	364597.681	364597.68				ug/L
|	Sn	118	81.600	-0.00	-0.0937	0.002	2.400	ug/L
⌊	Sb	123	100.526	0.00	0.0305	0.005	16.144	ug/L
⌈	Ba	135	25.667	-0.00	-0.0126	0.002	18.410	ug/L
|	Ce	140	43.338	-0.00				ug/L
⌊>	Tb	159	531949.653	531949.65				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	34.000	-0.00	0.0117	0.001	5.511	ug/L
|	Tl	205	80.008	0.00	0.0049	0.003	59.104	ug/L
|	Pb	206	366.344	0.00	0.0105	0.002	17.196	ug/L
|	Pb	207	312.675	-0.00	0.0098	0.007	73.142	ug/L
|	Pb	208	1384.051	0.00	0.0060	0.002	39.247	ug/L
|	U	238	38.000	0.00	-0.0016	0.000	10.396	ug/L
⌊>	Bi	209	381561.248	381561.25				ug/L

Sample ID: L1103061232
Report Date/Time: Tuesday, March 29, 2011 15:18:56
Page 1

Approved: March 30, 2011

Na	23	7543.642	-1.33	-0.0339	0.000	0.597	mg/L
Mg	24	110.012	-0.00	-0.0047	0.000	0.297	mg/L
K	39	240773.091	-1.04	-0.0328	0.007	22.085	mg/L
Ca	43	290.033	-0.00	-0.0107	0.006	52.005	mg/L
Fe	54	164384.987	0.87	0.2535	0.067	26.572	mg/L
Fe	57	3644.364	-0.03	-0.0211	0.004	16.665	mg/L
Sc-1	45	154668.804	154668.80				mg/L
Cl	35	5264.063	-4586.12				mg/L
Kr	83	471.349	399.35				mg/L
Br	81	3522.625	-2502.53				mg/L
P	31	12226.229	6493.22				mg/L
S	34	57511.245	-60407.97				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
Ge	72		116.380			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
In	115		121.157			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
Tb	159		140.207			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
Bi	209		120.585			
Na	23					

Sample ID: L1103061232
Report Date/Time: Tuesday, March 29, 2011 15:18:56
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
In 115 Int Std for sam	In	115	Rerun for AFCEE sample
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample
Bi 209 Int Std for sam	Bi	209	Rerun for AFCEE sample

Approved: March 30, 2011

Data not used- autosampler sent to wrong location.

Method 6020 - Summary Report

Sample ID: L1103061232PS WG360220-01

Sample Date/Time: Tuesday, March 29, 2011 15:23:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 60
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	21423.128	0.01				ug/L
|	Be	9	16.667	-0.00	0.0203	0.012	61.647	ug/L
|	Al	27	1316.755	-0.04	-1.4463	0.104	7.222	ug/L
⌊>	Sc	45	173003.652	173003.65				ug/L
⌈	Ti	49	36.670	-0.00	-0.1311	0.047	36.184	ug/L
|	V	51	1702.620	0.01	-0.1596	0.005	3.092	ug/L
|	Cr	52	5454.877	-0.02	-0.6815	0.029	4.278	ug/L
|	Cr	53	180.020	-0.00	-0.1016	0.012	11.434	ug/L
|	Mn	55	889.715	0.00	-0.0949	0.002	2.604	ug/L
|	Co	59	144.002	0.00	0.0034	0.001	38.861	ug/L
|	Ni	60	55.001	-0.00	-0.0460	0.004	8.554	ug/L
|	Cu	65	94.001	-0.00	-0.0491	0.008	15.495	ug/L
|	Zn	66	188.337	-0.00	-3.2087	0.024	0.742	ug/L
|>	Ge	72	360405.875	360405.87				ug/L
|	As	75	-164.409	0.00	0.0071	0.092	1293.723	ug/L
|	Se	77	54.000	-0.00	-0.3991	0.149	37.450	ug/L
|	Se	82	-8.247	-0.00	0.0154	0.310	2016.756	ug/L
⌊	Rb	85	33.334	-0.00				mg/L
	Y	89	258930.002	42893.05				ug/L
	Rh	103	17.667	-7.00				ug/L
⌈	Mo	98	21.616	-0.00	-0.0027	0.001	43.532	ug/L
|	Ag	107	203.004	0.00	0.0249	0.011	42.552	ug/L
|	Cd	114	-3.400	0.00	-0.0072	0.003	43.657	ug/L
|>	In	115	363448.606	363448.61				ug/L
|	Sn	118	74.667	-0.00	-0.0949	0.002	1.668	ug/L
⌊	Sb	123	61.360	0.00	0.0228	0.005	22.882	ug/L
⌈	Ba	135	23.667	-0.00	-0.0123	0.004	30.301	ug/L
|	Ce	140	16.668	-0.00				ug/L
⌊>	Tb	159	472972.974	472972.97				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	35.000	-0.00	0.0115	0.001	6.965	ug/L
|	Tl	205	53.339	0.00	0.0032	0.002	54.555	ug/L
|	Pb	206	361.343	0.00	0.0063	0.005	78.381	ug/L
|	Pb	207	304.674	-0.00	0.0050	0.003	57.464	ug/L
|	Pb	208	1401.052	-0.00	0.0033	0.002	71.395	ug/L
|	U	238	36.334	0.00	-0.0017	0.000	4.899	ug/L
⌊>	Bi	209	407028.541	407028.54				ug/L

Approved: March 30, 2011

Erin D. Long

Na	23	7106.573	-1.34	-0.0341	0.000	1.428	mg/L
Mg	24	126.680	-0.00	-0.0047	0.000	0.575	mg/L
K	39	243282.213	-1.18	-0.0367	0.008	21.945	mg/L
Ca	43	276.698	-0.00	-0.0133	0.008	60.996	mg/L
Fe	54	161722.346	0.74	0.2162	0.076	35.285	mg/L
Fe	57	3354.231	-0.03	-0.0240	0.004	16.633	mg/L
> Sc-1	45	173003.652	173003.65				mg/L
Cl	35	5397.460	-4452.72				mg/L
Kr	83	488.350	416.35				mg/L
Br	81	3635.330	-2389.82				mg/L
P	31	13159.335	7426.33				mg/L
S	34	58298.360	-59620.86				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		114.456			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		120.775			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		124.663			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		128.633			
Na	23					

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 15:25:42
Page 2

Approved: March 30, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
In 115 Int Std for sam	In	115	Rerun for AFCEE sample
Tb 159 Int Std for sam	Tb	159	Rerun for AFCEE sample
Bi 209 Int Std for sam	Bi	209	Rerun for AFCEE sample

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 15:25:42
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061232

Sample Date/Time: Tuesday, March 29, 2011 15:31:13
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 69
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15929.413	0.01				ug/L
|	Be	9	43.333	0.00	0.1462	0.010	6.766	ug/L
|	Al	27	8100835.294	61.32	1826.5701	64.737	3.544	ug/L
⌊>	Sc	45	132084.249	132084.25				ug/L
⌈	Ti	49	12235.370	0.04	27.1553	0.285	1.050	ug/L
|	V	51	51845.047	0.17	6.6965	0.172	2.574	ug/L
|	Cr	52	26306.487	0.06	2.8212	0.048	1.710	ug/L
|	Cr	53	2483.892	0.01	3.0777	0.278	9.019	ug/L
|	Mn	55	932675.814	3.23	97.0761	1.056	1.088	ug/L
|	Co	59	18899.032	0.07	2.5228	0.011	0.417	ug/L
|	Ni	60	4210.595	0.01	2.6057	0.041	1.579	ug/L
|	Cu	65	8021.296	0.03	4.9262	0.083	1.685	ug/L
|	Zn	66	14824.130	0.05	11.9663	0.298	2.493	ug/L
|>	Ge	72	288470.522	288470.52				ug/L
|	As	75	1735.793	0.01	1.8702	0.036	1.917	ug/L
|	Se	77	61.334	-0.00	-0.1636	0.121	73.716	ug/L
|	Se	82	4.684	0.00	0.1394	0.150	107.282	ug/L
⌊	Rb	85	15071.503	0.05				mg/L
	Y	89	220172.682	4135.73				ug/L
	Rh	103	17.667	-7.00				ug/L
⌈	Mo	98	121.992	0.00	0.0361	0.003	8.193	ug/L
|	Ag	107	991.059	0.00	0.1769	0.008	4.365	ug/L
|	Cd	114	29.411	0.00	0.0208	0.013	61.591	ug/L
|>	In	115	272973.678	272973.68				ug/L
|	Sn	118	157.868	0.00	-0.0699	0.003	3.609	ug/L
⌊	Sb	123	80.735	0.00	0.0317	0.003	10.086	ug/L
⌈	Ba	135	36663.132	0.10	25.0100	0.556	2.223	ug/L
|	Ce	140	91495.968	0.26				ug/L
⌊>	Tb	159	353340.683	353340.68				ug/L
⌈	Ho	165	1897.038	0.01				ug/L
|	Tl	203	152.003	0.00	0.0302	0.001	4.883	ug/L
|	Tl	205	303.368	0.00	0.0191	0.001	6.305	ug/L
|	Pb	206	17762.940	0.06	3.2575	0.040	1.231	ug/L
|	Pb	207	15291.503	0.05	2.9832	0.045	1.512	ug/L
|	Pb	208	71149.247	0.22	3.1128	0.028	0.888	ug/L
|	U	238	7589.955	0.02	0.2228	0.001	0.559	ug/L
⌊>	Bi	209	314959.937	314959.94				ug/L

Sample ID: L1103061232
Report Date/Time: Tuesday, March 29, 2011 15:33:27
Page 1

Approved: March 30, 2011

⌈	Na	23	158353.149	-0.18	0.0059	0.001	21.232	mg/L
|	Mg	24	1824649.452	13.83	0.6925	0.035	5.010	mg/L
|	K	39	1986832.313	12.42	0.3170	0.013	4.232	mg/L
|	Ca	43	8504.465	0.06	0.6518	0.024	3.617	mg/L
|	Fe	54	1723094.131	12.83	3.7932	0.176	4.652	mg/L
|	Fe	57	703406.785	5.28	3.6975	0.167	4.505	mg/L
⌊>	Sc-1	45	132084.249	132084.25				mg/L
	Cl	35	10177.844	327.66				mg/L
	Kr	83	74.668	2.67				mg/L
	Br	81	5525.527	-499.63				mg/L
	P	31	46214.546	40481.54				mg/L
	S	34	100745.788	-17173.43				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.611			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.710			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.131			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.537			
⌈	Na	23					

Sample ID: L1103061232
Report Date/Time: Tuesday, March 29, 2011 15:33:27
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
_>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103061232PS WG360220-01

Sample Date/Time: Tuesday, March 29, 2011 15:38:03
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 70
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16079.596	0.01				ug/L
|	Be	9	14237.463	0.11	58.5363	2.036	3.479	ug/L
|	Al	27	8182573.945	61.12	1820.7413	110.877	6.090	ug/L
⌊>	Sc	45	133890.656	133890.66				ug/L
⌈	Ti	49	12028.432	0.04	26.1749	0.031	0.118	ug/L
|	V	51	407378.105	1.38	53.9186	0.568	1.053	ug/L
|	Cr	52	339522.641	1.12	51.7912	0.411	0.794	ug/L
|	Cr	53	39823.124	0.13	52.7745	1.321	2.503	ug/L
|	Mn	55	1417413.781	4.82	144.7738	0.919	0.634	ug/L
|	Co	59	410893.861	1.40	54.0428	0.329	0.609	ug/L
|	Ni	60	88047.477	0.30	54.8860	0.132	0.241	ug/L
|	Cu	65	95217.238	0.32	58.3706	0.681	1.167	ug/L
|	Zn	66	72649.361	0.25	70.3230	0.659	0.937	ug/L
|>	Ge	72	294127.707	294127.71				ug/L
|	As	75	55378.888	0.19	54.2798	0.590	1.086	ug/L
|	Se	77	4591.054	0.02	57.1947	1.611	2.818	ug/L
|	Se	82	5724.157	0.02	59.0426	0.488	0.826	ug/L
⌊	Rb	85	15144.611	0.05				mg/L
	Y	89	224899.819	8862.87				ug/L
	Rh	103	42.001	17.33				ug/L
⌈	Mo	98	145.472	0.00	0.0439	0.002	5.661	ug/L
|	Ag	107	280750.844	1.01	50.2811	0.423	0.841	ug/L
|	Cd	114	60932.621	0.22	52.1434	0.955	1.831	ug/L
|>	In	115	277272.766	277272.77				ug/L
|	Sn	118	183.202	0.00	-0.0644	0.001	2.090	ug/L
⌊	Sb	123	192317.570	0.69	50.4276	0.477	0.946	ug/L
⌈	Ba	135	109474.056	0.30	73.0235	0.374	0.512	ug/L
|	Ce	140	91970.179	0.25				ug/L
⌊>	Tb	159	361560.994	361560.99				ug/L
⌈	Ho	165	1743.660	0.01				ug/L
|	Tl	203	332058.040	1.04	49.0098	0.360	0.734	ug/L
|	Tl	205	815023.298	2.56	49.1432	0.868	1.767	ug/L
|	Pb	206	297769.607	0.93	54.7215	0.545	0.997	ug/L
|	Pb	207	262764.923	0.82	51.3659	0.812	1.580	ug/L
|	Pb	208	1212157.415	3.80	53.1602	0.512	0.963	ug/L
|	U	238	1823099.015	5.72	53.5275	0.201	0.376	ug/L
⌊>	Bi	209	318464.167	318464.17				ug/L

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 15:40:16
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	157141.362	-0.21	0.0051	0.002	39.353	mg/L	
Mg	24	1887528.497	14.10	0.7060	0.037	5.267	mg/L	
K	39	1962142.074	12.02	0.3067	0.008	2.766	mg/L	
Ca	43	7867.214	0.06	0.5916	0.014	2.439	mg/L	
Fe	54	1672759.019	12.27	3.6264	0.096	2.654	mg/L	
Fe	57	694352.949	5.14	3.5965	0.097	2.704	mg/L	
> Sc-1	45	133890.656	133890.66				mg/L	
Cl	35	10374.045	523.86				mg/L	
Kr	83	66.334	-5.67				mg/L	
Br	81	5559.546	-465.61				mg/L	
P	31	45437.030	39704.03				mg/L	
S	34	102431.955	-15487.26				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		93.408			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		92.138			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		95.298			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		100.644			
Na	23					

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 15:40:16
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103061232PS WG360220-01
Report Date/Time: Tuesday, March 29, 2011 15:40:16
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 15:44:51
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15495.357	0.00				ug/L
|	Be	9	13126.610	0.10	54.0558	1.988	3.678	ug/L
|	Al	27	226947.665	1.66	48.9601	3.392	6.929	ug/L
|>	Sc	45	133739.402	133739.40				ug/L
⌈	Ti	49	44081.345	0.15	96.5083	0.870	0.901	ug/L
|	V	51	367134.662	1.24	48.5859	0.580	1.194	ug/L
|	Cr	52	328297.641	1.08	50.0636	0.280	0.559	ug/L
|	Cr	53	37069.011	0.12	49.1219	1.617	3.292	ug/L
|	Mn	55	498906.478	1.70	50.8820	0.665	1.308	ug/L
|	Co	59	394840.287	1.34	51.9632	0.620	1.194	ug/L
|	Ni	60	82800.543	0.28	51.6443	0.444	0.859	ug/L
|	Cu	65	85866.960	0.29	52.6663	0.559	1.062	ug/L
|	Zn	66	53069.981	0.18	50.4997	0.613	1.214	ug/L
|>	Ge	72	293942.179	293942.18				ug/L
|	As	75	49999.050	0.17	49.0522	0.714	1.455	ug/L
|	Se	77	4112.846	0.01	51.1675	1.353	2.645	ug/L
|	Se	82	4954.364	0.02	51.1449	0.433	0.846	ug/L
⌊	Rb	85	2010.889	0.01				mg/L
	Y	89	201932.032	-14104.92				ug/L
	Rh	103	31.667	7.00				ug/L
⌈	Mo	98	281231.548	1.01	100.9854	0.877	0.869	ug/L
|	Ag	107	270636.703	0.97	48.1340	0.171	0.354	ug/L
|	Cd	114	58470.577	0.21	49.6869	0.228	0.459	ug/L
|>	In	115	279204.559	279204.56				ug/L
|	Sn	118	212250.918	0.76	50.9908	0.162	0.317	ug/L
⌊	Sb	123	193524.193	0.69	50.3914	0.251	0.499	ug/L
⌈	Ba	135	73721.817	0.21	49.4766	0.369	0.745	ug/L
|	Ce	140	46.671	0.00				ug/L
|>	Tb	159	359306.574	359306.57				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	325166.438	1.05	49.4889	0.338	0.683	ug/L
|	Tl	205	801846.735	2.60	49.8532	0.205	0.412	ug/L
|	Pb	206	265432.808	0.86	50.2953	0.521	1.036	ug/L
|	Pb	207	246839.871	0.80	49.7533	0.077	0.155	ug/L
|	Pb	208	1106108.488	3.58	50.0182	0.114	0.228	ug/L
|	U	238	1812455.610	5.87	54.8754	0.390	0.710	ug/L
|>	Bi	209	308825.593	308825.59				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 15:47:03
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	19146397.504	141.98	4.9294	0.249	5.058	mg/L
|	Mg	24	12892023.158	96.52	4.8598	0.228	4.696	mg/L
|	K	39	25904257.049	191.42	4.9717	0.350	7.048	mg/L
|	Ca	43	62477.537	0.47	4.9273	0.220	4.470	mg/L
|	Fe	54	2316902.680	17.11	5.0605	0.216	4.263	mg/L
|	Fe	57	1005814.815	7.48	5.2354	0.161	3.074	mg/L
⌊>	Sc-1	45	133739.402	133739.40				mg/L
	Cl	35	10196.531	346.35				mg/L
	Kr	83	70.668	-1.33				mg/L
	Br	81	5661.606	-363.55				mg/L
	P	31	4803.822	-929.18				mg/L
	S	34	122634.513	4715.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	97.172				
|	Cr	52	100.127				
|	Cr	53					
|	Mn	55	101.764				
|	Co	59	103.926				
|	Ni	60	103.289				
|	Cu	65	105.333				
|	Zn	66	100.999				
|>	Ge	72		93.349			
|	As	75	98.104				
|	Se	77					
|	Se	82	102.290				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	96.268				
|	Cd	114	99.374				
|>	In	115		92.780			
|	Sn	118					
⌊	Sb	123	100.783				
⌈	Ba	135	98.953				
|	Ce	140					
⌊>	Tb	159		94.703			
⌈	Ho	165					
|	Tl	203	98.978				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	100.036				
|	U	238	109.751				
⌊>	Bi	209		97.598			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 15:47:03

Approved: March 30, 2011

Erin D. Long

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 15:47:03

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 15:51:36
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17214.822	0.02				ug/L
|	Be	9	17.333	0.00	0.0366	0.027	72.444	ug/L
|	Al	27	4951.262	-0.01	-0.5775	0.242	41.881	ug/L
⌊>	Sc	45	132810.405	132810.41				ug/L
⌈	Ti	49	43.338	-0.00	-0.1006	0.055	54.942	ug/L
|	V	51	2153.594	-0.00	-0.0591	0.004	6.636	ug/L
|	Cr	52	7130.613	-0.01	-0.2668	0.018	6.878	ug/L
|	Cr	53	206.689	-0.00	-0.0227	0.029	126.922	ug/L
|	Mn	55	434.014	-0.00	-0.1251	0.003	2.596	ug/L
|	Co	59	87.668	-0.00	-0.0006	0.001	244.986	ug/L
|	Ni	60	84.668	-0.00	-0.0215	0.004	17.826	ug/L
|	Cu	65	163.336	0.00	0.0036	0.006	170.509	ug/L
|	Zn	66	430.680	-0.00	-2.9299	0.023	0.782	ug/L
|>	Ge	72	295243.354	295243.35				ug/L
|	As	75	-129.939	0.00	0.0137	0.035	252.981	ug/L
|	Se	77	67.334	0.00	-0.1062	0.067	63.383	ug/L
|	Se	82	7.446	0.00	0.1662	0.092	55.101	ug/L
⌊	Rb	85	28.334	-0.00				mg/L
	Y	89	206837.797	-9199.15				ug/L
	Rh	103	14.333	-10.33				ug/L
⌈	Mo	98	125.025	0.00	0.0355	0.014	38.094	ug/L
|	Ag	107	228.338	0.00	0.0366	0.004	9.957	ug/L
|	Cd	114	7.682	0.00	0.0016	0.003	157.199	ug/L
|>	In	115	283384.547	283384.55				ug/L
|	Sn	118	233.603	0.00	-0.0534	0.006	11.567	ug/L
⌊	Sb	123	246.819	0.00	0.0735	0.000	0.447	ug/L
⌈	Ba	135	38.334	-0.00	0.0011	0.004	339.075	ug/L
|	Ce	140	36.670	0.00				ug/L
⌊>	Tb	159	363708.648	363708.65				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	60.667	0.00	0.0165	0.001	7.225	ug/L
|	Tl	205	166.685	0.00	0.0108	0.006	56.706	ug/L
|	Pb	206	287.007	0.00	0.0075	0.003	34.612	ug/L
|	Pb	207	278.007	0.00	0.0134	0.002	16.736	ug/L
|	Pb	208	1211.708	0.00	0.0089	0.002	19.989	ug/L
|	U	238	197.671	0.00	0.0033	0.001	40.039	ug/L
⌊>	Bi	209	315198.612	315198.61				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 15:53:47
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	107441.498	-0.57	-0.0076	0.001	12.410	mg/L
|	Mg	24	1126.847	0.01	-0.0043	0.000	2.823	mg/L
|	K	39	343545.774	-0.05	-0.0072	0.002	28.634	mg/L
|	Ca	43	320.037	-0.00	-0.0061	0.005	85.888	mg/L
|	Fe	54	32686.041	0.02	0.0008	0.004	556.661	mg/L
|	Fe	57	6192.541	-0.00	-0.0055	0.001	21.639	mg/L
⌊>	Sc-1	45	132810.405	132810.41				mg/L
	Cl	35	9931.598	81.41				mg/L
	Kr	83	63.668	-8.33				mg/L
	Br	81	5776.335	-248.82				mg/L
	P	31	5583.563	-149.44				mg/L
	S	34	113584.190	-4335.03				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		93.762			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.169			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.864			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.612			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 15:53:47

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 15:53:47
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: PBW 58 WG359134-02

Sample Date/Time: Tuesday, March 29, 2011 16:27:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 95
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17515.354	0.02				ug/L
|	Be	9	16.667	0.00	0.0324	0.033	101.147	ug/L
|	Al	27	19719.433	0.10	2.6218	0.155	5.904	ug/L
⌊>	Sc	45	136322.991	136322.99				ug/L
⌈	Ti	49	96.677	0.00	0.0114	0.063	552.922	ug/L
|	V	51	2424.608	-0.00	-0.0303	0.015	49.098	ug/L
|	Cr	52	8929.408	-0.00	-0.0171	0.017	97.796	ug/L
|	Cr	53	340.040	0.00	0.1439	0.069	47.905	ug/L
|	Mn	55	2498.004	0.01	0.0796	0.004	5.508	ug/L
|	Co	59	113.668	-0.00	0.0025	0.002	63.739	ug/L
|	Ni	60	168.336	0.00	0.0282	0.004	12.941	ug/L
|	Cu	65	584.023	0.00	0.2530	0.006	2.368	ug/L
|	Zn	66	2830.096	0.01	-0.5691	0.036	6.333	ug/L
|>	Ge	72	301940.515	301940.52				ug/L
|	As	75	-135.217	0.00	0.0114	0.009	78.347	ug/L
|	Se	77	66.667	0.00	-0.1327	0.124	93.102	ug/L
|	Se	82	6.107	0.00	0.1514	0.026	17.162	ug/L
⌊	Rb	85	72.334	0.00				mg/L
	Y	89	209557.026	-6479.92				ug/L
	Rh	103	20.334	-4.33				ug/L
⌈	Mo	98	33.137	0.00	0.0029	0.002	62.162	ug/L
|	Ag	107	1042.732	0.00	0.1769	0.017	9.503	ug/L
|	Cd	114	2.384	0.00	-0.0029	0.005	158.820	ug/L
|>	In	115	287253.341	287253.34				ug/L
|	Sn	118	481.745	0.00	0.0040	0.004	104.896	ug/L
⌊	Sb	123	131.825	0.00	0.0436	0.001	3.175	ug/L
⌈	Ba	135	107.002	0.00	0.0452	0.003	7.087	ug/L
|	Ce	140	810.114	0.00				ug/L
⌊>	Tb	159	370854.580	370854.58				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	33.000	0.00	0.0123	0.001	5.275	ug/L
|	Tl	205	63.340	0.00	0.0044	0.002	43.492	ug/L
|	Pb	206	555.688	0.00	0.0548	0.007	12.936	ug/L
|	Pb	207	480.683	0.00	0.0510	0.002	3.663	ug/L
|	Pb	208	2194.116	0.00	0.0500	0.002	3.501	ug/L
|	U	238	78.334	0.00	-0.0003	0.000	88.708	ug/L
⌊>	Bi	209	323389.393	323389.39				ug/L

Sample ID: PBW 58 WG359134-02
Report Date/Time: Tuesday, March 29, 2011 16:29:56
Page 1

Approved: March 30, 2011

⌈	Na	23	72650.320	-0.85	-0.0172	0.000	2.796	mg/L
|	Mg	24	16391.728	0.12	0.0014	0.000	5.078	mg/L
|	K	39	360857.849	0.01	-0.0056	0.001	12.449	mg/L
|	Ca	43	553.404	0.00	0.0115	0.004	34.901	mg/L
|	Fe	54	68158.181	0.27	0.0758	0.004	5.018	mg/L
|	Fe	57	7600.315	0.01	0.0009	0.001	121.741	mg/L
⌊>	Sc-1	45	136322.991	136322.99				mg/L
	Cl	35	20565.796	10715.61				mg/L
	Kr	83	64.334	-7.67				mg/L
	Br	81	6420.727	395.57				mg/L
	P	31	11890.468	6157.46				mg/L
	S	34	109147.932	-8771.29				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.889			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.455			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.747			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		102.201			
⌈	Na	23					

Sample ID: PBW 58 WG359134-02
Report Date/Time: Tuesday, March 29, 2011 16:29:56

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 58 WG359134-02
Report Date/Time: Tuesday, March 29, 2011 16:29:56
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: LCSW 58 WG359134-03

Sample Date/Time: Tuesday, March 29, 2011 16:34:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 96
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17381.763	0.01				ug/L
|	Be	9	6528.798	0.05	25.5245	1.206	4.725	ug/L
|	Al	27	126580.254	0.86	25.1563	2.073	8.239	ug/L
⌊>	Sc	45	140768.214	140768.21				ug/L
⌈	Ti	49	136.681	0.00	0.0962	0.045	47.236	ug/L
|	V	51	192850.687	0.63	24.6386	0.326	1.324	ug/L
|	Cr	52	176952.930	0.55	25.5714	0.430	1.680	ug/L
|	Cr	53	19357.330	0.06	24.7884	0.737	2.975	ug/L
|	Mn	55	266689.764	0.88	26.3553	0.252	0.957	ug/L
|	Co	59	209693.694	0.69	26.8178	0.392	1.463	ug/L
|	Ni	60	44720.560	0.15	27.0758	0.311	1.149	ug/L
|	Cu	65	45734.806	0.15	27.2186	0.212	0.778	ug/L
|	Zn	66	27598.646	0.09	23.8616	0.439	1.839	ug/L
| >	Ge	72	302417.108	302417.11				ug/L
|	As	75	23717.157	0.08	22.6902	0.100	0.439	ug/L
|	Se	77	1730.817	0.01	20.3668	1.093	5.368	ug/L
|	Se	82	2107.389	0.01	21.1972	0.246	1.161	ug/L
⌊	Rb	85	70.334	0.00				mg/L
	Y	89	206834.276	-9202.67				ug/L
	Rh	103	30.667	6.00				ug/L
⌈	Mo	98	49.060	0.00	0.0085	0.003	32.700	ug/L
|	Ag	107	96893.491	0.34	16.7983	0.325	1.934	ug/L
|	Cd	114	27771.109	0.10	23.0023	0.371	1.613	ug/L
| >	In	115	286420.691	286420.69				ug/L
|	Sn	118	261.203	0.00	-0.0475	0.002	4.362	ug/L
⌊	Sb	123	92897.193	0.32	23.5857	0.140	0.594	ug/L
⌈	Ba	135	37693.617	0.10	24.4934	0.156	0.639	ug/L
|	Ce	140	273.364	0.00				ug/L
⌊>	Tb	159	370908.639	370908.64				ug/L
⌈	Ho	165	43.338	0.00				ug/L
|	Tl	203	170371.625	0.52	24.5585	0.281	1.144	ug/L
|	Tl	205	423574.820	1.30	24.9372	0.189	0.760	ug/L
|	Pb	206	144462.779	0.44	25.9007	0.226	0.874	ug/L
|	Pb	207	127181.596	0.39	24.2562	0.311	1.283	ug/L
|	Pb	208	587383.523	1.80	25.1331	0.363	1.445	ug/L
|	U	238	945489.670	2.90	27.1097	0.417	1.539	ug/L
⌊>	Bi	209	326130.616	326130.62				ug/L

Sample ID: LCSW 58 WG359134-03
Report Date/Time: Tuesday, March 29, 2011 16:36:43
Page 1

Approved: March 30, 2011

⌈	Na	23	66645.083	-0.91	-0.0192	0.001	2.894	mg/L
|	Mg	24	11370.938	0.08	-0.0006	0.000	41.808	mg/L
|	K	39	336816.175	-0.24	-0.0122	0.003	27.449	mg/L
|	Ca	43	446.721	0.00	0.0021	0.003	150.750	mg/L
|	Fe	54	68209.659	0.25	0.0714	0.008	10.863	mg/L
|	Fe	57	7206.652	0.00	-0.0023	0.002	93.184	mg/L
⌊>	Sc-1	45	140768.214	140768.21				mg/L
	Cl	35	29591.739	19741.56				mg/L
	Kr	83	61.334	-10.67				mg/L
	Br	81	6893.711	868.56				mg/L
	P	31	10488.238	4755.23				mg/L
	S	34	104487.071	-13432.15				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		96.041			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		95.178			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		97.761			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.067			
⌈	Na	23					

Sample ID: LCSW 58 WG359134-03
Report Date/Time: Tuesday, March 29, 2011 16:36:43
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 58 WG359134-03
Report Date/Time: Tuesday, March 29, 2011 16:36:43
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: FLT BLK WG359134-06

Sample Date/Time: Tuesday, March 29, 2011 16:41:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 97
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18600.657	0.02				ug/L
|	Be	9	16.667	0.00	0.0324	0.029	88.614	ug/L
|	Al	27	13892.999	0.06	1.3294	0.214	16.108	ug/L
⌊>	Sc	45	137218.474	137218.47				ug/L
⌈	Ti	49	50.005	-0.00	-0.0881	0.057	65.051	ug/L
|	V	51	2340.714	-0.00	-0.0403	0.005	13.581	ug/L
|	Cr	52	9396.508	-0.00	0.0580	0.009	15.049	ug/L
|	Cr	53	363.376	0.00	0.1757	0.061	34.600	ug/L
|	Mn	55	1725.166	0.00	0.0030	0.005	179.346	ug/L
|	Co	59	122.002	0.00	0.0036	0.001	40.599	ug/L
|	Ni	60	222.338	0.00	0.0615	0.004	6.626	ug/L
|	Cu	65	240.339	0.00	0.0477	0.009	18.159	ug/L
|	Zn	66	3449.296	0.01	0.0523	0.010	19.687	ug/L
| >	Ge	72	301111.570	301111.57				ug/L
|	As	75	-139.682	0.00	0.0067	0.047	697.346	ug/L
|	Se	77	68.667	0.00	-0.1074	0.116	108.164	ug/L
|	Se	82	7.861	0.00	0.1690	0.088	51.924	ug/L
⌊	Rb	85	48.001	0.00				mg/L
	Y	89	208553.131	-7483.82				ug/L
	Rh	103	16.000	-8.67				ug/L
⌈	Mo	98	40.617	0.00	0.0056	0.004	64.523	ug/L
|	Ag	107	524.019	0.00	0.0878	0.002	1.978	ug/L
|	Cd	114	-2.892	0.00	-0.0072	0.002	29.744	ug/L
| >	In	115	285173.201	285173.20				ug/L
|	Sn	118	339.872	0.00	-0.0287	0.004	13.859	ug/L
⌊	Sb	123	191.948	0.00	0.0591	0.006	10.970	ug/L
⌈	Ba	135	116.002	0.00	0.0504	0.012	23.174	ug/L
|	Ce	140	90.009	0.00				ug/L
⌊>	Tb	159	374909.792	374909.79				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	39.334	0.00	0.0132	0.002	11.917	ug/L
|	Tl	205	70.007	0.00	0.0048	0.002	34.248	ug/L
|	Pb	206	355.343	0.00	0.0179	0.002	9.527	ug/L
|	Pb	207	314.008	0.00	0.0183	0.003	17.338	ug/L
|	Pb	208	1400.385	0.00	0.0152	0.002	10.530	ug/L
|	U	238	186.670	0.00	0.0028	0.002	76.028	ug/L
⌊>	Bi	209	326293.225	326293.23				ug/L

Sample ID: FLT BLK WG359134-06
Report Date/Time: Tuesday, March 29, 2011 16:43:31
Page 1

Approved: March 30, 2011

⌈	Na	23	53320.445	-0.99	-0.0222	0.000	0.182	mg/L
|	Mg	24	13997.872	0.10	0.0004	0.000	51.959	mg/L
|	K	39	340522.062	-0.16	-0.0099	0.001	7.476	mg/L
|	Ca	43	486.727	0.00	0.0060	0.004	70.185	mg/L
|	Fe	54	75327.276	0.32	0.0903	0.006	6.285	mg/L
|	Fe	57	7103.234	0.00	-0.0019	0.002	84.793	mg/L
⌊>	Sc-1	45	137218.474	137218.47				mg/L
	Cl	35	20753.521	10903.34				mg/L
	Kr	83	54.334	-17.67				mg/L
	Br	81	6953.087	927.93				mg/L
	P	31	13491.838	7758.83				mg/L
	S	34	109365.634	-8553.59				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		95.626			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		94.764			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		98.816			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.118			
⌈	Na	23					

Sample ID: FLT BLK WG359134-06
Report Date/Time: Tuesday, March 29, 2011 16:43:31
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: FLT BLK WG359134-06
Report Date/Time: Tuesday, March 29, 2011 16:43:31
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103043602

Sample Date/Time: Tuesday, March 29, 2011 16:48:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 98
Method File: C:\elandata\Method\6020a.mth
Sample Description: 4

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17498.719	0.02				ug/L
|	Be	9	10.667	-0.00	0.0101	0.005	50.373	ug/L
|	Al	27	173679.528	1.28	37.8161	3.127	8.269	ug/L
⌊>	Sc	45	131341.799	131341.80				ug/L
⌈	Ti	49	240.027	0.00	0.3524	0.085	24.097	ug/L
|	V	51	2756.035	-0.00	0.0368	0.009	25.632	ug/L
|	Cr	52	12196.558	0.01	0.6066	0.026	4.274	ug/L
|	Cr	53	696.761	0.00	0.6685	0.051	7.688	ug/L
|	Mn	55	11876067.424	41.99	1262.7359	18.826	1.491	ug/L
|	Co	59	3842.110	0.01	0.5135	0.005	0.879	ug/L
|	Ni	60	2467.996	0.01	1.5276	0.045	2.974	ug/L
|	Cu	65	1533.800	0.00	0.8829	0.032	3.579	ug/L
|	Zn	66	102392.955	0.36	104.6302	1.180	1.128	ug/L
|>	Ge	72	282861.113	282861.11				ug/L
|	As	75	570.503	0.00	0.7196	0.070	9.785	ug/L
|	Se	77	72.000	0.00	-0.0076	0.050	652.286	ug/L
|	Se	82	19.803	0.00	0.3016	0.059	19.474	ug/L
⌊	Rb	85	1638.151	0.01				mg/L
	Y	89	191088.125	-24948.82				ug/L
	Rh	103	33.667	9.00				ug/L
⌈	Mo	98	718.316	0.00	0.2590	0.013	4.918	ug/L
|	Ag	107	2462.995	0.01	0.4513	0.007	1.602	ug/L
|	Cd	114	4.177	0.00	-0.0011	0.003	256.158	ug/L
|>	In	115	268979.580	268979.58				ug/L
|	Sn	118	548.682	0.00	0.0283	0.003	9.066	ug/L
⌊	Sb	123	274.198	0.00	0.0843	0.005	6.400	ug/L
⌈	Ba	135	55556.119	0.15	37.1789	0.196	0.526	ug/L
|	Ce	140	453.389	0.00				ug/L
⌊>	Tb	159	360267.442	360267.44				ug/L
⌈	Ho	165	53.339	0.00				ug/L
|	Tl	203	38.667	0.00	0.0132	0.001	6.846	ug/L
|	Tl	205	100.011	0.00	0.0066	0.002	23.355	ug/L
|	Pb	206	1482.125	0.00	0.2260	0.006	2.639	ug/L
|	Pb	207	1215.086	0.00	0.1955	0.006	2.915	ug/L
|	Pb	208	5729.034	0.01	0.2060	0.006	2.918	ug/L
|	U	238	8599.449	0.03	0.2493	0.003	1.131	ug/L
⌊>	Bi	209	319307.769	319307.77				ug/L

Sample ID: L1103043602
Report Date/Time: Tuesday, March 29, 2011 16:50:19
Page 1

Approved: March 30, 2011

⌈	Na	23	10054287.565	75.35	2.6219	0.182	6.934	mg/L
|	Mg	24	8560206.158	65.35	3.2887	0.250	7.605	mg/L
|	K	39	1638690.942	9.86	0.2506	0.019	7.631	mg/L
|	Ca	43	236278.838	1.80	19.0773	0.951	4.984	mg/L
|	Fe	54	88877.772	0.45	0.1284	0.011	8.287	mg/L
|	Fe	57	32673.252	0.20	0.1364	0.009	6.961	mg/L
⌊>	Sc-1	45	131341.799	131341.80				mg/L
	Cl	35	68622.019	58771.84				mg/L
	Kr	83	61.001	-11.00				mg/L
	Br	81	16106.973	10081.82				mg/L
	P	31	9726.806	3993.80				mg/L
	S	34	271399.584	153480.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.830			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.383			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.957			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.911			
⌈	Na	23					

Sample ID: L1103043602
Report Date/Time: Tuesday, March 29, 2011 16:50:19
Page 2

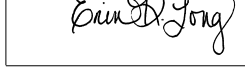
Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Zn 66 Upper, S, EEE	Zn	66	

Approved: March 30, 2011



Method 6020 - Summary Report

Sample ID: L1103046402 WG359134-01

Sample Date/Time: Tuesday, March 29, 2011 16:54:54
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 102
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20671.374	0.06				ug/L
|	Be	9	9.333	-0.00	0.0086	0.019	216.686	ug/L
|	Al	27	22943.101	0.15	4.0847	0.510	12.495	ug/L
⌊>	Sc	45	118380.026	118380.03				ug/L
⌈	Ti	49	1977.061	0.01	4.8141	0.484	10.046	ug/L
|	V	51	2137.027	-0.00	-0.0158	0.005	34.700	ug/L
|	Cr	52	7204.000	-0.00	-0.0751	0.027	36.254	ug/L
|	Cr	53	340.040	0.00	0.2264	0.084	36.921	ug/L
|	Mn	55	397796.147	1.56	46.8523	0.998	2.131	ug/L
|	Co	59	728.034	0.00	0.0986	0.002	2.261	ug/L
|	Ni	60	1751.838	0.01	1.1899	0.033	2.779	ug/L
|	Cu	65	1315.433	0.00	0.8373	0.043	5.078	ug/L
|	Zn	66	24524.950	0.09	25.3904	0.214	0.844	ug/L
|>	Ge	72	254440.215	254440.21				ug/L
|	As	75	111.299	0.00	0.2660	0.092	34.661	ug/L
|	Se	77	672.023	0.00	8.8821	0.076	0.859	ug/L
|	Se	82	770.477	0.00	9.2622	0.243	2.624	ug/L
⌊	Rb	85	4458.039	0.02				mg/L
	Y	89	167942.040	-48094.91				ug/L
	Rh	103	88.001	63.33				ug/L
⌈	Mo	98	324.995	0.00	0.1298	0.003	1.966	ug/L
|	Ag	107	338.009	0.00	0.0678	0.004	6.105	ug/L
|	Cd	114	-3.123	0.00	-0.0079	0.013	161.365	ug/L
|>	In	115	235330.878	235330.88				ug/L
|	Sn	118	168.668	0.00	-0.0606	0.002	2.960	ug/L
⌊	Sb	123	68.903	0.00	0.0315	0.002	4.905	ug/L
⌈	Ba	135	632.026	0.00	0.4546	0.020	4.455	ug/L
|	Ce	140	230.026	0.00				ug/L
⌊>	Tb	159	318359.154	318359.15				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	142.002	0.00	0.0317	0.002	5.773	ug/L
|	Tl	205	286.699	0.00	0.0206	0.003	12.218	ug/L
|	Pb	206	357.343	0.00	0.0299	0.005	16.012	ug/L
|	Pb	207	300.674	0.00	0.0263	0.002	6.423	ug/L
|	Pb	208	1388.385	0.00	0.0255	0.002	7.643	ug/L
|	U	238	225697.488	0.82	7.6406	0.058	0.758	ug/L
⌊>	Bi	209	276124.407	276124.41				ug/L

Sample ID: L1103046402 WG359134-01
Report Date/Time: Tuesday, March 29, 2011 16:57:08
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	61014414.311	515.62	25.9814	0.948	3.651	mg/L
|	K	39	6673390.994	53.78	1.3925	0.099	7.130	mg/L
|	Ca	43	174354.930	1.47	15.5889	0.525	3.365	mg/L
|	Fe	54	30640.571	0.03	0.0044	0.001	20.839	mg/L
|	Fe	57	11537.815	0.05	0.0301	0.004	13.737	mg/L
⌊>	Sc-1	45	118380.026	118380.03				mg/L
	Cl	35	200379.949	190529.77				mg/L
	Kr	83	65.001	-7.00				mg/L
	Br	81	19209.099	13183.94				mg/L
	P	31	4873.856	-859.15				mg/L
	S	34	2941368.667	2823449.45				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		80.804			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		78.201			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		83.911			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		87.264			
⌈	Na	23					

Sample ID: L1103046402 WG359134-01
Report Date/Time: Tuesday, March 29, 2011 16:57:08
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103046403S WG359134-04

Sample Date/Time: Tuesday, March 29, 2011 17:01:43
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 103
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	23377.603	0.09				ug/L
|	Be	9	675.356	0.01	3.2503	0.147	4.524	ug/L
|	Al	27	33824.150	0.25	7.1956	0.337	4.685	ug/L
⌊>	Sc	45	113290.322	113290.32				ug/L
⌈	Ti	49	2130.441	0.01	5.1798	0.430	8.294	ug/L
|	V	51	18476.021	0.06	2.4859	0.040	1.601	ug/L
|	Cr	52	21580.826	0.05	2.5090	0.013	0.534	ug/L
|	Cr	53	1977.060	0.01	2.7320	0.150	5.507	ug/L
|	Mn	55	399891.301	1.56	46.8832	0.280	0.598	ug/L
|	Co	59	18313.276	0.07	2.7602	0.028	1.032	ug/L
|	Ni	60	5497.901	0.02	3.8745	0.087	2.254	ug/L
|	Cu	65	5312.798	0.02	3.6578	0.036	0.987	ug/L
|	Zn	66	15189.020	0.06	14.3605	0.181	1.258	ug/L
| >	Ge	72	255634.961	255634.96				ug/L
|	As	75	2324.046	0.01	2.7527	0.292	10.625	ug/L
|	Se	77	825.367	0.00	11.0801	0.601	5.420	ug/L
|	Se	82	982.890	0.00	11.7328	0.244	2.076	ug/L
⌊	Rb	85	4561.086	0.02				mg/L
	Y	89	165593.554	-50443.39				ug/L
	Rh	103	82.001	57.33				ug/L
⌈	Mo	98	298.071	0.00	0.1195	0.009	7.562	ug/L
|	Ag	107	3995.839	0.02	0.8482	0.074	8.666	ug/L
|	Cd	114	2461.940	0.01	2.5000	0.150	5.999	ug/L
| >	In	115	233525.040	233525.04				ug/L
|	Sn	118	111.334	-0.00	-0.0767	0.001	1.173	ug/L
⌊	Sb	123	8427.874	0.04	2.6356	0.084	3.179	ug/L
⌈	Ba	135	3827.437	0.01	2.8833	0.129	4.491	ug/L
|	Ce	140	256.696	0.00				ug/L
⌊>	Tb	159	317877.239	317877.24				ug/L
⌈	Ho	165	53.339	0.00				ug/L
|	Tl	203	15345.253	0.05	2.5597	0.083	3.243	ug/L
|	Tl	205	37985.841	0.13	2.5810	0.065	2.502	ug/L
|	Pb	206	13259.253	0.05	2.7020	0.068	2.522	ug/L
|	Pb	207	11538.105	0.04	2.5017	0.071	2.855	ug/L
|	Pb	208	53621.807	0.19	2.6072	0.067	2.577	ug/L
|	U	238	318580.262	1.13	10.5352	0.155	1.474	ug/L
⌊>	Bi	209	282812.313	282812.31				ug/L

Sample ID: L1103046403S WG359134-04
Report Date/Time: Tuesday, March 29, 2011 17:03:57
Page 1

Approved: March 30, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	60859426.652	538.83	27.1513	1.705	6.280	mg/L
|	K	39	6719843.776	56.77	1.4704	0.065	4.406	mg/L
|	Ca	43	177304.186	1.57	16.5929	0.717	4.322	mg/L
|	Fe	54	30987.288	0.04	0.0091	0.007	81.467	mg/L
|	Fe	57	11788.150	0.05	0.0351	0.009	25.168	mg/L
⌊>	Sc-1	45	113290.322	113290.32				mg/L
	Cl	35	198890.068	189039.88				mg/L
	Kr	83	58.334	-13.67				mg/L
	Br	81	20120.222	14095.07				mg/L
	P	31	4841.176	-891.83				mg/L
	S	34	2868259.286	2750340.07				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		81.184			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		77.601			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		83.784			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		89.377			
⌈	Na	23					

Sample ID: L1103046403S WG359134-04
Report Date/Time: Tuesday, March 29, 2011 17:03:57
Page 2

Approved: March 30, 2011

Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103046403S WG359134-04
Report Date/Time: Tuesday, March 29, 2011 17:03:57
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103046404SD WG359134-05

Sample Date/Time: Tuesday, March 29, 2011 17:08:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 104
Method File: C:\elandata\Method\6020a.mth
Sample Description: 10

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	25398.952	0.09				ug/L
|	Be	9	738.027	0.01	3.2233	0.115	3.563	ug/L
|	Al	27	32252.053	0.22	6.0537	1.012	16.717	ug/L
⌊>	Sc	45	124877.585	124877.58				ug/L
⌈	Ti	49	2467.218	0.01	5.8320	0.260	4.464	ug/L
|	V	51	19711.934	0.06	2.5810	0.051	1.993	ug/L
|	Cr	52	22985.617	0.05	2.6317	0.021	0.806	ug/L
|	Cr	53	2073.756	0.01	2.7835	0.198	7.122	ug/L
|	Mn	55	498836.011	1.89	56.6758	0.819	1.444	ug/L
|	Co	59	19775.065	0.07	2.8868	0.034	1.174	ug/L
|	Ni	60	6274.364	0.02	4.2906	0.114	2.665	ug/L
|	Cu	65	5711.354	0.02	3.8118	0.043	1.136	ug/L
|	Zn	66	16389.252	0.06	15.1579	0.115	0.758	ug/L
| >	Ge	72	263964.436	263964.44				ug/L
|	As	75	2347.825	0.01	2.6976	0.068	2.510	ug/L
|	Se	77	932.043	0.00	12.1937	0.410	3.362	ug/L
|	Se	82	1082.560	0.00	12.5155	0.345	2.757	ug/L
⌊	Rb	85	4815.875	0.02				mg/L
	Y	89	172434.470	-43602.48				ug/L
	Rh	103	95.001	70.33				ug/L
⌈	Mo	98	356.000	0.00	0.1384	0.012	8.536	ug/L
|	Ag	107	6115.597	0.03	1.2477	0.023	1.825	ug/L
|	Cd	114	2528.145	0.01	2.4665	0.068	2.763	ug/L
| >	In	115	242765.349	242765.35				ug/L
|	Sn	118	121.867	0.00	-0.0750	0.001	1.079	ug/L
⌊	Sb	123	8847.781	0.04	2.6596	0.036	1.354	ug/L
⌈	Ba	135	4057.197	0.01	2.9531	0.071	2.409	ug/L
|	Ce	140	236.693	0.00				ug/L
⌊>	Tb	159	328768.763	328768.76				ug/L
⌈	Ho	165	83.342	0.00				ug/L
|	Tl	203	16469.049	0.06	2.6453	0.050	1.874	ug/L
|	Tl	205	40639.811	0.14	2.6598	0.025	0.957	ug/L
|	Pb	206	14317.385	0.05	2.8120	0.023	0.818	ug/L
|	Pb	207	12555.002	0.04	2.6241	0.030	1.126	ug/L
|	Pb	208	57836.903	0.19	2.7104	0.037	1.375	ug/L
|	U	238	363510.790	1.24	11.5817	0.178	1.539	ug/L
⌊>	Bi	209	293445.160	293445.16				ug/L

Sample ID: L1103046404SD WG359134-05
Report Date/Time: Tuesday, March 29, 2011 17:10:47
Page 1

Approved: March 30, 2011

⌈	Na	23	S	S	S	S	S	mg/L
|	Mg	24	72517316.547	582.37	29.3459	1.783	6.075	mg/L
|	K	39	7553602.893	58.00	1.5024	0.083	5.496	mg/L
|	Ca	43	193391.867	1.55	16.4451	1.186	7.210	mg/L
|	Fe	54	33385.767	0.04	0.0072	0.006	78.562	mg/L
|	Fe	57	12766.184	0.05	0.0335	0.009	26.177	mg/L
⌊>	Sc-1	45	124877.585	124877.58				mg/L
	Cl	35	235133.744	225283.56				mg/L
	Kr	83	59.334	-12.67				mg/L
	Br	81	21162.369	15137.21				mg/L
	P	31	5262.055	-470.95				mg/L
	S	34	3410484.611	3292565.39				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		83.829			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		80.672			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		86.654			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		92.737			
⌈	Na	23					

Sample ID: L1103046404SD WG359134-05
Report Date/Time: Tuesday, March 29, 2011 17:10:47
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103046404SD WG359134-05
Report Date/Time: Tuesday, March 29, 2011 17:10:47
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103047501

Sample Date/Time: Tuesday, March 29, 2011 17:15:22
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 99
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18483.741	0.04				ug/L
|	Be	9	14.667	0.00	0.0301	0.011	35.529	ug/L
|	Al	27	12441.108	0.06	1.2803	0.285	22.297	ug/L
⌊>	Sc	45	124891.786	124891.79				ug/L
⌈	Ti	49	90.009	0.00	0.0244	0.064	261.570	ug/L
|	V	51	2396.617	-0.00	0.0108	0.011	104.097	ug/L
|	Cr	52	7782.772	-0.00	-0.0213	0.012	58.383	ug/L
|	Cr	53	350.041	0.00	0.2228	0.068	30.608	ug/L
|	Mn	55	1775.509	0.01	0.0330	0.005	14.050	ug/L
|	Co	59	79.334	-0.00	-0.0005	0.001	166.817	ug/L
|	Ni	60	206.338	0.00	0.0694	0.009	13.378	ug/L
|	Cu	65	273.340	0.00	0.0906	0.013	14.300	ug/L
|	Zn	66	25108.068	0.09	25.0087	0.214	0.854	ug/L
| >	Ge	72	263994.001	263994.00				ug/L
|	As	75	-133.845	-0.00	-0.0057	0.027	471.813	ug/L
|	Se	77	51.333	-0.00	-0.2316	0.118	50.853	ug/L
|	Se	82	0.545	-0.00	0.0960	0.121	126.042	ug/L
⌊	Rb	85	594.357	0.00				mg/L
	Y	89	169647.062	-46389.89				ug/L
	Rh	103	15.000	-9.67				ug/L
⌈	Mo	98	23.913	0.00	0.0010	0.002	194.295	ug/L
|	Ag	107	803.374	0.00	0.1579	0.004	2.472	ug/L
|	Cd	114	-1.418	0.00	-0.0062	0.004	57.997	ug/L
| >	In	115	247328.356	247328.36				ug/L
|	Sn	118	172.268	0.00	-0.0620	0.003	4.985	ug/L
⌊	Sb	123	45.821	0.00	0.0237	0.002	10.367	ug/L
⌈	Ba	135	6381.099	0.02	4.5490	0.085	1.864	ug/L
|	Ce	140	66.674	0.00				ug/L
⌊>	Tb	159	336642.293	336642.29				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	28.000	-0.00	0.0116	0.001	5.578	ug/L
|	Tl	205	36.670	0.00	0.0028	0.001	23.267	ug/L
|	Pb	206	399.679	0.00	0.0274	0.006	20.518	ug/L
|	Pb	207	328.342	0.00	0.0225	0.003	13.294	ug/L
|	Pb	208	1512.393	0.00	0.0214	0.001	2.444	ug/L
|	U	238	349.676	0.00	0.0077	0.001	8.204	ug/L
⌊>	Bi	209	319363.441	319363.44				ug/L

Sample ID: L1103047501
Report Date/Time: Tuesday, March 29, 2011 17:17:35
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	2596683.100	19.41	0.6844	0.027	3.924	mg/L
|	Mg	24	1196301.100	9.58	0.4780	0.009	1.862	mg/L
|	K	39	1142251.031	6.51	0.1634	0.004	2.607	mg/L
|	Ca	43	10937.072	0.09	0.8971	0.013	1.414	mg/L
|	Fe	54	35802.048	0.06	0.0127	0.003	25.645	mg/L
|	Fe	57	6462.734	0.00	-0.0019	0.000	19.560	mg/L
⌊>	Sc-1	45	124891.786	124891.79				mg/L
	Cl	35	32104.131	22253.95				mg/L
	Kr	83	52.334	-19.67				mg/L
	Br	81	10199.867	4174.71				mg/L
	P	31	6155.234	422.23				mg/L
	S	34	125873.598	7954.38				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		83.838			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		82.188			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		88.730			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.928			
⌈	Na	23					

Sample ID: L1103047501
Report Date/Time: Tuesday, March 29, 2011 17:17:35
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103047501
Report Date/Time: Tuesday, March 29, 2011 17:17:35
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103047501PS WG359174-03

Sample Date/Time: Tuesday, March 29, 2011 17:22:10
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 100
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18316.769	0.02				ug/L
|	Be	9	14946.502	0.11	60.5053	1.200	1.984	ug/L
|	Al	27	230514.633	1.65	48.8528	2.777	5.685	ug/L
⌊>	Sc	45	135900.612	135900.61				ug/L
⌈	Ti	49	86.676	0.00	0.0030	0.083	2754.908	ug/L
|	V	51	347523.322	1.22	47.8278	0.797	1.666	ug/L
|	Cr	52	316592.982	1.09	50.2154	0.500	0.997	ug/L
|	Cr	53	37507.292	0.13	51.7203	1.238	2.395	ug/L
|	Mn	55	498796.651	1.76	52.9070	0.144	0.272	ug/L
|	Co	59	391795.962	1.39	53.6251	0.582	1.085	ug/L
|	Ni	60	84714.830	0.30	54.9588	0.765	1.392	ug/L
|	Cu	65	86695.395	0.31	55.3061	0.440	0.795	ug/L
|	Zn	66	70365.741	0.25	70.9100	0.689	0.971	ug/L
|>	Ge	72	282652.601	282652.60				ug/L
|	As	75	44708.822	0.16	45.6233	0.334	0.732	ug/L
|	Se	77	3612.653	0.01	46.6531	1.628	3.490	ug/L
|	Se	82	4215.134	0.01	45.2647	0.974	2.152	ug/L
⌊	Rb	85	604.024	0.00				mg/L
	Y	89	182936.251	-33100.70				ug/L
	Rh	103	34.667	10.00				ug/L
⌈	Mo	98	40.320	0.00	0.0065	0.003	49.326	ug/L
|	Ag	107	247412.406	0.93	46.2945	0.417	0.900	ug/L
|	Cd	114	55299.046	0.21	49.4400	1.093	2.211	ug/L
|>	In	115	265393.435	265393.44				ug/L
|	Sn	118	228.669	0.00	-0.0508	0.001	2.923	ug/L
⌊	Sb	123	180361.555	0.68	49.4094	0.523	1.059	ug/L
⌈	Ba	135	76403.541	0.21	50.4336	0.482	0.956	ug/L
|	Ce	140	63.340	0.00				ug/L
⌊>	Tb	159	365308.599	365308.60				ug/L
⌈	Ho	165	30.003	0.00				ug/L
|	Tl	203	353094.491	1.01	47.4960	0.206	0.434	ug/L
|	Tl	205	878725.735	2.51	48.2864	0.505	1.045	ug/L
|	Pb	206	303198.527	0.87	50.7767	0.105	0.207	ug/L
|	Pb	207	269050.448	0.77	47.9278	0.115	0.240	ug/L
|	Pb	208	1237713.331	3.54	49.4665	0.171	0.345	ug/L
|	U	238	2044498.448	5.85	54.7086	0.388	0.709	ug/L
⌊>	Bi	209	349423.165	349423.16				ug/L

Sample ID: L1103047501PS WG359174-03
Report Date/Time: Tuesday, March 29, 2011 17:24:24
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	2617202.908	17.88	0.6314	0.003	0.447	mg/L
|	Mg	24	1258310.371	9.26	0.4619	0.007	1.555	mg/L
|	K	39	1200157.464	6.19	0.1552	0.005	3.388	mg/L
|	Ca	43	11350.915	0.08	0.8544	0.048	5.646	mg/L
|	Fe	54	38005.122	0.05	0.0106	0.001	8.165	mg/L
|	Fe	57	6379.340	-0.00	-0.0053	0.001	15.877	mg/L
⌊>	Sc-1	45	135900.612	135900.61				mg/L
	Cl	35	32421.140	22570.96				mg/L
	Kr	83	56.001	-16.00				mg/L
	Br	81	10215.883	4190.73				mg/L
	P	31	6233.957	500.95				mg/L
	S	34	121247.293	3328.07				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.764			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.191			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.285			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		110.428			
⌈	Na	23					

Sample ID: L1103047501PS WG359174-03
Report Date/Time: Tuesday, March 29, 2011 17:24:24
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103047501PS WG359174-03
Report Date/Time: Tuesday, March 29, 2011 17:24:24
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103047501SDL WG359174-04

Sample Date/Time: Tuesday, March 29, 2011 17:28:59
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 101
Method File: C:\elandata\Method\6020a.mth
Sample Description: 25

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	20304.033	0.04				ug/L
|	Be	9	16.000	0.00	0.0323	0.038	119.215	ug/L
|	Al	27	9671.355	0.03	0.4954	0.158	31.961	ug/L
⌊>	Sc	45	131948.245	131948.25				ug/L
⌈	Ti	49	70.007	0.00	-0.0361	0.059	164.649	ug/L
|	V	51	2060.560	-0.00	-0.0598	0.018	29.772	ug/L
|	Cr	52	6896.446	-0.01	-0.2575	0.008	2.921	ug/L
|	Cr	53	190.021	-0.00	-0.0343	0.097	282.362	ug/L
|	Mn	55	1888.531	0.00	0.0313	0.007	23.850	ug/L
|	Co	59	75.001	-0.00	-0.0018	0.001	44.543	ug/L
|	Ni	60	127.669	0.00	0.0087	0.007	75.504	ug/L
|	Cu	65	294.674	0.00	0.0916	0.014	15.121	ug/L
|	Zn	66	35377.157	0.12	33.9051	0.175	0.517	ug/L
| >	Ge	72	283174.942	283174.94				ug/L
|	As	75	-106.172	0.00	0.0323	0.020	62.589	ug/L
|	Se	77	52.667	-0.00	-0.2639	0.260	98.699	ug/L
|	Se	82	6.194	0.00	0.1563	0.054	34.315	ug/L
⌊	Rb	85	152.669	0.00				mg/L
	Y	89	183540.576	-32496.37				ug/L
	Rh	103	17.000	-7.67				ug/L
⌈	Mo	98	22.689	0.00	-0.0001	0.002	1867.724	ug/L
|	Ag	107	172.337	0.00	0.0288	0.001	3.483	ug/L
|	Cd	114	-1.402	0.00	-0.0061	0.005	83.795	ug/L
| >	In	115	265292.498	265292.50				ug/L
|	Sn	118	202.002	0.00	-0.0576	0.003	4.866	ug/L
⌊	Sb	123	376.039	0.00	0.1133	0.004	3.333	ug/L
⌈	Ba	135	1470.790	0.00	0.9563	0.058	6.039	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	361750.598	361750.60				ug/L
⌈	Ho	165	40.004	0.00				ug/L
|	Tl	203	42.667	0.00	0.0133	0.001	4.281	ug/L
|	Tl	205	56.672	0.00	0.0038	0.001	16.995	ug/L
|	Pb	206	433.347	0.00	0.0278	0.005	18.963	ug/L
|	Pb	207	361.010	0.00	0.0237	0.003	11.859	ug/L
|	Pb	208	1741.412	0.00	0.0258	0.002	6.719	ug/L
|	U	238	306.008	0.00	0.0058	0.001	20.685	ug/L
⌊>	Bi	209	344587.524	344587.52				ug/L

Approved: March 30, 2011

⌈	Na	23	665587.249	3.66	0.1391	0.008	6.039	mg/L
|	Mg	24	269867.482	2.04	0.0984	0.003	2.567	mg/L
|	K	39	500717.626	1.16	0.0242	0.002	9.976	mg/L
|	Ca	43	2660.620	0.02	0.1823	0.011	5.891	mg/L
|	Fe	54	32187.622	0.01	0.0001	0.003	6083.392	mg/L
|	Fe	57	5512.070	-0.01	-0.0089	0.001	7.588	mg/L
⌊>	Sc-1	45	131948.245	131948.25				mg/L
	Cl	35	15204.217	5354.03				mg/L
	Kr	83	54.334	-17.67				mg/L
	Br	81	6254.622	229.47				mg/L
	P	31	5469.496	-263.51				mg/L
	S	34	121967.026	4047.81				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.930			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.157			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		95.348			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		108.900			
⌈	Na	23					

Sample ID: L1103047501SDL WG359174-04
Report Date/Time: Tuesday, March 29, 2011 17:31:12
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: L1103047501SDL WG359174-04
Report Date/Time: Tuesday, March 29, 2011 17:31:12
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 17:35:47
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18717.587	0.03				ug/L
|	Be	9	14855.027	0.11	63.1240	2.472	3.915	ug/L
|	Al	27	231516.183	1.74	51.5798	1.926	3.733	ug/L
⌊>	Sc	45	129601.861	129601.86				ug/L
⌈	Ti	49	42126.163	0.15	94.6808	3.991	4.215	ug/L
|	V	51	353341.777	1.22	47.9982	0.768	1.600	ug/L
|	Cr	52	314264.831	1.07	49.1725	0.676	1.375	ug/L
|	Cr	53	36764.520	0.13	50.0277	2.040	4.077	ug/L
|	Mn	55	495629.181	1.73	51.8903	0.071	0.138	ug/L
|	Co	59	393609.416	1.37	53.1742	0.564	1.060	ug/L
|	Ni	60	83114.480	0.29	53.2161	0.349	0.656	ug/L
|	Cu	65	85309.960	0.30	53.7131	0.995	1.852	ug/L
|	Zn	66	53768.368	0.19	52.6555	0.455	0.864	ug/L
|>	Ge	72	286345.020	286345.02				ug/L
|	As	75	47908.753	0.17	48.2488	1.041	2.157	ug/L
|	Se	77	3812.727	0.01	48.6412	0.386	0.794	ug/L
|	Se	82	4602.573	0.02	48.7765	1.271	2.605	ug/L
⌊	Rb	85	1825.185	0.01				mg/L
	Y	89	184015.917	-32021.03				ug/L
	Rh	103	31.334	6.67				ug/L
⌈	Mo	98	257540.414	0.96	96.0467	1.149	1.197	ug/L
|	Ag	107	251988.957	0.94	46.5482	0.568	1.221	ug/L
|	Cd	114	56738.150	0.21	50.0709	0.648	1.295	ug/L
|>	In	115	268840.604	268840.60				ug/L
|	Sn	118	204111.842	0.76	50.9269	0.284	0.558	ug/L
⌊	Sb	123	186837.223	0.69	50.5268	0.330	0.652	ug/L
⌈	Ba	135	72390.479	0.20	48.3303	0.271	0.561	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	361163.563	361163.56				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	348718.233	1.04	48.6758	0.586	1.205	ug/L
|	Tl	205	854591.903	2.54	48.7335	1.643	3.370	ug/L
|	Pb	206	282957.278	0.84	49.1725	0.417	0.848	ug/L
|	Pb	207	270856.862	0.80	50.0708	0.143	0.286	ug/L
|	Pb	208	1200325.453	3.56	49.7810	0.537	1.079	ug/L
|	U	238	2051670.725	6.09	56.9708	0.810	1.422	ug/L
⌊>	Bi	209	336732.357	336732.36				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 17:37:59
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	19719436.598	151.00	5.2418	0.317	6.038	mg/L
|	Mg	24	13541694.438	104.59	5.2667	0.234	4.434	mg/L
|	K	39	25701270.104	195.82	5.0862	0.161	3.160	mg/L
|	Ca	43	63772.403	0.49	5.1920	0.238	4.578	mg/L
|	Fe	54	2295930.395	17.50	5.1754	0.210	4.050	mg/L
|	Fe	57	993743.134	7.63	5.3408	0.277	5.177	mg/L
⌊>	Sc-1	45	129601.861	129601.86				mg/L
	Cl	35	9622.629	-227.55				mg/L
	Kr	83	64.668	-7.33				mg/L
	Br	81	5178.675	-846.48				mg/L
	P	31	5708.307	-24.70				mg/L
	S	34	125646.469	7727.25				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	95.996				
|	Cr	52	98.345				
|	Cr	53					
|	Mn	55	103.781				
|	Co	59	106.348				
|	Ni	60	106.432				
|	Cu	65	107.426				
|	Zn	66	105.311				
|>	Ge	72		90.936			
|	As	75	96.498				
|	Se	77					
|	Se	82	97.553				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	93.096				
|	Cd	114	100.142				
|>	In	115		89.336			
|	Sn	118					
⌊	Sb	123	101.054				
⌈	Ba	135	96.661				
|	Ce	140					
⌊>	Tb	159		95.193			
⌈	Ho	165					
|	Tl	203	97.352				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.562				
|	U	238	113.942				
⌊>	Bi	209		106.417			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 17:37:59
Page 2

Approved: March 30, 2011

Erin D. Long

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 17:37:59
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 17:42:33
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17982.841	0.03				ug/L
|	Be	9	7.333	-0.00	-0.0027	0.018	683.252	ug/L
|	Al	27	4501.014	-0.01	-0.6278	0.056	8.842	ug/L
⌊>	Sc	45	126376.883	126376.88				ug/L
⌈	Ti	49	43.338	-0.00	-0.0964	0.091	94.714	ug/L
|	V	51	1971.857	-0.00	-0.0696	0.007	9.423	ug/L
|	Cr	52	6503.847	-0.01	-0.3121	0.015	4.826	ug/L
|	Cr	53	163.351	-0.00	-0.0690	0.073	105.357	ug/L
|	Mn	55	370.344	-0.00	-0.1296	0.003	2.052	ug/L
|	Co	59	67.334	-0.00	-0.0028	0.001	52.282	ug/L
|	Ni	60	59.334	-0.00	-0.0353	0.007	19.987	ug/L
|	Cu	65	170.003	0.00	0.0130	0.007	57.501	ug/L
|	Zn	66	441.681	-0.00	-2.8956	0.019	0.640	ug/L
|>	Ge	72	280691.570	280691.57				ug/L
|	As	75	-168.483	-0.00	-0.0323	0.021	63.527	ug/L
|	Se	77	59.334	-0.00	-0.1683	0.129	76.409	ug/L
|	Se	82	-5.168	-0.00	0.0348	0.108	311.568	ug/L
⌊	Rb	85	24.334	-0.00				mg/L
	Y	89	188692.486	-27344.46				ug/L
	Rh	103	19.667	-5.00				ug/L
⌈	Mo	98	116.472	0.00	0.0351	0.005	14.910	ug/L
|	Ag	107	191.670	0.00	0.0323	0.003	8.489	ug/L
|	Cd	114	-4.772	-0.00	-0.0091	0.001	7.307	ug/L
|>	In	115	266286.187	266286.19				ug/L
|	Sn	118	259.203	0.00	-0.0433	0.007	15.637	ug/L
⌊	Sb	123	109.281	0.00	0.0400	0.002	5.863	ug/L
⌈	Ba	135	28.334	-0.00	-0.0052	0.001	25.517	ug/L
|	Ce	140	43.338	0.00				ug/L
⌊>	Tb	159	356140.448	356140.45				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	55.667	0.00	0.0154	0.002	10.007	ug/L
|	Tl	205	106.678	0.00	0.0069	0.005	69.320	ug/L
|	Pb	206	297.341	0.00	0.0071	0.002	34.563	ug/L
|	Pb	207	258.339	-0.00	0.0074	0.006	80.433	ug/L
|	Pb	208	1186.373	0.00	0.0057	0.002	30.218	ug/L
|	U	238	212.004	0.00	0.0035	0.001	36.054	ug/L
⌊>	Bi	209	328503.032	328503.03				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 17:44:44
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	99381.449	-0.59	-0.0084	0.001	7.761	mg/L
|	Mg	24	1090.171	0.01	-0.0043	0.000	2.421	mg/L
|	K	39	341117.473	0.06	-0.0043	0.000	11.455	mg/L
|	Ca	43	236.693	-0.00	-0.0117	0.003	27.535	mg/L
|	Fe	54	29078.772	-0.00	-0.0041	0.001	30.084	mg/L
|	Fe	57	5341.962	-0.01	-0.0086	0.001	15.762	mg/L
⌊>	Sc-1	45	126376.883	126376.88				mg/L
	Cl	35	10423.430	573.25				mg/L
	Kr	83	57.667	-14.33				mg/L
	Br	81	5043.939	-981.22				mg/L
	P	31	5786.346	53.34				mg/L
	S	34	129822.554	11903.33				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.141			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		88.488			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.869			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.817			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 17:44:44
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 17:44:44
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: PBW 81 WG359793-04

Sample Date/Time: Tuesday, March 29, 2011 17:49:20
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 105
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19769.537	0.04				ug/L
|	Be	9	12.667	-0.00	0.0180	0.017	96.958	ug/L
|	Al	27	15845.933	0.08	1.8713	0.264	14.119	ug/L
⌊>	Sc	45	132556.137	132556.14				ug/L
⌈	Ti	49	100.011	0.00	0.0290	0.059	203.616	ug/L
|	V	51	2137.915	-0.00	-0.0536	0.009	17.617	ug/L
|	Cr	52	8039.646	-0.00	-0.0914	0.014	15.683	ug/L
|	Cr	53	306.702	-0.00	0.1207	0.034	28.302	ug/L
|	Mn	55	2457.994	0.01	0.0880	0.013	14.863	ug/L
|	Co	59	93.335	-0.00	0.0005	0.001	307.118	ug/L
|	Ni	60	143.002	0.00	0.0173	0.004	21.534	ug/L
|	Cu	65	562.688	0.00	0.2572	0.010	3.961	ug/L
|	Zn	66	9248.701	0.03	6.2324	0.084	1.344	ug/L
| >	Ge	72	287494.976	287494.98				ug/L
|	As	75	-115.101	0.00	0.0252	0.022	87.425	ug/L
|	Se	77	51.333	-0.00	-0.2893	0.202	69.825	ug/L
|	Se	82	9.835	0.00	0.1938	0.044	22.467	ug/L
⌊	Rb	85	66.001	0.00				mg/L
	Y	89	192545.744	-23491.20				ug/L
	Rh	103	14.000	-10.67				ug/L
⌈	Mo	98	71.613	0.00	0.0174	0.001	5.760	ug/L
|	Ag	107	1924.205	0.01	0.3440	0.013	3.791	ug/L
|	Cd	114	-7.258	-0.00	-0.0111	0.003	23.130	ug/L
| >	In	115	274939.594	274939.59				ug/L
|	Sn	118	594.284	0.00	0.0365	0.002	4.108	ug/L
⌊	Sb	123	125.571	0.00	0.0434	0.002	4.036	ug/L
⌈	Ba	135	202.004	0.00	0.1087	0.009	8.541	ug/L
|	Ce	140	113.345	0.00				ug/L
⌊>	Tb	159	366414.461	366414.46				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	44.667	0.00	0.0137	0.001	7.220	ug/L
|	Tl	205	66.674	0.00	0.0044	0.002	36.186	ug/L
|	Pb	206	398.012	0.00	0.0227	0.003	12.885	ug/L
|	Pb	207	334.676	0.00	0.0198	0.005	22.935	ug/L
|	Pb	208	1535.061	0.00	0.0183	0.000	2.678	ug/L
|	U	238	188.670	0.00	0.0026	0.001	23.309	ug/L
⌊>	Bi	209	339980.259	339980.26				ug/L

Sample ID: PBW 81 WG359793-04
Report Date/Time: Tuesday, March 29, 2011 17:51:34
Page 1

Approved: March 30, 2011

⌈	Na	23	137262.627	-0.35	0.0002	0.000	170.350	mg/L
|	Mg	24	86306.135	0.65	0.0281	0.001	2.314	mg/L
|	K	39	407619.382	0.44	0.0055	0.001	26.266	mg/L
|	Ca	43	1113.507	0.01	0.0575	0.005	9.528	mg/L
|	Fe	54	65699.580	0.26	0.0745	0.001	0.905	mg/L
|	Fe	57	6239.237	-0.00	-0.0052	0.001	10.309	mg/L
⌊>	Sc-1	45	132556.137	132556.14				mg/L
	Cl	35	21825.135	11974.95				mg/L
	Kr	83	57.334	-14.67				mg/L
	Br	81	6748.945	723.79				mg/L
	P	31	12017.917	6284.91				mg/L
	S	34	130140.990	12221.77				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.302			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		91.363			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		96.577			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		107.444			
⌈	Na	23					

Sample ID: PBW 81 WG359793-04
Report Date/Time: Tuesday, March 29, 2011 17:51:34
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: PBW 81 WG359793-04
Report Date/Time: Tuesday, March 29, 2011 17:51:34
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, March 29, 2011 17:56:09
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 6
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18099.747	0.03				ug/L
|	Be	9	12.000	-0.00	0.0179	0.014	76.710	ug/L
|	Al	27	12505889.205	99.96	2977.6999	124.097	4.168	ug/L
⌊>	Sc	45	125162.202	125162.20				ug/L
⌈	Ti	49	28179.134	0.10	64.1409	1.639	2.556	ug/L
|	V	51	1662.291	-0.00	-0.1143	0.011	9.969	ug/L
|	Cr	52	6284.037	-0.01	-0.3545	0.016	4.547	ug/L
|	Cr	53	696.761	0.00	0.6696	0.017	2.465	ug/L
|	Mn	55	1778.509	0.00	0.0201	0.005	23.657	ug/L
|	Co	59	1044.732	0.00	0.1310	0.004	3.075	ug/L
|	Ni	60	461.349	0.00	0.2257	0.011	4.882	ug/L
|	Cu	65	523.019	0.00	0.2382	0.029	12.116	ug/L
|	Zn	66	624.026	0.00	-2.7059	0.043	1.584	ug/L
|>	Ge	72	282478.536	282478.54				ug/L
|	As	75	-152.980	-0.00	-0.0154	0.033	217.167	ug/L
|	Se	77	96.000	0.00	0.3096	0.133	42.854	ug/L
|	Se	82	-18.925	-0.00	-0.1125	0.085	75.934	ug/L
⌊	Rb	85	1176.748	0.00				mg/L
	Y	89	182790.339	-33246.61				ug/L
	Rh	103	15.667	-9.00				ug/L
⌈	Mo	98	172285.727	0.65	65.2808	0.691	1.058	ug/L
|	Ag	107	291.674	0.00	0.0513	0.002	4.841	ug/L
|	Cd	114	33.152	0.00	0.0250	0.015	58.386	ug/L
|>	In	115	264584.845	264584.84				ug/L
|	Sn	118	123.867	-0.00	-0.0773	0.002	3.013	ug/L
⌊	Sb	123	118.822	0.00	0.0429	0.003	7.534	ug/L
⌈	Ba	135	53.667	-0.00	0.0125	0.003	20.193	ug/L
|	Ce	140	136.681	0.00				ug/L
⌊>	Tb	159	351159.458	351159.46				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	35.334	0.00	0.0126	0.001	11.434	ug/L
|	Tl	205	63.340	0.00	0.0044	0.002	48.047	ug/L
|	Pb	206	352.010	0.00	0.0174	0.006	32.278	ug/L
|	Pb	207	302.341	0.00	0.0162	0.002	9.426	ug/L
|	Pb	208	1339.048	0.00	0.0126	0.000	3.742	ug/L
|	U	238	42.667	0.00	-0.0013	0.000	21.255	ug/L
⌊>	Bi	209	325986.212	325986.21				ug/L

Sample ID: QC Std 4
Report Date/Time: Tuesday, March 29, 2011 17:58:22
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	31150864.570	247.71	8.5911	0.358	4.165	mg/L
|	Mg	24	8667596.754	69.29	3.4876	0.112	3.217	mg/L
|	K	39	16818249.106	131.86	3.4230	0.169	4.935	mg/L
|	Ca	43	119225.274	0.95	10.0790	0.509	5.054	mg/L
|	Fe	54	3783411.500	30.01	8.8785	0.275	3.098	mg/L
|	Fe	57	1633708.019	13.01	9.1137	0.363	3.985	mg/L
⌊>	Sc-1	45	125162.202	125162.20				mg/L
	Cl	35	936955.540	927105.36				mg/L
	Kr	83	68.001	-4.00				mg/L
	Br	81	5259.383	-765.77				mg/L
	P	31	841409.483	835676.48				mg/L
	S	34	194314.714	76395.49				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.709			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		87.922			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.556			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.021			
⌈	Na	23					

Sample ID: QC Std 4
Report Date/Time: Tuesday, March 29, 2011 17:58:22

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 4
Report Date/Time: Tuesday, March 29, 2011 17:58:22
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, March 29, 2011 18:02:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 7
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16046.199	0.02				ug/L
|	Be	9	28148.252	0.23	125.8715	3.246	2.579	ug/L
|	Al	27	18512498.146	150.38	4480.0932	37.679	0.841	ug/L
⌊>	Sc	45	123069.358	123069.36				ug/L
⌈	Ti	49	41490.036	0.15	98.5104	1.110	1.127	ug/L
|	V	51	670570.475	2.46	96.5765	0.915	0.947	ug/L
|	Cr	52	604349.000	2.20	101.3191	1.109	1.095	ug/L
|	Cr	53	84093.819	0.31	121.2956	0.252	0.207	ug/L
|	Mn	55	963319.547	3.55	106.7300	1.842	1.726	ug/L
|	Co	59	759871.419	2.80	108.4633	2.034	1.875	ug/L
|	Ni	60	161911.659	0.60	109.5999	1.827	1.667	ug/L
|	Cu	65	167415.898	0.62	111.4629	1.454	1.304	ug/L
|	Zn	66	101484.147	0.37	108.3272	1.516	1.399	ug/L
| >	Ge	72	271053.457	271053.46				ug/L
|	As	75	91160.267	0.34	96.8500	1.766	1.824	ug/L
|	Se	77	8081.264	0.03	110.0972	0.279	0.254	ug/L
|	Se	82	8775.078	0.03	98.1599	2.291	2.334	ug/L
⌊	Rb	85	1628.816	0.01				mg/L
	Y	89	175792.598	-40244.35				ug/L
	Rh	103	64.001	39.33				ug/L
⌈	Mo	98	248739.010	0.99	99.2115	1.047	1.056	ug/L
|	Ag	107	498250.925	1.98	98.4382	1.345	1.367	ug/L
|	Cd	114	107705.210	0.43	101.6715	2.458	2.418	ug/L
| >	In	115	251373.046	251373.05				ug/L
|	Sn	118	471.878	0.00	0.0174	0.005	27.476	ug/L
⌊	Sb	123	360066.347	1.43	104.1324	1.213	1.165	ug/L
⌈	Ba	135	138397.832	0.40	95.7381	1.272	1.328	ug/L
|	Ce	140	230.026	0.00				ug/L
⌊>	Tb	159	348689.855	348689.85				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	682557.918	2.10	98.9123	1.174	1.187	ug/L
|	Tl	205	1695423.654	5.23	100.3775	1.922	1.915	ug/L
|	Pb	206	580133.614	1.79	104.7273	0.513	0.490	ug/L
|	Pb	207	514317.323	1.59	98.7603	0.414	0.420	ug/L
|	Pb	208	2369727.733	7.30	102.0905	0.500	0.490	ug/L
|	U	238	3975851.183	12.26	114.6343	0.468	0.409	ug/L
⌊>	Bi	209	324300.685	324300.69				ug/L

Sample ID: QC Std 5
Report Date/Time: Tuesday, March 29, 2011 18:05:10
Page 1

Approved: March 30, 2011

Na	23	45171816.642	365.64	12.6756	0.158	1.243	mg/L
Mg	24	12496782.613	101.54	5.1126	0.099	1.931	mg/L
K	39	24998622.987	200.49	5.2076	0.069	1.319	mg/L
Ca	43	175171.640	1.42	15.0617	0.131	0.871	mg/L
Fe	54	5639051.222	45.59	13.4870	0.116	0.857	mg/L
Fe	57	2450383.712	19.86	13.9114	0.027	0.194	mg/L
> Sc-1	45	123069.358	123069.36				mg/L
Cl	35	21866270.374	21856420.19				mg/L
Kr	83	67.334	-4.67				mg/L
Br	81	6257.291	232.14				mg/L
P	31	1191133.918	1185400.91				mg/L
S	34	225565.080	107645.86				mg/L

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	96.576				
Cr	52	101.319				
Cr	53					
Mn	55	106.730				
Co	59	108.463				
Ni	60	109.600				
Cu	65	111.463				
Zn	66	108.327				
> Ge	72		86.080			
As	75	96.850				
Se	77					
Se	82	98.160				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.438				
Cd	114	101.672				
> In	115		83.532			
Sn	118					
Sb	123	104.132				
Ba	135	95.738				
Ce	140					
> Tb	159		91.905			
Ho	165					
Tl	203	98.912				
Tl	205					
Pb	206					
Pb	207					
Pb	208	102.091				
U	238	114.634				
> Bi	209		102.489			
Na	23					

Sample ID: QC Std 5
Report Date/Time: Tuesday, March 29, 2011 18:05:10

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 5
Report Date/Time: Tuesday, March 29, 2011 18:05:10
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 18:09:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17314.981	0.02				ug/L
|	Be	9	13809.530	0.11	60.0989	1.703	2.834	ug/L
|	Al	27	224990.211	1.74	51.4260	4.791	9.316	ug/L
⌊>	Sc	45	126529.753	126529.75				ug/L
⌈	Ti	49	42755.482	0.15	98.2685	1.565	1.593	ug/L
|	V	51	351289.319	1.24	48.8034	0.620	1.269	ug/L
|	Cr	52	310527.847	1.08	49.6993	0.453	0.911	ug/L
|	Cr	53	38648.400	0.14	53.8003	0.678	1.261	ug/L
|	Mn	55	481638.888	1.72	51.5652	0.721	1.398	ug/L
|	Co	59	384749.514	1.37	53.1521	0.660	1.241	ug/L
|	Ni	60	81020.372	0.29	53.0489	0.221	0.416	ug/L
|	Cu	65	83746.721	0.30	53.9233	0.153	0.284	ug/L
|	Zn	66	51806.370	0.18	51.8320	0.486	0.938	ug/L
| >	Ge	72	280011.759	280011.76				ug/L
|	As	75	47054.015	0.17	48.4604	0.481	0.992	ug/L
|	Se	77	3826.065	0.01	49.9450	1.073	2.149	ug/L
|	Se	82	4601.950	0.02	49.8726	0.594	1.191	ug/L
⌊	Rb	85	1831.186	0.01				mg/L
	Y	89	187099.759	-28937.19				ug/L
	Rh	103	39.334	14.67				ug/L
⌈	Mo	98	258839.867	0.97	97.1585	0.305	0.314	ug/L
|	Ag	107	249509.739	0.93	46.3879	0.084	0.181	ug/L
|	Cd	114	56937.379	0.21	50.5761	0.551	1.089	ug/L
| >	In	115	267099.268	267099.27				ug/L
|	Sn	118	200101.756	0.75	50.2510	0.303	0.604	ug/L
⌊	Sb	123	181646.246	0.68	49.4460	0.523	1.057	ug/L
⌈	Ba	135	71380.293	0.20	48.3579	1.208	2.497	ug/L
|	Ce	140	30.003	-0.00				ug/L
⌊>	Tb	159	355960.600	355960.60				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	339108.329	1.05	49.2057	0.689	1.400	ug/L
|	Tl	205	836651.342	2.58	49.5930	0.354	0.713	ug/L
|	Pb	206	276562.977	0.85	49.9615	0.375	0.750	ug/L
|	Pb	207	257666.249	0.79	49.5146	0.114	0.230	ug/L
|	Pb	208	1157226.815	3.57	49.8903	0.156	0.313	ug/L
|	U	238	1977513.823	6.10	57.0810	0.275	0.481	ug/L
⌊>	Bi	209	323926.343	323926.34				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 18:11:57
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	18697155.275	146.55	5.0878	0.206	4.054	mg/L
|	Mg	24	12905364.425	102.11	5.1418	0.222	4.321	mg/L
|	K	39	25315594.909	197.82	5.1382	0.351	6.823	mg/L
|	Ca	43	62544.574	0.49	5.2181	0.289	5.548	mg/L
|	Fe	54	2204896.287	17.21	5.0892	0.159	3.130	mg/L
|	Fe	57	965085.435	7.59	5.3129	0.255	4.798	mg/L
⌊>	Sc-1	45	126529.753	126529.75				mg/L
	Cl	35	27497.861	17647.68				mg/L
	Kr	83	59.334	-12.67				mg/L
	Br	81	5025.930	-999.22				mg/L
	P	31	5402.796	-330.21				mg/L
	S	34	116543.709	-1375.51				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	97.607				
|	Cr	52	99.399				
|	Cr	53					
|	Mn	55	103.130				
|	Co	59	106.304				
|	Ni	60	106.098				
|	Cu	65	107.847				
|	Zn	66	103.664				
|>	Ge	72		88.925			
|	As	75	96.921				
|	Se	77					
|	Se	82	99.745				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	92.776				
|	Cd	114	101.152				
|>	In	115		88.758			
|	Sn	118					
⌊	Sb	123	98.892				
⌈	Ba	135	96.716				
|	Ce	140					
⌊>	Tb	159		93.821			
⌈	Ho	165					
|	Tl	203	98.411				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.781				
|	U	238	114.162				
⌊>	Bi	209		102.370			
⌈	Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 18:11:57

Approved: March 30, 2011

Erin D. Long

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 18:11:57
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 18:16:30
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18116.429	0.03				ug/L
|	Be	9	14.667	0.00	0.0282	0.020	69.738	ug/L
|	Al	27	4834.528	-0.01	-0.5828	0.154	26.483	ug/L
⌊>	Sc	45	129636.311	129636.31				ug/L
⌈	Ti	49	36.670	-0.00	-0.1131	0.046	40.750	ug/L
|	V	51	1891.695	-0.00	-0.0867	0.042	48.897	ug/L
|	Cr	52	6808.386	-0.01	-0.2859	0.034	11.722	ug/L
|	Cr	53	1346.894	0.00	1.5454	0.350	22.627	ug/L
|	Mn	55	360.010	-0.00	-0.1315	0.002	1.376	ug/L
|	Co	59	79.001	-0.00	-0.0014	0.001	40.471	ug/L
|	Ni	60	57.001	-0.00	-0.0376	0.010	27.033	ug/L
|	Cu	65	163.003	0.00	0.0062	0.012	186.237	ug/L
|	Zn	66	410.679	-0.00	-2.9381	0.009	0.299	ug/L
|>	Ge	72	286849.451	286849.45				ug/L
|	As	75	-119.452	0.00	0.0205	0.018	87.871	ug/L
|	Se	77	68.667	0.00	-0.0641	0.081	126.227	ug/L
|	Se	82	6.835	0.00	0.1613	0.133	82.375	ug/L
⌊	Rb	85	28.334	-0.00				mg/L
	Y	89	195366.011	-20670.94				ug/L
	Rh	103	16.667	-8.00				ug/L
⌈	Mo	98	151.989	0.00	0.0472	0.006	12.681	ug/L
|	Ag	107	157.003	0.00	0.0251	0.002	6.227	ug/L
|	Cd	114	-0.929	0.00	-0.0056	0.004	70.015	ug/L
|>	In	115	272822.952	272822.95				ug/L
|	Sn	118	241.603	0.00	-0.0492	0.003	5.775	ug/L
⌊	Sb	123	186.698	0.00	0.0599	0.004	6.869	ug/L
⌈	Ba	135	42.001	-0.00	0.0039	0.006	148.708	ug/L
|	Ce	140	26.669	-0.00				ug/L
⌊>	Tb	159	359767.161	359767.16				ug/L
⌈	Ho	165	16.668	-0.00				ug/L
|	Tl	203	112.668	0.00	0.0237	0.003	12.323	ug/L
|	Tl	205	266.697	0.00	0.0163	0.003	17.561	ug/L
|	Pb	206	312.675	0.00	0.0102	0.004	41.443	ug/L
|	Pb	207	254.006	-0.00	0.0069	0.005	72.659	ug/L
|	Pb	208	1211.374	0.00	0.0070	0.002	29.338	ug/L
|	U	238	201.004	0.00	0.0032	0.002	52.030	ug/L
⌊>	Bi	209	327071.831	327071.83				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 18:18:41
Page 1

Approved: March 30, 2011

⌈	Na	23	95887.347	-0.64	-0.0100	0.001	7.913	mg/L
|	Mg	24	1003.484	0.01	-0.0043	0.000	1.220	mg/L
|	K	39	324114.711	-0.13	-0.0094	0.003	28.051	mg/L
|	Ca	43	260.029	-0.00	-0.0102	0.004	36.535	mg/L
|	Fe	54	29899.408	-0.00	-0.0039	0.001	33.065	mg/L
|	Fe	57	5412.008	-0.01	-0.0089	0.001	7.778	mg/L
⌊>	Sc-1	45	129636.311	129636.31				mg/L
	Cl	35	16402.776	6552.59				mg/L
	Kr	83	57.334	-14.67				mg/L
	Br	81	5417.468	-607.69				mg/L
	P	31	6003.146	270.14				mg/L
	S	34	116113.598	-1805.62				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.097			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.660			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		94.825			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		103.364			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 18:18:41
Page 2

Approved: March 30, 2011

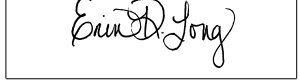
Mg	24
K	39
Ca	43
Fe	54
Fe	57
Sc-1	45
Cl	35
Kr	83
Br	81
P	31
S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 18:18:41

Approved: March 30, 2011



Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, March 29, 2011 18:23:17
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18032.956	0.02				ug/L
|	Be	9	14.000	-0.00	0.0215	0.008	38.668	ug/L
|	Al	27	2800.393	-0.02	-1.0819	0.028	2.629	ug/L
⌊>	Sc	45	137438.104	137438.10				ug/L
⌈	Ti	49	60.006	0.00	-0.0631	0.021	33.460	ug/L
|	V	51	4922.091	0.01	0.3144	0.012	3.801	ug/L
|	Cr	52	12119.461	0.01	0.5290	0.011	2.001	ug/L
|	Cr	53	1593.620	0.00	1.8392	0.171	9.294	ug/L
|	Mn	55	5376.833	0.02	0.3835	0.006	1.605	ug/L
|	Co	59	3270.234	0.01	0.4204	0.004	0.943	ug/L
|	Ni	60	2839.098	0.01	1.7081	0.060	3.530	ug/L
|	Cu	65	1560.804	0.00	0.8670	0.025	2.835	ug/L
|	Zn	66	6951.485	0.02	3.7252	0.122	3.287	ug/L
|>	Ge	72	292547.528	292547.53				ug/L
|	As	75	272.931	0.00	0.4083	0.072	17.617	ug/L
|	Se	77	101.334	0.00	0.3336	0.061	18.321	ug/L
|	Se	82	41.122	0.00	0.5165	0.067	12.931	ug/L
⌊	Rb	85	25.000	-0.00				mg/L
	Y	89	203176.937	-12860.01				ug/L
	Rh	103	23.000	-1.67				ug/L
⌈	Mo	98	101.759	0.00	0.0272	0.001	2.921	ug/L
|	Ag	107	1097.071	0.00	0.1885	0.002	1.221	ug/L
|	Cd	114	223.821	0.00	0.1824	0.015	8.136	ug/L
|>	In	115	283919.370	283919.37				ug/L
|	Sn	118	163.068	0.00	-0.0701	0.001	1.922	ug/L
⌊	Sb	123	1652.265	0.01	0.4332	0.012	2.859	ug/L
⌈	Ba	135	1149.744	0.00	0.7257	0.014	1.881	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	369783.631	369783.63				ug/L
⌈	Ho	165	10.001	-0.00				ug/L
|	Tl	203	635.360	0.00	0.0968	0.004	4.366	ug/L
|	Tl	205	1520.269	0.00	0.0879	0.013	15.251	ug/L
|	Pb	206	2570.356	0.01	0.4043	0.016	3.972	ug/L
|	Pb	207	2462.661	0.01	0.4173	0.019	4.486	ug/L
|	Pb	208	10729.030	0.03	0.4036	0.009	2.134	ug/L
|	U	238	15785.946	0.05	0.4387	0.008	1.897	ug/L
⌊>	Bi	209	334571.196	334571.20				ug/L

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 18:25:31
Page 1

Approved: March 30, 2011

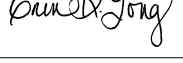
⌈	Na	23	11087.253	-1.30	-0.0328	0.000	0.090	mg/L
|	Mg	24	346.707	0.00	-0.0046	0.000	0.312	mg/L
|	K	39	338869.383	-0.17	-0.0104	0.001	10.285	mg/L
|	Ca	43	246.694	-0.00	-0.0125	0.004	30.523	mg/L
|	Fe	54	29909.974	-0.01	-0.0077	0.002	26.483	mg/L
|	Fe	57	5305.275	-0.01	-0.0111	0.002	17.234	mg/L
⌊>	Sc-1	45	137438.104	137438.10				mg/L
	Cl	35	14588.635	4738.45				mg/L
	Kr	83	62.667	-9.33				mg/L
	Br	81	5615.577	-409.58				mg/L
	P	31	5994.478	261.47				mg/L
	S	34	122770.442	4851.22				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	78.595				
|	Cr	52	66.125				
|	Cr	53					
|	Mn	55	76.690				
|	Co	59	105.108				
|	Ni	60	106.757				
|	Cu	65	108.379				
|	Zn	66	59.603				
|>	Ge	72		92.906			
|	As	75	102.078				
|	Se	77					
|	Se	82	129.126				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	47.118				
|	Cd	114	91.202				
|>	In	115		94.347			
|	Sn	118					
⌊	Sb	123	108.297				
⌈	Ba	135	96.763				
|	Ce	140					
⌊>	Tb	159		97.465			
⌈	Ho	165					
|	Tl	203	120.987				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	100.892				
|	U	238	109.670				
⌊>	Bi	209		105.734			
⌈	Na	23					

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 18:25:31

Approved: March 30, 2011



|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	V	51	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Cr	52	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Mn	55	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Zn	66	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Se	82	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Ag	107	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Tl	203	LLCCV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 18:25:31
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: LCSW 81 WG359793-05

Sample Date/Time: Tuesday, March 29, 2011 18:30:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 106
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17548.789	0.03				ug/L
|	Be	9	6055.166	0.05	27.3760	0.481	1.759	ug/L
|	Al	27	113541.336	0.89	26.1340	1.238	4.738	ug/L
⌊>	Sc	45	121635.389	121635.39				ug/L
⌈	Ti	49	83.342	0.00	0.0072	0.074	1025.852	ug/L
|	V	51	169357.364	0.63	24.6691	0.063	0.254	ug/L
|	Cr	52	155967.429	0.56	25.7052	0.112	0.435	ug/L
|	Cr	53	18362.023	0.07	26.8353	0.912	3.400	ug/L
|	Mn	55	239307.314	0.90	26.9678	0.240	0.888	ug/L
|	Co	59	183012.751	0.69	26.6855	0.271	1.015	ug/L
|	Ni	60	39784.725	0.15	27.4652	0.449	1.636	ug/L
|	Cu	65	40680.321	0.15	27.6048	0.186	0.672	ug/L
|	Zn	66	32633.155	0.12	33.3392	0.223	0.670	ug/L
|>	Ge	72	265237.827	265237.83				ug/L
|	As	75	21140.307	0.08	23.0579	0.192	0.831	ug/L
|	Se	77	1608.129	0.01	21.6289	0.514	2.377	ug/L
|	Se	82	1874.690	0.01	21.4996	0.212	0.987	ug/L
⌊	Rb	85	83.335	0.00				mg/L
	Y	89	185363.923	-30673.03				ug/L
	Rh	103	24.667	-0.00				ug/L
⌈	Mo	98	74.097	0.00	0.0200	0.003	14.650	ug/L
|	Ag	107	116303.914	0.45	22.2841	0.153	0.687	ug/L
|	Cd	114	26213.512	0.10	23.9960	0.535	2.228	ug/L
|>	In	115	259154.210	259154.21				ug/L
|	Sn	118	205.469	0.00	-0.0555	0.004	8.077	ug/L
⌊	Sb	123	86006.859	0.33	24.1332	0.169	0.702	ug/L
⌈	Ba	135	34312.111	0.10	24.3481	0.310	1.272	ug/L
|	Ce	140	103.344	0.00				ug/L
⌊>	Tb	159	339653.118	339653.12				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	159241.944	0.53	24.7467	0.073	0.293	ug/L
|	Tl	205	388844.788	1.29	24.6793	0.479	1.942	ug/L
|	Pb	206	136153.684	0.45	26.3180	0.117	0.443	ug/L
|	Pb	207	120392.599	0.40	24.7554	0.239	0.967	ug/L
|	Pb	208	553707.875	1.83	25.5424	0.274	1.072	ug/L
|	U	238	895397.456	2.96	27.6736	0.409	1.479	ug/L
⌊>	Bi	209	302489.481	302489.48				ug/L

Sample ID: LCSW 81 WG359793-05
Report Date/Time: Tuesday, March 29, 2011 18:32:22
Page 1

Approved: March 30, 2011

⌈	Na	23	408472.554	1.98	0.0807	0.006	7.023	mg/L
|	Mg	24	29349.274	0.24	0.0075	0.000	3.378	mg/L
|	K	39	381190.169	0.50	0.0070	0.001	15.074	mg/L
|	Ca	43	580.075	0.00	0.0191	0.004	22.175	mg/L
|	Fe	54	57307.323	0.24	0.0673	0.010	14.699	mg/L
|	Fe	57	5415.347	-0.01	-0.0070	0.002	28.609	mg/L
⌊>	Sc-1	45	121635.389	121635.39				mg/L
	Cl	35	22401.071	12550.89				mg/L
	Kr	83	59.334	-12.67				mg/L
	Br	81	5298.074	-727.08				mg/L
	P	31	9194.272	3461.27				mg/L
	S	34	110079.337	-7839.88				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		84.233			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.118			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		89.523			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		95.596			
⌈	Na	23					

Sample ID: LCSW 81 WG359793-05
Report Date/Time: Tuesday, March 29, 2011 18:32:22
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCSW 81 WG359793-05
Report Date/Time: Tuesday, March 29, 2011 18:32:22
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079017

Sample Date/Time: Tuesday, March 29, 2011 18:36:57
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 107
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17431.944	0.02				ug/L
|	Be	9	21.333	0.00	0.0544	0.016	29.385	ug/L
|	Al	27	1630788.531	12.35	367.5591	4.613	1.255	ug/L
⌊>	Sc	45	131593.734	131593.73				ug/L
⌈	Ti	49	2343.844	0.01	5.4272	0.540	9.956	ug/L
|	V	51	7660.208	0.02	0.7714	0.035	4.598	ug/L
|	Cr	52	12449.536	0.01	0.7534	0.012	1.638	ug/L
|	Cr	53	1616.959	0.00	2.0596	0.088	4.255	ug/L
|	Mn	55	7355472.695	27.35	822.6286	14.746	1.793	ug/L
|	Co	59	5625.638	0.02	0.7975	0.011	1.359	ug/L
|	Ni	60	2856.103	0.01	1.8761	0.006	0.323	ug/L
|	Cu	65	2627.371	0.01	1.6686	0.035	2.100	ug/L
|	Zn	66	31123.372	0.11	31.1707	1.289	4.136	ug/L
|>	Ge	72	268879.224	268879.22				ug/L
|	As	75	796.810	0.00	0.9925	0.092	9.266	ug/L
|	Se	77	122.001	0.00	0.7337	0.175	23.795	ug/L
|	Se	82	102.559	0.00	1.2453	0.242	19.463	ug/L
⌊	Rb	85	9011.149	0.03				mg/L
	Y	89	189283.781	-26753.17				ug/L
	Rh	103	49.667	25.00				ug/L
⌈	Mo	98	1122.284	0.00	0.4278	0.012	2.782	ug/L
|	Ag	107	6482.507	0.03	1.2459	0.111	8.907	ug/L
|	Cd	114	25.292	0.00	0.0185	0.004	20.003	ug/L
|>	In	115	257819.878	257819.88				ug/L
|	Sn	118	958.579	0.00	0.1411	0.008	5.875	ug/L
⌊	Sb	123	273.452	0.00	0.0873	0.003	3.394	ug/L
⌈	Ba	135	67098.731	0.19	46.5353	1.121	2.409	ug/L
|	Ce	140	23433.131	0.07				ug/L
⌊>	Tb	159	347725.882	347725.88				ug/L
⌈	Ho	165	546.737	0.00				ug/L
|	Tl	203	180.337	0.00	0.0353	0.003	8.769	ug/L
|	Tl	205	426.719	0.00	0.0275	0.006	21.262	ug/L
|	Pb	206	2585.694	0.01	0.4505	0.016	3.661	ug/L
|	Pb	207	2259.945	0.01	0.4199	0.014	3.342	ug/L
|	Pb	208	10440.593	0.03	0.4334	0.003	0.775	ug/L
|	U	238	5952.831	0.02	0.1799	0.001	0.822	ug/L
⌊>	Bi	209	305166.095	305166.09				ug/L

Sample ID: L1103079017
Report Date/Time: Tuesday, March 29, 2011 18:39:09
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	135480991.005	1028.60	35.6356	1.588	4.455	mg/L
|	Mg	24	18887359.686	143.53	7.2292	0.160	2.206	mg/L
|	K	39	9384218.210	68.69	1.7803	0.032	1.782	mg/L
|	Ca	43	326967.202	2.48	26.3166	0.577	2.192	mg/L
|	Fe	54	354355.403	2.46	0.7247	0.019	2.555	mg/L
|	Fe	57	140399.536	1.02	0.7094	0.015	2.127	mg/L
⌊>	Sc-1	45	131593.734	131593.73				mg/L
	Cl	35	1111083.769	1101233.59				mg/L
	Kr	83	51.001	-21.00				mg/L
	Br	81	109495.784	103470.63				mg/L
	P	31	20366.728	14633.72				mg/L
	S	34	313956.020	196036.80				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		85.390			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		85.674			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.651			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		96.442			
⌈	Na	23					

Sample ID: L1103079017
Report Date/Time: Tuesday, March 29, 2011 18:39:09
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079017PS WG359899-05

Sample Date/Time: Tuesday, March 29, 2011 18:43:44
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 108
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17448.578	0.03				ug/L
|	Be	9	11850.351	0.10	53.1346	2.960	5.570	ug/L
|	Al	27	1793537.006	14.59	434.1744	37.938	8.738	ug/L
⌊>	Sc	45	122935.674	122935.67				ug/L
⌈	Ti	49	2874.062	0.01	6.9763	2.304	33.025	ug/L
|	V	51	315600.588	1.21	47.4685	0.367	0.773	ug/L
|	Cr	52	281491.313	1.06	48.7582	0.740	1.517	ug/L
|	Cr	53	34198.506	0.13	51.5386	2.015	3.910	ug/L
|	Mn	55	7452937.222	28.82	866.7020	7.086	0.818	ug/L
|	Co	59	340536.685	1.32	50.9387	0.623	1.224	ug/L
|	Ni	60	72840.760	0.28	51.6396	0.586	1.136	ug/L
|	Cu	65	74232.034	0.29	51.7476	1.087	2.100	ug/L
|	Zn	66	66969.175	0.26	73.8947	0.367	0.496	ug/L
| >	Ge	72	258593.825	258593.82				ug/L
|	As	75	40024.317	0.16	44.6427	0.352	0.788	ug/L
|	Se	77	2967.774	0.01	41.7868	2.081	4.981	ug/L
|	Se	82	3558.841	0.01	41.7772	0.607	1.452	ug/L
⌊	Rb	85	8773.936	0.03				mg/L
	Y	89	184993.829	-31043.12				ug/L
	Rh	103	61.001	36.33				ug/L
⌈	Mo	98	1098.473	0.00	0.4300	0.011	2.556	ug/L
|	Ag	107	194582.165	0.78	38.4981	0.555	1.441	ug/L
|	Cd	114	47167.681	0.19	44.5779	1.272	2.853	ug/L
| >	In	115	251013.502	251013.50				ug/L
|	Sn	118	878.305	0.00	0.1264	0.004	2.796	ug/L
⌊	Sb	123	158585.799	0.63	45.9359	0.458	0.996	ug/L
⌈	Ba	135	127922.615	0.38	92.0994	0.434	0.472	ug/L
|	Ce	140	23132.420	0.07				ug/L
⌊>	Tb	159	335005.408	335005.41				ug/L
⌈	Ho	165	400.048	0.00				ug/L
|	Tl	203	293751.783	1.01	47.5124	0.347	0.730	ug/L
|	Tl	205	722812.227	2.49	47.7592	0.376	0.788	ug/L
|	Pb	206	249218.064	0.86	50.1841	0.507	1.011	ug/L
|	Pb	207	221364.302	0.76	47.4160	0.483	1.018	ug/L
|	Pb	208	1017156.877	3.50	48.8805	0.286	0.586	ug/L
|	U	238	1693001.920	5.83	54.4752	0.469	0.860	ug/L
⌊>	Bi	209	290600.312	290600.31				ug/L

Sample ID: L1103079017PS WG359899-05
Report Date/Time: Tuesday, March 29, 2011 18:45:56
Page 1

Approved: March 30, 2011

⌈	Na	23	130449988.541	1061.58	36.7780	1.880	5.113	mg/L
|	Mg	24	18420987.731	150.11	7.5608	0.403	5.331	mg/L
|	K	39	8968070.576	70.44	1.8259	0.103	5.658	mg/L
|	Ca	43	304751.766	2.48	26.3026	1.515	5.762	mg/L
|	Fe	54	339501.987	2.54	0.7466	0.044	5.850	mg/L
|	Fe	57	132421.068	1.03	0.7183	0.053	7.381	mg/L
⌊>	Sc-1	45	122935.674	122935.67				mg/L
	Cl	35	1056902.042	1047051.86				mg/L
	Kr	83	59.334	-12.67				mg/L
	Br	81	109470.877	103445.72				mg/L
	P	31	20201.722	14468.72				mg/L
	S	34	305029.272	187110.05				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		82.123			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		83.412			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		88.298			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		91.838			
⌈	Na	23					

Sample ID: L1103079017PS WG359899-05
Report Date/Time: Tuesday, March 29, 2011 18:45:56
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103079017PS WG359899-05
Report Date/Time: Tuesday, March 29, 2011 18:45:56
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079017SDL WG359899-06

Sample Date/Time: Tuesday, March 29, 2011 18:50:31
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 109
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17331.674	0.03				ug/L
|	Be	9	20.000	0.00	0.0571	0.031	53.921	ug/L
|	Al	27	346733.431	2.83	84.0016	7.713	9.182	ug/L
⌊>	Sc	45	120877.218	120877.22				ug/L
⌈	Ti	49	610.081	0.00	1.2522	0.479	38.257	ug/L
|	V	51	3042.875	0.00	0.0942	0.010	10.474	ug/L
|	Cr	52	7872.844	-0.00	-0.0437	0.011	24.356	ug/L
|	Cr	53	793.444	0.00	0.8482	0.043	5.120	ug/L
|	Mn	55	1473203.270	5.42	163.0439	1.360	0.834	ug/L
|	Co	59	1128.408	0.00	0.1488	0.009	6.002	ug/L
|	Ni	60	670.363	0.00	0.3792	0.009	2.417	ug/L
|	Cu	65	1011.395	0.00	0.5766	0.021	3.691	ug/L
|	Zn	66	19320.172	0.07	17.8666	0.324	1.815	ug/L
|>	Ge	72	271499.900	271499.90				ug/L
|	As	75	138.948	0.00	0.2873	0.013	4.442	ug/L
|	Se	77	83.334	0.00	0.1870	0.202	107.778	ug/L
|	Se	82	38.517	0.00	0.5194	0.089	17.196	ug/L
⌊	Rb	85	1855.857	0.01				mg/L
	Y	89	184993.925	-31043.02				ug/L
	Rh	103	25.334	0.67				ug/L
⌈	Mo	98	239.694	0.00	0.0840	0.004	5.101	ug/L
|	Ag	107	373.344	0.00	0.0680	0.005	7.126	ug/L
|	Cd	114	8.237	0.00	0.0028	0.005	173.795	ug/L
|>	In	115	259403.298	259403.30				ug/L
|	Sn	118	293.204	0.00	-0.0328	0.001	3.997	ug/L
⌊	Sb	123	347.956	0.00	0.1078	0.010	8.976	ug/L
⌈	Ba	135	13752.254	0.04	9.7144	0.166	1.704	ug/L
|	Ce	140	4648.215	0.01				ug/L
⌊>	Tb	159	340700.498	340700.50				ug/L
⌈	Ho	165	156.684	0.00				ug/L
|	Tl	203	70.334	0.00	0.0182	0.001	7.101	ug/L
|	Tl	205	126.680	0.00	0.0085	0.003	30.100	ug/L
|	Pb	206	846.711	0.00	0.1152	0.007	6.068	ug/L
|	Pb	207	699.698	0.00	0.0999	0.004	3.900	ug/L
|	Pb	208	3295.580	0.01	0.1048	0.003	2.409	ug/L
|	U	238	1346.104	0.00	0.0383	0.001	3.642	ug/L
⌊>	Bi	209	307996.385	307996.39				ug/L

Approved: March 30, 2011

Na	23	27576070.582	227.10	7.8774	0.399	5.071	mg/L	
Mg	24	3965746.718	32.88	1.6524	0.117	7.082	mg/L	
K	39	2044337.149	14.29	0.3656	0.011	3.077	mg/L	
Ca	43	62869.979	0.52	5.4890	0.177	3.233	mg/L	
Fe	54	94961.521	0.56	0.1608	0.015	9.173	mg/L	
Fe	57	31492.670	0.21	0.1447	0.012	8.592	mg/L	
> Sc-1	45	120877.218	120877.22				mg/L	
Cl	35	232146.402	222296.22				mg/L	
Kr	83	55.667	-16.33				mg/L	
Br	81	29000.663	22975.51				mg/L	
P	31	8452.926	2719.92				mg/L	
S	34	158863.402	40944.18				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		86.222			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		86.200			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		89.799			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		97.336			
Na	23					

Sample ID: L1103079017SDL WG359899-06
Report Date/Time: Tuesday, March 29, 2011 18:52:44
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103079017SDL WG359899-06
Report Date/Time: Tuesday, March 29, 2011 18:52:44
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103074402 WG359793-02

Sample Date/Time: Tuesday, March 29, 2011 18:57:19
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 110
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	19686.048	0.04				ug/L
|	Be	9	18.000	0.00	0.0424	0.028	67.094	ug/L
|	Al	27	668150.205	5.18	154.0173	7.244	4.703	ug/L
⌊>	Sc	45	127913.208	127913.21				ug/L
⌈	Ti	49	1043.493	0.00	2.2777	0.281	12.352	ug/L
|	V	51	19416.147	0.06	2.4503	0.059	2.390	ug/L
|	Cr	52	18981.536	0.04	1.8335	0.123	6.684	ug/L
|	Cr	53	2060.418	0.01	2.6701	0.045	1.668	ug/L
|	Mn	55	312421.401	1.15	34.3598	0.070	0.203	ug/L
|	Co	59	3432.623	0.01	0.4759	0.006	1.170	ug/L
|	Ni	60	11014.172	0.04	7.3566	0.066	0.900	ug/L
|	Cu	65	47484.950	0.17	31.4189	0.153	0.488	ug/L
|	Zn	66	116907.563	0.43	124.7946	0.275	0.220	ug/L
|>	Ge	72	272139.663	272139.66				ug/L
|	As	75	230.428	0.00	0.3836	0.027	7.076	ug/L
|	Se	77	103.334	0.00	0.4587	0.181	39.505	ug/L
|	Se	82	20.841	0.00	0.3218	0.137	42.435	ug/L
⌊	Rb	85	7072.571	0.03				mg/L
	Y	89	187174.041	-28862.91				ug/L
	Rh	103	41.334	16.67				ug/L
⌈	Mo	98	1736.707	0.01	0.6572	0.005	0.726	ug/L
|	Ag	107	5783.066	0.02	1.0944	0.045	4.149	ug/L
|	Cd	114	664.358	0.00	0.5985	0.062	10.403	ug/L
|>	In	115	261506.661	261506.66				ug/L
|	Sn	118	375.340	0.00	-0.0123	0.004	30.819	ug/L
⌊	Sb	123	1181.154	0.00	0.3386	0.013	3.831	ug/L
⌈	Ba	135	24723.773	0.07	17.1021	0.163	0.956	ug/L
|	Ce	140	4057.898	0.01				ug/L
⌊>	Tb	159	348287.043	348287.04				ug/L
⌈	Ho	165	86.676	0.00				ug/L
|	Tl	203	124.002	0.00	0.0263	0.004	15.571	ug/L
|	Tl	205	320.037	0.00	0.0205	0.005	23.974	ug/L
|	Pb	206	26005.035	0.08	4.8628	0.031	0.635	ug/L
|	Pb	207	21795.613	0.07	4.3348	0.056	1.292	ug/L
|	Pb	208	102104.267	0.33	4.5546	0.035	0.773	ug/L
|	U	238	5957.167	0.02	0.1770	0.001	0.589	ug/L
⌊>	Bi	209	310325.129	310325.13				ug/L

Sample ID: L1103074402 WG359793-02
Report Date/Time: Tuesday, March 29, 2011 18:59:32
Page 1

Approved: March 30, 2011

⌈	Na	23	127956183.667	999.46	34.6264	1.250	3.610	mg/L
|	Mg	24	9475007.604	74.10	3.7301	0.101	2.702	mg/L
|	K	39	4880664.947	35.52	0.9179	0.011	1.179	mg/L
|	Ca	43	223986.478	1.75	18.5403	0.282	1.521	mg/L
|	Fe	54	217210.921	1.47	0.4306	0.012	2.837	mg/L
|	Fe	57	76673.857	0.55	0.3818	0.003	0.769	mg/L
⌊>	Sc-1	45	127913.208	127913.21				mg/L
	Cl	35	694707.830	684857.65				mg/L
	Kr	83	56.667	-15.33				mg/L
	Br	81	17355.719	11330.56				mg/L
	P	31	11984.513	6251.51				mg/L
	S	34	322517.816	204598.60				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.425			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.899			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.799			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.072			
⌈	Na	23					

Sample ID: L1103074402 WG359793-02
Report Date/Time: Tuesday, March 29, 2011 18:59:32
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Sample ID: L1103074402 WG359793-02
Report Date/Time: Tuesday, March 29, 2011 18:59:32
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103074402S WG359793-08

Sample Date/Time: Tuesday, March 29, 2011 19:04:08
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 111
Method File: C:\elandata\Method\6020a.mth
Sample Description: 1

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18984.690	0.02				ug/L
|	Be	9	7049.151	0.05	28.0784	0.252	0.897	ug/L
|	Al	27	690124.758	4.95	147.1931	14.928	10.142	ug/L
⌊>	Sc	45	138029.556	138029.56				ug/L
⌈	Ti	49	953.474	0.00	1.9958	0.212	10.637	ug/L
|	V	51	197946.489	0.70	27.2925	0.318	1.165	ug/L
|	Cr	52	172572.510	0.58	26.9489	0.338	1.253	ug/L
|	Cr	53	20499.709	0.07	28.3361	0.489	1.724	ug/L
|	Mn	55	569674.810	2.03	60.8954	1.170	1.922	ug/L
|	Co	59	196052.620	0.70	27.0226	0.273	1.012	ug/L
|	Ni	60	51761.480	0.18	33.7940	0.363	1.073	ug/L
|	Cu	65	90260.881	0.32	58.0045	1.229	2.118	ug/L
|	Zn	66	145197.381	0.52	151.0141	1.734	1.148	ug/L
| >	Ge	72	280588.475	280588.48				ug/L
|	As	75	22824.406	0.08	23.5292	0.404	1.715	ug/L
|	Se	77	1678.808	0.01	21.3307	0.712	3.339	ug/L
|	Se	82	1960.745	0.01	21.2574	0.736	3.461	ug/L
⌊	Rb	85	6826.732	0.02				mg/L
	Y	89	191645.009	-24391.94				ug/L
	Rh	103	39.667	15.00				ug/L
⌈	Mo	98	1759.008	0.01	0.6496	0.017	2.634	ug/L
|	Ag	107	97485.874	0.36	18.0648	0.165	0.911	ug/L
|	Cd	114	27828.356	0.10	24.6398	0.222	0.902	ug/L
| >	In	115	267952.073	267952.07				ug/L
|	Sn	118	338.939	0.00	-0.0237	0.002	7.907	ug/L
⌊	Sb	123	87668.615	0.33	23.7939	0.293	1.231	ug/L
⌈	Ba	135	60977.627	0.17	41.4602	0.165	0.398	ug/L
|	Ce	140	3651.033	0.01				ug/L
⌊>	Tb	159	354618.648	354618.65				ug/L
⌈	Ho	165	80.008	0.00				ug/L
|	Tl	203	170176.150	0.54	25.2452	0.116	0.459	ug/L
|	Tl	205	420100.672	1.33	25.4553	0.128	0.502	ug/L
|	Pb	206	170229.045	0.54	31.4183	0.114	0.364	ug/L
|	Pb	207	150031.588	0.47	29.4550	0.072	0.245	ug/L
|	Pb	208	692417.165	2.18	30.4976	0.146	0.480	ug/L
|	U	238	1002485.933	3.16	29.5791	0.194	0.657	ug/L
⌊>	Bi	209	316881.169	316881.17				ug/L

Sample ID: L1103074402S WG359793-08
Report Date/Time: Tuesday, March 29, 2011 19:06:21
Page 1

Approved: March 30, 2011

⌈	Na	23	134134540.573	970.70	33.6305	1.034	3.076	mg/L
|	Mg	24	9631712.456	69.79	3.5126	0.049	1.399	mg/L
|	K	39	4900085.333	32.87	0.8488	0.019	2.258	mg/L
|	Ca	43	230289.514	1.67	17.6633	0.688	3.896	mg/L
|	Fe	54	206654.631	1.27	0.3709	0.012	3.129	mg/L
|	Fe	57	71263.464	0.47	0.3236	0.005	1.664	mg/L
⌊>	Sc-1	45	138029.556	138029.56				mg/L
	Cl	35	707822.118	697971.93				mg/L
	Kr	83	55.001	-17.00				mg/L
	Br	81	16698.597	10673.44				mg/L
	P	31	11832.334	6099.33				mg/L
	S	34	334856.659	216937.44				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.108			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		89.041			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.468			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.144			
⌈	Na	23					

Sample ID: L1103074402S WG359793-08
Report Date/Time: Tuesday, March 29, 2011 19:06:21
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Zn 66 Upper, S, EEE	Zn	66	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 19:10:55
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17899.342	0.03				ug/L
|	Be	9	14145.333	0.11	62.6413	7.124	11.372	ug/L
|	Al	27	220010.892	1.73	51.0935	6.321	12.371	ug/L
⌊>	Sc	45	125303.237	125303.24				ug/L
⌈	Ti	49	42229.938	0.15	98.2784	3.102	3.156	ug/L
|	V	51	341713.871	1.23	48.0686	0.656	1.365	ug/L
|	Cr	52	306887.416	1.08	49.7405	0.493	0.991	ug/L
|	Cr	53	35576.763	0.13	50.1318	1.607	3.206	ug/L
|	Mn	55	474080.684	1.71	51.3991	0.400	0.779	ug/L
|	Co	59	373992.458	1.35	52.3221	0.216	0.413	ug/L
|	Ni	60	79248.573	0.29	52.5480	0.517	0.984	ug/L
|	Cu	65	81195.111	0.29	52.9424	0.214	0.404	ug/L
|	Zn	66	51000.899	0.18	51.6634	0.276	0.533	ug/L
⌊>	Ge	72	276500.615	276500.62				ug/L
|	As	75	47363.840	0.17	49.3943	0.841	1.702	ug/L
|	Se	77	3931.439	0.01	52.0056	0.465	0.894	ug/L
|	Se	82	4632.287	0.02	50.8360	0.777	1.529	ug/L
⌊	Rb	85	1850.523	0.01				mg/L
	Y	89	184192.672	-31844.28				ug/L
	Rh	103	38.000	13.33				ug/L
⌈	Mo	98	260505.787	0.98	97.9558	0.196	0.200	ug/L
|	Ag	107	237688.894	0.89	44.2681	0.244	0.551	ug/L
|	Cd	114	56152.901	0.21	49.9765	1.352	2.706	ug/L
⌊>	In	115	266623.750	266623.75				ug/L
|	Sn	118	202920.134	0.76	51.0503	0.286	0.559	ug/L
⌊	Sb	123	183875.647	0.69	50.1395	0.591	1.180	ug/L
⌈	Ba	135	70693.070	0.20	48.9307	0.550	1.124	ug/L
|	Ce	140	50.005	0.00				ug/L
⌊>	Tb	159	348383.042	348383.04				ug/L
⌈	Ho	165	26.669	0.00				ug/L
|	Tl	203	327770.461	1.04	48.7288	0.333	0.684	ug/L
|	Tl	205	808294.040	2.56	49.0751	0.738	1.504	ug/L
|	Pb	206	268536.453	0.85	49.7112	1.304	2.623	ug/L
|	Pb	207	252966.408	0.80	49.8069	0.511	1.026	ug/L
|	Pb	208	1133065.184	3.58	50.0516	0.569	1.137	ug/L
|	U	238	1913247.259	6.05	56.5923	1.100	1.944	ug/L
⌊>	Bi	209	316185.590	316185.59				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 19:13:08
Page 1

Approved: March 30, 2011

Na	23	19013666.846	151.47	5.2582	0.520	9.893	mg/L	
Mg	24	13104140.501	105.28	5.3014	0.478	9.016	mg/L	
K	39	24925235.399	197.82	5.1381	0.537	10.444	mg/L	
Ca	43	60525.501	0.48	5.1178	0.378	7.381	mg/L	
Fe	54	2214462.610	17.57	5.1944	0.494	9.502	mg/L	
Fe	57	956016.694	7.62	5.3375	0.408	7.647	mg/L	
> Sc-1	45	125303.237	125303.24				mg/L	
Cl	35	12095.978	2245.79				mg/L	
Kr	83	60.667	-11.33				mg/L	
Br	81	5836.373	-188.78				mg/L	
P	31	5305.435	-427.57				mg/L	
S	34	123986.229	6067.01				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51	96.137				
Cr	52	99.481				
Cr	53					
Mn	55	102.798				
Co	59	104.644				
Ni	60	105.096				
Cu	65	105.885				
Zn	66	103.327				
> Ge	72		87.810			
As	75	98.789				
Se	77					
Se	82	101.672				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	88.536				
Cd	114	99.953				
> In	115		88.600			
Sn	118					
Sb	123	100.279				
Ba	135	97.861				
Ce	140					
> Tb	159		91.824			
Ho	165					
Tl	203	97.458				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.103				
U	238	113.185				
> Bi	209		99.924			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 19:13:08

Approved: March 30, 2011

Erin D. Long

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Ag	107	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 19:17:41
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17999.528	0.03				ug/L
|	Be	9	13.333	-0.00	0.0241	0.028	118.076	ug/L
|	Al	27	4684.431	-0.01	-0.5812	0.019	3.233	ug/L
⌊>	Sc	45	125972.171	125972.17				ug/L
⌈	Ti	49	76.675	0.00	-0.0196	0.048	247.768	ug/L
|	V	51	1904.985	-0.00	-0.0798	0.012	14.519	ug/L
|	Cr	52	6498.509	-0.01	-0.3161	0.010	3.143	ug/L
|	Cr	53	383.379	0.00	0.2365	0.059	24.790	ug/L
|	Mn	55	343.676	-0.00	-0.1326	0.002	1.228	ug/L
|	Co	59	64.001	-0.00	-0.0033	0.002	66.120	ug/L
|	Ni	60	52.334	-0.00	-0.0400	0.007	17.450	ug/L
|	Cu	65	153.669	0.00	0.0022	0.002	69.388	ug/L
|	Zn	66	420.346	-0.00	-2.9198	0.019	0.646	ug/L
|>	Ge	72	281556.505	281556.51				ug/L
|	As	75	-98.919	0.00	0.0392	0.010	25.546	ug/L
|	Se	77	51.333	-0.00	-0.2768	0.191	69.168	ug/L
|	Se	82	3.817	0.00	0.1311	0.025	19.380	ug/L
⌊	Rb	85	23.000	-0.00				mg/L
	Y	89	189453.255	-26583.69				ug/L
	Rh	103	20.000	-4.67				ug/L
⌈	Mo	98	111.284	0.00	0.0325	0.004	13.274	ug/L
|	Ag	107	107.335	0.00	0.0162	0.001	4.472	ug/L
|	Cd	114	1.415	0.00	-0.0036	0.004	101.781	ug/L
|>	In	115	270840.951	270840.95				ug/L
|	Sn	118	254.270	0.00	-0.0457	0.004	7.974	ug/L
⌊	Sb	123	87.404	0.00	0.0337	0.003	10.127	ug/L
⌈	Ba	135	30.334	-0.00	-0.0037	0.004	120.246	ug/L
|	Ce	140	13.335	-0.00				ug/L
⌊>	Tb	159	354503.524	354503.52				ug/L
⌈	Ho	165	23.336	-0.00				ug/L
|	Tl	203	57.334	0.00	0.0159	0.002	11.083	ug/L
|	Tl	205	126.680	0.00	0.0082	0.003	39.876	ug/L
|	Pb	206	295.007	0.00	0.0078	0.001	17.317	ug/L
|	Pb	207	267.006	-0.00	0.0101	0.002	15.587	ug/L
|	Pb	208	1179.039	0.00	0.0065	0.001	22.125	ug/L
|	U	238	165.670	0.00	0.0023	0.000	20.678	ug/L
⌊>	Bi	209	321586.592	321586.59				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 19:19:52
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	94904.373	-0.63	-0.0095	0.001	5.764	mg/L
|	Mg	24	636.752	0.00	-0.0044	0.000	1.760	mg/L
|	K	39	327668.545	-0.04	-0.0068	0.001	8.712	mg/L
|	Ca	43	276.698	-0.00	-0.0083	0.002	21.023	mg/L
|	Fe	54	29697.473	0.00	-0.0024	0.003	106.265	mg/L
|	Fe	57	5091.819	-0.01	-0.0099	0.003	29.487	mg/L
⌊>	Sc-1	45	125972.171	125972.17				mg/L
	Cl	35	11281.027	1430.84				mg/L
	Kr	83	59.334	-12.67				mg/L
	Br	81	5845.042	-180.11				mg/L
	P	31	5886.399	153.39				mg/L
	S	34	122930.247	5011.03				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		89.416			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.001			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.437			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		101.631			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 19:19:52
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 19:19:52
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, March 29, 2011 19:24:28
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17264.924	0.02				ug/L
|	Be	9	13.333	-0.00	0.0221	0.012	53.380	ug/L
|	Al	27	3117.157	-0.02	-0.9735	0.089	9.165	ug/L
⌊>	Sc	45	129989.993	129989.99				ug/L
⌈	Ti	49	43.338	-0.00	-0.0970	0.035	35.923	ug/L
|	V	51	4918.870	0.01	0.3331	0.035	10.443	ug/L
|	Cr	52	11703.296	0.01	0.5171	0.040	7.737	ug/L
|	Cr	53	906.799	0.00	0.9529	0.194	20.369	ug/L
|	Mn	55	5379.501	0.02	0.3999	0.011	2.841	ug/L
|	Co	59	3185.873	0.01	0.4216	0.010	2.442	ug/L
|	Ni	60	2719.064	0.01	1.6820	0.030	1.809	ug/L
|	Cu	65	1529.799	0.00	0.8756	0.021	2.406	ug/L
|	Zn	66	6799.714	0.02	3.7713	0.256	6.799	ug/L
|>	Ge	72	284264.504	284264.50				ug/L
|	As	75	244.047	0.00	0.3870	0.063	16.262	ug/L
|	Se	77	90.667	0.00	0.2323	0.199	85.456	ug/L
|	Se	82	29.473	0.00	0.4041	0.103	25.460	ug/L
⌊	Rb	85	23.667	-0.00				mg/L
	Y	89	193092.990	-22943.96				ug/L
	Rh	103	18.667	-6.00				ug/L
⌈	Mo	98	73.138	0.00	0.0181	0.004	23.255	ug/L
|	Ag	107	875.714	0.00	0.1555	0.004	2.629	ug/L
|	Cd	114	235.777	0.00	0.1997	0.011	5.387	ug/L
|>	In	115	273578.057	273578.06				ug/L
|	Sn	118	174.135	0.00	-0.0660	0.003	5.036	ug/L
⌊	Sb	123	1567.463	0.01	0.4267	0.008	1.926	ug/L
⌈	Ba	135	1108.739	0.00	0.7232	0.022	3.018	ug/L
|	Ce	140	23.336	-0.00				ug/L
⌊>	Tb	159	357776.134	357776.13				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	578.023	0.00	0.0922	0.006	6.499	ug/L
|	Tl	205	1210.194	0.00	0.0730	0.001	1.954	ug/L
|	Pb	206	2567.689	0.01	0.4228	0.007	1.588	ug/L
|	Pb	207	2428.653	0.01	0.4300	0.014	3.163	ug/L
|	Pb	208	10640.323	0.03	0.4187	0.005	1.165	ug/L
|	U	238	15458.427	0.05	0.4479	0.003	0.669	ug/L
⌊>	Bi	209	320867.185	320867.18				ug/L

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 19:26:42
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	11397.637	-1.29	-0.0326	0.000	0.399	mg/L
|	Mg	24	373.378	0.00	-0.0046	0.000	0.127	mg/L
|	K	39	325702.115	-0.13	-0.0093	0.002	24.096	mg/L
|	Ca	43	256.696	-0.00	-0.0105	0.006	57.092	mg/L
|	Fe	54	29677.689	-0.00	-0.0045	0.005	122.152	mg/L
|	Fe	57	5195.202	-0.01	-0.0102	0.001	13.243	mg/L
⌊>	Sc-1	45	129989.993	129989.99				mg/L
	Cl	35	11236.978	1386.79				mg/L
	Kr	83	60.667	-11.33				mg/L
	Br	81	5620.913	-404.24				mg/L
	P	31	4980.575	-752.43				mg/L
	S	34	120869.485	2950.27				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	83.272				
|	Cr	52	64.637				
|	Cr	53					
|	Mn	55	79.984				
|	Co	59	105.390				
|	Ni	60	105.126				
|	Cu	65	109.454				
|	Zn	66	60.340				
|>	Ge	72		90.276			
|	As	75	96.761				
|	Se	77					
|	Se	82	101.015				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	38.871				
|	Cd	114	99.828				
|>	In	115		90.911			
|	Sn	118					
⌊	Sb	123	106.683				
⌈	Ba	135	96.427				
|	Ce	140					
⌊>	Tb	159		94.300			
⌈	Ho	165					
|	Tl	203	115.199				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	104.684				
|	U	238	111.987				
⌊>	Bi	209		101.404			
⌈	Na	23					

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 19:26:42
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Cr	52	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Mn	55	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Zn	66	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Ag	107	LLCCV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 19:26:42
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103076201

Sample Date/Time: Tuesday, March 29, 2011 19:31:18
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 112
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17849.371	0.02				ug/L
|	Be	9	136.001	0.00	0.5184	0.084	16.258	ug/L
|	Al	27	22987347.161	170.39	5076.2076	198.199	3.904	ug/L
⌊>	Sc	45	134837.234	134837.23				ug/L
⌈	Ti	49	3944.506	0.01	9.0141	0.020	0.218	ug/L
|	V	51	84153.109	0.29	11.5908	0.305	2.630	ug/L
|	Cr	52	69690.684	0.22	10.2417	0.454	4.437	ug/L
|	Cr	53	7923.931	0.03	10.9474	0.178	1.624	ug/L
|	Mn	55	2417356.642	8.75	263.0171	14.335	5.450	ug/L
|	Co	59	51645.846	0.19	7.2217	0.379	5.241	ug/L
|	Ni	60	27148.114	0.10	17.9698	0.599	3.333	ug/L
|	Cu	65	33173.337	0.12	21.5934	0.769	3.563	ug/L
|	Zn	66	43795.300	0.16	43.9292	1.977	4.500	ug/L
|>	Ge	72	276186.848	276186.85				ug/L
|	As	75	7219.453	0.03	7.6552	0.226	2.952	ug/L
|	Se	77	122.001	0.00	0.6898	0.045	6.569	ug/L
|	Se	82	47.781	0.00	0.6130	0.178	28.975	ug/L
⌊	Rb	85	60351.665	0.22				mg/L
	Y	89	254302.323	38265.37				ug/L
	Rh	103	62.334	37.67				ug/L
⌈	Mo	98	6587.225	0.03	2.5144	0.112	4.454	ug/L
|	Ag	107	12142.546	0.05	2.2996	0.235	10.226	ug/L
|	Cd	114	212.872	0.00	0.1881	0.021	10.941	ug/L
|>	In	115	261731.759	261731.76				ug/L
|	Sn	118	166.801	0.00	-0.0659	0.004	5.866	ug/L
⌊	Sb	123	72.320	0.00	0.0303	0.002	5.668	ug/L
⌈	Ba	135	2009935.798	5.75	1387.0706	43.731	3.153	ug/L
|	Ce	140	256890.887	0.73				ug/L
⌊>	Tb	159	349604.678	349604.68				ug/L
⌈	Ho	165	4991.750	0.02				ug/L
|	Tl	203	1618.481	0.01	0.2575	0.022	8.682	ug/L
|	Tl	205	3977.858	0.01	0.2517	0.018	7.239	ug/L
|	Pb	206	64241.852	0.21	12.3212	0.472	3.831	ug/L
|	Pb	207	53851.965	0.18	10.9853	0.444	4.039	ug/L
|	Pb	208	251405.282	0.82	11.5050	0.383	3.331	ug/L
|	U	238	31375.828	0.10	0.9617	0.033	3.393	ug/L
⌊>	Bi	209	304258.987	304258.99				ug/L

Sample ID: L1103076201
Report Date/Time: Tuesday, March 29, 2011 19:33:31
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	4271869.244	30.31	1.0619	0.068	6.392	mg/L	
Mg	24	5839380.196	43.32	2.1788	0.068	3.118	mg/L	
K	39	4258065.927	28.97	0.7474	0.028	3.751	mg/L	
Ca	43	61417.559	0.45	4.8012	0.136	2.843	mg/L	
Fe	54	6959240.895	51.40	15.2083	0.518	3.407	mg/L	
Fe	57	2983288.892	22.09	15.4764	0.769	4.969	mg/L	
> Sc-1	45	134837.234	134837.23				mg/L	
Cl	35	51519.052	41668.87				mg/L	
Kr	83	63.668	-8.33				mg/L	
Br	81	6915.725	890.57				mg/L	
P	31	60469.183	54736.18				mg/L	
S	34	187890.971	69971.75				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
> Sc	45					
Ti	49					
V	51					
Cr	52					
Cr	53					
Mn	55					
Co	59					
Ni	60					
Cu	65					
Zn	66					
> Ge	72		87.710			
As	75					
Se	77					
Se	82					
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107					
Cd	114					
> In	115		86.974			
Sn	118					
Sb	123					
Ba	135					
Ce	140					
> Tb	159		92.146			
Ho	165					
Tl	203					
Tl	205					
Pb	206					
Pb	207					
Pb	208					
U	238					
> Bi	209		96.155			
Na	23					

Sample ID: L1103076201
Report Date/Time: Tuesday, March 29, 2011 19:33:31
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103076203

Sample Date/Time: Tuesday, March 29, 2011 19:38:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 113
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

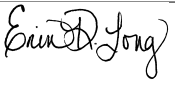
User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15762.451	0.01				ug/L
|	Be	9	122.667	0.00	0.5012	0.116	23.074	ug/L
|	Al	27	17206048.260	136.94	4079.6182	113.332	2.778	ug/L
⌊>	Sc	45	125550.507	125550.51				ug/L
⌈	Ti	49	3814.452	0.01	8.8807	1.384	15.586	ug/L
|	V	51	76290.583	0.27	10.6789	1.027	9.613	ug/L
|	Cr	52	56886.435	0.18	8.2843	0.786	9.482	ug/L
|	Cr	53	6325.981	0.02	8.8483	1.074	12.135	ug/L
|	Mn	55	2700139.391	9.96	299.3980	30.211	10.090	ug/L
|	Co	59	73446.234	0.27	10.4704	1.060	10.124	ug/L
|	Ni	60	26790.875	0.10	18.0658	1.389	7.687	ug/L
|	Cu	65	31525.757	0.12	20.9035	1.695	8.110	ug/L
|	Zn	66	39603.588	0.14	40.2101	3.567	8.870	ug/L
|>	Ge	72	271309.515	271309.51				ug/L
|	As	75	3449.071	0.01	3.7979	0.314	8.268	ug/L
|	Se	77	104.667	0.00	0.4818	0.100	20.813	ug/L
|	Se	82	60.746	0.00	0.7691	0.126	16.356	ug/L
⌊	Rb	85	43571.140	0.16				mg/L
	Y	89	227965.003	11928.05				ug/L
	Rh	103	58.334	33.67				ug/L
⌈	Mo	98	10128.974	0.04	3.8793	0.313	8.061	ug/L
|	Ag	107	7629.670	0.03	1.4475	0.153	10.575	ug/L
|	Cd	114	192.611	0.00	0.1702	0.022	12.790	ug/L
|>	In	115	261324.382	261324.38				ug/L
|	Sn	118	287.471	0.00	-0.0348	0.005	14.591	ug/L
⌊	Sb	123	71.896	0.00	0.0302	0.002	5.567	ug/L
⌈	Ba	135	1835633.464	5.33	1285.6892	103.726	8.068	ug/L
|	Ce	140	219310.181	0.64				ug/L
⌊>	Tb	159	344496.160	344496.16				ug/L
⌈	Ho	165	3080.783	0.01				ug/L
|	Tl	203	2279.950	0.01	0.3645	0.030	8.148	ug/L
|	Tl	205	5745.569	0.02	0.3683	0.041	11.001	ug/L
|	Pb	206	57959.540	0.19	11.2654	0.861	7.647	ug/L
|	Pb	207	48409.020	0.16	10.0071	0.743	7.429	ug/L
|	Pb	208	227563.542	0.75	10.5536	0.805	7.630	ug/L
|	U	238	38480.623	0.13	1.1965	0.112	9.376	ug/L
⌊>	Bi	209	300282.782	300282.78				ug/L

Sample ID: L1103076203
Report Date/Time: Tuesday, March 29, 2011 19:40:20
Page 1

Approved: March 30, 2011



⌈	Na	23	4449528.114	34.05	1.1916	0.067	5.658	mg/L
|	Mg	24	5324398.475	42.40	2.1321	0.147	6.918	mg/L
|	K	39	3697265.697	26.80	0.6910	0.030	4.271	mg/L
|	Ca	43	65370.109	0.52	5.4888	0.303	5.517	mg/L
|	Fe	54	5238408.281	41.45	12.2625	0.936	7.632	mg/L
|	Fe	57	2253877.144	17.88	12.5252	0.950	7.583	mg/L
⌊>	Sc-1	45	125550.507	125550.51				mg/L
	Cl	35	43809.791	33959.61				mg/L
	Kr	83	67.668	-4.33				mg/L
	Br	81	6576.162	551.01				mg/L
	P	31	39099.113	33366.11				mg/L
	S	34	144858.529	26939.31				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.162			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.839			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.800			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		94.898			
⌈	Na	23					

Sample ID: L1103076203
Report Date/Time: Tuesday, March 29, 2011 19:40:20
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	
Ba 135 Upper, S, EEE	Ba	135	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079003

Sample Date/Time: Tuesday, March 29, 2011 19:44:56
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 114
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18083.009	0.03				ug/L
|	Be	9	181.335	0.00	0.7341	0.099	13.470	ug/L
|	Al	27	26212104.902	201.58	6005.4324	413.971	6.893	ug/L
⌊>	Sc	45	129955.679	129955.68				ug/L
⌈	Ti	49	3781.098	0.01	8.6605	0.903	10.432	ug/L
|	V	51	67261.456	0.23	9.2258	0.715	7.750	ug/L
|	Cr	52	73325.383	0.23	10.8877	0.848	7.786	ug/L
|	Cr	53	8097.435	0.03	11.2298	0.965	8.596	ug/L
|	Mn	55	1805287.210	6.56	197.0457	11.845	6.011	ug/L
|	Co	59	62306.604	0.23	8.7441	0.548	6.267	ug/L
|	Ni	60	26403.164	0.10	17.5324	1.125	6.417	ug/L
|	Cu	65	24183.181	0.09	15.7683	0.959	6.084	ug/L
|	Zn	66	43082.570	0.15	43.3176	2.733	6.308	ug/L
|>	Ge	72	275339.852	275339.85				ug/L
|	As	75	2426.591	0.01	2.6744	0.228	8.541	ug/L
|	Se	77	78.667	0.00	0.1079	0.261	241.435	ug/L
|	Se	82	5.339	0.00	0.1486	0.066	44.140	ug/L
⌊	Rb	85	62533.120	0.23				mg/L
	Y	89	264070.292	48033.34				ug/L
	Rh	103	21.334	-3.33				ug/L
⌈	Mo	98	192.547	0.00	0.0646	0.009	14.503	ug/L
|	Ag	107	2280.284	0.01	0.4265	0.033	7.826	ug/L
|	Cd	114	35.190	0.00	0.0269	0.011	39.979	ug/L
|>	In	115	263429.177	263429.18				ug/L
|	Sn	118	105.467	-0.00	-0.0819	0.001	1.557	ug/L
⌊	Sb	123	35.611	0.00	0.0200	0.000	1.952	ug/L
⌈	Ba	135	89265.887	0.26	61.9841	4.399	7.096	ug/L
|	Ce	140	341992.910	0.98				ug/L
⌊>	Tb	159	347445.978	347445.98				ug/L
⌈	Ho	165	5955.709	0.02				ug/L
|	Tl	203	449.681	0.00	0.0745	0.004	5.928	ug/L
|	Tl	205	1166.851	0.00	0.0717	0.003	3.627	ug/L
|	Pb	206	41826.298	0.13	7.7275	0.544	7.046	ug/L
|	Pb	207	34994.941	0.11	6.8761	0.418	6.086	ug/L
|	Pb	208	165484.960	0.52	7.2946	0.459	6.297	ug/L
|	U	238	17967.355	0.06	0.5305	0.038	7.092	ug/L
⌊>	Bi	209	315199.973	315199.97				ug/L

Sample ID: L1103079003
Report Date/Time: Tuesday, March 29, 2011 19:47:09
Page 1

Approved: March 30, 2011

⌈	Na	23	319771.420	1.08	0.0496	0.005	10.115	mg/L
|	Mg	24	6269823.194	48.22	2.4258	0.182	7.516	mg/L
|	K	39	2830399.213	19.13	0.4916	0.044	8.932	mg/L
|	Ca	43	16191.402	0.12	1.2893	0.053	4.075	mg/L
|	Fe	54	6615435.967	50.66	14.9875	0.845	5.639	mg/L
|	Fe	57	2929285.856	22.48	15.7485	1.079	6.849	mg/L
⌊>	Sc-1	45	129955.679	129955.68				mg/L
	Cl	35	17523.350	7673.17				mg/L
	Kr	83	76.001	4.00				mg/L
	Br	81	5436.147	-589.01				mg/L
	P	31	50218.664	44485.66				mg/L
	S	34	96543.858	-21375.36				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.441			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		87.538			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.577			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.613			
⌈	Na	23					

Sample ID: L1103079003
Report Date/Time: Tuesday, March 29, 2011 19:47:09
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103079003
Report Date/Time: Tuesday, March 29, 2011 19:47:09

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079005

Sample Date/Time: Tuesday, March 29, 2011 19:51:45
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 115
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17214.825	0.02				ug/L
|	Be	9	167.335	0.00	0.6852	0.082	12.017	ug/L
|	Al	27	18966352.940	148.12	4412.6769	328.842	7.452	ug/L
⌊>	Sc	45	127879.391	127879.39				ug/L
⌈	Ti	49	2577.258	0.01	5.8959	0.575	9.749	ug/L
|	V	51	57860.052	0.20	7.9619	0.537	6.741	ug/L
|	Cr	52	47159.352	0.14	6.5810	0.537	8.162	ug/L
|	Cr	53	5211.886	0.02	7.1885	0.710	9.879	ug/L
|	Mn	55	6650231.703	24.37	732.9063	58.948	8.043	ug/L
|	Co	59	54673.805	0.20	7.7411	0.624	8.060	ug/L
|	Ni	60	17422.376	0.06	11.6483	0.794	6.814	ug/L
|	Cu	65	17273.461	0.06	11.3379	0.882	7.781	ug/L
|	Zn	66	32394.833	0.12	32.0531	2.347	7.322	ug/L
| >	Ge	72	272950.079	272950.08				ug/L
|	As	75	5839.569	0.02	6.2930	0.306	4.863	ug/L
|	Se	77	82.667	0.00	0.1724	0.074	42.942	ug/L
|	Se	82	25.111	0.00	0.3679	0.198	53.934	ug/L
⌊	Rb	85	54558.907	0.20				mg/L
	Y	89	234962.484	18925.54				ug/L
	Rh	103	20.334	-4.33				ug/L
⌈	Mo	98	1784.758	0.01	0.6861	0.057	8.284	ug/L
|	Ag	107	5351.156	0.02	1.0283	0.076	7.438	ug/L
|	Cd	114	103.736	0.00	0.0908	0.028	30.528	ug/L
| >	In	115	257642.042	257642.04				ug/L
|	Sn	118	153.068	0.00	-0.0688	0.003	4.347	ug/L
⌊	Sb	123	69.278	0.00	0.0297	0.003	10.989	ug/L
⌈	Ba	135	116617.051	0.34	81.4393	4.797	5.891	ug/L
|	Ce	140	215798.106	0.62				ug/L
⌊>	Tb	159	345361.673	345361.67				ug/L
⌈	Ho	165	3884.480	0.01				ug/L
|	Tl	203	641.694	0.00	0.1028	0.007	6.992	ug/L
|	Tl	205	1473.590	0.00	0.0901	0.008	8.709	ug/L
|	Pb	206	43478.666	0.14	8.0040	0.524	6.543	ug/L
|	Pb	207	36275.920	0.11	7.1024	0.512	7.213	ug/L
|	Pb	208	171409.399	0.54	7.5287	0.504	6.693	ug/L
|	U	238	14451.940	0.05	0.4246	0.027	6.474	ug/L
⌊>	Bi	209	316374.253	316374.25				ug/L

Sample ID: L1103079005
Report Date/Time: Tuesday, March 29, 2011 19:53:59
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	142305.120	-0.27	0.0029	0.002	52.537	mg/L
|	Mg	24	3334568.284	26.05	1.3083	0.092	7.065	mg/L
|	K	39	2057609.372	13.45	0.3438	0.006	1.743	mg/L
|	Ca	43	22801.684	0.18	1.8578	0.115	6.179	mg/L
|	Fe	54	4465412.860	34.67	10.2559	0.496	4.836	mg/L
|	Fe	57	1973586.775	15.37	10.7643	0.727	6.752	mg/L
⌊>	Sc-1	45	127879.391	127879.39				mg/L
	Cl	35	11019.405	1169.22				mg/L
	Kr	83	64.001	-8.00				mg/L
	Br	81	5751.654	-273.50				mg/L
	P	31	158581.737	152848.73				mg/L
	S	34	95844.551	-22074.67				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.683			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		85.615			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.028			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.984			
⌈	Na	23					

Sample ID: L1103079005
Report Date/Time: Tuesday, March 29, 2011 19:53:59
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Sample ID: L1103079005
Report Date/Time: Tuesday, March 29, 2011 19:53:59
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079007

Sample Date/Time: Tuesday, March 29, 2011 19:58:35
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 116
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17248.207	0.02				ug/L
|	Be	9	198.002	0.00	0.7759	0.081	10.388	ug/L
|	Al	27	28616739.070	212.87	6341.8210	253.199	3.993	ug/L
⌊>	Sc	45	134346.688	134346.69				ug/L
⌈	Ti	49	4067.904	0.01	9.2075	0.798	8.672	ug/L
|	V	51	80089.198	0.28	10.9016	0.689	6.323	ug/L
|	Cr	52	79078.164	0.25	11.6767	0.934	7.996	ug/L
|	Cr	53	9121.738	0.03	12.5153	0.239	1.911	ug/L
|	Mn	55	2981962.007	10.69	321.3264	23.563	7.333	ug/L
|	Co	59	70864.121	0.25	9.8161	0.605	6.163	ug/L
|	Ni	60	30589.795	0.11	20.0565	1.259	6.279	ug/L
|	Cu	65	29231.402	0.10	18.8285	1.280	6.799	ug/L
|	Zn	66	47989.225	0.17	47.9519	2.886	6.017	ug/L
| >	Ge	72	279028.407	279028.41				ug/L
|	As	75	5295.609	0.02	5.5981	0.385	6.869	ug/L
|	Se	77	101.334	0.00	0.3967	0.307	77.461	ug/L
|	Se	82	13.693	0.00	0.2388	0.138	57.638	ug/L
⌊	Rb	85	64955.951	0.23				mg/L
	Y	89	263407.597	47370.65				ug/L
	Rh	103	19.000	-5.67				ug/L
⌈	Mo	98	396.222	0.00	0.1418	0.009	6.269	ug/L
|	Ag	107	3030.492	0.01	0.5665	0.046	8.160	ug/L
|	Cd	114	45.435	0.00	0.0361	0.012	33.605	ug/L
| >	In	115	263983.608	263983.61				ug/L
|	Sn	118	98.134	-0.00	-0.0838	0.002	2.556	ug/L
⌊	Sb	123	38.853	0.00	0.0209	0.001	5.862	ug/L
⌈	Ba	135	102282.227	0.29	70.3118	3.837	5.457	ug/L
|	Ce	140	348221.431	0.99				ug/L
⌊>	Tb	159	350688.749	350688.75				ug/L
⌈	Ho	165	5505.408	0.02				ug/L
|	Tl	203	572.356	0.00	0.0921	0.007	7.808	ug/L
|	Tl	205	1316.885	0.00	0.0801	0.003	3.171	ug/L
|	Pb	206	51716.245	0.16	9.4780	0.621	6.549	ug/L
|	Pb	207	43732.483	0.14	8.5248	0.608	7.133	ug/L
|	Pb	208	205694.101	0.64	8.9951	0.633	7.036	ug/L
|	U	238	18015.118	0.06	0.5271	0.041	7.688	ug/L
⌊>	Bi	209	318086.579	318086.58				ug/L

Sample ID: L1103079007
Report Date/Time: Tuesday, March 29, 2011 20:00:49
Page 1

Approved: March 30, 2011

⌈	Na	23	146703.309	-0.29	0.0022	0.002	94.919	mg/L
|	Mg	24	7494401.820	55.76	2.8054	0.172	6.141	mg/L
|	K	39	3070811.876	20.21	0.5196	0.031	6.054	mg/L
|	Ca	43	29038.458	0.21	2.2597	0.129	5.694	mg/L
|	Fe	54	7714253.067	57.16	16.9104	0.981	5.803	mg/L
|	Fe	57	3330391.388	24.72	17.3186	1.118	6.458	mg/L
⌊>	Sc-1	45	134346.688	134346.69				mg/L
	Cl	35	12206.114	2355.93				mg/L
	Kr	83	73.668	1.67				mg/L
	Br	81	5218.028	-807.13				mg/L
	P	31	69398.054	63665.05				mg/L
	S	34	100679.682	-17239.54				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		88.613			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		87.722			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		92.432			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		100.525			
⌈	Na	23					

Sample ID: L1103079007
Report Date/Time: Tuesday, March 29, 2011 20:00:49
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079009

Sample Date/Time: Tuesday, March 29, 2011 20:05:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 117
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17815.862	0.02				ug/L
|	Be	9	174.002	0.00	0.6855	0.058	8.527	ug/L
|	Al	27	29038744.404	218.74	6516.6741	860.757	13.209	ug/L
⌊>	Sc	45	133063.426	133063.43				ug/L
⌈	Ti	49	3911.164	0.01	9.0512	1.201	13.267	ug/L
|	V	51	77794.579	0.28	10.8274	0.711	6.569	ug/L
|	Cr	52	75815.787	0.25	11.4219	0.897	7.852	ug/L
|	Cr	53	8564.542	0.03	12.0084	1.083	9.022	ug/L
|	Mn	55	4271350.069	15.66	470.7633	36.659	7.787	ug/L
|	Co	59	73239.421	0.27	10.3755	1.008	9.720	ug/L
|	Ni	60	25325.051	0.09	16.9707	1.119	6.592	ug/L
|	Cu	65	25705.993	0.09	16.9239	0.878	5.185	ug/L
|	Zn	66	42899.185	0.16	43.5511	2.904	6.668	ug/L
|>	Ge	72	272737.129	272737.13				ug/L
|	As	75	5423.674	0.02	5.8569	0.318	5.427	ug/L
|	Se	77	79.334	0.00	0.1278	0.118	92.054	ug/L
|	Se	82	-0.739	-0.00	0.0811	0.126	155.144	ug/L
⌊	Rb	85	62870.475	0.23				mg/L
	Y	89	265052.270	49015.32				ug/L
	Rh	103	20.334	-4.33				ug/L
⌈	Mo	98	592.859	0.00	0.2210	0.025	11.189	ug/L
|	Ag	107	3071.504	0.01	0.5859	0.047	8.064	ug/L
|	Cd	114	120.853	0.00	0.1060	0.017	15.703	ug/L
|>	In	115	259009.515	259009.52				ug/L
|	Sn	118	105.734	-0.00	-0.0813	0.003	3.564	ug/L
⌊	Sb	123	38.984	0.00	0.0212	0.001	4.797	ug/L
⌈	Ba	135	85178.373	0.25	59.2545	4.923	8.308	ug/L
|	Ce	140	387019.007	1.12				ug/L
⌊>	Tb	159	346838.364	346838.36				ug/L
⌈	Ho	165	5695.532	0.02				ug/L
|	Tl	203	574.356	0.00	0.0947	0.002	2.369	ug/L
|	Tl	205	1400.238	0.00	0.0875	0.004	4.646	ug/L
|	Pb	206	52135.927	0.17	9.8268	0.889	9.046	ug/L
|	Pb	207	44176.850	0.14	8.8564	0.802	9.051	ug/L
|	Pb	208	207931.852	0.67	9.3520	0.873	9.338	ug/L
|	U	238	15980.971	0.05	0.4806	0.044	9.200	ug/L
⌊>	Bi	209	309556.522	309556.52				ug/L

Sample ID: L1103079009
Report Date/Time: Tuesday, March 29, 2011 20:07:40
Page 1

Approved: March 30, 2011

⌈	Na	23	331773.689	1.12	0.0509	0.010	18.862	mg/L
|	Mg	24	6462545.064	48.65	2.4473	0.294	12.015	mg/L
|	K	39	2776553.999	18.26	0.4690	0.042	9.053	mg/L
|	Ca	43	87589.191	0.66	6.9585	0.733	10.533	mg/L
|	Fe	54	7633422.599	57.25	16.9374	1.913	11.292	mg/L
|	Fe	57	3343448.839	25.12	17.5997	2.189	12.437	mg/L
⌊>	Sc-1	45	133063.426	133063.43				mg/L
	Cl	35	14692.119	4841.94				mg/L
	Kr	83	85.001	13.00				mg/L
	Br	81	5330.754	-694.40				mg/L
	P	31	60778.131	55045.13				mg/L
	S	34	107496.784	-10422.44				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		86.615			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.070			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.417			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.829			
⌈	Na	23					

Sample ID: L1103079009
Report Date/Time: Tuesday, March 29, 2011 20:07:40
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079011

Sample Date/Time: Tuesday, March 29, 2011 20:12:16
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 118
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	17431.954	0.02				ug/L
|	Be	9	160.001	0.00	0.6482	0.080	12.337	ug/L
|	Al	27	17971057.340	139.60	4158.7533	247.137	5.943	ug/L
⌊>	Sc	45	128656.289	128656.29				ug/L
⌈	Ti	49	2683.962	0.01	6.0540	0.300	4.949	ug/L
|	V	51	71081.033	0.25	9.7111	0.830	8.544	ug/L
|	Cr	52	48137.083	0.14	6.6272	0.572	8.629	ug/L
|	Cr	53	5081.802	0.02	6.8951	0.473	6.864	ug/L
|	Mn	55	5578318.376	20.14	605.7012	47.324	7.813	ug/L
|	Co	59	53802.560	0.19	7.5056	0.657	8.756	ug/L
|	Ni	60	16878.118	0.06	11.1160	0.858	7.716	ug/L
|	Cu	65	18895.431	0.07	12.2279	1.012	8.279	ug/L
|	Zn	66	37870.841	0.14	37.4336	2.921	7.803	ug/L
| >	Ge	72	276965.548	276965.55				ug/L
|	As	75	11977.456	0.04	12.5772	0.978	7.777	ug/L
|	Se	77	92.000	0.00	0.2813	0.092	32.562	ug/L
|	Se	82	29.427	0.00	0.4121	0.110	26.699	ug/L
⌊	Rb	85	58789.140	0.21				mg/L
	Y	89	229177.164	13140.22				ug/L
	Rh	103	24.000	-0.67				ug/L
⌈	Mo	98	5247.900	0.02	2.0133	0.152	7.566	ug/L
|	Ag	107	6613.937	0.03	1.2589	0.145	11.539	ug/L
|	Cd	114	180.088	0.00	0.1594	0.004	2.785	ug/L
| >	In	115	260285.237	260285.24				ug/L
|	Sn	118	166.935	0.00	-0.0657	0.003	3.855	ug/L
⌊	Sb	123	84.693	0.00	0.0339	0.002	5.593	ug/L
⌈	Ba	135	114372.591	0.33	80.0892	5.728	7.152	ug/L
|	Ce	140	199996.203	0.58				ug/L
⌊>	Tb	159	344265.699	344265.70				ug/L
⌈	Ho	165	3547.661	0.01				ug/L
|	Tl	203	549.687	0.00	0.0910	0.009	9.811	ug/L
|	Tl	205	1403.574	0.00	0.0877	0.013	14.725	ug/L
|	Pb	206	83342.210	0.27	15.7356	1.112	7.069	ug/L
|	Pb	207	70537.176	0.23	14.1655	1.032	7.284	ug/L
|	Pb	208	330917.705	1.07	14.9093	1.111	7.450	ug/L
|	U	238	19492.251	0.06	0.5867	0.045	7.644	ug/L
⌊>	Bi	209	309287.960	309287.96				ug/L

Sample ID: L1103079011
Report Date/Time: Tuesday, March 29, 2011 20:14:31
Page 1

Approved: March 30, 2011

⌈	Na	23	67883.785	-0.85	-0.0174	0.001	4.896	mg/L
|	Mg	24	2660438.014	20.68	1.0374	0.062	5.976	mg/L
|	K	39	2541703.959	17.11	0.4391	0.022	4.989	mg/L
|	Ca	43	12302.138	0.09	0.9828	0.051	5.219	mg/L
|	Fe	54	5480368.037	42.35	12.5290	0.929	7.412	mg/L
|	Fe	57	2446289.154	18.95	13.2765	1.159	8.727	mg/L
⌊>	Sc-1	45	128656.289	128656.29				mg/L
	Cl	35	18390.896	8540.71				mg/L
	Kr	83	66.001	-6.00				mg/L
	Br	81	7347.367	1322.21				mg/L
	P	31	95842.986	90109.98				mg/L
	S	34	99914.712	-18004.51				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.958			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.493			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.739			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		97.744			
⌈	Na	23					

Sample ID: L1103079011
Report Date/Time: Tuesday, March 29, 2011 20:14:31
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079013

Sample Date/Time: Tuesday, March 29, 2011 20:19:06
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 119
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18116.495	0.03				ug/L
|	Be	9	156.001	0.00	0.6550	0.104	15.913	ug/L
|	Al	27	20487164.615	164.59	4903.3490	252.948	5.159	ug/L
⌊>	Sc	45	124419.276	124419.28				ug/L
⌈	Ti	49	2557.253	0.01	5.8050	0.754	12.991	ug/L
|	V	51	66881.349	0.23	9.1888	0.577	6.279	ug/L
|	Cr	52	48487.147	0.14	6.7469	0.228	3.377	ug/L
|	Cr	53	5005.087	0.02	6.8404	0.247	3.610	ug/L
|	Mn	55	7621974.388	27.73	833.9687	38.843	4.658	ug/L
|	Co	59	83902.510	0.30	11.8002	0.536	4.546	ug/L
|	Ni	60	15651.408	0.06	10.3815	0.410	3.951	ug/L
|	Cu	65	13403.793	0.05	8.7125	0.446	5.118	ug/L
|	Zn	66	29379.477	0.11	28.5267	1.753	6.145	ug/L
| >	Ge	72	274822.909	274822.91				ug/L
|	As	75	4287.218	0.02	4.6256	0.156	3.366	ug/L
|	Se	77	80.667	0.00	0.1375	0.181	131.910	ug/L
|	Se	82	17.713	0.00	0.2852	0.067	23.633	ug/L
⌊	Rb	85	59364.865	0.22				mg/L
	Y	89	223188.619	7151.67				ug/L
	Rh	103	20.667	-4.00				ug/L
⌈	Mo	98	1821.577	0.01	0.6902	0.046	6.724	ug/L
|	Ag	107	7158.312	0.03	1.3569	0.116	8.581	ug/L
|	Cd	114	72.110	0.00	0.0607	0.004	6.481	ug/L
| >	In	115	261301.468	261301.47				ug/L
|	Sn	118	147.334	0.00	-0.0709	0.003	4.164	ug/L
⌊	Sb	123	70.817	0.00	0.0299	0.001	4.906	ug/L
⌈	Ba	135	110821.449	0.32	77.3614	4.409	5.700	ug/L
|	Ce	140	276536.260	0.80				ug/L
⌊>	Tb	159	345480.915	345480.92				ug/L
⌈	Ho	165	2780.667	0.01				ug/L
|	Tl	203	592.024	0.00	0.0970	0.006	6.680	ug/L
|	Tl	205	1340.224	0.00	0.0835	0.008	9.826	ug/L
|	Pb	206	59243.544	0.19	11.1186	0.594	5.346	ug/L
|	Pb	207	49664.038	0.16	9.9137	0.498	5.025	ug/L
|	Pb	208	233069.541	0.75	10.4366	0.492	4.715	ug/L
|	U	238	11852.482	0.04	0.3540	0.016	4.604	ug/L
⌊>	Bi	209	310829.207	310829.21				ug/L

Sample ID: L1103079013
Report Date/Time: Tuesday, March 29, 2011 20:21:18
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	66490.875	-0.85	-0.0171	0.001	6.030	mg/L
|	Mg	24	1956366.947	15.72	0.7876	0.054	6.817	mg/L
|	K	39	2616848.164	18.39	0.4723	0.022	4.702	mg/L
|	Ca	43	9618.943	0.07	0.7879	0.066	8.435	mg/L
|	Fe	54	4604827.391	36.78	10.8791	0.552	5.072	mg/L
|	Fe	57	1970946.903	15.79	11.0591	0.502	4.543	mg/L
⌊>	Sc-1	45	124419.276	124419.28				mg/L
	Cl	35	22612.213	12762.03				mg/L
	Kr	83	71.334	-0.67				mg/L
	Br	81	8065.252	2040.10				mg/L
	P	31	61204.971	55471.97				mg/L
	S	34	96828.902	-21090.32				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.277			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		86.831			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		91.059			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.231			
⌈	Na	23					

Sample ID: L1103079013
Report Date/Time: Tuesday, March 29, 2011 20:21:18
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: L1103079015

Sample Date/Time: Tuesday, March 29, 2011 20:25:53
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 120
Method File: C:\elandata\Method\6020a.mth
Sample Description: 5

User ID: EDL
Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16647.195	0.02				ug/L
|	Be	9	103.334	0.00	0.4182	0.037	8.789	ug/L
|	Al	27	15750179.622	125.25	3731.4104	214.838	5.758	ug/L
⌊>	Sc	45	125701.967	125701.97				ug/L
⌈	Ti	49	1767.000	0.01	3.9556	0.279	7.045	ug/L
|	V	51	60159.136	0.21	8.2414	0.562	6.815	ug/L
|	Cr	52	40786.204	0.12	5.4646	0.369	6.755	ug/L
|	Cr	53	4298.023	0.01	5.8392	0.486	8.331	ug/L
|	Mn	55	2101291.582	7.65	230.0957	15.764	6.851	ug/L
|	Co	59	33963.701	0.12	4.7756	0.296	6.204	ug/L
|	Ni	60	10807.622	0.04	7.1547	0.414	5.791	ug/L
|	Cu	65	16332.169	0.06	10.6498	0.486	4.562	ug/L
|	Zn	66	25173.949	0.09	23.9952	1.522	6.344	ug/L
| >	Ge	72	274559.954	274559.95				ug/L
|	As	75	7936.439	0.03	8.4532	0.363	4.288	ug/L
|	Se	77	62.000	0.00	-0.1150	0.068	59.008	ug/L
|	Se	82	19.470	0.00	0.3048	0.134	44.035	ug/L
⌊	Rb	85	54182.623	0.20				mg/L
	Y	89	200452.408	-15584.54				ug/L
	Rh	103	17.667	-7.00				ug/L
⌈	Mo	98	2617.424	0.01	0.9929	0.069	6.944	ug/L
|	Ag	107	4180.918	0.02	0.7891	0.057	7.266	ug/L
|	Cd	114	79.248	0.00	0.0668	0.021	31.813	ug/L
| >	In	115	262076.973	262076.97				ug/L
|	Sn	118	113.067	-0.00	-0.0798	0.001	1.608	ug/L
⌊	Sb	123	60.942	0.00	0.0271	0.002	7.220	ug/L
⌈	Ba	135	55428.015	0.16	38.8755	2.085	5.363	ug/L
|	Ce	140	114700.382	0.33				ug/L
⌊>	Tb	159	343777.356	343777.36				ug/L
⌈	Ho	165	1086.834	0.00				ug/L
|	Tl	203	521.352	0.00	0.0855	0.006	6.867	ug/L
|	Tl	205	1260.205	0.00	0.0777	0.003	3.224	ug/L
|	Pb	206	45924.285	0.15	8.5235	0.501	5.877	ug/L
|	Pb	207	38767.225	0.12	7.6530	0.412	5.379	ug/L
|	Pb	208	182063.244	0.58	8.0627	0.435	5.392	ug/L
|	U	238	11494.401	0.04	0.3399	0.019	5.686	ug/L
⌊>	Bi	209	313823.386	313823.39				ug/L

Sample ID: L1103079015
Report Date/Time: Tuesday, March 29, 2011 20:28:06
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	39609.002	-1.07	-0.0247	0.000	1.843	mg/L
|	Mg	24	1898690.289	15.11	0.7568	0.024	3.111	mg/L
|	K	39	2207751.398	14.93	0.3823	0.025	6.510	mg/L
|	Ca	43	6409.370	0.05	0.5088	0.037	7.366	mg/L
|	Fe	54	4147448.075	32.76	9.6912	0.370	3.816	mg/L
|	Fe	57	1788362.010	14.17	9.9267	0.642	6.463	mg/L
⌊>	Sc-1	45	125701.967	125701.97				mg/L
	Cl	35	13432.350	3582.17				mg/L
	Kr	83	61.001	-11.00				mg/L
	Br	81	5940.431	-84.72				mg/L
	P	31	47267.651	41534.65				mg/L
	S	34	91228.326	-26690.89				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		87.194			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		87.089			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		90.610			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		99.178			
⌈	Na	23					

Sample ID: L1103079015
Report Date/Time: Tuesday, March 29, 2011 20:28:06
Page 2

Approved: March 30, 2011

| Mg 24
| K 39
| Ca 43
| Fe 54
| Fe 57
|> Sc-1 45
Cl 35
Kr 83
Br 81
P 31
S 34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 29, 2011 20:32:40
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 5
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	15929.418	0.02				ug/L
|	Be	9	13266.128	0.11	60.9168	1.511	2.481	ug/L
|	Al	27	224972.846	1.83	54.2314	2.304	4.248	ug/L
⌊>	Sc	45	119847.307	119847.31				ug/L
⌈	Ti	49	41543.625	0.15	95.5551	1.851	1.937	ug/L
|	V	51	351185.927	1.25	48.8384	0.885	1.812	ug/L
|	Cr	52	308819.947	1.07	49.4714	1.079	2.181	ug/L
|	Cr	53	35529.888	0.13	49.4804	0.694	1.402	ug/L
|	Mn	55	479293.367	1.71	51.3632	0.741	1.442	ug/L
|	Co	59	381531.854	1.36	52.7605	0.792	1.502	ug/L
|	Ni	60	80823.457	0.29	52.9705	0.756	1.427	ug/L
|	Cu	65	82685.604	0.30	53.2894	0.678	1.273	ug/L
|	Zn	66	51955.815	0.18	52.0410	0.595	1.143	ug/L
|>	Ge	72	279770.424	279770.42				ug/L
|	As	75	48980.132	0.18	50.4808	0.359	0.712	ug/L
|	Se	77	3974.123	0.01	51.9550	1.024	1.970	ug/L
|	Se	82	4776.977	0.02	51.8211	1.584	3.057	ug/L
⌊	Rb	85	1905.201	0.01				mg/L
	Y	89	194315.771	-21721.18				ug/L
	Rh	103	29.334	4.67				ug/L
⌈	Mo	98	269364.419	1.00	100.3136	0.848	0.845	ug/L
|	Ag	107	266142.390	0.99	49.0933	0.118	0.240	ug/L
|	Cd	114	56809.522	0.21	50.0689	0.331	0.662	ug/L
|>	In	115	269205.055	269205.05				ug/L
|	Sn	118	206097.971	0.77	51.3521	0.496	0.966	ug/L
⌊	Sb	123	187097.566	0.69	50.5285	0.464	0.918	ug/L
⌈	Ba	135	71191.249	0.20	49.3578	0.892	1.806	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	347825.520	347825.52				ug/L
⌈	Ho	165	20.002	-0.00				ug/L
|	Tl	203	319537.766	1.05	49.3084	0.412	0.835	ug/L
|	Tl	205	787632.821	2.59	49.6533	1.745	3.515	ug/L
|	Pb	206	262539.710	0.86	50.4404	0.460	0.911	ug/L
|	Pb	207	245529.710	0.81	50.1791	0.612	1.219	ug/L
|	Pb	208	1096765.678	3.60	50.2872	0.421	0.837	ug/L
|	U	238	1865265.705	6.12	57.2605	0.534	0.932	ug/L
⌊>	Bi	209	304586.084	304586.08				ug/L

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 20:34:53
Page 1

Approved: March 30, 2011

Erin D. Long

Na	23	18478915.442	152.84	5.3055	0.141	2.663	mg/L	
Mg	24	12658484.936	105.63	5.3191	0.091	1.704	mg/L	
K	39	24755038.653	203.90	5.2961	0.125	2.360	mg/L	
Ca	43	60827.398	0.50	5.3494	0.190	3.546	mg/L	
Fe	54	2238217.677	18.45	5.4559	0.162	2.972	mg/L	
Fe	57	973666.003	8.07	5.6540	0.048	0.842	mg/L	
Sc-1	45	119847.307	119847.31				mg/L	
Cl	35	10960.671	1110.49				mg/L	
Kr	83	66.334	-5.67				mg/L	
Br	81	5557.549	-467.60				mg/L	
P	31	5789.682	56.68				mg/L	
S	34	122354.834	4435.61				mg/L	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	6					
Be	9					
Al	27					
Sc	45					
Ti	49					
V	51	97.677				
Cr	52	98.943				
Cr	53					
Mn	55	102.726				
Co	59	105.521				
Ni	60	105.941				
Cu	65	106.579				
Zn	66	104.082				
Ge	72		88.848			
As	75	100.962				
Se	77					
Se	82	103.642				
Rb	85					
Y	89					
Rh	103					
Mo	98					
Ag	107	98.187				
Cd	114	100.138				
In	115		89.458			
Sn	118					
Sb	123	101.057				
Ba	135	98.716				
Ce	140					
Tb	159		91.677			
Ho	165					
Tl	203	98.617				
Tl	205					
Pb	206					
Pb	207					
Pb	208	100.574				
U	238	114.521				
Bi	209		96.258			
Na	23					

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 20:34:53
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	CCV IS OUT OF LIMITS (+/-10% OR %RSD>20)

Sample ID: QC Std 6
Report Date/Time: Tuesday, March 29, 2011 20:34:53
Page 3

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 29, 2011 20:39:26
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 1
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	18016.229	0.03				ug/L
|	Be	9	15.333	0.00	0.0322	0.023	70.360	ug/L
|	Al	27	5584.895	0.00	-0.3741	0.084	22.500	ug/L
⌊>	Sc	45	126613.260	126613.26				ug/L
⌈	Ti	49	23.336	-0.00	-0.1431	0.034	23.480	ug/L
|	V	51	1977.291	-0.00	-0.0745	0.010	12.817	ug/L
|	Cr	52	6743.674	-0.01	-0.2954	0.032	10.994	ug/L
|	Cr	53	210.023	-0.00	-0.0102	0.082	805.883	ug/L
|	Mn	55	423.347	-0.00	-0.1248	0.002	1.664	ug/L
|	Co	59	67.001	-0.00	-0.0030	0.003	85.382	ug/L
|	Ni	60	58.001	-0.00	-0.0369	0.005	13.259	ug/L
|	Cu	65	143.336	-0.00	-0.0061	0.003	53.363	ug/L
|	Zn	66	401.012	-0.00	-2.9478	0.013	0.448	ug/L
|>	Ge	72	286661.907	286661.91				ug/L
|	As	75	-118.468	0.00	0.0212	0.025	119.305	ug/L
|	Se	77	69.334	0.00	-0.0557	0.136	243.929	ug/L
|	Se	82	0.377	-0.00	0.0931	0.107	115.112	ug/L
⌊	Rb	85	37.334	0.00				mg/L
	Y	89	195543.081	-20493.87				ug/L
	Rh	103	16.334	-8.33				ug/L
⌈	Mo	98	138.915	0.00	0.0422	0.004	8.678	ug/L
|	Ag	107	836.710	0.00	0.1483	0.005	3.301	ug/L
|	Cd	114	6.379	0.00	0.0007	0.006	803.771	ug/L
|>	In	115	273833.226	273833.23				ug/L
|	Sn	118	223.603	0.00	-0.0539	0.002	3.604	ug/L
⌊	Sb	123	57.406	0.00	0.0255	0.004	14.562	ug/L
⌈	Ba	135	35.000	-0.00	-0.0006	0.001	197.455	ug/L
|	Ce	140	30.003	-0.00				ug/L
⌊>	Tb	159	355785.382	355785.38				ug/L
⌈	Ho	165	23.336	0.00				ug/L
|	Tl	203	54.001	0.00	0.0156	0.002	9.737	ug/L
|	Tl	205	83.342	0.00	0.0058	0.001	22.189	ug/L
|	Pb	206	309.675	0.00	0.0123	0.001	11.797	ug/L
|	Pb	207	262.339	0.00	0.0109	0.004	33.444	ug/L
|	Pb	208	1172.371	0.00	0.0078	0.001	12.676	ug/L
|	U	238	127.669	0.00	0.0013	0.001	53.937	ug/L
⌊>	Bi	209	311526.417	311526.42				ug/L

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 20:41:37
Page 1

Approved: March 30, 2011

⌈	Na	23	91946.637	-0.65	-0.0105	0.001	5.643	mg/L
|	Mg	24	823.451	0.00	-0.0044	0.000	1.485	mg/L
|	K	39	332414.351	-0.01	-0.0062	0.001	19.630	mg/L
|	Ca	43	256.696	-0.00	-0.0101	0.005	46.620	mg/L
|	Fe	54	30663.625	0.01	-0.0005	0.003	638.218	mg/L
|	Fe	57	5788.921	-0.00	-0.0062	0.001	8.753	mg/L
⌊>	Sc-1	45	126613.260	126613.26				mg/L
	Cl	35	10374.713	524.53				mg/L
	Kr	83	71.668	-0.33				mg/L
	Br	81	5607.572	-417.58				mg/L
	P	31	5244.708	-488.30				mg/L
	S	34	109554.188	-8365.03				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Co	59					
|	Ni	60					
|	Cu	65					
|	Zn	66					
|>	Ge	72		91.037			
|	As	75					
|	Se	77					
|	Se	82					
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107					
|	Cd	114					
|>	In	115		90.996			
|	Sn	118					
⌊	Sb	123					
⌈	Ba	135					
|	Ce	140					
⌊>	Tb	159		93.775			
⌈	Ho	165					
|	Tl	203					
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208					
|	U	238					
⌊>	Bi	209		98.452			
⌈	Na	23					

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 20:41:37
Page 2

Approved: March 30, 2011

	Mg	24
	K	39
	Ca	43
	Fe	54
	Fe	57
>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: QC Std 7
Report Date/Time: Tuesday, March 29, 2011 20:41:37

Approved: March 30, 2011

Method 6020 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, March 29, 2011 20:46:14
Number of Replicates: 3
Aliquot Volume (mL):
Diluted To Volume (mL):
Autosampler Position: 9
Method File: C:\elandata\Method\6020a.mth
Sample Description:

User ID: EDL

Cumulative Autodilution Factor: 1
ELAN-ICP 200.8\6020 External Calibration

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
⌈	Li	6	16547.101	0.02				ug/L
|	Be	9	14.667	0.00	0.0287	0.005	17.479	ug/L
|	Al	27	2700.377	-0.02	-1.0559	0.147	13.925	ug/L
⌊>	Sc	45	127458.054	127458.05				ug/L
⌈	Ti	49	30.003	-0.00	-0.1295	0.059	45.200	ug/L
|	V	51	4994.659	0.01	0.3169	0.032	10.125	ug/L
|	Cr	52	11928.229	0.01	0.4784	0.028	5.939	ug/L
|	Cr	53	826.784	0.00	0.7983	0.025	3.182	ug/L
|	Mn	55	5371.830	0.02	0.3770	0.011	2.908	ug/L
|	Co	59	3281.905	0.01	0.4172	0.004	1.032	ug/L
|	Ni	60	2804.755	0.01	1.6667	0.053	3.155	ug/L
|	Cu	65	1523.798	0.00	0.8340	0.018	2.102	ug/L
|	Zn	66	6847.746	0.02	3.5415	0.013	0.372	ug/L
|>	Ge	72	295782.768	295782.77				ug/L
|	As	75	270.924	0.00	0.4035	0.019	4.667	ug/L
|	Se	77	95.334	0.00	0.2435	0.284	116.679	ug/L
|	Se	82	39.175	0.00	0.4912	0.008	1.671	ug/L
⌊	Rb	85	30.334	-0.00				mg/L
	Y	89	205313.477	-10723.47				ug/L
	Rh	103	18.667	-6.00				ug/L
⌈	Mo	98	80.170	0.00	0.0199	0.001	3.275	ug/L
|	Ag	107	2678.385	0.01	0.4693	0.003	0.664	ug/L
|	Cd	114	240.847	0.00	0.1984	0.032	15.957	ug/L
|>	In	115	281381.803	281381.80				ug/L
|	Sn	118	139.601	0.00	-0.0754	0.001	1.548	ug/L
⌊	Sb	123	1517.949	0.01	0.4024	0.008	2.091	ug/L
⌈	Ba	135	1105.072	0.00	0.7113	0.016	2.225	ug/L
|	Ce	140	53.339	0.00				ug/L
⌊>	Tb	159	362465.409	362465.41				ug/L
⌈	Ho	165	13.335	-0.00				ug/L
|	Tl	203	573.356	0.00	0.0920	0.003	3.299	ug/L
|	Tl	205	1390.236	0.00	0.0843	0.003	4.141	ug/L
|	Pb	206	2424.652	0.01	0.3993	0.014	3.446	ug/L
|	Pb	207	2249.275	0.01	0.3977	0.006	1.384	ug/L
|	Pb	208	10092.116	0.03	0.3974	0.004	0.977	ug/L
|	U	238	14446.572	0.05	0.4209	0.003	0.730	ug/L
⌊>	Bi	209	319017.560	319017.56				ug/L

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 20:48:27
Page 1

Approved: March 30, 2011

Erin D. Long

⌈	Na	23	10169.519	-1.30	-0.0329	0.000	0.349	mg/L
|	Mg	24	366.711	0.00	-0.0046	0.000	1.173	mg/L
|	K	39	321773.317	-0.11	-0.0087	0.003	34.677	mg/L
|	Ca	43	190.021	-0.00	-0.0158	0.003	19.358	mg/L
|	Fe	54	29313.540	-0.00	-0.0040	0.005	135.399	mg/L
|	Fe	57	5919.010	-0.00	-0.0056	0.001	9.062	mg/L
⌊>	Sc-1	45	127458.054	127458.05				mg/L
	Cl	35	9874.874	24.69				mg/L
	Kr	83	56.667	-15.33				mg/L
	Br	81	5764.328	-260.83				mg/L
	P	31	5222.037	-510.97				mg/L
	S	34	103117.098	-14802.12				mg/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
⌈	Li	6					
|	Be	9					
|	Al	27					
⌊>	Sc	45					
⌈	Ti	49					
|	V	51	79.221				
|	Cr	52	59.800				
|	Cr	53					
|	Mn	55	75.406				
|	Co	59	104.303				
|	Ni	60	104.172				
|	Cu	65	104.254				
|	Zn	66	56.665				
|>	Ge	72		93.934			
|	As	75	100.877				
|	Se	77					
|	Se	82	122.795				
⌊	Rb	85					
	Y	89					
	Rh	103					
⌈	Mo	98					
|	Ag	107	117.315				
|	Cd	114	99.191				
|>	In	115		93.504			
|	Sn	118					
⌊	Sb	123	100.591				
⌈	Ba	135	94.836				
|	Ce	140					
⌊>	Tb	159		95.536			
⌈	Ho	165					
|	Tl	203	114.945				
|	Tl	205					
|	Pb	206					
|	Pb	207					
|	Pb	208	99.350				
|	U	238	105.224				
⌊>	Bi	209		100.819			
⌈	Na	23					

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 20:48:27
Page 2

Approved: March 30, 2011

|	Mg	24
|	K	39
|	Ca	43
|	Fe	54
|	Fe	57
|>	Sc-1	45
	Cl	35
	Kr	83
	Br	81
	P	31
	S	34

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	V	51	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Cr	52	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Mn	55	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Zn	66	LLCCV IS OUT OF LIMITS (+/-20%)
QC Std 8	Se	82	LLCCV IS OUT OF LIMITS (+/-20%)

Sample ID: QC Std 8
Report Date/Time: Tuesday, March 29, 2011 20:48:27
Page 3

Approved: March 30, 2011

2.2 General Chemistry Data

2.2.1 Percent Solids Data

2.2.1.1 Raw Data

LABORATORY REPORT

L11030926

03/31/11 09:28

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Kemron Environmental Services
156 Starlite Drive

Marietta, OH 45750
Attention: Mary Lou Rochette

Project Number: 2820.216
Project: Radford AAP
Site: RADFORD VIRGINIA

P.O. Number: MSA

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SWMU-57-32511-SS-FC-2'-NUM1	L11030926-01	D2216-90	1	28-MAR-11
SWMU-57-32511-SS-DUP	L11030926-02	D2216-90	1	28-MAR-11
SWMU-57-32511-SS-MS	L11030926-03	D2216-90	1	28-MAR-11
SWMU-57-32511-SS-MSD	L11030926-04	D2216-90	1	28-MAR-11
SWMU-57-32511-SS-FC-B3-2.5'	L11030926-05	D2216-90	1	28-MAR-11
SWMU-57-32611-SS-2.5' SW-4	L11030926-06	D2216-90	1	28-MAR-11

Microbac Laboratories Inc.

Report Number: **L11030926**
Report Date : **March 31, 2011**

Sample Number:	**L11030926-01**	PrePrep Method:	**NONE**	Instrument:	**BAL001**
Client ID:	**SWMU-57-32511-SS-FC-2'-NUI**	Prep Method:	**D2216-90**	Prep Date:	**03/30/2011 08:30**
Matrix:	**Soil**	Analytical Method:	**D2216-90**	Cal Date:	
Workgroup Number:	**WG360278**	Analyst:	**JDH**	Run Date:	**03/30/2011 08:30**
Collect Date:	**03/25/2011 08:15**	Dilution:	**1**	File ID:	**B1.360278-0126**
Sample Tag:	**01**	Units:	**weight %**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	**10-02-6**	**75.2**		**1.00**	**1.00**

Report Number: **L11030926**
Report Date : **March 31, 2011**

Sample Number: **L11030926-02**
Client ID: **SWMU-57-32511-SS-DUP**
Matrix: **Soil**
Workgroup Number: **WG360278**
Collect Date: **03/25/2011 08:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **03/30/2011 08:30**
Cal Date:
Run Date: **03/30/2011 08:30**
File ID: **B1.360278-0127**

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	**10-02-6**	**75.1**		**1.00**	**1.00**

Report Number: **L11030926**
Report Date : **March 31, 2011**

Sample Number:	L11030926-03	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	SWMU-57-32511-SS-MS	Prep Method:	D2216-90	Prep Date:	03/30/2011 08:30
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG360278	Analyst:	JDH	Run Date:	03/30/2011 08:30
Collect Date:	03/25/2011 08:15	Dilution:	1	File ID:	B1.360278-0128
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	75.2		1.00	1.00

Report Number: **L11030926**
Report Date : **March 31, 2011**

Sample Number:	**L11030926-04**	PrePrep Method:	**NONE**	Instrument:	**BAL001**
Client ID:	**SWMU-57-32511-SS-MSD**	Prep Method:	**D2216-90**	Prep Date:	**03/30/2011 08:30**
Matrix:	**Soil**	Analytical Method:	**D2216-90**	Cal Date:	
Workgroup Number:	**WG360278**	Analyst:	**JDH**	Run Date:	**03/30/2011 08:30**
Collect Date:	**03/25/2011 08:15**	Dilution:	**1**	File ID:	**B1.360278-0129**
Sample Tag:	**01**	Units:	**weight %**		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	**10-02-6**	**75.2**		**1.00**	**1.00**

Report Number: **L11030926**
Report Date : **March 31, 2011**

Sample Number:	L11030926-05	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	SWMU-57-32511-SS-FC-B3-2.5	Prep Method:	D2216-90	Prep Date:	03/30/2011 08:30
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG360278	Analyst:	JDH	Run Date:	03/30/2011 08:30
Collect Date:	03/25/2011 11:00	Dilution:	1	File ID:	B1.360278-0130
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	74.0		1.00	1.00

Report Number: **L11030926**
Report Date : **March 31, 2011**

Sample Number:	L11030926-06	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	SWMU-57-32611-SS-2.5' SW-4	Prep Method:	D2216-90	Prep Date:	03/30/2011 08:30
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG360278	Analyst:	JDH	Run Date:	03/30/2011 08:30
Collect Date:	03/26/2011 08:15	Dilution:	1	File ID:	B1.360278-0131
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	LOQ	LOD
Percent Solids	10-02-6	77.4		1.00	1.00

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG360278 Analyst:JDH ADT(on):03/29/2011 16:01
Method:D2216-90 Instrument:BAL001 ADT(off):03/30/2011 08:30
SOP:K0003 Rev:11

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L11030836-01	1.32	30.24	24.94			81.67	
L11030836-02	1.33	22.56	18.34			80.12	
L11030836-03	1.32	24.88	22.1			88.20	
L11030836-04	1.34	31.56	26.64			83.72	
L11030836-05	1.33	34.71	29.28			83.73	
L11030836-06	1.32	33.83	27.6			80.84	
L11030836-07	1.34	33.18	26.94			80.40	
L11030836-08	1.33	38.94	32.16			81.97	
L11030836-09	1.33	29.39	24.22			81.58	
L11030836-10	1.33	32.13	26.67			82.27	
L11030836-11	1.34	32.09	26.58			82.08	
L11030836-12	1.34	28.19	22.72			79.63	
L11030836-13	1.33	36.37	30.98			84.62	
L11030836-14	1.33	35.56	30.15			84.20	
L11030836-15	1.33	33.87	27.52			80.49	
L11030836-16	1.34	33.65	31.51			93.38	
L11030836-17	1.34	26.29	21.98			82.73	
L11030836-18	1.32	30.65	26.72			86.60	
L11030836-19	1.32	34.92	31.26			89.11	
L11030836-20	1.32	33.51	27.23			80.49	
L11030836-21	1.33	30.08	24.32			79.97	
L11030836-22	1.34	32.44	27			82.51	
L11030836-23	1.34	28.65	23.1			79.68	
L11030836-24	1.35	32.65	24.77			74.82	
L11030836-25	1.32	17	13.72			79.08	
L11030926-01	1.33	27.66	21.13			75.20	
L11030926-02	1.32	18.2	14			75.12	
L11030926-03	1.33	27.66	21.13			75.20	
L11030926-04	1.33	27.66	21.13			75.20	
L11030926-05	1.34	22.89	17.28			73.97	
L11030926-06	1.34	26.6	20.88			77.36	
WG360278-01	1.32	33.51	27.23			80.49	19.51
WG360278-02	1.34	26.6	20.88			77.36	22.64
WG360278-03	1.34	26.88	21.93			80.62	19.38
WG360278-04	1.33	23.01	18.21			77.86	22.14

Analyst: Justin Hesson

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1957168
Report generated: 03/30/2011 08:32

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
April 6, 2011

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
ALV – AMY L. VALENTINE	AML – TONY M. LONG	AZH – AFTER HOURS
BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CSH – CHRIS S. HILL	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
ECL – ERIC C. LAWSON	EDL – ERIN D. LONG	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR	HJR – HOLLY J. REED
JAL – JOHN A. LENT	JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON
JKT – JANE K. THOMPSON	JLL – JOHN L. LENT	JWR – JOHN W. RICHARDS
JWS – JACK W. SHEAVES	JYH – JI Y. HU	KEB – KATIE E. BARNES
KHR – KIM H. RHODES	KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF
LSB – LESLIE S. BUCINA	MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN
MES – MARY E. SCHILLING	MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR
MSW – MATT S. WILSON	PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT
RAH – ROY A. HALSTEAD	RB – BOB BUCHANAN	REK – BOB E. KYER
RLK – ROBIN L. KLINGER	RWC – RODNEY W. CAMPBELL	SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF	TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS	VC – VICKI COLLIER	WJB – WILL J. BEASLEY
WTD – WADE T. DELONG		

Microbac Laboratories Inc.
List of Valid Qualifiers
April 06, 2011

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the low standard (LOQ)
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

Qualkey: DOD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 2163

156 Starlite Drive
Marietta, OH 45750

KEMRON
ENVIRONMENTAL SERVICES

Phone: 740-373-4308
Fax: 740-376-2536

CHAIN-OF-CUSTODY RECORD

Company Name: UXB-KEMRON

Project Contact: MARY LOU ROCHOTTE
Contact Phone #: 740-373-4308

Turn Around Requirements: 3-DAY
Location: RFAAP SWMU-57

Project ID: MA0669-401-001

Sampler (print): JONATH ANDERSON
Signature:

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	METALS *SEE LIST	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
SWMU-57-32511-SS-FC-2'-NUM1		X	3-25-11	0815	SOIL	1		1		*PER RFAAP QAPP -ALUMINUM -ANTIMONY -MANGANESE -CADMIUM -CHROMIUM -IRON
SWMU-57-32511-SS-DUP		X	3-25-11	0815	SOIL	1		1		
SWMU-57-32511-SS-MS		X	3-25-11	0815	SOIL	1		1		
SWMU-57-32511-SS-MSD		X	3-25-11	0815	SOIL	1		1		& TEMP BLANK
SWMU-57-32511-SS-FC-B3-2.5'		X	3-25-11	1100	SOIL	1		1		
SWMU-57-32611-SS-2.5' SW-4		X	3-26-11	0815	SOIL	1		1		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3-26-11	1135			
Relinquished by: (Signature)	Date	Time	Remarks:		

Microbac OVD
Received: 03/28/2011 10:30
By: BRENDA GREENWALT
221000013533

Brenda Greenwalt

Program
☐ CWA
☐ RCRA
☐ DOD
☐ AFCEE
☐ Other

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page _____ of _____

COOLER INSPECTION

Received: 03/28/2011 10:30
Delivery Method: FedEx
Opened By: Brenda Greenwalt
Comments:

Login(s): L11030926|

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
0013037	H	1.0	345750871100256287504383922220003	2163	

1	Yes	Were shipping coolers sealed?
2	Yes	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	Yes	Were COC's received/information complete/signed and dated?
6	Yes	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were samples received within EPA hold times?
9	NA	Were correct perservatives used? (water only)
10	NA	Were pH ranges acceptable? (voa's excluded)
11	NA	Were VOA samples free of headspace (less than 6mm)?

Discrepancies:

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11030926
Account: 2820
Project: 2820.216
Samples: 6
Due Date: 31-MAR-2011

Samplenum	Container ID	Products
L11030926-01	813605	AL CD-MS CR-MS FE MN PCT-S SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	28-MAR-2011 11:42	RLK	
2	PREP	W1	DIG	28-MAR-2011 11:45	REK	RLK
3	ANALYZ*	DIG	METALS	28-MAR-2011 13:49	EDL	REK
4	ANALYZ	WET	W1	29-MAR-2011 08:21	RLK	JDH
5	STORE	WET	W1	31-MAR-2011 12:40	RLK	JDH

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11030926-02	813606	AL CD-MS CR-MS FE MN PCT-S SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	28-MAR-2011 11:42	RLK	
2	PREP	W1	DIG	28-MAR-2011 11:45	REK	RLK
3	ANALYZ*	DIG	METALS	28-MAR-2011 13:49	EDL	REK
4	ANALYZ	WET	W1	29-MAR-2011 08:21	RLK	JDH
5	STORE	WET	W1	31-MAR-2011 12:40	RLK	JDH

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11030926-03	813607	AL CD-MS CR-MS FE MN PCT-S SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	28-MAR-2011 11:42	RLK	
2	PREP	W1	DIG	28-MAR-2011 11:45	REK	RLK
3	ANALYZ*	DIG	METALS	28-MAR-2011 13:49	EDL	REK
4	ANALYZ	WET	W1	29-MAR-2011 08:21	RLK	JDH
5	STORE	WET	W1	31-MAR-2011 12:40	RLK	JDH

***Sample extract/digestate/leachate**

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11030926
Account: 2820
Project: 2820.216
Samples: 6
Due Date: 31-MAR-2011

Samplenum	Container ID	Products
L11030926-04	813608	AL CD-MS CR-MS FE MN PCT-S SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	28-MAR-2011 11:42	RLK	
2	PREP	W1	DIG	28-MAR-2011 11:45	REK	RLK
3	ANALYZ*	DIG	METALS	28-MAR-2011 13:49	EDL	REK
4	ANALYZ	WET	W1	29-MAR-2011 08:21	RLK	JDH
5	STORE	WET	W1	31-MAR-2011 12:40	RLK	JDH

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11030926-05	813609	AL CD-MS CR-MS FE MN PCT-S SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	28-MAR-2011 11:42	RLK	
2	PREP	W1	DIG	28-MAR-2011 11:45	REK	RLK
3	ANALYZ*	DIG	METALS	28-MAR-2011 13:49	EDL	REK
4	ANALYZ	WET	W1	29-MAR-2011 08:21	RLK	JDH
5	STORE	WET	W1	31-MAR-2011 12:40	RLK	JDH

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11030926-06	813610	AL CD-MS CR-MS FE MN PCT-S SB-AX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	28-MAR-2011 11:42	RLK	
2	PREP	W1	DIG	28-MAR-2011 11:45	REK	RLK
3	ANALYZ*	DIG	METALS	28-MAR-2011 13:49	EDL	REK
4	ANALYZ	WET	W1	29-MAR-2011 08:21	RLK	JDH
5	STORE	WET	W1	31-MAR-2011 12:40	RLK	JDH

***Sample extract/digestate/leachate**

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login